

Institute of oceanology “Fridtjof Nansen” – BAS-Varna

Annex 3-1

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Lyubomir	Dimitrov	Prof. Dr./Marine geology and geophysics	https://orcid.org/0000-0003-4252-8455
Professional experience (500 characters)			
<p>Prof. Dimitrov has 40 years of professional experience in marine geology and geophysics. Pioneer in the application of acoustic methods for study of shallow gas in sediments and complex seabed mapping with multibeam sonar systems. He is the well-known name among international scientific community in the field of shallow gas, mud volcanism and gas hydrates, and global methane budget in the atmosphere. He has intensive expertise in project management, creating and organization of scientific teams and preparation and organization of large Public Tenders. Author and co-author of 81 articles, 41 of which with IF. Number of citations exceeds 1500. Participant in more than 80 international and national projects.</p>			
3 to 5 most important publications in the recent 10 years			
<p>Prodanov, B., Dimitrov, L., Kotsev, I., Bekova, R., Lambev, T.. 2023, Spatial Distribution of Sand Dune Landforms along the Bulgarian Black Sea Coast: Inventory, UAS Mapping, and New Discoveries. Nature Conservation, 54, Pensoft Publishers, DOI:https://doi.org/10.3897/natureconservation.54.105507, 81-120. SJR (Scopus):0.65, JCR-IF (Web of Science):1.65</p> <p>Berov, D., Todorova, V., Dimitrov, L., Rinde, E., Karamfilov, V. 2018, Distribution and abundance of phytobenthic communities: Implications for connectivity and ecosystem functioning in a Black Sea Marine Protected Area. Estuarine, Coastal and Shelf Science, 200, ELSEVIER, ISSN:02727714, DOI:10.1016/j.ecss.2017.11.020, 234-247. SJR:1.059, ISI IF:2.413</p> <p>Xu, Cuiling, D., Greinert, Jens, Dimitrov, L., Haeckel, Matthias, Bialas, Jorg, Zhao, Guangtao, 2018, The Character and Formation of Elongated Depressions on the Upper Bulgarian Slope. Journal of Ocean University of China, 17, 3, Springer Nature, ISSN:1672-5182, 555-562. ISI IF:0.57</p> <p>Prodanov, B., L. Dimitrov, N. Andreeva, S. Keremedchiev. Geomorphological setting of the coastal zone between cape Galata and cape Paletsa, Bulgaria Black Sea. Comptes rendus de l'Academie bulgare des Sciences, 70, 8, 2017, ISSN:1310-1331, 1137-1142. IF:0.251</p> <p>Dimitrov, L., Prodanov, B., Doncheva, V., Berov, D., Trifonova, E.. Seabed mapping of the Bulgarian Coastal Zone between Sozopol and Tsarevo (Southern Bulgarian Black Sea). Comptes rendus de l'Academie bulgare des Sciences, 72, 5, 2019, ISSN:2367-5535, DOI:10.7546/CRABS.2019.05.11, 635-641. SJR (Scopus):0.21, JCR-IF (Web of Science):0.32</p>			
Achievements in developing intellectual property			
<p><i>First geomorphological map of the seabed of the Bulgarian Black Sea EEZ in scale 1:100 000</i></p> <p><i>High resolution (cell size of 2m) Digital Terrain Models of the broad Burgas bay and Varna bay</i></p> <p><i>First geological maps of seabed sediments of the broad Burgas bay and Varna bay in scale 1:10 000</i></p>			
Current employment	<p><i>Prof. at the Institute of oceanology "Fridtjof Nansen" – BAS</i></p> <p><i>Deputy Director, Head of Department "Coastal Zone Dynamics"</i></p>		

Annex 3-2

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Kremena	Stefanova	Assoc.prof. Dr./Hydrobiology	0000-0003-4202-6519
Professional experience (500 characters)			
<p>Assoc. Prof. Kremena Stefanova holds a PhD in Hydrobiology. She has over 27 years of professional experience in the field of the Black Sea zooplankton taxonomy and ecology, non-native species, ecosystem state indicators, implementation of MSFD. Author and co-author of more than 80 publications in international journals and conferences, 30 indexed in Scopus and/or Web of Science. Actively involved in international and national Projects (SESAME, ODEMM, PERSEUS, DEVOTES, MISIS, ANEMONE, BRIDGE BS etc). Member of the National Biological Diversity Council, Ministry of Environment and Water of Bulgaria in the period 2010-2015 (Order № 310/25.03.2010) and International Association of Danube Research (since 2019).</p>			
3 to 5 most important publications in the recent 10 years			
<p>Zlateva, I, Raykov,V., Alexandrova, A, Ivanova, P, Chipev, N, Stefanova, K, Dzhembekova, N, Doncheva, V, Slabakova, V, Stefanova, E, Mihova, S, Valcheva, N, Hristova, O, Dzhurova, B, Dimitrov, D, Georgieva, A, Tsvetanova, E, Andreeva, M, Popov, I, Yankova, M, Raev, Y, Petrov, K. Effects of anthropogenic and environmental stressors on the current status of red mullet (<i>Mullus barbatus</i> L., 1758) populations inhabiting the Bulgarian Black Sea waters. <i>Nature Conservation</i>, 54, Pensoft Publishers, 2023, DOI:10.3897/natureconservation.54.103758, 55-79. SJR (Scopus):0.65, JCR-IF (Web of Science):2.42</p> <p>Gubanov A., Gubanov K., Krivenko O., Stefanova K., Garbazey O., Belokopytov V., Liashko T., Stefanova E. Response of the Black Sea Zooplankton to the Marine Heat Wave 2010: Case of the Sevastopol Bay. <i>Journal of marine Science and Engineering</i>, 10, MDPI AG, 2022, ISSN:20771312, DOI:10.3390/jmse10121933, SJR (Scopus):0.54, JCR-IF (Web of Science):2.744</p> <p>Jaspers C., Ehrlich M., Pujolar J. M., Kunzel S., Bayer T., Morten T. Limborg, Lombard F., William E. Browne, K. Stefanova, Thorsten B. H. Reusch. Invasion genomics uncover contrasting scenarios of genetic diversity in a widespread marine invader. <i>Proceedings of the National Academy of Sciences of the United States of America</i>, Vol. 118, No.51, e21, National Academy of Sciences, 2021, ISSN:1091-6490, DOI:10.1073/pnas.2116211118, 1-8. SJR (Scopus):5.01</p> <p>Georgieva, Y., Daskalov, G., Klayn, S., Stefanova, K., Stefanova, E.. Seasonal Diet and Feeding Strategy of Horse Mackerel <i>Trachurus mediterraneus</i> (Steindachner, 1868) (Perciformes: Carangidae) in the South-Western Black Sea. <i>Acta zool. bulg.</i>, 71 (2), INST ZOOLOGY, BAS, 2019, ISSN:0324-0770, 201-210. JCR-IF (Web of Science):0.278</p> <p>Shiganova, T., Mikaelyan, A., Moncheva, S., Stefanova, K., Chasovnikov, V., Mosharov, S., Mosharova, I., Slabakova, N., Mavrodieva, R., Stefanova, E., Zasko, D., Dzhurova, B.. Effect of invasive ctenophores <i>Mnemiopsis leidyi</i> and <i>Beroe ovata</i> on low trophic webs of the Black Sea ecosystem. <i>Marine Pollution Bulletin</i>, 141, Elsevier Ltd, 2019, ISSN:0025-326X; eISSN: 1879-3363, DOI:10.1016/j.marpolbul.2019.02.049, 434-447. SJR (Scopus):1.22, JCR-IF (Web of Science):3.782</p>			
Achievements in developing intellectual property			
Current employment	Deputy Director		

Annex 3-3

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Petya	Ivanova	Professor	0000-0002-7487-9033
Professional experience (500 characters)			
Over 30 year experience in application of molecular genetic methods for studying the population-genetic structure and specifying the taxonomic affiliation of marine hydrobionts in connection with their biodiversity and rational exploitation of their stocks; metabarcoding as an innovative tool for the development and comprehensive monitoring of ecosystems and fish stock assessment. Experience in national and international projects as a coordinator and team member.			
3 to 5 most important publications in the recent 10 years			
Turan, C., Ivanova, P. , Raykov, V.St., Gurlek, M., Erguden, D., Yaglioglu, D., Karan, S., Dogdu, S.A., Uyan, A., Ozturk, B., Nikolov, V., Dobrovolov, I., Khanaychenko, A., Giragosov, V. 2019. Genetics Structure Analysis of Turbot (<i>Scophthalmus maximus</i> , Linnaeus, 1758) in the Black and Mediterranean Seas for Application of Innovative Management Strategies. <i>Frontiers in Marine Science</i> , 6, 740, doi:10.3389/fmars.2019.00740			
Ivanova, P. , Dzhebekova, N., Atanassov, I., Rusanov, K., Raykov, V., Zlateva, I., Yankova, M., Raev, Y., Nikolov, G., 2021. Genetic diversity and morphological characterisation of three turbot (<i>Scophthalmus maximus</i> L., 1758) populations along the Bulgarian Black Sea coast. <i>Nature Conservation</i> , 43: 123-146. doi: 10.3897/natureconservation.43.64195			
Zlateva, I., Ivanova, P. , Dzhebekova, N., Doncheva, V., Popov, I., Slabakova, V., Raev, Y., Raykov, V., Dimitrov, D. 2023. Spatial distribution and genetic diversity of turbot (<i>Scophthalmus maximus</i> , Linnaeus, 1758) in Bulgarian Black Sea waters relative to fishing pressure and their abiotic environment. <i>Journal of Marine Science and Engineering</i> , 11, 10, MDPI, doi:10.3390/jmse11101982			
Zlateva, I., Raykov, V., Alexandrova, A., Ivanova, P. , Chipev, N., Stefanova, K., Dzhebekova, N., Doncheva, V., Slabakova, V., Stefanova, E., Mihova, S., Valcheva, N., Hristova, O., Dzhurova, B., Dimitrov, D., Georgieva, A., Tsvetanova, E., Andreeva, M., Popov, I., Yankova, M., Raev, Y., Petrov, K. 2023. Effects of anthropogenic and environmental stressors on the current status of red mullet (<i>Mullus barbatus</i> L., 1758) populations inhabiting the Bulgarian Black Sea waters. <i>Nature Conservation</i> , 54, doi:10.3897/natureconservation.54.103758 , 55-79.			
Ivanova, P. , Zlateva, I., Raykov, V., Yankova, M., Dzhebekova, N., Slabakova, V., Raev, Y. 2023. Comparative Analysis of Morphometric and Meristic Characters of <i>Scophthalmus maximus</i> (Linnaeus 1758), Sampled in Four Different Sites Along the Bulgarian Black Sea Coast. <i>Acta Zoologica Bulgarica</i> , Supplement 17, ISSN:0324-0770 (print) 2603-3798 (online)			
Achievements in developing intellectual property			
n/a			
Current employment	Institute of Oceanology „Fridtjof Nansen“ – Bulgarian Academy of Sciences		

Annex 3-4

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Valentina	Todorova	Professor, PhD / hydrobiology	0000-0002-2679-5062
Professional experience (500 characters)			
<p>Prof. Dr. Valentina Todorova is a leading researcher (R4) with over 30 years of professional experience at the Institute of Oceanology - BAS, doctorate in hydrobiology - marine macrozoobenthos and competence in the field of marine benthic biodiversity and ecology, monitoring and assessment of the marine environmental state, benthic habitats conservation and designation of connected networks of marine protected areas. She participated in the implementation of over 35 research projects, in 9 of which she led Bulgarian or international scientific teams. Author and co-author of 89 publications, of which 41 are referenced and indexed in Scopus and/or Web of Science.</p>			
3 to 5 most important publications in the recent 10 years			
<p>Băncilă R., Skolka M., Ivanova P., Surugiu V., Stefanova K., Todorova V. and Zenetos A. (2022). Alien species of the Romanian and Bulgarian Black Sea coast: state of knowledge, uncertainties, and needs for future research. <i>Aquatic Invasions</i> (2022), 17 (3), pp. 353–373. DOI: 10.3391/ai.2022.17.3.02</p> <p>Berov D., Todorova V., Dimitrov L., Rinde E., Karamfilov V. (2018). Distribution and abundance of phytobenthic communities: Implications for connectivity and ecosystem functioning in a Black Sea Marine Protected Area. <i>Estuarine, Coastal and Shelf Science</i>, 200: 234-247. DOI: 10.1016/j.ecss.2017.11.020</p> <p>Fraschetti S., Pipitone C., Mazaris A. D., Rilov G., Badalamenti F., Bevilacqua S., Claudet J., Caric´ H., Dahl K., D’Anna G., Daunys D., Frost M., Gissi E., Göke C., Goriup P., Guarnieri G., Holcer D., Lazar B., Mackelworth P., Manzo S., Martin G., Palialexis A., Panayotova M., Petza D., Rumes B., Todorova V., Katsanevakis S. (2018). Light and Shade in Marine Conservation Across European and Contiguous Seas. <i>Frontiers in Marine Science</i>, 5:420, Frontiers Media S.A., 2018, ISSN: 22967745, DOI:10.3389/fmars.2018.00420</p> <p>Todorova V. R., Panayotova M.D., Bekova R.Iv., Prodanov B.K. (2022). The recovery of <i>Flexopecten glaber</i> (Linnaeus, 1758) in the Bulgarian Black Sea – recent distribution, population characteristics and future perspectives for protection and commercial utilization of a valuable species. <i>Acta Zoologica Bulgarica</i>, 74 (3), pp. 437-444. ISSN: 0324-0770 (print) 2603-3798 (online)</p> <p>Todorova V., Panayotova M., Doncheva V., Zlateva I. (2021). Assessing the physical disturbance on the seabed from fisheries in the Bulgarian Black Sea area with reference to benthic habitats status. 21st International Multidisciplinary Scientific GeoConference SGEM 2021, Volume 21, Book number 3.1, 2021, ISBN:978-619-7603-24-8, ISSN: 1314-2704, DOI:10.5593/sgem2021/3.1/s15.83, 667-674.</p>			
Achievements in developing intellectual property			
Current employment	Professor at the Institute of oceanology “Fridtjof Nansen” – BAS		

Annex 3-5

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Nikolay	Valchev	Assoc. Prof. / Oceanology	https://orcid.org/0000-0002-3895-1683
Professional experience (500 characters)			
Wind wave modelling, Wave climate and energy, Hydrodynamic modelling, Storminess and Climate change, Coastal processes monitoring and modelling, Coastal hazard / vulnerability / risk assessment, Coastal forecasting systems, Disaster risk reduction planning, Statistical methods for data processing, WFD and MSFD implementation; Maritime Spatial Planning; Operational oceanography; Climate change impact, Stakeholder mapping and communication			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Valchev, N., N. Andreeva, P. Eftimova, B. Prodanov, I. Kotsev. Assessment of vulnerability to storm induced flood hazard along diverse coastline settings, 3rd European Conference on Flood Risk Management FLOODrisk 2016, 17-21 October 2016, Lyon, France, E3S Web of Conferences 7 10002, DOI: 10.1051/e3sconf/20160710002, 2016 2. Valchev, N., Eftimova, P., Andreeva, A., Prodanov, B. Application of Bayesian Network as a tool for coastal flooding impact prediction at Varna Bay (Bulgaria, western Black Sea). In Proceedings of the 35th International Conference on Coastal Engineering, 17-20 November, Antalya, Turkey, DOI: https://doi.org/10.9753/icce.v35.management.14, 2017 3. Valchev, N., Eftimova, P and Andreeva, N. Implementation and validation of a multi-domain coastal hazard forecasting system in an open bay, Coast. Eng. 134, 212–228, doi.org/10.1016/j.coastaleng.2017.08.008, 2018 4. Cumiskey. L., Priest, S., Valchev, N., Viavattene, C., Costas, S. and Clarke, J. A framework to include the (inter)dependencies of Disaster Risk Reduction measures in coastal risk assessment, Coast. Eng. 134, 81-92, doi.org/10.1016/j.coastaleng.2017.08.009, 2018 5. Valchev N., Andreeva N., Prodanov B., Valcheva N., Eftimova P. Spatial and multiannual alteration of wave exposure along the Bulgarian coast as inferred by numerical modelling of wave energy transfer. Proceedings of 23rd International Multidisciplinary Scientific GeoConference SGEM 2023, 23, 3.1, STEF92 Technology, 2023, DOI:10.5593/sgem2023/3.1/s12.18, 2023 			
Achievements in developing intellectual property			
Current employment	Institute of Oceanology – Bulgarian Academy of Sciences		

Annex 3-6**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Marina	Panayotova	Associate professor/Hydrobiology	0000-0002-8291-8872
Professional experience (500 characters)			
Dr. Marina Panayotova (Assoc.Prof., PhD in hydrobiology) has more than 26 years' experience in the field of fish biology, ecology and population parameters of marine fish species; surveys-at-sea, hydroacoustic surveys; assessment, sustainable use and management of fish stocks and other biological resources; marine protected areas and conservation of endangered species; distribution and abundance of marine mammals and studying of marine litter distributed on the seabed. Author of more than 100 publications and participant in more than 40 international and national projects.			
3 to 5 most important publications in the recent 10 years			
<p>Panayotova M., R. Bekova, B. Prodanov. 2021. Assessment of the exploited fish population's status along the Bulgarian Black Sea coast according to indicators of the EU Marine Strategy Framework Directive. 21st International Multidisciplinary Scientific GeoConference SGEM 2021, vol.21, issue 3.1, 675-684 pp, ISBN: 978-619-7603-24-8, ISSN: 1314-2704, DOI: 10.5593/sgem2021/3.1/s15.84.</p> <p>Panayotova M., Bekova R., Prodanov B., 2020. Assessment of marine cetacean populations in Bulgarian Black Sea in 2017 according to indicators of the EU Marine Strategy Framework Directive. Ecologia Balkanica, Special Edition 3, pp.73-83.</p> <p>Panayotova M., R. Bekova, B. Prodanov. 2021. Density and distribution of marine litter on the seafloor in the Bulgarian Black Sea area. 21st International Multidisciplinary Scientific GeoConference SGEM 2021, vol.21, issue 3.1, 701-708 pp, ISBN: 978-619-7603-24-8, ISSN: 1314-2704, DOI: 10.5593/sgem2021/3.1/s15.87.</p>			
Achievements in developing intellectual property			
Current employment	Institute of Oceanology – Bulgarian Academy of Sciences		

Annex 3 -7
to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Ivan	Popov	assist. prof. PhD. eng. /Mathematical modeling, ML and DL programming	https://orcid.org/0000-0002-2012-3628
Professional experience (500 characters)			
Statistical modeling and analyses of extensive biological data and identifying trends and patterns. Developing predictive models to enhance the understanding of ecological dynamics. Collaboration with interdisciplinary teams to incorporate statistical tools into ongoing studies. Conducting thorough statistical analysis of environmental data to evaluate the influence of different factors on biodiversity and ecosystem health, applying machine learning methods to predict species distribution.			
3 to 5 most important publications in the recent 10 years			
<p>Zlateva, I., Ivanova, P., Dzhebekova, N., Doncheva, V., Popov, I., Slabakova, V., ... & Dimitrov, D. (2023). Spatial Distribution and Genetic Diversity of Turbot (<i>Scophthalmus maximus</i>, Linnaeus, 1758) in Bulgarian Black Sea Waters Relative to Fishing Pressure and Their Abiotic Environment. <i>Journal of Marine Science and Engineering</i>, 11(10)</p> <p>Zlateva, I., Raykov, V., Alexandrova, A., Ivanova, P., Chipev, N., Stefanova, K., ... & Petrov, K. (2023). Effects of anthropogenic and environmental stressors on the current status of red mullet (<i>Mullus barbatus</i> L., 1758) populations inhabiting the Bulgarian Black Sea waters. <i>Nature Conservation</i>, 54, 55-79.</p> <p>Popov, I., and E. Milanov. "Wave filtering for marine DP system using adaptive iterated extended Kalman filter." <i>Sustain. Dev. Innov. Mar. Technol. Proc. 18th Int. Congr. Maritime Assoc. Mediterr.(IMAM 2019)</i>. 2019.</p>			
Achievements in developing intellectual property			
n/a			
Current employment	Institute of oceanology – Bulgarian Academy of Sciences, department Marine physics		

Annex 3 - 8

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Ivelina	Zlateva	assist. prof. PhD. eng. /Mathematical and statistical modeling and data science in Ecology and Biology	https://orcid.org/0000-0003-4133-5627
Professional experience (500 characters)			
Statistical modeling and analyses of extensive biological data and identification of trends and patterns. Developing predictive models to enhance the understanding of ecological dynamics. Collaboration with interdisciplinary teams to incorporate statistical tools into ongoing studies. Conducting thorough statistical analysis on environmental data to evaluate the influence of different factors on biodiversity and ecosystem health. Applying machine learning methods to predict species distribution.			
3 to 5 most important publications in the recent 10 years			
<p>Zlateva, I., Raykov, V., Slabakova, V., Stefanova, E., & Stefanova, K. (2022). Habitat suitability models of five keynote Bulgarian Black Sea fish species relative to specific abiotic and biotic factors. <i>Oceanologia</i>, 64(4), 665-674.</p> <p>Zlateva, I., Ivanova, P., Dzhebekova, N., Doncheva, V., Popov, I., Slabakova, V., ... & Dimitrov, D. (2023). Spatial Distribution and Genetic Diversity of Turbot (<i>Scophthalmus maximus</i>, Linnaeus, 1758) in Bulgarian Black Sea Waters Relative to Fishing Pressure and Their Abiotic Environment. <i>Journal of Marine Science and Engineering</i>, 11(10), 1982.</p> <p>Zlateva, I., Raykov, V., Alexandrova, A., Ivanova, P., Chipev, N., Stefanova, K., ... & Petrov, K. (2023). Effects of anthropogenic and environmental stressors on the current status of red mullet (<i>Mullus barbatus</i> L., 1758) populations inhabiting the Bulgarian Black Sea waters. <i>Nature Conservation</i>, 54, 55-79.</p> <p>Dzhebekova, N., Moncheva, S., Slabakova, N., Zlateva, I., Nagai, S., Wietkamp, S., ... & Krock, B. (2022). New Knowledge on Distribution and Abundance of Toxic Microalgal Species and Related Toxins in the Northwestern Black Sea. <i>Toxins</i>, 14(10), 685.</p> <p>Zlateva, I. Y., & Nikolov, N. (2019). Two-step procedure based on the least squares and instrumental variable methods for simultaneous estimation of von Bertalanffy growth parameters. <i>International Journal of Agricultural and Environmental Information Systems (IJAEIS)</i>, 10(2), 49-81.</p>			
Achievements in developing intellectual property			
n/a			
Current employment	Institute of oceanology – BAS, department of Marine physics		

Annex 3-9**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Nataliya	Slabakova	MSc/Phytoplankton	0000-0002-3294-5346
Professional experience (500 characters)			
<p>With more than 20 years of expertise, ecologist Nataliya Slabakova is a specialist in the area of chlorophyll "a" study, taxonomic composition, distribution, seasonal and annual dynamics of phytoplankton, and flow cytometric analysis. She participated in over 20 international projects. She is also a co-author in 26 publications, of which 12 are indexed in Scopus and/or Web of Science.</p>			
3 to 5 most important publications in the recent 10 years			
<p>Elif Eker-Develi, Merve Konucu, Stella Psarra, Natalia Slabakova, Maria Triantaphyllou, Margarita Dimiza, Aristomenis P. Karageorgis, Zahit Uysal, Jean-François Berthon. Phytoplankton and pigment composition during an <i>Emiliania huxleyi</i> bloom in the Black Sea. <i>Regional Studies in Marine Science</i>, 65, 2023, ISSN:23524855, DOI:https://doi.org/10.1016/j.rsma.2023.103070, SJR (Scopus):0.51</p> <p>Dzhembekova, N., Moncheva, S., Slabakova, N., Zlateva, I., Nagai, S., Wietkamp, S., Wellkamp, M., Tillmann, U., Krock, B.. New Knowledge on Distribution and Abundance of Toxic Microalgal Species and Related Toxins in the Northwestern Black Sea. <i>TOXINS</i>, MDPI, 2022, DOI:https://doi.org/10.3390/toxins14100685, JCR-IF (Web of Science):5.075</p> <p>Dzhembekova N, Rubino F, Nagai S, Zlateva I, Slabakova N, Ivanova P, Slabakova V, Moncheva S (2020) Comparative analysis of morphological and molecular approaches integrated into the study of the dinoflagellate biodiversity within the recently deposited Black Sea sediments – benefits and drawbacks. <i>Biodiversity Data Journal</i> 8: e55172. https://doi.org/10.3897/BDJ.8.e55172 - Q2</p>			
Achievements in developing intellectual property			
Current employment	<p>Researcher ecologist, Department of marine biology and ecology, Institute of Oceanology – BAS</p>		

Annex 3 - 10**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Nadezhda	Valcheva	Assistant professor/Oceanology	https://orcid.org/0000-0002-7690-8731
Professional experience (500 characters)			
More than 15 years in Operational oceanography; Instruments for measuring the parameters of the marine environment; Management and Quality control of oceanographic data and datasets; Statistical analysis of environmental data series; Climatology of temperature and salinity; Climate change impact and Monitoring the parameters of the marine environment			
3 to 5 most important publications in the recent 10 years			
Valcheva N.. Interannual variability of the mixed layer summer sea water temperature in the Western Black Sea,. Proc. of 14th Int. Conf. on “Marine Sciences and Technologies - Black Sea’2018”, 2018, ISSN:1314 – 0957, DOI: https://doi.org/10.7546/IO.BAS.2018.3 , 204-209			
Nadezhda Valcheva, Violeta Slabakova. Winter and Summer Variability and Trends of Modis Derived Sea Surface Temperatures for the Western Black Sea. Proceeding of 1st International Conference on Environmental Protection and disaster RISks – Part One, Az-buki National Publishing House, 2020, ISBN:978-619-7065-38-1, 8-20			
Nadezhda Valcheva, Veselka Marinova, Elisaveta Peneva, Leonardo Lima, Stefania Ciliberti, Simona Masina. Spatio-temporal variability of the Black Sea Cold Intermediate Layer properties derived from in situ data. Journal of Operational Oceanography, 13, 1, Taylor & Francis, 2020, ISSN:17558778, 1755876X, DOI: https://doi.org/10.1080/1755876X.2020.1785097 , 33-41.			
Elisaveta Peneva, Emil Stanev, Stefania Ciliberti, Leonardo Lima, Ali Aydogdu, Veselka Marinov, Nadejda Valcheva. Copernicus Marine Service Ocean State Report, Issue 5: Interannual variations of the Black Sea Rim Current.. Journal of Operational Oceanography, 14, supp 1, TAYLOR & FRANCIS LTD, 2021, DOI: https://doi.org/10.1080/1755876X.2021.1946240 , 53-59.			
Ciliberti S.A., Grégoire M., Staneva J., Palazov A., Coppini G., Lecci R., Peneva E., Matreata M, Marinova V, Masina S, Pinardi N, Jansen E, Lima L, Aydoğdu A, Creti’ S, Stefanizzi L, Azevedo D, Causio S, Vandenbulcke L, Capet A, Meulders C, Ivanov E, Behrens A, Ricker M, Gayer G, Palermo F, Ilicak M, Gunduz M, Valcheva N, Agostini P. Monitoring and Forecasting the Ocean State and Biogeochemical Processes in the Black Sea: Recent Developments in the Copernicus Marine Service. Journal of Marine Science and Engineering, 9, 10: 1146, MDPI open access journals, 2021, ISSN:2077-1312, DOI: https://doi.org/10.3390/jmse9101146			
Achievements in developing intellectual property			
Current employment	Institute of oceanology, Bulgarian Academy of sciences, Ocean technology department		

Annex 3 - 11

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Nina	Dzhembekova	Chief assistant	0000-0001-9620-6422
Professional experience (500 characters)			
About 8 years of research experience in Black Sea phytoplankton biodiversity and ecology research and study of harmful algal bloom causing species and bloom events – species identification and ecology, molecular detection, with metabarcoding as a main research area. Additional expertise in the field of population genetics and application of genetic methods for fish biodiversity study. Experience in national and international projects as a coordinator and team member.			
3 to 5 most important publications in the recent 10 years			
<p>Dzhembekova, N., Urusizaki, S., Moncheva, S., Ivanova, P., Nagai, S. Applicability of massively parallel sequencing on monitoring harmful algae at Varna Bay in the Black Sea. <i>Harmful Algae</i>, 2017, 68: 40-51. https://doi.org/10.1016/j.hal.2017.07.004</p> <p>Dzhembekova, N., Moncheva, S., Ivanova, P., Slabakova, N., Nagai, S. Biodiversity of phytoplankton cyst assemblages in surface sediments of the Black Sea based on metabarcoding. <i>Biotechnology & Biotechnological Equipment</i>, 2018, 32 (6): 1507-1513. https://doi.org/10.1080/13102818.2018.1532816</p> <p>Dzhembekova, N., Moncheva, S., Slabakova, N., Zlateva, I., Nagai, S., Wietkamp, S., Wellkamp, M., Tillmann, U., Krock, B. New Knowledge on Distribution and Abundance of Toxic Microalgal Species and Related Toxins in the Northwestern Black Sea. <i>Toxins</i>, 2022, 14, 685: 1-25. https://doi.org/10.3390/toxins14100685</p>			
Achievements in developing intellectual property			
n/a			
Current employment	Institute of Oceanology „Fridtjof Nansen“ – Bulgarian Academy of Sciences		

Annex 3 12**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Radka	Mavrodieva	Phytoplankton expert	0000-0002-3294-5346
Professional experience (500 characters)			
Radka Mavrodieva is a specialist in the area of marine phytoplankton and chlorophyll "a" study - taxonomic composition, distribution, seasonal and annual dynamic. She participated in over 10 international projects. She is also a co-author in 25 publications, of which 4 are indexed in Scopus and/or Web of Science.			
3 to 5 most important publications in the recent 10 years			
<p>Moncheva S., Boicenco L., Mikaelyan A.S., Zotov A., Dereziuk N., Gvarishvili., Slabakova N., Mavrodieva R., Vlas O., Pautova L.A., Silkin V.A., Medinets V., Sahin F., Feyzioglu A.M.. Black Sea State of Environment Report 2009-2014/5 .1.3.2. Phytoplankton.. BSC, 2019. State of the Environment of the Black Sea (2009-2014/5). Edited by Anatoly Krutov., Publications of the Commission on the Protection of the Black Sea against Pollution (BSC) 2019, Istanbul, Turkey, 811pp., 2019, ISBN:978-605-84837-0-5, 225-283</p> <p>Shiganova, T., Mikaelyan, A., Moncheva, S., Stefanova, K., Chasovnikov, V., Mosharov, S., Mosharova, I., Slabakova, N., Mavrodieva, R., Stefanova, E., Zasko, D., Dzhurova, B. 2019. Effect of invasive ctenophores Mnemiopsis leidyi and Beroe ovata on low trophic webs of the Black Sea ecosystem. Marine Pollution Bulletin, 141, Elsevier Ltd, 2019. ISSN:0025-326X; eISSN: 1879-3363 DOI:10.1016/j.marpolbul.2019.02.049, 434-447. SJR (Scopus): 1.22, JCR-IF (Web of Science): 3. 782 (8 citations)</p> <p>Stefanova, K., Panayotova, M., Doncheva, V., Stefanova, E., Mavrodieva, R. 2017. Development of MSFD food web indicators. Proceedings of the Institute of Fishing Resources, 28, Agricultural Academy – Sofia, 2017, ISSN:0204-7764, 48-55</p> <p>Stefanova K., Moncheva S., Mavrodieva R., Timofte F., Boicenco L., Üstün F. Non-indigenous species. In: Moncheva S., L. Boicenco [eds]. 2014. State of the Environment. Report on Western Black Sea based on Joint MISIS cruise. MISIS Deliverable, 2014, 176-191. ISBN 978-606-598-367-0 http://misisproject.eu/index.php?task=documents_deliverables</p>			
Achievements in developing intellectual property			
Current employment	Researcher ecologist, Department of marine biology and ecology, Institute of Oceanology – BAS		

Annex 3 -13**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Veselka	Marinova	Assoc. Prof. PhD in oceanography	0000-0002-3817-1660
Professional experience (500 characters)			
<p>Assoc. Prof. Dr. is the Head of “Ocean technologies” Department at the Institute of Oceanology (IO-BAS), Varna. She holds a PhD in Oceanography (2014) at the Institute of Oceanology. Her areas of expertise are coastal and regional oceanography, data communication and dissemination systems, management of oceanographic information and data exchange, hydroacoustics and bioacoustics. Since 2015 she is a regional coordinator of the Black Sea In Situ TAC (CMEMS - INS TAC) in MyOcean Project suite and COPERNICUS - SERVICE EVOLUTION (CMEMS) projects. She also participated in numerous national and international projects (e.g. ASCABOS, SESAME, SeaDataNet, EMODnet, BulARGO, IMAMO, MARLEN). Dr. Marinova is the IODE National Coordinator for Ocean Data Management (IOC-UNESCO). She is a member of the working group on data management, exchange and quality (DATAMEQ) of EuroGOOS.</p>			
3 to 5 most important publications in the recent 10 years			
<p>Palazov A., Ciliberti S., Peneva E., Gregoire M., Staneva J., Lemieux-Dudon B., Masina S., Pinardi N., Vandenbulcke L., Behrens A., Lima L., Copinni G., Marinova V., Slabakova V., Lecci R., Creti S., Palermo F., Stefanizzi L., Valcheva N., Agostini P.. Black Sea Observing System. <i>Frontiers in Marine Science</i> June 2019, Volume 6, Article 315, 2019, DOI:https://doi.org/10.3389/fmars.2019.00315</p> <p>POULIQUEN, S., CARVAL, T.1, TAROT, S.1, SZEKELY, T.2, , GOURRION, J.2, LIEN, V, LINDERS, J.4, TAMM, S., 5 , DE ALFONSO, M, PERIVOLIS, L., MARINOVA, V., ROTLAN, P., TINTORE, J., WEDHE, H., MADER, J., PFEIL, B., VERBRUGGE, N.. FROM A PROTOTYPE TO A FULLY OPERATIONAL IN SITU SERVICE FOR COPERNICUS MARINE. <i>Mercator Ocean Journal</i> , (Spec.Issue), 57, 57, 2021, DOI:10.48670/moi-cafr-n813, 53-59</p> <p>Arthur Capet, Luc Vandenbulcke, Veselka Marinova, Marilaure Grégoire. Copernicus Marine Service Ocean State Report: Decline of the Black Sea oxygen inventory. <i>Journal of Operational Oceanography</i>, 11, supp 1, Taylor & Francis, 2018, ISSN:1755876X, 17558778, DOI:https://doi.org/10.1080/1755876X.2018.1489208,</p> <p>Marinova, V. and Stefanov, A. 2020. Development of a system for monitoring and assessment of underwater sound, EGU General Assembly 2020, EGU2020-9407, https://doi.org/10.5194/egusphere-egu2020-9407</p> <p>Marinova V., Panayotova M.. IN SITU TARGET STRENGTH MEASUREMENTS OF SPRAT (SPRATTUS SPRATTUS L.) IN THE WESTERN BLACK SEA. <i>Comptes rendus de l'Académie bulgare des Sciences</i>, 68, 10, 2015, ISSN:1310–1331, 2367–5535, 1253-1258</p>			
Achievements in developing intellectual property			
Current employment	Assoc. Prof., Head of Department “Ocean Technologies” Institute of Oceanology – BAS		

Annex 3 -14

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Violeta	Slabakova	Ocean color expert	0000-0002-3089-0126
Professional experience (500 characters)			
<p>Violeta Slabakova has about 20 years of research experience in satellite ocean color algorithm development and validation activities. Her research interests include remote sensing techniques for the determination of atmospheric and marine optical properties, methods for <i>in situ</i> optical measurements and application of satellite derived ocean color products for marine environment assessment. She is Bulgarian representative in the Management Board of Euro Argo ERIC. She is co-authored or authored over 30 research articles, of which 25 are indexed in Scopus and/or Web of Science.</p>			
3 to 5 most important publications in the recent 10 years			
<p>Gancheva I., Peneva E., Slabakova V.. Detecting the Surface Signature of Riverine and Effluent Plumes along the Bulgarian Black Sea Coast Using Satellite Data. <i>Remote Sensing</i>, 13, 20, MDPI, 2021, DOI:https://doi.org/10.3390/rs13204094, 4094.</p> <p>Callieri, C., Slabakova, V., Dzhembekova, N., Slabakova, N., Peneva, E., Cabello-Yeves, P.J., Di Cesare, A., Eckert, E.M., Bertoni, R., Corno, G., Salcher, M.M., Kamburska, L., Bertoni, F., Moncheva, S.. The mesopelagic anoxic Black Sea as an unexpected habitat for <i>Synechococcus</i> challenges our understanding of global “deep red fluorescence”. <i>The ISME journal</i>, 2019, DOI:DOI: 10.1038/s41396-019-0378</p> <p>Slabakova, V, Moncheva, S, Slabakova, N, Dzhembekova, N. Evaluation of Sentinel-3a OLCI Ocean Color Products in the Western Black Sea. 1st International Conference on Environmental Protection and Disaster RISKS, 2020, Az-buki National Publishing House, 2020, ISBN:978-619-7065-38-1, DOI:https://doi.org/10.48365/ENVR-2020.1.25, 271-281</p> <p>Pedro J. Cabello-Yeves, Cristiana Callieri, Antonio Picazo, Maliheh Mehrshad, Jose M. Haro-Moreno, Juan J. Roda-Garcia, Nina Dzhembekova, Violeta Slabakova, Nataliya Slabakova, Snejana Moncheva, Francisco Rodriguez-Valera. The microbiome of the Black Sea water column analyzed by shotgun and genome centric metagenomics. <i>Environmental Microbiomes</i>, 16, 2021</p> <p>Palazov A., Ciliberti S., Peneva E., Gregoire M., Staneva J., Lemieux-Dudon B., Masina S., Pinardi N., Vandenbulcke L., Behrens A., Lima L., Copinni G., Marinova V., Slabakova V., Lecci R., Creti S., Palermo F., Stefanizzi L., Valcheva N., Agostini P.. Black Sea Observing System. <i>Frontiers in Marine Science</i> June 2019, Volume 6, Article 315, 2019, DOI:https://doi.org/10.3389/fmars.2019.00315</p>			
Achievements in developing intellectual property			
Current employment	Ocean system engineer , Department of ocean technologies, Institute of Oceanology – BAS		

Annex 3 -15

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Violin	Raykov	Associate Professor	0000-0003-4322-6352 - ORCID
Professional experience (500 characters)			
<p>RAYKOV Violin Designation: Associate Professor in Ecology of Marine fauna, Ph.D. in hydrobiology. Violin Raykov is a fisheries biologist and works (2002-2010) at the Institute of Fish Resources and the Institute of Oceanology (2010-now) of the Bulgarian Academy of Sciences where he focuses on the dynamics of exploited marine living resource populations. He also leads pelagic surveys and data collection programmes and has participated in over 40 projects related to fishing impacts and marine ecology in the Black Sea, multistressor impacts on the biota, and microplastic and macroplastic bioaccumulation, as well as in the programme for determination of particular measures to achieve good ecological status of the Black Sea. He has collaborated closely with the GFCM as former Vice-Coordinator of the Working Group on the Black Sea (WGBS), former Coordinator of the Subregional Group on Stock Assessment for the Black Sea (SGSABS) and Initial Phase Coordinator of the BlackSes4Fish Project. Author and co-author of over 100 publications.</p>			
3 to 5 most important publications in the recent 10 years			
<p>Raykov, V. S., & Duzgunes, E. (2017). Fisheries management in the Black Sea—pros and cons. <i>Frontiers in Marine Science</i>, 4, 227.(Q1)</p> <p>Raykov, V. S., Ivanova, P. P., Turan, C., & Duzgunes, E. (2020). Ecosystem Approach to Fisheries in the Mediterranean and Black Seas-Advances in Research and Technologies. <i>Frontiers in Marine Science</i>, 7, 577.(Q1)</p> <p>Zlateva, I., Raykov, V., Slabakova, V., Stefanova, E., & Stefanova, K. (2022). Habitat suitability models of five keynote Bulgarian Black Sea fish species relative to specific abiotic and biotic factors. <i>Oceanologia</i>, 64(4), 665-674.(Q1)</p> <p>Zlateva, I., Raykov, V., Alexandrova, A., Ivanova, P., Chipev, N., Stefanova, K., ... & Petrov, K. (2023). Effects of anthropogenic and environmental stressors on the current status of red mullet (<i>Mullus barbatus</i> L., 1758) populations inhabiting the Bulgarian Black Sea waters. <i>Nature Conservation</i>, 54, 55-79.(Q2)</p> <p>Mihneva, V., Raykov, V., & Dimitrov, D. P. (2023). Summer Biomass Variability and Spatial Interactions between European Sprat (<i>Sprattus sprattus</i>) and Moon Jellyfish (<i>Aurelia aurita</i>) in the Western Part of the Black Sea. <i>Animals</i>, 13(23), 3691. (Q1)</p>			
Achievements in developing intellectual property			
Current employment	Institute of Oceanology-Bulgarian Academy of sciences, marine biology and ecology department, Associate Professor, Ph.D.		

Annex 3 -16

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Valentina	Doncheva	associate professor environmental marine sciences	https://orcid.org/0000-0002-6397-3024
Professional experience (500 characters)			
30 years experience in assessment of the seawater and sediment quality and the ecological state of marine waters, biogeochemical cycles, assessment of anthropogenic pressures causing nutrient loading, development of assessment tools (multimetric and indicator-based). She has been involved in many EU and national projects and programs			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Doncheva V. , O. Hristova, B. Djurova, E. Trifonova, V. Todorova. 2018. Organic enrichment in the Bulgarian Black Sea coastal sediments based on geochemical indicators, Proceedings of Fourteenth International Conference On Marine Sciences And Technologies, p.186-194 2. Doncheva V., , O.Hristova, B. Dzhurova. 2019 Thresholds For Eutrophication Indicators In The Bulgarian Black Sea Coastal Zone. Comptes rendus de l'Acad'emie bulgare des Sciences. Tome 72, No 7,p. 891-896. DOI:10.7546/CRABS.2019.07.05 3. Doncheva V., , O.Hristova, B. Dzhurova, K. Slavova. 2020. Metal Pollution Assessment in Sediments of the Bulgarian Black Sea Coastal Zone. ECOLOGIA BALKANICA, June 2020, Vol. 12, Issue 1, p.179-189. Online ISSN 1313-9940; Print ISSN 1314-0213, http://web.uniplovdiv.bg/mollov/EB/2020_vol12_iss1/179-189_eb.20102.pdf 4. Doncheva V. , S. Mihova, K. Stefanova, D. Popov. 2020. Microplastic Pollution Of Pomorie Lake, Bulgarian Black Sea Coast. Proceedings of Fifteenth International Conference On Marine Sciences And Technologies,34-39DOI: https://doi.org/10/7546/IO.BAS.2020.7 			
Achievements in developing intellectual property			
Current employment	Institute of Oceanology-Bulgarian Academy of sciences, marine chemistry department, Associate Professor, Ph.D.		

Bulgarian Ship Hydrodynamics Centre, Varna, Bulgaria

Annex 3 -17

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Rumen	Kishev	Prof. Dr. / Ship Theory	0000-0002-7423-2192
Professional experience (500 characters)			
<p>Specialty - ship theory, behavior of floating bodies in waves in particular. Main expertise - theoretical developments, practical design and model tests related to ship seakeeping and safety, optimal ship design, ocean engineering (drilling for oil and gas, floating engineering facilities, aquaculture facilities, etc.), environmental modelling, wave energy conversion. Projects – EC, NATO, bilateral Membership – ITTC Technical Committees & Advisory Council Lecturing - Naval Architecture and Ocean Engineering courses in Bulgaria, Italy, Belgium, Turkey</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. G. Nikolov, D. Truhkchev, R. Kishev, D. Fellows, P. Kaloyanchev - Feasibility Study on Prerequisites and Specifics of Floating Wind Farms Deployment in the Bulgarian Open Shelf – XXIII-d International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management (SGEM 2023), Albena, Bulgaria, DOI 10.5593/sgem2023/4.1/s17.10 2. D. Fellows, G. Nikolov, R. Kishev - Optimizing the Configuration of Flow Guide Grid to Reduce Turbulence in a Wave Flume for Coastal Hydraulic Research - In: Proceedings of the 15-th International Conference on Maritime Technology and Engineering (MARTECH 2020), Vol. 2, pp. 747-756, Lisbon, 2021, published by: CRC Press/Balkema, Schipholweg 107C, 2316 XC Leiden, The Netherlands, DOI: 10.1201/9781003171072 3. Palazov, A., Moncheva, S., Peneva, E., Ivanov, I., Kishev, R., Petrova, E., Kaloyanchev, P., Pirovsky, C., and Stavrev, D.: Infrastructure for Sustainable Development of Marine Research, Including the Participation of Bulgaria in the European Infrastructure Euro-Argo, EGU General Assembly 2020, Online, 4–8 May 2020, EGU2020-4202, https://doi.org/10.5194/egusphere-egu2020-4202, 2020 4. Kishev R., G. Nikolov, S. Kirilova - Numerical prediction with experimental validation of semisubmersible’s viscous damped heave motions - Proceedings of the 18th International Congress of the Maritime Association of the Mediterranean (IMAM 2019), pp. 96 – 101, September 9-11, 2019, Varna, Bulgaria, Published by CRC Press/Balkema, Schipholweg 107C, 2316 XC Leiden, The Netherlands, DOI: 10.1201/9780367810085 5. Kishev R., Kirilova S. - An Alternative Approach for Assessment of the Weather Factor in EEDI Formulation Using Statistical Ranking Theory - In: Proceedings of NAV’18 Int. Conference, Trieste, Italy 2018, pp. 291-298, ISBN: 978-1-61499-869-3, https://ebooks.iospress.nl/ISBN/978-1-61499-870-9 			
Achievements in developing intellectual property			
„Method, system and apparatus for reducing fluid drag“, K Fotev, R Kishev, G. Nikolov - US Patent App. 17/461,510, 2021			
Current employment	Deputy Head Bulgarian Ship Hydrodynamics Centre, Varna, Bulgaria		

Annex 3 - 18

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Nick	Markov	Associate professor in Fluid Mechanics, MSc in Math	0000-0002-3363-4873
Professional experience (500 characters)			
<p>100+ international projects related to the global performance of floating platforms and ships (as Technical Director of the Offshore Model Basin, California; Eng. Team Lead – Hull and Mooring, Chevron Corp.; Head of BSHC, Bulgarian Academy of Sciences)</p> <p>Participated in 15+ major capital projects related to deepwater floating platforms as a Subject Matter Expert in experimental hydrodynamics and critical equipment marine transportation; Sr. Naval Architect, and Eng. Team Lead – Hull and Mooring @ the Chevron Energy Technology Company, Houston, TX)</p> <p>Member of the Ocean Engineering Committee and the Advisory Council of the International Towing Tank Conference Association.</p> <p>Managed joint research projects with the Jet Propulsion Laboratory, Pasadena, NASA (e.g. see the patent)</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Markov, N., 2019, "A Quantum Propulsion Method", International Maritime Association of the Mediterranean (IMAM2019), Varna, 9-11 Sep 2019 2. Markov, N., Nikolov, G., Kishev, R, 2021, "Numerical and Experimental Generation of Freak Waves", Engineering Sciences, DOI: 10.7546/EngSci.LVIII.21.02.06 3. Markov, N., 2022, „Hydrodynamic Yacht Bulb Optimization by Embedding the Hull in a B-Spline Space“, The proceedings of International Conference on Maritime Technology, and Engineering, MARTECH 2022, 24-26 May 4. Markov, N., Kishev, R., 2021,“ Ships That Use Weather to Fight Weather“, MARSPLAN-BS II Proceedings, ISBN 978-619-7428-72-8 5. Markov, N., Nikolov, G., Kirilova, S., Kishev, R, 2022, „Auxiliary Propulsion Based on Wave Energy Converters“, 2022, XXIIInd International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management (SGEM 2022), Albena, Bulgaria, 2 - 11 July, 2022 (Session Renewable Energy Sources And Clean Technologies) 			
Achievements in developing intellectual property			
<ol style="list-style-type: none"> 1. Matthew GILDNER, Donald F. RUFFATTO, Sophia MITCHELL, Oktay Arslan Joshua Vander HOOK, Jolly JAMES, Robert Kwan Meng Seah, Nick MARKOV, 2018, Autonomous robotic airship inspection system for large-scale tank interiors, Patent, USA (US20180088592A1) 2. Nick MARKOV, 2020, Reactionless propulsion based on quantum tunneling, Published EU Patent Application, (EP3633191A1) 			
Current employment		Head of the Bulgarian Ship Hydrodynamics Centre - Varna, @ IMSETHC “Acad. A. Balevski”, Bulgarian Academy of Sciences	

Annex 3 - 19**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Grigor	Nikolov	assistant professor in mathematics and fluid mechanics domain	0000-0002-2433-6153
Professional experience (500 characters)			
<ul style="list-style-type: none"> • Lead a team in conducting groundbreaking studies in the field of experimental fluid dynamics • Collaboration with industry partners to transform research discoveries into real-world applications; • Numerical analysis and computational fluid dynamics (CFD); • Publish research findings in reputable peer-reviewed journals or present them at international conferences;. 			
3 to 5 most important publications in the recent 10 years			
<p>[1] Nikolov, G. (2018). A new look at vortex induced motions as clean aquatic energy source. International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 18(4.1), 75–80.</p> <p>[2] Colagrossi, A., Nikolov, G., Durante, D., Marrone, S., & Souto-Iglesias, A. (2019). Viscous flow past a cylinder close to a free surface: Benchmarks with steady, periodic and metastable responses, solved by meshfree and mesh-based schemes. Computers and Fluids, 181, 345–363.</p> <p>[3] Markov, N., & Nikolov, G. (2020). Energy generation from ocean currents and rivers using elastically interconnected cylinders. International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 2020-August(4.1), 61–68.</p> <p>[4] Kishiev, R., Nikolov, G., & Kirilova, S. (2020). Numerical prediction with experimental validation of semisubmersible's viscous damped heave motions. Sustainable Development and Innovations in Marine Technologies - Proceedings of the 18th International Congress of the International Maritime Association of the Mediterranean, IMAM 2019, 96–101.</p> <p>[5] Nikolov, G., Truhchev, D., Kishiev, R., Fellows, D., & Kaloyanchev, P. (2023). FEASIBILITY STUDY ON PREREQUISITES AND SPECIFICS OF FLOATING WIND FARMS DEPLOYMENT IN THE BULGARIAN OPEN SHELF. International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM, 23(4.1), 75–83.</p>			
Achievements in developing intellectual property			
https://patentcenter.uspto.gov/applications/17461510			
Current employment	Institute of Metal Science, equipment, and technologies with Center for Hydro- and Aerodynamics “Acad. A. Balevski” at the Bulgarian Academy of Sciences		

Annex 3 - 20

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
NIKITA	DOBIN	MSc Naval Architecture	
Professional experience (500 characters)			
<p><i>Hydrodynamics & aerodynamics,</i> <i>water transport,</i> <i>marine and coastal engineering & ecology,</i> <i>renewable energy,</i> <i>wind engineering</i></p>			
3 to 5 most important publications in the recent 10 years			
<p>(PDF) CFD Analysis of the Air Flow Inside the Landscape Wind Tunnel under Construction at BSHC (researchgate.net)</p>			
Achievements in developing intellectual property			
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Current employment	Bulgarian Ship Hydrodynamics Centre, Varna, Bulgaria		

Annex 3 - 21**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Valeriy	Dimitrov	Master of Science, Naval Architecture	
Professional experience (500 characters)			
<p>Planning, organization and conduct of theoretical and experimental hydrodynamic and aerodynamic studies.</p> <p>Management and implementation of tasks of a descriptive nature, both theoretical and purely applied.</p> <p>Design, theoretical and experimental research of propulsion systems for high-speed ships. Development of systems for automated design and verification calculations.</p> <p>Cavitation problems.</p> <p>Computer modeling of the form, development of theoretical and constructive documentation, technology for making bodies with a complex configuration, requiring high accuracy of execution.</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Milanov E., Geshev D., Kazandjieva Y., Dimitrov V., Stoyanov S., New wind tunnel at BAS-BSHC Varna for cooperative research and education, <i>Machines, Technologies, Materials, International virtual journal</i>, year II ISSUE 8-9/ 2008, pp. 75-78 (in Bulgarian). 2. Milanov, E., Kazandjieva, Y., Dimitrov, V., Rudder Free Stream Characteristics Obtained in Wind Tunnel, <i>Journal of Materials Science and Technology</i>, ISSN 081-9786, vol. 21, pp. 126-134, Sofia, 2013. 3. Dimitrov V., Kovachev R. - Review of the Theoretical and Experimental Research on Ship propulsors, Held at BSHC, Proceedings of the Jubilee Session - Dedicated to the 40th Anniversary of BSHC Establishment, pp. 139-151, BAS, ISSN 1313-8308, Okt. 2016 4. N. Kolev, P. Kaloyanchev, G. Dimitrov, V. Dimitrov, Cavitation Tube Experimental Investigation Of Acoustical Fields Radiated From A Ships Propeller Model, Сб. доклади от 6-та национална конференция с международно участие „Металознание, хидро- и аеродинамика, национална сигурност - 2017“, 30.05.2017, Варна, ISSN 1313- 8308, стр. 245-250 5. L. I. Maltsev, V. D. Dimitrov, E. M. Milanov, I. I. Zapryagaev, M. V. Timoshevskiy & K. S. Pervunin, Jet Control of Flow Separation on Hydrofoils: Performance Evaluation Based on Force and Torque Measurements, <i>Journal of Engineering Thermophysics</i>, volume 29, pages 424–442(2020), https://doi.org/10.1134/S1810232820030078 			
Achievements in developing intellectual property			
Current employment	Head of Propeller and Cavitation section in Bulgarian Ship Hydrodynamics Centre, Varna, Bulgaria		

Annex 3 - 22

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
SILVIA	KIRILOVA		0000-0003-2468-9829
Professional experience (500 characters)			
<ul style="list-style-type: none"> • Theoretical and experimental assessment of the behavior of ships and floating platforms in real operating conditions (waves, wind and current); • Theoretical and experimental assessments of the global performance and stability of ships, floating platforms and fish farms; • Theoretical and experimental evaluation of sea/river ships disasters; • Hydrodynamic evaluation of floating and submerged renewable energy converters; • Data analysis • Applications of Statistical methods in seakeeping 			
3 to 5 most important publications in the recent 10 years			
<ul style="list-style-type: none"> • Kischev R., Kirilova S. - An Alternative Approach for Assessment of the Weather Factor in EEDI Formulation Using Statistical Ranking Theory - In: Proceedings of NAV'18 Int. Conference, Trieste, Italy 2018, pp. 291-298, ISBN: 978-1-61499-869-3, • Kischev R., G. Nikolov, S. Kirilova - Numerical prediction with experimental validation of semisubmersible's viscous damped heave motions - In: Sustainable Development and Innovations in Marine Technologies: Proceedings of the 18th International Congress of the Maritime Association of the Mediterranean (IMAM 2019), pp. 96 – 101, September 9-11, 2019, Varna, Bulgaria • Kischev R., Kirilova S., Videnova O. - Experimental Investigation of Floating Fish Farms Behaviour in Waves – J. Engineering Science, Book 2, Year LVIII, pp. 17-23, BAS, 2021, ISSN 1312-5702 • Markov, N., Nikolov, G., Kirilova, S., Kischev, R, 2022, Auxiliary Propulsion Based on Wave Energy Converters, 2022, XXII-nd International Multidisciplinary Scientific GeoConference Surveying, Geology and Mining, Ecology and Management (SGEM 2022), Albena, Bulgaria, 2 – 11 July, 2022 (Session Renewable Energy Sources And Clean Technologies) 			
Achievements in developing intellectual property			
A Method for Assessment of the Weather Factor in EEDI Formulation Using Statistical Ranking Theory			
Current employment	Research scientist at Bulgarian Ship Hydrodynamics Centre, Varna, Bulgaria		

Annex 3 - 23**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Olena	Videnova	Assistant Professor	
Professional experience (500 characters)			
Ship hydrodynamics and aerodynamics, Marine Renewable Energy, Ocean and coastal engineering, Environmental protection			
3 to 5 most important publications in the recent 10 years			
Rumen Kishev, Olena Videnova, Kolyo Andonov, Atanas Kovachev, - Improved models of wind turbines for enhancing their effectiveness, NVNA, Varna, 2016			
Kishev R., Rakitin V., Kirilova S., Videnova O., Experimental Investigation of Floating Fish Farms Behaviour in Open Sea Environment- I part, First International Conference of Marine Engineering in NVNA, Varna, 2018, https://elibrary.ru/item.asp?id=36688464			
R.Kishev, S.Kirilova, O.Videnova, Experimental Investigation of Floating Fish Farms Behaviour in Waves, Article in Engineering Sciences, LVIII, BAS, · May 2021, DOI: 10.7546/EngSci.LVIII.21.02.02			
Achievements in developing intellectual property			
Current employment	Assistant Professor , Bulgarian Ship Hydrodynamic Centre at IMSTCHA-BAN		

Institute of Fish Resources – Agricultural Academy

Annex 3 -24

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Elitsa	Petrova - Pavlova	Assoc. Professor	0000-0002-8291-7108
Professional experience (500 characters)			
Over 20 years professional experience in marine ecology, marine living resources and fisheries: All project stages - monitoring and management of projects funded by the National Institutions, EU and other international donors as a coordinator and team member. Development of summary reports in the marine ecology area; Development of environmental impact assessment reports; Conducting marine surveys in different marine and wetland areas in connection with marine biology monitoring;			
3 to 5 most important publications in the recent 10 years			
Maureaud, A. et al, 2021. Are we ready to track climate-driven shifts in marine species across international boundaries? - A global survey of scientific bottom trawl data, <i>Global Change Biology</i> , 27, 2, January 2021, 220-236 https://onlinelibrary.wiley.com/doi/10.1111/gcb.15404			
Massa F. et all. 2021, Black sea aquaculture: Legacy, challenges & future opportunities <i>Aquaculture Studies</i> , 21 (4) , pp. 181-220 DOI: 10.4194/2618-6381-v21_4_05			
Petrova E., Mihneva V., Tserkova F., Valchev S., Hyusein A. 2019 Bycatch in pelagic trawling off the western coasts of the Black Sea 14th MEDCOAST Congress on Coastal and Marine Sciences, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85077516066&partnerID=40&md5=6d7a9f58abf64a738f42e1d7c25973eb			
Tserkova FM, Mihneva VV, Petrova-Pavlova EP, 2023. Biological Parameters and Biomass and Abundance Indices of Two Demersal Species, Turbot (<i>Scophthalmus maximus</i>) and Thornback Ray (<i>Raja clavata</i>), Estimated by a Trawl Survey in Western Black Sea. <i>Fishes</i> ; 8(8):400. https://doi.org/10.3390/fishes8080400			
Tserkova F., Mihneva V., Pavlova E, Penchev Ph. 2022. Size and sex structure variations of picked dogfish (<i>Squalus acanthias</i> , Linnaeus, 1758) (Chondrichthyes - Elasmobranchii) in the Western Black Sea. <i>Regional Studies in Marine Science</i> , Volume 52, 102298, ISSN 2352-4855, https://www.sciencedirect.com/science/article/pii/S2352485522000718?via%3Dihub#!			
Achievements in developing intellectual property			
n/a			
Current employment	Institute of Fish Resources – Varna, Agricultural Academy		

Annex 3 - 25

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Vesselina	Mihneva	Assoc. Professor	0000-0003-4581-7738
Professional experience (500 characters)			
Over 30-year experience in plankton investigations including biodiversity, abundance and biomass estimation, spatial and temporal distribution, physiology of gelatinous zooplankton, long-term records of seasonal and inter-annual plankton dynamics, dependence on the variance of biotic and abiotic environments, trophic cascades, and regime shifts.			
3 to 5 most important publications in the recent 10 years			
<p>1. Mihneva, V., Raykov, V., Dimitrov, D.P. 2023 Summer Biomass Variability and Spatial Interactions between European Sprat (<i>Sprattus sprattus</i>) and Moon Jellyfish (<i>Aurelia aurita</i>) in the Western Part of the Black Sea. <i>Animals</i>, 13, 3691. https://doi.org/10.3390/ani13233691</p> <p>2. Ragkousis M et al. (2023) Unpublished Mediterranean and Black Sea records of marine alien, cryptogenic, and neonative species. <i>BioInvasions Records</i>, 12(1), <i>BioInvasions Records</i> 12 (2): 339–369; https://doi.org/10.3391/bir.2023.12.2.01,</p> <p>3. Tserkova F., Mihneva V., Pavlova E, Penchev Ph. 2022. Size and sex structure variations of picked dogfish (<i>Squalus acanthias</i>, Linnaeus, 1758) (Chondrichthyes - Elasmobranchii) in the Western Black Sea. <i>Regional Studies in Marine Science</i>, Volume 52, 102298, ISSN 2352-4855, https://www.sciencedirect.com/science/article/pii/S2352485522000718?via%3Dihub#!</p> <p>4. Maureaud, A. et al, 2021. Are we ready to track climate-driven shifts in marine species across international boundaries? - A global survey of scientific bottom trawl data, <i>Global Change Biology</i>, 27, 2, January 2021, 220-236 https://onlinelibrary.wiley.com/doi/10.1111/gcb.15404</p> <p>5. Opdal A., Brodeur R., Cieciel K., Daskalov G., Mihneva V., Ruzicka J., Verheye H., Aksnes D., 2019, Unclear associations between small pelagic fish and jellyfish in four major marine ecosystems, <i>Scientific reports</i> (Nature Publishing Group), 2019, 9, 1-12 https://doi.org/10.1038/s41598-019-39351-7</p>			
Achievements in developing intellectual property			
n/a			
Current employment	Institute of Fish Resources – Agricultural Academy		

Annex 3 - 26

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Aleksandar	Atanasov	Assoc. Professor	0000-0003-3460-9589
Professional experience (500 characters)			
My teaching experience includes twenty years as a researcher at Trakia University. My work provides a useful link between fish nutrition and insufficiency diseases, such as research topics are sundry but mostly focused on freshwater and marine fish nutrition (carp and sturgeon), requirements of fish, utilization of different nutritional additives in fish feeds; clinical nutrition and biochemical parameters, environmentally sustainable and cost-effective diets.			
3 to 5 most important publications in the recent 10 years			
<p>1. Atanasoff, A., 2014. Replacement of fish meal by ribotricin in diets of carp (<i>Cyprinus carpio</i>). Mac Vet Rev. 37 (1): 55-59</p> <p>2. Atanasoff, A., C. Urku 2022. Isolation of <i>Staphylococcus pasteurii</i> in the cultured Russian sturgeon (<i>Acipenser gueldenstaedii</i>) in Bulgaria. Journal of Animal and Plant Sciences, 32(4): 961-967.</p> <p>3. Asma, S., K. Imre, A. Morar, M. Imre, U. Acaroz, S. Rizwan Ali Shah, S. Zajif Hussain, D. Arslan-Acaroz, F. Ramazan Istanbulgil, K. Madani, C. Athanassiou, A. Atanasoff, D. Morar, V. Herman, K. Zhu. 2022. Natural strategies as potential weapons against bacterial biofilms. Life, 12(10): 1618</p> <p>4. Secer, F.S., I. Yavas, Z. Cantekin, Y. Bozkurt, T. Korkmaz Yavas, A. Atanasoff 2023. Effect of different plant extracts on microbial population in the frozen African catfish (<i>Clarias gariepinus</i>) semen: Plant extracts' impact on microbial count in frozen catfish semen. Cellular and Molecular Biology, 69(8): 144-147.</p> <p>5. Taşbozan, O., C. Erbaş, Ş.S. Tabakoğlu, Ö. Yılmaz, A. Atanasoff, M.A. Gökçe 2023. The use of sesame oil in sea bream feeds and its effects on growth and body chemical composition. Israeli Journal of Aquaculture – Bamidgeh, 75(2).</p>			
Achievements in developing intellectual property			
n/a			
Current employment	Agricultural Academy, Institute of Fish Resources		

Annex 3 - 27**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Cigdem	Urku	Assoc. Professor	0000-0003-0381-9321
Professional experience (500 characters)			
Researcher with over twelve years of experience managing various aspects of the scientific field - education, projects, studies etc. Committed to developing and running algorithms for fish welfare, limiting zoonotic diseases and detecting freshwater and marine fish diseases to ensure success and productivity in the aquaculture sector.			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Urku, C., G. Timur (2014). A comparative study of detection methods for <i>Lactococcus garvieae</i> in experimentally infected rainbow trout (<i>Oncorhynchus mykiss</i>). The Israeli Journal of Aquaculture-Bamidgeh, IJA-66.2014.1025, 10 pages. 2. Urku, C., G. Genc, F. Wittwer, Z. Erturan, G. Pfyffer (2018). Mycobacteriosis in farmed sea bream (<i>Sparus aurata</i>) caused by <i>Mycobacterium frederiksbergense</i> in Turkey. Acta Veterinaria-Beograd, 68(4): 391-400. 3. Urku, C., G. Timur (2019). Streptococcal infection caused by <i>Enterococcus casseliflavus</i> in cultured Meagre (<i>Argyrosomus regius</i>). The Israeli Journal of Aquaculture - Bamidgeh, IJA_71.2019.1628. 4. Urku, C. (2021). Isolation and characterization of <i>Pseudomonas putida</i> caused granulomas in cultured sea bass (<i>Dicentrarchus labrax</i>) in Turkey. Journal of the Hellenic Veterinary Medical Society, 72(1): 2661-2668. https://doi.org/10.12681/jhvms.26748 5. Bozhkov, A., G. Nikolov, C. Urku, D. Zapryanova, A. Atanasoff, F.S. Secer, S. Kandir (2023). Effect of different light intensities on prolactin and cortisol plasma concentration in farming African catfish (<i>Clarias gariepinus</i>) in RAS with low-water exchange. The Israeli Journal of Aquaculture – Bamidgeh, 75(1): 1-7 			
Achievements in developing intellectual property			
n/a			
Current employment	Istanbul University, Faculty of Aquatic Sciences		

Annex 3 -28

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Daniela	Klisarova	Professor, PhD	0000-0002-9206-9819
Professional experience (500 characters)			
Over 30-year experience in marine plankton (phyto- and zooplankton) investigations; Qualitative (taxonomy) and quantitative (abundance and biomass) assessment of phytoplankton; Ecology of phytoplankton; Biodiversity, seasonal and long-term dynamics; "Red tide"; HABs species - conditions and regularity in their occurrence; Determination of environmental impact – anthropogenic and climatic long-term changes; Invasive species; Ballast water; Biotechnology.			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Klisarova, D., Gerdzhikov, D., Nikolova, N., Gera, M., Veleva, P., 2023. Influence of Some Environmental Factors on Summer Phytoplankton Community Structure in the Varna Bay, Black Sea (1992–2019). <i>Water</i>, vol. 15(9), art. n. 1677. EISSN 2073-4441; https://doi.org/10.3390/w15091677 (Q1) (Scopus, Impact Factor = 3.530, Web of Science, Published by MDPI; Студия) 2. Dumack, K., Gerdzhikov, D., Klisarova, D., 2022. Phylogenetic analysis confirms the taxonomic placement of the marine flagellate <i>Hermesinum adriaticum</i> (Thecofilosea, Cercozoa, Rhizaria). <i>Journal of Eukaryotic Microbiology</i>, vol. 69(3), art. e12905, pp. 1-5. ISSN: 1066-5234; https://doi.org/10.1111/jeu.12905 (Q2) (Scopus, Impact Factor = 3.346, Web of Science; Статия в списания и поредици) 3. Kim, D.D., Wan, L., Cao, X., Klisarova, D., Gerdzhikov, D., Zhou, Y., Song, C., Yoon, S., 2021. Metagenomic insights into co-proliferation of <i>Vibrio</i> spp. and dinoflagellates <i>Prorocentrum</i> during a spring algal bloom in the coastal East China Sea. <i>Water Research</i>, vol. 204, art. no. 117625. ISSN: 0043-1354; https://doi.org/10.1016/j.watres.2021.117625 (Q1) (Scopus, Impact Factor=13.4 Web of Science; Статия в списания и поредици) 4. Klisarova, D., Gerdzhikov, D., Kostadinova, G., Dermendzhieva, D., 2019. Phytoplankton quantitative development and species diversity in the Bulgarian Black Sea waters during 2014-2017. <i>Bulgarian Journal of Agricultural Science</i>, vol. 25(3), pp. 141-147. ISSN: 1310-0351; https://journal.agrojournal.org/page/en/details.php?article_id=2595 (Q3) (Scopus, SJR= 0.191; Impact Factor = 0.569 (2 Year*), Web of Science; Статия в списания и поредици) 5. Petrova, D., Gerdzhikov, D., 2015. Phytoplankton taxonomy in the Bulgarian coastal waters (2008-2010). <i>Bulgarian Journal of Agricultural Science</i>, vol. 21 (Supplement 1), pp. 90-99. ISSN: 1310-0351; https://www.agrojournal.org/21/01s-14.pdf (Q3) (Scopus, Impact Factor = 0.252 (2 Year*), Web of Science; Статия в списания и поредици) 			
Achievements in developing intellectual property			
Two utility model patents in the area of Hydrobiology: <ol style="list-style-type: none"> 1. Device for collecting of zooplankton samples - N 19/30.09.1996 2. Device for collecting of phytoplankton samples - N 979/20.02.2008 			
Current employment		Institute of Fish Resources – Agricultural Academy	

Annex 3 - 29

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Dimitar	Gerdzhikov	Chief Assistant	0000-0002-7727-1728
Professional experience (500 characters)			
Over 20-year experience in phytoplankton investigations; Qualitative (taxonomy) and quantitative (abundance and biomass) assessment of phytoplankton; Ecology of phytoplankton; Biodiversity, seasonal and long-term dynamics; "Red tide"; HABs species - conditions and regularity in their occurrence; Determination of environmental impact – anthropogenic and climatic long-term changes			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Klisarova, D., Gerdzhikov, D., Nikolova, N., Gera, M., Veleva, P., 2023. Influence of Some Environmental Factors on Summer Phytoplankton Community Structure in the Varna Bay, Black Sea (1992–2019). <i>Water</i>, vol. 15(9), art. n. 1677. EISSN 2073-4441; https://doi.org/10.3390/w15091677 (Q1) (Scopus, Impact Factor = 3.530, Web of Science, Published by MDPI; Студия) 2. Dumack, K., Gerdzhikov, D., Klisarova, D., 2022. Phylogenetic analysis confirms the taxonomic placement of the marine flagellate <i>Hermesinium adriaticum</i> (Thecofilosea, Cercozoa, Rhizaria). <i>Journal of Eukaryotic Microbiology</i>, vol. 69(3), art. e12905, pp. 1-5. ISSN: 1066-5234; https://doi.org/10.1111/jeu.12905 (Q2) (Scopus, Impact Factor = 3.346, Web of Science; Статия в списания и поредици) 3. Kim, D.D., Wan, L., Cao, X., Klisarova, D., Gerdzhikov, D., Zhou, Y., Song, C., Yoon, S., 2021. Metagenomic insights into co-proliferation of <i>Vibrio</i> spp. and dinoflagellates <i>Prorocentrum</i> during a spring algal bloom in the coastal East China Sea. <i>Water Research</i>, vol. 204, art. no. 117625. ISSN: 0043-1354; https://doi.org/10.1016/j.watres.2021.117625 (Q1) (Scopus, Impact Factor=13.4 Web of Science; Статия в списания и поредици) 4. Klisarova, D., Gerdzhikov, D., Kostadinova, G., Dermendzhieva, D., 2019. Phytoplankton quantitative development and species diversity in the Bulgarian Black Sea waters during 2014-2017. <i>Bulgarian Journal of Agricultural Science</i>, vol. 25(3), pp. 141-147. ISSN: 1310-0351; https://journal.agrojournal.org/page/en/details.php?article_id=2595 (Q3) (Scopus, SJR= 0.191; Impact Factor = 0.569 (2 Year*), Web of Science; Статия в списания и поредици) 5. Petrova, D., Gerdzhikov, D., 2015. Phytoplankton taxonomy in the Bulgarian coastal waters (2008-2010). <i>Bulgarian Journal of Agricultural Science</i>, vol. 21 (Supplement 1), pp. 90-99. ISSN: 1310-0351; https://www.agrojournal.org/21/01s-14.pdf (Q3) (Scopus, Impact Factor = 0.252 (2 Year*), Web of Science; Статия в списания и поредици) 			
Achievements in developing intellectual property			
n/a			
Current employment	Institute of Fish Resources – Agricultural Academy		

Annex 3 -30**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Philip	Penchev	Chief Assistant	0000-0002-3167-7765
Professional experience (500 characters)			
Over 10 years of experience with hydrological and hydrodynamic numerical modelling with MIKE by DHI software package. Working with GIS and data science tools, such as R, Python and Julia programming languages. Took part in several international projects dealing with flood risk assessment, marine environmental protection and innovative technologies for environmental monitoring and modelling for the assessment of fish stock and non-fish resources.			
3 to 5 most important publications in the recent 10 years			
1. Dountcheva, I., Sanz D., Penchev P., Cassiraga E., Galabov V., Gómez-Alday, J., Assessing 1D Hydrodynamic Modeling of Júcar River Behavior in Mancha Oriental Aquifer Domain (SE Spain), Water (Switzerland) Open Access, Volume 15, Issue 3, February 2023, Article number 485. https://doi.org/10.3390/w15030485			
2. Tserkova F., Mihneva V., Pavlova E, Penchev P. 2022. Size and sex structure variations of picked dogfish (<i>Squalus acanthias</i> , Linnaeus, 1758) (Chondrichthyes - Elasmobranchii) in the Western Black Sea. Regional Studies in Marine Science), Volume 52, 102298, ISSN 2352-4855, https://www.sciencedirect.com/science/article/pii/S2352485522000718?via%3Dihub#!			
3. L. Cappietti, V. Penchev, I. Simonetti, P. Penchev, Laboratory tests on an original wave energy converter combining oscillating water column and overtopping devices, RENEW Conference, Lisbon November 2018, https://www.researchgate.net/publication/328306191_Laboratory_tests_on			
Achievements in developing intellectual property			
n/a			
Current employment	Institute of Fish Resources – Agricultural Academy		

Annex 3 -31**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Feriha	Tserkova	PhD, Chief Assistant	0000-0002-9364-5945
Professional experience (500 characters)			
<p>The main topics of my studies include fish biology, biodiversity and ecology, stock assessment and population dynamics of exploited marine living resources, predictive modelling, the impact of fisheries on the marine living resources, bycatch rate by fishing activities and fleet segments. The main projects, in which I am involved are connected to the National data collection program for fisheries in Bulgaria and include turbot stock assessment, scientific observations on fishing vessels to evaluate the caught, discarded and landed catch and biological data collection of fish species and other marine organisms, etc.</p>			
3 to 5 most important publications in the recent 10 years			
<p>1. Tserkova, F.M., Mihneva, V.V., Petrova-Pavlova, E.P., 2023. Biological parameters and biomass and abundance indices of two demersal species, turbot (<i>Scophthalmus maximus</i>) and thornback ray (<i>Raja clavata</i>), estimated by a trawl survey in western Black Sea. <i>Fishes</i> 8 (8), 400. https://doi.org/10.3390/fishes8080400</p> <p>2. Tserkova F., Mihneva V., Pavlova E, Penchev Ph. 2022. Size and sex structure variations of picked dogfish (<i>Squalus acanthias</i>, Linnaeus, 1758) (Chondrichthyes - Elasmobranchii) in the Western Black Sea. <i>Regional Studies in Marine Science</i>, Volume 52, 102298, ISSN 2352-4855, https://www.sciencedirect.com/science/article/pii/S2352485522000718?via%3Dihub#!</p> <p>3. Maureaud, A. et al, 2021. Are we ready to track climate-driven shifts in marine species across international boundaries? - A global survey of scientific bottom trawl data, <i>Global Change Biology</i>, 27, 2, January 2021, 220-236 https://onlinelibrary.wiley.com/doi/10.1111/gcb.15404</p>			
Achievements in developing intellectual property			
n/a			
Current employment	Institute of Fish Resources – Agricultural Academy		

Annex 3 - 32**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Galina	Nikolova	Assoc. Professor	0000-0001-8920-7435
Professional experience (500 characters)			
As a fish breeder, I use my knowledge of genetics and breeding to select breeding stock. The field of my scientific interests is cultivation, reproduction and feeding of sturgeons. My primary responsibilities as a fish breeder included facilitating breedings and assisting with the hatching process.			
3 to 5 most important publications in the recent 10 years			
<p>1. Atanasoff A., D. Zapryanova, C. Urku, G. Nikolov (2021). Individual serum triiodothyronne and thyroxine levels in seven freshwater fish species. <i>Transylv. Rev. Syst. Ecol. Res.</i>, 23(1): 59-66.</p> <p>2. Massa, F., I. Aydın, D. Fezzardi, B. Akbulut, A. Atanasoff, A. Beken, V. Bekh, Y. Buhlak, I. Burlachenko, E. Can, S. Carboni, F. Caruso, M. Dağtekin, K. Demianenko, H. Deniz, D. Fidan, L. Fourdain, M. Frederiksen, A. Guchmanidze, H. Hamza, J. Harvey, M. Nenciu, G. Nikolov, V. Niță, M. Özdemir, E. Petrova-Pavlova, C. Platon, G. Popescu, F. Rad, S. Seyhaneyildiz Can, J. Theodorou, B. Thomas, N. Tonachella, E. Tribilustova, I. Yakhontova, A. Yesilsu, G. Yücel-Gier (2021). Black sea aquaculture: Legacy, challenges & future opportunities. <i>Aquaculture Studies</i>, 21(4):181-220.</p> <p>3. Atanasoff, A., A. Rusenov, D. Zapryanova, L. Lazarov, C. Urku, G. Nikolov 2023. Estradiol and testosterone hormones as a method for sex determination of Siberian sturgeon (<i>Acipenser baerii</i>) from Zhrebchevo Dam Lake, Bulgaria. <i>Danubian Animal Genetic Resources</i>, 2, 73-80.</p> <p>4. Ivanova, P., N. Dzhebekova, I. Atanasov, K. Rusanov, V. Raykov, I. Zlateva, M. Yankova, Y. Raev, G. Nikolov (2021). Genetic diversity and morphological characterisation of three turbot (<i>Scophthalmus maximus</i>) populations along the Bulgarian Black Sea coast. <i>Nature Conservation</i> 43: 123.</p>			
Achievements in developing intellectual property			
n/a			
Current employment	Trakia University, Faculty of Agriculture		

Annex 33

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Slava	Dineva	Associate Professor Dr. Eng.	https://orcid.org/0000-0003-2427-7488
Professional experience (500 characters)			
Scientific, management, and expert experience in the field of hydrochemistry, hydrology, impact assessment of climate change, water environment, water database management, monitoring, spatial and temporal distribution, environmental impact assessment, distribution of seawater physico-chemical parameters, lake waters, ecosystems.			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Dineva S., 2021. Varna Bay (Bulgaria): research based on the water-related challenges. Environmental Science and Pollution Research, 28, 46809–46815. https://doi.org/10.1007/s11356-021-13475-8 https://www.webofscience.com/wos/alldb/summary/65110fc2-306c-4bf7-88fd-b10c826d744e-21d6125b/relevance/1 2. Dineva S., 2021. Survey of Seawater in the Coastal Area of the Black Sea in Front of Cape Galata (Bulgaria). In: Ksibi M. et al. (eds) Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (2nd Edition). EMCEI 2019. Environmental Science and Engineering, pp. 1525-1529. Springer, Cham. https://doi.org/10.1007/978-3-030-51210-1_243 3. Dineva S., 2018. System-scale Environmental Research Approach to Varna Lake, Varna Bay and the Coastal Area of the Black Sea in front of Cape Galata. Özcan G., Tarkan A.S., Özcan T. (Eds.), Proceeding Book, International Marine & Freshwater Sciences Symposium, 18-21 October 2018, Kemer-Antalya, Turkey, ISBN: 978-605-82085-2-0, 66-70. 4. Dineva S., McKay J., 2016. Institutional Governance and Regulation / Water Resources Management and Climate Change. H. Li (Ed.), Global Trends & Challenges in Water Science, Research and Management, Second edition, Published by International Water Association (IWA), London, United Kingdom, The Clyvedon Press Ltd, Cardiff, UK, ISBN 9781780408378, 56-61. 5. Dineva S., 2015. The system of the Beloslav and the Varna lakes: an evolving water environment. Bulgarian Journal of Agricultural Science (BJAS), 21 (Supplement 1), 111-115. ISSN 0310-0351. 			
Achievements in developing intellectual property			
n/a			
Current employment	Institute of Fish Resources – Agricultural Academy		

Annex 3 -34**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Sonya	Uzunova	Assoc. Professor	0000-0003-3020-1201
Professional experience (500 characters)			
35 years of expertise in zoobenthos investigations, including biodiversity, abundance and biomass estimation, spatial and temporal distribution. Long-term studies of changes in taxonomic composition, seasonal and inter-annual dynamics of quantitative parameters of zoobenthos in conditions of changing environment, regime shifts. Research on nektobenthos (hyperbenthos) composition.			
3 to 5 most important publications in the recent 10 years			
1. Uzunova S., Mihneva V., Tserkova F., Petrova E., 2022. Macrobenthos diversity in the bycatch of Rapa whelk trawling along the Western Black Sea shelf, Proceedings of International Conference on Research and Assessment for Sustainable Use of Black Sea Shellfish Resources, Varna, October 2021, 49-64 ISBN 978-619-90271-3-4			
2. Deli T., E. Kalkan, S. Ünsal Karhan, S. Uzunova, A. Keikhosravi, R. Bilgin, C. D. Schubart, 2018. Parapatric genetic divergence among deep evolutionary lineages in the Mediterranean green crab, <i>Carcinus aestuarii</i> (Brachyura,Portunoidea, Carcinidae), accounts for a sharp phylogeographic break in the Eastern Mediterranean, BMC Evolutionary Biology, 18:53. DOI: 10.1186/s12862-018-1167-4			
3. Petrova, Mihneva, Stoykov, Klisarova, Uzunova, Dineva, Gerdzhikov, 2017, Environmental status and dynamics of shellfish resources - veined rapa whelk and black mussel in the Western Black Sea during 2015-2016, Proc. Institute of Fish Resources, 28, 7-25. ISSN 1314-3379			
4. Uzunova S., 2016. Identification book of Decapoda (Crustacea) from the Bulgarian Sector of the Black Sea, Arttreysler: 1-126. ISBN: 978-619-7094-20-6 [in Bulgarian]			
5. Uzunova S., 2015. Recent changes of zoobenthos communities from the region Cape Kaliakra-Cape Galata (the Black Sea), Bulgarian Journal of Agricultural Science, (Supplement 1), 21: 154-158 ISSN 2534-983X			
Achievements in developing intellectual property			
n/a			
Current employment	Institute of Fish Resources – Agricultural Academy		

Asen Zlatarov University Burgas, Bulgaria

Annex 3 - 35**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Ivaylo	Belovski	Assoc. Prof. PhD of Devices of automation and computing technology; Assoc. Professor of Sensors	0000-0003-2221-5259
Professional experience (500 characters)			
He is a lecturer of Sensors and Sensor Devices and Measurements in Electronics. He has over 50 publications In areas of Thermoelectric convertors and Sensors systems; (22 scientific publications in Scopus and H index 5). He has participated and/or led 12 national and international projects and he is a reviewer for the 2024 9th International Conference on Energy Efficiency and Agricultural Engineering.			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Belovski, I., Ivanov, K., Aleksandrov, A., Aleksandrova, I., Regression model of a thermoelectric generator based on peltier modules, 2021 17th Conference on Electrical Machines, Drives and Power Systems, ELMA 2021 - Proceedings, 2021, IEEE, ISBN:978-166543582-6, DOI:10.1109/ELMA52514.2021.9503030 2. Ivanov, K, Belovski, I, Aleksandrov, A, Peltier Module–Based Thermoregulator for Liquid Bidirectional Temperature Control, 2023 18th Conference on Electrical Machines, Drives and Power Systems, ELMA 2023 - Proceedings, 2023, IEEE, ISBN: 979-8-3503-1127-3, DOI: 10.1109/ELMA58392.2023.10202481 3. Belovski, I., Aleksandrov, A., Examination of the Characteristics of a Thermoelectric Cooler in Cascade, 2019 X National Conference with International Participation (ELECTRONICA) - Proceedings, IEEE, ISBN: 978-172813622-6, DOI: 10.1109/ELECTRONICA.2019.8825631 4. Belovski, I., Yovcheva, P., Surchev, S., Aleksandrov, A., Thermoelectric generator power prediction based on artificial neural network, 2018, 20th International Symposium on Electrical Apparatus and Technologies, SIELA 2018 – Proceedings, IEEE, ISBN: 978-153863419-6, DOI: 10.1109/SIELA.2018.8447070 5. Belovski I., I. Aleksandrova,A. Aleksandrov, Regression Models of a Thermoelectric Cooling System Based on Multi-Stage Peltier Module, 2019 28th International Scientific Conference Electronics, ET 2019 - Proceedings, IEEE, ISBN: 978-172812574-9, DOI: 10.1109/ET.2019.8878324 			
Achievements in developing intellectual property			
<i>none</i>			
Current employment	Asen Zlatarov University		

Annex 3 -36

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Aleksandar	Dimitrov	Assoc. Prof., PhD PhD of Technology of Natural and Synthetic Fuels; Assoc. Prof. of Ecology and Environmental Protection	0000-0002-2683-2222
Professional experience (500 characters)			
<p>He is a lecture of Ecology in Industry, Ecology of Oil Refining, Hazardous Substances, Organization of Research, Chemistry and Technology of Oil and Gas", Extraction, Transport and Storage of Oil and Gas; PhD Supervisor.</p> <p>He has over 50 scientific publications in areas of ecology and environmental protection, technology of fuels and other (30 scientific publications in Scopus and H index 4).</p> <p>He has participated and/or led over 7 national and international projects</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> Dimitrov A., S. Genieva, P. Petkov, L. Vlaev. <i>Using of the product from pyrolysis of rice husks as adsorbent for purification of water basins from oil products</i>. Water, Air, & Soil Pollution, 2012, 223 (8) 5087–5095. Sotirova E., S. Sotirov, A. Dimitrov, K.T. Atanassov. <i>On some applications of the game method for modelling. Part 3: Simulation of oil transformation in marine environment</i>. Proceedings of the Jangjeon Mathematical Society, 2013, Volume 16, № 2, pp. 293-300. Ivanova D., Y. Tasheva, E. Sotirova, A. Dimitrov, S. Sotirov, 2023. <i>Prediction of the Granulometric Composition of the Silt Loading on Transport Arteries in the City of Burgas Based on Artificial Neural Networks</i>. Recent Contributions to Bioinformatics and Biomedical Sciences and Engineering, Lecture Notes in Networks and Systems, vol. 658, Springer 2023, pp. 21-31. Petrov M., Z. Nikolaeva, A. Dimitrov, 2023. <i>Cyclical aspect of the complex factors of anthropogenic activity on the global ecosystem</i>. Oxidation Communications, 46 (2), pp. 509-518. Mollova E.J., E.D. Ivanova, S.C. Turmanova, A.N. Dimitrov, 2023. <i>Contamination of the coastline of Burgas bay with microplastics</i>. Journal of Environmental Protection and Ecology, 24 (8), pp. 2614-2621. 			
Achievements in developing intellectual property			
none			
Current employment	Assen Zlatarov University, Burgas, Bulgaria		

Annex 3 -37

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Deyan	Mavrov	Associate professor in Informatics and Computer Science	0000-0002-2450-9616
Professional experience (500 characters)			
Teaching classes in Computer Science, Programming, and Information Technology at Asen Zlatarov University since 2012 – first as assistant until 2016, then as chief assistant from 2016 to 2022, and as associate professor since 2022. Research on the topics of intercriteria analysis, intuitionistic fuzzy sets, and index matrices since 2013, with 18 papers and conference reports indexed in Scopus, receiving a total of 199 citations as of March 2024. Participant in multiple research projects.			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. V. K. Atanassova, L. A. Doukovska, K. T. Atanassov, and D. G. Mavrov, "Intercriteria decision making approach to EU member states competitiveness analysis," in BMSD - Proc. Int. Symp. Bus. Model. Softw. Des., 2014, pp. 289–294. doi: 10.5220/0005427302890294. 2. S. Todinova, D. Mavrov, S. Krumova, P. Marinov, V. Atanassova, K. Atanassov, and S. G. Taneva, "Blood plasma thermograms dataset analysis by means of intercriteria and correlation analyses for the case of colorectal cancer," International Journal Bioautomation, vol. 20, no. 1, pp. 115–124, 2016. 3. S. Krumova, S. Todinova, D. Mavrov, P. Marinov, V. Atanassova, K. Atanassov, and S. G. Taneva, "Intercriteria analysis of calorimetric data of blood serum proteome," Biochimica et Biophysica Acta - General Subjects, vol. 1861, no. 2, pp. 409–417, 2017, doi: 10.1016/j.bbagen.2016.10.012. 4. S. Sotirov, V. Atanassova, E. Sotirova, L. Doukovska, V. Bureva, D. Mavrov, and J. Tomov, "Application of the Intuitionistic Fuzzy InterCriteria Analysis Method with Triples to a Neural Network Preprocessing Procedure," Computational Intelligence and Neuroscience, vol. 2017, 2017, doi: 10.1155/2017/2157852. 5. D. Mavrov, V. Atanassova, V. Bureva, O. Roeva, P. Vassilev, R. Tsvetkov, D. Zoteva, E. Sotirova, K. Atanassov, A. Alexandrov, and H. Tsakov, "Application of Game Method for Modelling and Temporal Intuitionistic Fuzzy Pairs to the Forest Fire Spread in the Presence of Strong Wind," Mathematics, vol. 10, no. 8, 2022, doi: 10.3390/math10081280. 			
Achievements in developing intellectual property			
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Current employment	Prof. Dr. Asen Zlatarov University, Burgas Faculty of Natural Sciences Dept. of Mathematics, Informatics and Physics		

Annex 3 -38

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Todor	Ganchev	Prof. PhD of Computer Science; Professor of Artificial Intelligence	0000-0003-0384-4033
Professional experience (500 characters)			
<p>Todor Ganchev is the Titular Professor of Artificial Intelligence at the Department of Computer Science and Engineering and the founding Head of the Artificial Intelligence Laboratory at the Technical University of Varna. He authored 2 books, edited 7 volumes and co-authored over 200 publications, which collectively received over 3000 citations (Google Scholar h-index=28). He has been involved in over 30 national and international RTD projects focused on the application of signal processing and machine learning methods in Biometrics, Bioacoustics, and Human-Machine Interaction. Prof. Ganchev served as the Vice-Rector of Research at TU-Varna (mandate 2019-2023). Since 2010 he has been a Senior Member of IEEE and currently serves as the Vice-Chair of the IEEE Bulgaria Section (mandate 2023-2025).</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> Ganchev T. (2017). <i>Computational Bioacoustics: Biodiversity Monitoring and Assessment</i>. First Edition. Walter de Gruyter Incorporated, Berlin, June. 2017. ISBN: 978-1-61451-729-0, www.degruyter.com de Oliveira, A., Ventura, T., Ganchev, T., Silva, L.N.S., Marques, M.I., Schuchmann, K.-L. (2020). Speeding up training of automated bird recognizers by data reduction of audio features, <i>PeerJ</i>, 2020 (1), art. no. e8407, DOI: https://doi.org/10.7717/peerj.8407 Ganchev T., Markova V., Valcheva-Georgieva I., Dobrev I. (2022). Assessment of pollution with heavy metals and petroleum products in the sediments of Varna Lake, <i>Review of the Bulgarian Geological Society</i>, vol. 83, part 2, 2022, p. 3–9. Zhou L., Nandal A., Ganchev T., Dhaka A. (2022). Breast Cancer Detection by Fusion of Deep Features with CNN Extracted Features, <i>International Journal of Intelligent Systems Technologies and Applications</i>, ISSN: 1740-8865, 2022. Inderscience Enterprises Ltd, Switzerland. Ventura T., Ganchev T., Pérez-Granados C., de Oliveira A., Pedroso G.S.G., Marques M.I., Schuchmann K.-L. (2024). The importance of acoustic background modelling in CNN-based detection of the Neotropical White-lored Spinetail (Aves, Passeriformes, Furnaridae). <i>Bioacoustics</i> (TBIO), DOI: https://doi.org/10.1080/09524622.2024.2309362. 			
Achievements in developing intellectual property			
none			
Current employment	The Technical University of Varna		

Annex 3 -39

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Valentina	Markova	Prof. PhD of communication and computer technology; Professor of data acquisition systems	0000-0002-1819-4507
Professional experience (500 characters)			
<p>Her research interests are in the fields of Sensor Networks, Data Acquisition, Digital Signal Processing, Artificial intelligence, and their applications in Health and Environment monitoring.</p> <p>She is a co-author of over 100 scientific publications with more than 200 citations. (47 scientific publications in Scopus and H index 6).</p> <p>She has participated and/or led 15 national and international projects and is an editor of four international conference proceedings. Member of Organizing and Program Committee of 12 International conferences. Chair of IEEE Bulgaria Section.</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Markov M, Kalinin Y, Markova V, Ganchev T. Towards Implementation of Emotional Intelligence in Human–Machine Collaborative Systems. <i>Electronics</i>. 2023; 12(18):3852. https://doi.org/10.3390/electronics12183852 2. Ganchev T., Markova V., Valcheva-Georgieva I., Dobrev I. Pollution of Varna Lake and possibilities of using the pollutants as resources, 2023, <i>E3S Web of Conferences</i>, vol.404, doi: 10.1051/e3sconf/202340403002 3. Feradov F, Markova V, Ganchev T. Automated Detection of Improper Sitting Postures in Computer Users Based on Motion Capture Sensors. <i>Computers</i>. 2022; 11(7):116. https://doi.org/10.3390/computers11070116 4. V. Markova, T. Ganchev and K. Kalinkov, "CLAS: A Database for Cognitive Load, Affect and Stress Recognition," 2019 International Conference on Biomedical Innovations and Applications (BIA), 2019, pp. 1-4, doi: 10.1109/BIA48344.2019.8967457. 5. V. Markova, T. Ganchev, K. Kalinkov, M. Markov, "Detection of acute stress caused by cognitive tasks based on physiological signals", <i>Bulletin of Electrical Engineering and informatics</i>, 2021, vol.10. DOI: https://doi.org/10.11591/eei.v10i5.3130 			
Achievements in developing intellectual property			
<i>none</i>			
Current employment	Technical University of Varna		

Annex 3 -40

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Plamena	Yovcheva	Assistant professor Computer science	0000-0002-1132-4217
Professional experience (500 characters)			
I lead exercises in programming languages and computer sciences, and in particular the languages c++, java and c#. I have publications in the field of Fuzzy sets, Intuitionistic fuzzy sets, Algorithms and Neural Networks.			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Bureva, V., P. Yovcheva, S. Sotirov. Generalized Net Model of Fingerprint Recognition with Intuitionistic Fuzzy Evaluations, Proceedings of the 10th Conference of the European Society for Fuzzy Logic and Technology, and the Sixteenth International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets, September 13–15, 2017, Warsaw, Poland, Volume 1, 286 - 294 2. Petkov, T.P. Jovcheva, Zh. Tomov, S. Sotirov. A generalized net model of the Neocognitron neural network, Proceedings of the International Conference on Flexible Query Answering Systems, Lecture Notes in Computer Science, Volume 10333, 2017, 249-259, 3. Petkov, T.P. Jovcheva, Zh. Tomov, S. Sotirov. A generalized net model of the Neocognitron neural network, Proceedings of the International Conference on Flexible Query Answering Systems, Lecture Notes in Computer Science, Volume 10333, 2017, 249-259. 4. Yovcheva, P., S. Sotirov, K. Atanassov. A generalized net model of the Deep learning algorithm. Proceedings of ANNA '18; Advances in Neural Networks and Applications 2018, 59 - 63. 			
Achievements in developing intellectual property			
<i>none</i>			
Current employment	Asen Zlatarov University		

Annex 3 -41

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Evdokia	Sotirova	Prof. PhD of Computer Science; Professor of Computer science	0000-0001-6178-5356
Professional experience (500 characters)			
She is an lectures of Computer systems and algorithms. She has 231 scientific publications in areas of Mathematical modelling, Fuzzy sets, Algorithms; (123 scientific publications in Scopus and H index 13). He has participated more than 20 national and international projects and is an editor in the series Advances in Intelligent Systems and Computing, Springer - 9 books			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Sotirova, E. N., Sotirov, S., Dimitrov, A., & Atanassov, K. T. (2013, January). ON SOME APPLICATIONS OF THE GAME METHOD FOR MODELLING Part 3: Simulation of oil transformation in marine environment. In <i>Proceedings of the Jangjeon Mathematical Society</i> (Vol. 16, No. 2, pp. 293-300). 2. Sotirova, E., Sotirov, S., Atanassova, L., Atanassov, K. T., Bureva, V., & Doukovska, L. (2018). Game method for modelling with intuitionistic fuzzy rules. In <i>Uncertainty and Imprecision in Decision Making and Decision Support: Cross-Fertilization, New Models and Applications: Selected Papers from BOS-2016 and IWIFSGN-2016 held on October 12-14, 2016 in Warsaw, Poland</i> (pp. 153-168). Springer International Publishing., 3. Stratiev D., Shishkova I., Dinkov R., Nenov S., Sotirov S., Sotirova E., Kolev I., Ivanov V., Ribagin S., Atanassov K., Stratiev D., Yordanov D., Nedanovski D., Prediction of petroleum viscosity from molecular weight and density, (2023) <i>Fuel</i>, 331, art. no. 125679, 4. Atanassov, K. T., & Sotirova, E. N. (2013). On some applications of the game method for modelling Part 4: Interpretations of some stochastic processes. In <i>Proceedings of the Jangjeon Mathematical Society</i> (Vol. 16, No. 3, pp. 301-310)., 5. Stamova I., Sotirov S., Sotirova E., Stamov G., Impulsive fractional Cohen-Grossberg neural networks: Almost periodicity analysis, (2021) <i>Fractal and Fractional</i>, 5 (3), art. no. 78, 			
Achievements in developing intellectual property			
none			
Current employment	Asen Zlatarov University		

Annex 3 -42

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Yordanka	Tasheva	Assoc. Prof. PhD of technology of natural and synthetic fuels; Assoc. Prof. of technology of natural and synthetic fuels	0000-0003-3638-6622
Professional experience (500 characters)			
She reads lecture by: Technology of oil and gas, Chemistry of petroleum and gas, Industrial-technological control and commodity science. She has over 100 scientific publications in areas of technology of fuels, obtaining of contemporary fuels and petroleum (over 70 scientific publications in Scopus and H index 5). She has participated and/or led over 3 national and international projects			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Tasheva Y., Is. Lazarov, Possibilities to increase the yield of light products at primary processing of oil and petroleum mixtures, <i>Petroleum&Coal</i>, 57, (6), 2015. 2. Tasheva Y., Investigation of the etherification process under model mixture, <i>Chemistry</i>, 24, (3) 2015, p. 385. 3. Tasheva Y., Study on the possibility of using modern technologies to control the efficiency of fuel consumption by truck, <i>Oxidation Communications</i>, 44, (2), 2021, p. 464 4. Dimitrova M., Is. Lazarov, Y. Tasheva, Investigations for improving the yield of middle distilled fraction through additives, <i>Oxidation Communications</i>, 45, (2), 2022, p. 334. 			
Achievements in developing intellectual property			
none			
Current employment	Assen Zlatarov University, Burgas, Bulgaria		

Annex 3 -43**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Natalia	Angelova	PhD student at the Department of Ecology and Environmental Protection	0009-0001-9907-0492
Professional experience (500 characters)			
In 2022 she joined the Department of Ecology and Environmental Protection at Assen Zlatarov University - Burgas as a PhD student. From the beginning of 2023 she started to study and develop her dissertation on "Opportunities for containment and prevention of oil and oil spills in aquatic ecosystems". She participated on her dissertation in several conferences: 22-24 March Seventh National Conference "Thinking Ecologically for the Future"; 19 April 2023 Scientific Session for Undergraduate, Graduate and Young Scientists "Natural and Technical Sciences"; 22-24 June 2023 International Conference "Ecology, Science, Economics and Technology".			
3 to 5 most important publications in the recent 10 years			
1. Natalia Angelova, Aleksandar Dimitrov, Yordanka Tasheva, 2023. Application of Potato Peels as Biosorbent, Industrial Technologies, vol. 10(1), pp. 71-75.			
Achievements in developing intellectual property			
<i>none</i>			
Current employment	Assen Zlatarov University, Burgas, Bulgaria		

Annex 3 -44

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Vania	Georgieva	Head assistant PhD of Computer Science; Professor of Computer science	
Professional experience (500 characters)			
She is an lectures of Computer systems and algorithms. She has 8 scientific publications in areas of Mathematical modelling, Fuzzy sets, Algorithms; (8 scientific publications in Scopus). He has participated more than few national and international projects.			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Georgieva V., Generalized net model of mechanical wastewater pre-treatment, (2017) International Journal Bioautomation, 21 (1), pp. 133 – 144, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016717837&partnerID=40&md5=7c8fae4ea7171d18e2162b19a0a7a074 2. Sotirov S., Sotirova E., Shannon A., Bureva V., Petkov T., Popov S., Bozov H., Tsoлова D., Georgieva V., A generalized net model of the deep learning neural network, (2018) ANNA 2018 - Advances in Neural Networks and Applications 2018, pp. 64 – 67, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85096708712&partnerID=40&md5=f665c8fde8f9928f1f383c72eebb3b96 3. Georgieva V., Angelova N., Roeва O., Pencheva T., Simulation of parallel processes in wastewater treatment plant using generalized net integrated development environment, (2016) Comptes Rendus de L'Academie Bulgare des Sciences, 69 (11), pp. 1493 – 1502, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85006860779&partnerID=40&md5=94deb45dace7dbb7077c4077e00c973b 4. Georgieva V., Yovcheva P., Sotirova E., Mersinkova Y., Generalized Net Model of Waste from Wastewater plants for Domestic Wastewater Treatment, (2022) 2022 IEEE 11th International Conference on Intelligent Systems, IS 2022, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85147679508&doi=10.1109%2fIS57118.2022.10019659&partnerID=40&md5=9d800362181f5fb3154d685dbf6ef84f 5. Yemendzhiev H., Koleva R., Nenov V., Georgieva V., Opportunity to Detect Hazardous Materials in Water Using Intercriteria Analysis, (2022) Lecture Notes in Networks and Systems, 374 LNNS, pp. 285 – 295, https://www.scopus.com/inward/record.uri?eid=2-s2.0-85127052642&doi=10.1007%2f978-3-030-96638-6_31&partnerID=40&md5=ffae0dbe62f9170b8899f56d4a068614 			
Achievements in developing intellectual property			
<i>none</i>			
Current employment	Asen Zlatarov University		

Annex 3 -45

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Kaloyan	Ivanov	Chief Professor (Assistant) PhD of Devices of automation and computing technology; Chief Prof. (Assistant) of Power convertors	0000-0002-1016-3167
Professional experience (500 characters)			
He is a lecturer of Power convertors and leads laboratory exercises on sensors and SMD assembly. He has over 15 publications In areas of Thermoelectric convertors and Sensors systems; (14 scientific publications in Scopus and H index 4). He has participated 5 national and international projects.			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> Ivanov, K., A. Aleksandrov. „Design and study of an automotive thermoelectric generator “, 12 – 14 November 2020 7-th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE) – Proceedings, IEEE, ISBN: 978-1-7281-0362-4, DOI: 10.1109/EEAE49144.2020.9279082 Ivanov, K. „Design, realization and study of thermoelectric watch “, 3 – 6 June 2020 21st International Symposium on Electrical Apparatus & Technologies (SIELA) – Proceedings, IEEE, ISBN: 978-1-7281-4346-0, DOI: 10.1109/SIELA49118.2020.9167076 Ivanov, K., I. Belovski and A. Aleksandrov, „Design, building and study of a small-size portable thermoelectric refrigerator for vaccines “, 1 – 4 July 2021 17-th International Conference on Electrical Machines, Drivers and Power Systems (ELMA 2021) – Proceedings, IEEE, ISBN: 978-1-6654-3582-6, DOI: 10.1109/ELMA52514.2021.9503057 Petkov, T., I. Belovski, K. Ivanov, A. Aleksandrov. „Modeling the parameters of a cascaded Peltier module using neural network “, 3 – 6 June 2020 21-st International Symposium on Electrical Apparatus & Technologies (SIELA) – Proceedings, IEEE, ISBN: 978-1-7281-4346-0, DOI: 10.1109/SIELA49118.2020.9167122 Ivanov, K., I. Belovski, A. Aleksandrov. „Peltier Module-Based Thermoregulator for Liquid Bidirectional Temperature Control “, 2023, 29 June – 1 July 18-th International Conference on Electrical Machines, Drives and Power Systems (ELMA) – Proceedings, IEEE, ISBN:979-8-3503-1127-3, DOI: 10.1109/ELMA58392.2023.10202481 			
Achievements in developing intellectual property			
<i>none</i>			
Current employment	Assen Zlatarov University		

Annex 3 -46

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Stanislav	Popov	Chief Asst. Prof. PhD in Computer Systems and Technologies	0000-0002-2314-9751
Professional experience (500 characters)			
At university, he teaches subjects such as Operating Systems, Software Design and Web Services. He participated as a researcher in a number of successfully completed projects such as the most significant is "Information and Communication Technologies for a Digital Single Market in Science, Education and Security". In addition to national and international projects, he also took part in the development of internal projects for the university such as "Intelligent instruments for data mining" and "Investigation of the influence of the concentration of FDP and the relative air humidity on diseases of the upper respiratory tract in children and adolescents". He participated in several "Scientific Session for Student and Young Scientist" organized at the university and won first and second prize at two of them.			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Bureva V., Sotirova E., Popov S., Mavrov D., Traneva V., Generalized net of cluster analysis process using STING: A statistical information grid approach to spatial data mining, (2017) Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 10333 LNAI, pp. 239 – 248, DOI: 10.1007/978-3-319-59692-1_21 2. Bureva V., Popov S., Traneva V., Tranev S., Generalized net model of cluster analysis using CLIQUE: Clustering in quest, (2019) International Journal Bioautomation, 23 (2), pp. 131 - 138. DOI: 10.7546/ijba.2019.23.2.000506 3. Petkov T., Titanyan A., Bureva V., Popov S., Emotion Recognition Using Convolutional Neural Network, (2023) Lecture Notes in Networks and Systems, 658 LNNS, pp. 32 – 38, DOI: 10.1007/978-3-031-31069-0_4 4. Popov S., Mitkova M., Surchev S., Petkov T., Todorov M., Sotirova E., Sotirov S., Bozov H., Minkov M., Tankov I., Virtual reality as educational technology, (2019) 29th Annual Conference of the European Association for Education in Electrical and Information Engineering, EAEEIE 2019 - Proceedings, art. no. 9000438, DOI: 10.1109/EAEEIE46886.2019.9000438 5. Bureva V., Popov S., Sotirova E., Atanassov K.T., Generalized net of mapreduce computational model, (2018) Advances in Intelligent Systems and Computing, 559, pp. 305 - 315., DOI: 10.1007/978-3-319-65545-1_28 			
Achievements in developing intellectual property			
none			
Current employment	Assen Zlatarov University - Burgas		

Nikola Vaptsarov Naval Academy, Varna, Bulgaria

Annex 3 -47**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Yordan	Sivkov	Professor	https://orcid.org/0000-0002-9882-5291
Professional experience (500 characters)			
<ul style="list-style-type: none"> - Building information systems - Developing Internet of Things (IoT) systems - Service and maintenance of monitoring and control systems - Creating models and architecture for data collection and processing systems - Implementing intelligent systems using artificial intelligence - Introduction and development of smart technologies - Researching marine environment parameters in relation to the assessment of human impact - ICT system architect - Real-time data analysis system integrator 			
3 to 5 most important publications in the recent 10 years			
<p>C. Alexandrov, N. Kolev, Y. Sivkov, A. Hristov and M. Tsvetkov, "Oil Spills Detection on Sea Surface by using Sentinel-1 SAR Images," <i>2020 21st International Symposium on Electrical Apparatus & Technologies (SIELA)</i>, Bourgas, Bulgaria, 2020, pp. 1-4, doi: 10.1109/SIELA49118.2020.9167148.</p> <p>Y. Tsankov, V. Atanasov and Y. Sivkov, "Analyzing Possible Network Solutions for IoT Communication Protocols and their Applications in Smart Farming," <i>2022 22nd International Symposium on Electrical Apparatus and Technologies (SIELA)</i>, Bourgas, Bulgaria, 2022, pp. 1-3, doi: 10.1109/SIELA54794.2022.9845740.</p> <p>Y. Sivkov, "Transformation of NMEA ship network from sensor-based to information-based model," <i>2018 20th International Symposium on Electrical Apparatus and Technologies (SIELA)</i>, Bourgas, Bulgaria, 2018, pp. 1-4, doi: 10.1109/SIELA.2018.8446659.</p> <p>V. Atanasov and Y. Sivkov, "Data Fusion for IoMT in Shipping," <i>2020 21st International Symposium on Electrical Apparatus & Technologies (SIELA)</i>, Bourgas, Bulgaria, 2020, pp. 1-6, doi: 10.1109/SIELA49118.2020.9167126.</p> <p>Y. SIVKOV, "Information System for Collection, Processing and Presentation of Data from Sensor Nodes," <i>2019 16th Conference on Electrical Machines, Drives and Power Systems (ELMA)</i>, Varna, Bulgaria, 2019, pp. 1-4, doi: 10.1109/ELMA.2019.8771493.</p>			
Achievements in developing intellectual property			
Current employment	Nikola Vaptsarov Naval Academy		

Annex 3 -48**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Miroslav	Tsvetkov	Proffesor	https://orcid.org/0000-0001-7500-6501
Professional experience (500 characters)			
<ul style="list-style-type: none"> - Project management and management - Processing of satellite and drone information - Working with GIS systems - Integration of systems and elements in order to automate processes - Environmental research - Construction of object positioning systems - Creation of models, simulations, digital counterparts of elements and systems of the coastal zone and marine water area - Creation of information arrays and extraction of information for the provision and as a service - Effective communication of complex concepts - Assessment of potential risks in projects and development of strategies to minimize these risks, as well as effective decision-making under conditions of uncertainty - Integrating the principles of sustainable development and environmental planning into environmental research projects and systems development. 			
3 to 5 most important publications in the recent 10 years			
<p>M. Tsvetkov and C. Alexandrov, "Software simulator of marine monitoring platform," <i>2016 19th International Symposium on Electrical Apparatus and Technologies (SIELA)</i>, Bourgas, Bulgaria, 2016, pp. 1-4, doi: 10.1109/SIELA.2016.7543057.</p> <p>M. Tsvetkov, "Port aquatories, coastal zone and sea bottom plastic waste monitoring using underwater drones data processing", <i>2023 Proceedings of SPIE - The International Society for Optical Engineering</i>, Volume 12728.</p> <p>M. Tsvetkov, "Satellite and drone multi-spectral and thermal images data fusion for intelligent agriculture monitoring and decision making support", <i>2023 Proceedings of SPIE - The International Society for Optical Engineering</i>, Volume 12728.</p>			
Achievements in developing intellectual property			
Current employment	Nikola Vaptsarov Naval Academy		

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to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Chavdar	Alexandrov	Professor	https://orcid.org/0000-0001-6910-2521
Professional experience (500 characters)			
<ul style="list-style-type: none"> - Researcher and supervisor in over 20 scientific projects - Construction, introduction and evaluation of information and communication systems - Research and design of control systems - Processing of data from different sources - Integration of sustainable solutions using artificial intelligence - Team management and project manager - Design, construction and maintenance of systems for monitoring, collecting and processing data in marine and coastal environments - Analysis of complex systems - Teaching experience 			
3 to 5 most important publications in the recent 10 years			
<p>SOTIROV, S. and ALEXANDROV, C., 2017. Improving AIS data reliability. In: 18th Annual General Assembly of the International Association of Maritime Universities - Global Perspectives in MET: Towards Sustainable, Green and Integrated Maritime Transport, IAMU 2017. [s.l.]: [s.n.], pp. 237-244. ISBN 978-954899196-4.</p> <p>C. ALEXANDROV, M. TSVETKOV, N. KOLEV, Y. SIVKOV and A. HRISTOV, "Sentinel – 1 SAR Image Processing for Target Detection and Evaluation by using Bulgarian VTMISS," 2019 16th Conference on Electrical Machines, Drives and Power Systems (ELMA), Varna, Bulgaria, 2019, pp. 1-6, doi: 10.1109/ELMA.2019.8771549.</p> <p>DIMITROV, Dimo, MINCHEV, Chavdar and ALEXANDROV, Chavdar, 2017. Organization and integration of Bulgarian maritime national observation and surveillance systems. In: 18th Annual General Assembly of the International Association of Maritime Universities - Global Perspectives in MET: Towards Sustainable, Green and Integrated Maritime Transport, IAMU 2017. Vol. 1, pp. 309-318.</p> <p>PETROVA, M., ALEXANDROV, C., KISYOV, M., 2021. Experimental study of communication channel by exchanging hydro-meteorological data. In: Proceedings of the International Conference on Biomedical Innovations and Applications, BIA 2021. pp. 89-94.</p>			
Achievements in developing intellectual property			
Current employment		Nikola Vaptsarov Naval Academy	

Annex 3 -50**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Nikolay	Bedzhev	Assistant professor	
Professional experience (500 characters)			
x-Master Mariner, active Marine Pilot in port of Varna, PhD Ship's Theory, MSc Electrical supply and equipment, MSc Marine Navigation and Lecturer in Ship's Theory in Naval Academy Vaptsarov - Varna, experience in working with Dynamic Simulations, Marine Simulations, Data Driven models, Artificial Intelligence, Statistic and probabilistic models. Python, C# and Unity developer. Owner and creator of first certified Bridge Simulator in Virtual reality worldwide.			
3 to 5 most important publications in the recent 10 years			
<p>Nikolay Bedjev and Ivan Popov. "Using simulation techniques to assess the influence of wind when performing port maneuvers". 2016, MARINE SCIENCE FORUM. Volume 1., Varna 2016. pp. 87-93. ISSN: 1310-9278.</p> <p>Nikolay Bedjev and Ivan Popov. "Investigation of a marine accident with a simulation mathematical model". 2016, MARINE SCIENCE FORUM. Volume 1. Varna 2016. pp. 94-101. ISSN: 1310-9278.</p> <p>Doctoral Dissertation "Assessment of the effectiveness of the conditions for safe berthing or unloading of vessels in the port of Varna", June 2016</p>			
Achievements in developing intellectual property			
<i>DNV certified Virtual Reality Bridge Simulator</i>			
Current employment	Nikola Vaptsarov Naval Academy		

Annex 3 -51**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Yordan	Tsankov	Assistant professor	
Professional experience (500 characters)			
<ul style="list-style-type: none"> - Building software products - Creating software product architecture - Building simulation systems - Software provisioning of digital twins - Processing of data from different sources - Integration of sustainable solutions using artificial intelligence 			
3 to 5 most important publications in the recent 10 years			
Y. Tsankov, V. Atanasov and Y. Sivkov, "Analyzing Possible Network Solutions for IoT Communication Protocols and their Applications in Smart Farming," <i>2022 22nd International Symposium on Electrical Apparatus and Technologies (SIELA)</i> , Bourgas, Bulgaria, 2022, pp. 1-3, doi: 10.1109/SIELA54794.2022.9845740.			
Achievements in developing intellectual property			
<i>DNV certified Virtual Reality Bridge Simulator</i>			
Current employment	Nikola Vaptsarov Naval Academy		

Annex 3 -52

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Delyan	Hristov	Associate professor	https://orcid.org/0000-0002-9873-5720
Professional experience (500 characters)			
<ul style="list-style-type: none"> - Over 10 years sailing experience on ships - Chief engineer of a merchant ship - Green energy researcher - improving marine engines to reduce the carbon footprint - analysis of blue transition systems - creating strategies to reduce the carbon footprint - certified simulator instructor - 5 years experience with simulation complex - Simulator architecture development 			
3 to 5 most important publications in the recent 10 years			
<p>Hristov, D., Vasilev, D., Kurtev, Iliyan Two Stroke Dual Fuel Engine Performance Analysis on Liquid and Gas Fuel Mode Related to the New Training Demands for Marine Engineers, Pedagogika - Pedagogy, v. 95, s. 6s/2023, year XCV, ISSN 1314–8540 (Online) ISSN 0861–3982 (Print) c. 12-20</p> <p>Hristov, D. Methane number influence on the dual fuel four stroke marine engine performance at high load range, XXX International scientific conference trans & MOTAUTO '22. Proceedings Year V, USSUE 1 (9), SOFIA, BULGARIA 2022, pp (144-146), 20-23.06.2022 VARNA, BULGARIA, Scientific-technical union of mechanical engineering „Industry-4.0”, ISSN 1313-5031, (Print), ISSN 2535-0307 (Online)</p> <p>Hristov, D., Ivanov, I., Popov, D. EGR OPERATION INFLUENCE ON THE MARINE ENGINE EFFICIENCY, Pedagogika-Pedagogy Volume 93, Number 6s/2021 ISSN 1314–8540 (Online) ISSN 0861–3982 (Print) p.167-174 International Maritime Scientific Conference 2021</p>			
Achievements in developing intellectual property			
Current employment	Nikola Vaptsarov Naval Academy		

Annex 3 -53**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Kalin	Kalinov	Professor	https://orcid.org/0000-0002-9705-638X
Professional experience (500 characters)			
<ul style="list-style-type: none"> - Analysis of complex systems and inter-system connections - Team leadership - Project management - Decomposing complex tasks and construction - Building network architectures of systems - Investigating the parameters of the coastal environment and maritime space in the interest of ecology - Improving system resilience - Simulator architecture development 			
3 to 5 most important publications in the recent 10 years			
<p>Kalinov, Kalin, and Nikola Stoyanov. "Aspects of Human Systems Behaviour and Their Impact on Port Security Architecture." <i>Human Systems Integration to Enhance Maritime Domain Awareness for Port/Harbour Security</i>. IOS Press, 2010. 69-77.</p> <p>Bakalov, Ivaylo, Siyana Lutzkanova, and Kalin Kalinov. "Applying the augmented reality concept in maritime engineering personnel training." <i>Scientific Bulletin "Mircea cel Batran" Naval Academy</i> 21.1 (2018): 1-5.</p> <p>Kalinov, Kalin, Miroslav Tsvetkov, and Ivaylo Bakalov. "USING ENGINE ROOM SIMULATORS FOR TRAINING AND EXERCISES IN FIGHTING FIRES FOR MARINE TRAINING COMMAND STAFF IN THE VIRTUAL VESSEL TYPE FREGAT." <i>of the 13 th International Conference on Engine Room Simulators</i>. 2017.</p>			
Achievements in developing intellectual property			
Current employment	Nikola Vaptsarov Naval Academy		

Annex 3 -54

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Veselin	Atanasov	Assistant Professor	https://orcid.org/0000-0003-2774-6016
Professional experience (500 characters)			
<ul style="list-style-type: none"> - Building information and communication systems - Testing communication nodes - Building Internet of Things (IoT) systems - Developing and integrating artificial intelligence elements - Utilizing artificial intelligence in smart technological solutions - Integrating systems and creating inter-system interfaces 			
3 to 5 most important publications in the recent 10 years			
<p>Y. Tsankov, V. Atanasov and Y. Sivkov, "Analyzing Possible Network Solutions for IoT Communication Protocols and their Applications in Smart Farming," <i>2022 22nd International Symposium on Electrical Apparatus and Technologies (SIELA)</i>, Bourgas, Bulgaria, 2022, pp. 1-3, doi: 10.1109/SIELA54794.2022.9845740.</p> <p>ATANASOV, Veselin. Application of Convolutional Neural Networks and Signal Processing Techniques to Identify and Filter Noise from ECG Signals. In: 2023 18th Conference on Electrical Machines, Drives and Power Systems (ELMA 2023) [online]. Varna: Institute of Electrical and Electronics Engineers Inc., 2023, pp. 1-5. ISBN 979-835031127-3. doi:10.1109/ELMA58392.2023.10202451</p> <p>V. Atanasov and Y. Sivkov, "Data Fusion for IoMT in Shipping," <i>2020 21st International Symposium on Electrical Apparatus & Technologies (SIELA)</i>, Bourgas, Bulgaria, 2020, pp. 1-6, doi: 10.1109/SIELA49118.2020.9167126.</p>			
Achievements in developing intellectual property			
Current employment	Nikola Vaptsarov Naval Academy		

Annex 3 -55

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Yulian	Minchev	Associate Professor	
Professional experience (500 characters)			
<ul style="list-style-type: none"> - academic experience - complex systems research - simulation analysis of systems - preparation of project documentation - Simulator architecture development 			
3 to 5 most important publications in the recent 10 years			
Velkova, Cv., Minchev, J. Minchev, I., Hristov, D. An Investigation of Mode of Vibrations on An Axial Centrifugal-Compressor Wheel depending on its aerodynamic loading, In: First International Marine Engineering Conference, 21-23 November 2018 at the Engineering Faculty Nikola Vaptsarov Naval Academy. Varna: NVNA, 2018, pp. 44-53. ISBN 978-619-7428-31-5.			
Achievements in developing intellectual property			
Current employment	Nikola Vaptsarov Naval Academy		

University of Ruse, " Angel Kanchev"

Annex 3 -56
to the Development and sustainability programme with a business plan
Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Hristo	Beloev	professor, academician of BAS	0000-0001-7147-3890
Professional experience (500 characters)			
<p>2015 – 2019, December 2023 – and now Chairperson of the Municipal Council - Ruse Manage the activities of the Municipal Council January 2016 – January 2018, December 2023 – and now Chairperson of the Assembly General of the University of Ruse Manage the activities of the Assembly General of the University of Ruse 2007 – 2015, 2018 – 2023 Rector, Manage the activities of the University of Ruse Areas of professional interest: design of agricultural machinery; combined work organs and agricultural machines; studying and testing agricultural machinery; erosion and soil-conserving technologies; sustainable agriculture, transport, energy efficiency and ecology; higher education. Over 450 scientific publications, 35 monographs, 40 innovations and patents, 25 textbooks and study materials. Over 1000 citations and referred scientific articles and publications; Developed 30 syllabi and curricula; Over 500 publications in scientific-popular journals, newspapers and electronic media / in the last five years/. Scientific supervisor of 38 doctoral and 36 post-doctoral students; Scientific supervisor of over 270 undergraduate senior students; During the last five years were reviewed more than 100 PhD thesis, scientific papers, habilitation works, diploma works of bachelor and master degree students in the field of agricultural mechanization, biological and soil-preserving agriculture and transport. Scientific editor of more than 100 scientific proceedings and other publications /in the last five years/.</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Dimitrov, P., Beloev, H., Kangalov, P., Stoyanov K., Delikostov, T., Enchev, E. Soil-protecting Systems for Tillage and Mulching in Agricultural Land in Bulgaria.// Journal of Mountain Agriculture on the Balkans, 2024, No 27 (3), pp. 458–490, ISBN 1311–0489, ISSN 2367-8364 2. Beloev, H., Dimitrov, P., Kangalov, P., Stoyanov, K., Delikostov, T., Enchev, E. Comparative Energy-Performance Studies of Machine-tractor Aggregates for Vertical Mulching by Introducing Organic Matter into The Soil.// Journal of Mountain Agriculture on the Balkans, 2024, No Vol. 27 (3), pp. 418–444, ISSN 2367-8364 3. Kuncheva G., H. Beloev , P. Dimitrov, A. Atanasov, V. Kolchakov, G. Ginchev, E. Enchev. Economic efficiency of conservation practices involving a pre-crop in a wheat-maize rotation grown on sloping terrain.// Bulgarian Journal of Soil Science Agrochemistry and Ecology, 2024, No 58, 2, pp. 37-45, ISBN 0861-9425, ISSN 2534-9864 4. Iliev I, A Filimonova, A Vlasova, R Kamaliev, H Beloev. Desulfurization Technology for Industrial Fuel Gases Using Natural Adsorption Materials.// Engineering Proceedings, 2024, No 70 (42), pp. 1-8, ISSN 2673-4591 5. Koldassova, G., A. Dostiyarov, A. Amrenova, I. Iliev, H. Beloev. Utilization of landfill gas from municipal solid waste by co-combustion with hydrogen.// E3S Web of Conferences, 2024, No 551, pp. 1-6, ISSN 2267-1242 (SJRank: 0.182 /2023, JCR) https://publications.uni-ruse.bg/publications/hbeloev 			
Achievements in developing intellectual property			
<ol style="list-style-type: none"> 1. Beloev H.I., P.T. Radulov, A.I. Atanasov, P.D. Dimitrov, K.E. Stoyanov, S.E. Ivanov, I.A. Tsonev. Method and device for introducing organic matter into the soil, Patent for invention, No. 66773 B1,2018. 2. Hristo Ivanov Beloev Petar Todorov Radulov Angel Iliev Atanasov Petar Dimitrov Dimitrov Kaloyan Evgeniev Stoyanov Strahil Enchev Ivanov Ivaylo Anastasov Tsonev. METHOD AND DEVICE FOR INTRODUCING ORGANIC SUBSTANCE INTO THE SOIL, Patent, No. BG 66773 B1,2018. 3. Beloev H.I., P.T. Radulov, A.I. Atanasov, P.D. Dimitrov, K.E. Stoyanov. Composting device., Patent for invention, No. 66579,2017. 4. Bulgakov Volodomir, Beloev Hristo, Borisov Boris et al. Device for transporting and cleaning root crops, Patent of VINAHID, Ukraine, No. 112687,2016. 5. Bulgakov Volodomir, Beloev Hristo, Borisov Boris et al. Device for transporting and cleaning root crops, Patent of VINAHID, Ukraine, No. 112686,2016. 6. Hristo Beloev, Petar Radulov, Angel Atanasov, Petar Dimitrov, Kaloyan Stoyanov, Strahil Enchev, Ivaylo Tsonev. Method and device for introducing organic matter into the soil., Patent, No. 66773 B1,2015. 			
Current employment	professor in University of Ruse, Ruse " Angel Kanchev", academician of Bulgarian Academy of Science		

Annex 3-57

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Nataliya	Venelinova	Associated professor	0000-0002-7580-5263
Professional experience (500 characters)			
<p>2024 – and now Associated professor in Business and Public Communications Management Lecturer in disciplines in the field of general communication theory, communication skills and PR, communication policy, project development, security projects, crisis communications management in emergency situations, public relations management, business negotiations, public procurement planning for project management, anti-discriminatory and anti-oppressive practices, multidisciplinary case work. " Angel Kanchev" University of Ruse, Ruse, 7017, 8 "Studentska" St. January 2014 - ongoing Coordinator European programs and projects of University of Ruse “Angel Kanchev” ., " Angel Kanchev" University of Ruse, Ruse, 7017, 8 "Studentska" St. advises, coordinates and supports the process of preparation of project proposals of University of Ruse" A.Kanchev "; participates or organizes intra -university project management trainings for university teams; training of PhD students in Project Management. 2019 – ongoing Chief assistant professor at the department Management of emergency situations on Faculty Command and staff at National Defence College “G.S. Rakovski” , Military Academy "G. S. Rakovski", Evlogi Georgiev Blvd. 82, 1124 Oborishte, Sofia, Bulgaria. Lecturer by disciplines related to: management of emergency situations, management of projects for security and defence, protection on the critical one infrastructure, military crisis management communication, national security regulation, national defense strategies and institutions, European civil protection practices, unmanned flying systems for emergency and safety etc.,</p>			
3 to 5 most important publications in the recent 10 years			
<p>Venelinova, N., Beloeva, S.,. DIGITAL DISCRIMINATION RISKS IN THE TRANSFORMATION OF HIGHER EDUCATION.// Strategies for Policy in Science and Education, 2024, No Volume 32, pp. 98-108, ISSN 1314–8575 (Impact factor: 0.4 /2023, Web of Science: Emerging Sources Citation Index) Beloeva, S., Venelinova, N.,. Conceptual model of training in remote virtual supervision in social work.// „Стратегии на образователната и научната политика“, 2024, No 5s, pp. 64-76, ISSN 1314–8575 (Impact factor: 0.4 /2023, Web of Science: Emerging Sources Citation Index) Dorokhova, L., Beloeva, S., Venelinova, N., Dorokhov, O. Consumer service modelling: the study of buyer’s queues in pharmacies.// Access to science, business, innovation in digital economy, 2024, No 5, pp. 511-525, ISSN 2683-1007 (online) (Impact factor: 0.8 /2023, https://journal.access-bg.org/issue-5-3-2024/consumer_service_modeling-the_study_of_buyers_queues_in_pharmacies) Venelinova, N., Ivanova, B., Shoylekova, K., Rusev, R. Practical Aspects of Integrating Virtual and Augmented Reality Technologies in Higher Education.// 47th MIPRO ICT and Electronics Convention (MIPRO), 2024, No , pp. 595-600, ISBN 979-835038249-5</p>			
Achievements in developing intellectual property			
Current employment	Associated professor at the department Management and social activities of Faculty of Business and Management and Coordinator European programs and projects of University of Ruse “Angel Kanchev” .		

Annex 3 -58
to the Development and sustainability programme with a business plan
Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
TEODOR	ILIEV	Professor Dr.	https://orcid.org/0000-0003-2214-8092
Professional experience (500 characters):			
<p>Teodor Iliev (Member, IEEE) received the M.Sc. and Ph.D. degrees in telecommunication engineering from the University of Ruse “Angel Kanchev,” Ruse, Bulgaria, in 1999 and 2007, respectively. He is currently a Full Professor with the Department of Telecommunication, University of Ruse “Angel Kanchev.” He has authored or coauthored more than 120 papers in refereed academic journals and international conferences in the areas of telecommunications, electronics, and energy. He is serving as the Conference Chair for the International Scientific Conference on Communications, Information, Electronic and Energy Systems—CIEES (https://ciees.eu/) and the International Conference on Electronics, Engineering Physics and Earth Science—EEPES (https://eepes.eu/) and the Editor-in-Chief of The Journal of CIEES (https://journal.ciees.eu/).</p>			
3 to 5 most important publications in the recent 10 years			
<p>M. Ozkan-Okay et al., "A Comprehensive Survey: Evaluating the Efficiency of Artificial Intelligence and Machine Learning Techniques on Cyber Security Solutions," in IEEE Access, vol. 12, pp. 12229-12256, 2024, doi: 10.1109/ACCESS.2024.3355547.</p> <p>Ozkan-Okay, M.; Samet, R.; Aslan, Ö.; Kosunalp, S.; Iliev, T.; Stoyanov, I. A Novel Feature Selection Approach to Classify Intrusion Attacks in Network Communications. Appl. Sci. 2023, 13, 11067. https://doi.org/10.3390/app131911067</p> <p>Filjar, R.; Heđi, I.; Prpić-Oršić, J.; Iliev, T. An Ambient Adaptive Global Navigation Satellite System Total Electron Content Predictive Model for Short-Term Rapid Geomagnetic Storm Events. Remote Sens. 2024, 16, 3051. https://doi.org/10.3390/rs16163051</p> <p>Korkmaz, A.; Agdas, M.T.; Kosunalp, S.; Iliev, T.; Stoyanov, I. Detection of Threats to Farm Animals Using Deep Learning Models: A Comparative Study. Appl. Sci. 2024, 14, 6098. https://doi.org/10.3390/app14146098</p> <p>Korkmaz, A.; Bulut, S.; Talan, T.; Kosunalp, S.; Iliev, T. Enhancing Firewall Packet Classification through Artificial Neural Networks and Synthetic Minority Over-Sampling Technique: An Innovative Approach with Evaluative Comparison. Appl. Sci. 2024, 14, 7426. https://doi.org/10.3390/app14167426</p>			
Achievements in developing intellectual proper			
<p>Patent № 7392/05.07.2022 “Leverage system of wind generator blades control at high wind speeds”, Fazylova Alina Rinatovna (KZ), Iliev Teodor Bozhidarov (BG)</p> <p>Patent №8506/15.06.2023 “Hazardous facility identification system for positioning excavation and construction machinery”, Golubeva Tatyana Viktorovna (KZ), Iliev Teodor Bozhidarov (BG), Tailakov Viktor Alexandrovich (KZ), Fazylova Alina Rinatovna (KZ)</p> <p>Patent № 8528/ 13.10.2023 “System of mechatronic control of wind turbine blades”, Tultayev Baurzhan (KZ), Kobdikova Shamsigul Madeniyetovna (KZ), Stoyanov Ivaylo Stefanov (BG), Iliev Teodor Bozhidarov (BG), Fazylova Alina Rinatovna (KZ), Yestemessova Gulsara Dautkhanovna (KZ)</p>			
Current employment	University of Ruse “Angel Kanchev”		

Annex 3 -59**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Gencho	Popov	Professor	0009-0000-1133-459X
Professional experience (500 characters)			
<p>09.2024 – ongoing Rector, "Angel Kanchev" University of Ruse, Ruse, 7017, 8 "Studentska" St. Manage all the activities in the university.</p> <p>01.2024 – 09.2024 Vice rector in Education Manage and coordinate the educational work of the University. "Angel Kanchev" University of Ruse, Ruse, 7017, 8 "Studentska" St.</p> <p>2014 – ongoing Professor in Hydraulic and pneumatic machines and equipment, "Angel Kanchev" University of Ruse, Ruse, 7017, 8 "Studentska" St. Teaching in Hydraulic and Pneumatic Machines and Equipment, Fluid Mechanics, Hydraulic Drive Systems.</p> <p>2016-2023 Dean of the Agricultural and Industrial Faculty of the University, "Angel Kanchev" University of Ruse, Ruse, 7017, 8 "Studentska" St., Department of Transport. Manage and organize the activities in the faculty</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. B. Kostov, M. Debabeche, K. Klimentov, G. Popov, A. Ouamane. ENERGY EFFICIENCY FACTORS HAVING SIGNIFICANT IMPACT ON THE PROPER SELECTION OF A PUMP UNIT USED IN FLUID TRANSPORTATION SYSTEMS.// Механика на машините / Mechanics of Machines, 2024, No 131, pp. 28-33, ISSN 0861-9727 2. Popov G., K. Klimentov, B. Kostov, I. Ivanov. Assessing the energy efficiency of irrigation pump systems.// AGRICULTURAL SCIENCE AND TECHNOLOGY, 2023, No vol15,N3, pp. 36-45, ISSN 1314-412X 3. K. Klimentov, G. Popov, B. Kostov, L. Kamenov. Methods for increasing the energy efficiency of fan systems using wide-angle plane diffusers with splitter vanes.// IOP Conference Series: Materials Science and Engineering, 2023, No 1290, pp. 1-9, ISSN 1757-899X 4. Попов Г., к. Климентов, Б. Костов, Л. Каменов. ВЛИЯНИЕ НА ВИДА НА ВЕНТИЛАТОРА ВЪРХУ ЕНЕРГИЙНАТА ЕФЕКТИВНОСТ НА СИСТЕМАТА ПРИ РАБОТА С ДИФУЗОР НА ИЗХОДА.// Механика на машините / Mechanics of Machines, 2023, брой 130, стр. 3-9, ISSN 0861-9727 5. Popov G., K. Klimentov, B. Kostov, L. Kamenov. Methods Used to Increase the Energy Efficiency of Ventilation Systems.// Механика на машините / Mechanics of Machines, 2023, No 129, pp. 99-104, ISSN 0861-9727 			
Achievements in developing intellectual property			
Internal gear hydraulic machine, Patent 66143, 2011			
Current employment	Professor and Rector in University of Ruse, Ruse "Angel Kanchev"		

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Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Ivan	Beloev	Assoc. profesor	0000-0003-2014-1970
Professional experience (500 characters)			
<p>2021 – and now Head of Department of Transport, "Angel Kanchev" University of Ruse, Ruse, 7017, 8 "Studentska" St. Head of the Department of Transport ; Participating in workshops, scientific conferences, etc.; Administrative and teaching activities.</p> <p>2018 – and now Assoc. profesor in the Department of Transport, "Angel Kanchev" University of Ruse, Ruse, 7017, 8 "Studentska" St. Preparation of publications, textbooks, reviews, reports, opinions; Research work in the field of transport organization and management technologies, logistics, ecological transport, hybrid electric and hydrogen vehicles; Participation in national and international projects; Participation in seminars and conferences; Participation in the activities of the department, faculty and university; Work with students and preparation of teams for participation in international competitions - Schell eco-marathon . Annual participation in teacher exchanges under the Erasmus+ program.</p> <p>2016 – 2018 Chief Assistant "Angel Kanchev" University of Ruse, Ruse, 7017, 8 "Studentska" St. , Department of Transport. Conducting lectures and exercises with students ; Preparation of publications, textbooks, reviews, reports, opinions ; Research work in the field of technology, organization and management of transport and logistics ; Participation in national and international projects; Participation in seminars and conferences; Participation in the activities of the department, faculty and university; Work with youth and teaching teams, etc.</p> <p>2014 - 2015 Assistant "Angel Kanchev" University of Ruse, Ruse, 7017, 8 "Studentska" St. , Department of Transport. Teaching activity in the field of transport organization and management, ecological transport, etc.;</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Beloev, I.H. A review on current and emerging application possibilities for unmanned aerial vehicles <i>Acta Technologica Agriculturae</i>, 2016, 19(3), pp. 70–76 2. Evstatiev, B Gabrovska-Evstatieva, K. Beloev, I. Voynohovska, V. <ol style="list-style-type: none"> a. Web-based environment for virtual laboratories in the field of electrical engineering 2019 16th Conference on Electrical Machines, Drives and Power Systems, ELMA 2019 - Proceedings, 2019, 8771477 3. Beloev, I., Kinaneva, D., Georgiev, G., Hristov, G., Zahariev, P. Artificial intelligence-driven autonomous robot for precision agriculture <i>Acta Technologica Agriculturae</i>, 2021, 24(1), pp. 48–54 - http://publications.uni-ruse.bg/index.php?cmd=browsePapersGuest&pid=lbeloev 			
Achievements in developing intellectual property			
<ol style="list-style-type: none"> 1. Mitev K., S. Shishkov, L. Bogdanov, S. Govedarov, D. Todorov, A. Khinkov, E. Yankov, L. Parushev, M. Krastev, Y. Doichinov, V. Pencheva, B. Evstatiev, I. Beloev, A. Asenov. Face mask filter against pathogens and viruses, No 67535 B1, 2023. 2. Bulgakov V., Adamchuk V., Zaryshnyak A., Golovach I., Kuvachov V., Beloev I., Krochko V., Findura P., Korenko M. Selkogospodarsky complex 3 bridge unit , No. 126064, 2022. 3. Mitev K., S. Shishkov, L. Bogdanov, S. Govedarov, D. Todorov, A. Khinkov, E. Yankov, L. Parushev, M. Krastev, Y. Doichinov, V. Pencheva, B. Evstatiev, I. Beloev, A. Asenov. Filter on a mask for face vs pathogens and viruses, No. 3922, 2020. 4. V. Bulgakov, V. Adamchuk, A. Zaryshnyak, I. Golovach, V. Kuvachev, I. Beloev, V. Krochko, P. Findura, M. Korenko. Transport energetic means, , No. 120299, 2019. 5. V. Bulgakov, V. Adamchuk, A. Zaryshnyak, I. Golovach, V. Kuvachev, I. Beloev, V. Krochko, P. Findura, M. Korenko. Transport energetic means, , No. 120388, 2019. 6. V. Bulgakov, V. Adamchuk, A. Zaryshnyak, I. Golovach, I. Beloev, V. Krochko, P. Findura, M. Korenko. Instrument for laying constantly technologically No. 119393, 2019. 7. V. Bulgakov, V. Adamchuk, A. Zaryshnyak, I. Golovach, I. Beloev, V. Krochko, P. Findura, M. Korenko. Instrument for laying constantly technologically No. 119394, 2019. 			
Current employment		LECTOR University of Ruse, Ruse " Angel Kanchev"	

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Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Dimitar	Grozev	Assoc. Profesor/Transport	0000-0001-8105-3208
Professional experience (500 characters)			
<p>Since 2021, I have been an associate professor and teacher at the "Angel Kanche" University of Rousse, Department of Transport, specializing in Service Organization, Technical Operation of Transport, International Transport, Commercial Operation of Transport. I conduct lectures and exercises with the trainees. I prepare publications, textbooks, reviews, reports, opinions. From 2016 - 2021, I am the main assistant at Ruse University "Angel Kanchev". From 2015 - 2016, I was an assistant at the "Angel Kanchev" University of Ruse, Department of "Transport"</p> <p>From 2009 - 2014 I was the head of transport at the company "Lignum Holding" Germany. From 2007 - 2009 I was the head of transport at "Svilosa Svishtov".</p> <p>From 2009 - 2014, I was a doctoral student at the University of Rousse "Angel Kanchev", from 2002 - 2008 I graduated from the University of Rousse "Angel Kanchev" with a degree in law. From 1989 - 1994, I graduated with a degree in "Mechanical Engineering Technology" at the "Angel Kanchev" University of Ruse.</p> <p>I have been in charge of students majoring in Technology and Transport Management.</p> <p>I have led teams in the field of transport and logistics.</p>			
3 to 5 most important publications in the recent 10 years			
<p>Grozev, D., M. Milchev, I. Georgiev, Analysis of the load on the taxi system in a medium-sized city, IOP Conference Series: Materials Science and Engineering, 2019, 664(1), 012035</p> <p>Grozev, D., V. Pencheva, I. Georgiev, I. Beloev, Investigation of the operation mode at Ruse-Danube Bridge border checkpoint considered to be a mass service system with incoming flow of automobiles at a non-stationary mode of operation, MATEC Web of Conferences, 2018, 234, 06003</p> <p>Pencheva, V. A. Asenov, D. Grozev, R. Angelova, I. Georgiev, Analysis of the traffic intensity of cargo vehicles in the border points, Transport Problems, 2018, 13(4), pp. 23–36</p>			
Achievements in developing intellectual property			
<p>I have professional competence as a transport manager since 2011.</p> <p>Professional qualification - Auto technical expertise, "Angel Kanchev" University of Ruse.</p> <p>Participation in project No. BG051PO001-3.3.04/28, "Support for the development of scientific personnel in the field of engineering research and innovation". The project is implemented with the financial support of the Operational Program "Development of Human Resources" 2007-2013, co-financed by the European Social Fund of the European Union".</p> <p>Participation in the "EIE-07-119 GREEN POST" project, supported and financed by the "Intelligent Energy for Europe" program, which is an official partner in the renewable energy company in Europe.</p> <p>Participation in international conference MVK`10. Nitra, Slovakia, 2010 with a report on the topic: "Influence of the changing economic situation on the state of taxi transport in the city of Ruse".</p> <p>Participation in an international conference in Yalta, Ukraine 2011. to the Ukrainian National University, with a report on the topic: "Taxi car movement model at the customer's request".</p> <p>Participation in an international conference in Puerto De la Cruz, Tenerife, Spain 2011. with a report on the topic: "Analysis of the operational conditions for the operation of taxi cars in urban conditions and determination of the technical parameters for electric cars".</p>			
Current employment		Lector at the University of Ruse "Angel Kanchev"	

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Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Toncho	Balbuzanov	Chief assistant professor - 5.5. Transport, Navigation and Aviation	0009-0008-7261-2299
Professional experience (500 characters)			
<p>Work experience</p> <p>2017 - Chief Assistant professor, PHD - University of Rouse "Angel Kanchev" Conducting practical and seminar exercises. Management of graduate students, preparation and delivery of scientific reports. Participation in projects.</p> <p>Higher education</p> <p>2016 – 2017 - Assistant professor, PHD - University of Rouse "Angel Kanchev" Higher education</p> <p>Education</p> <p>2010 – 2014 - 5.5. Transport, Navigation and Aviation PHD - University of Rouse "Angel Kanchev" 2005 – 2006 - Master's degree - University of Rouse "Angel Kanchev" 2000 – 2004 – Bachelor - University of Rouse "Angel Kanchev" 1993 – 1997 - Secondary education - Technical School of Mechanical Engineering, Ruse</p> <p>My professional experience is related to research and teaching activities in the direction 5.5 "Transport, shipping and aviation", on which I conduct various researches and prepare lecture materials for students, in the disciplines "Transport infrastructure", "Transport ecology" and others.</p> <p>My work commitments in a university environment helped to develop my teamwork skills. My participation in various research teams has improved my ability to plan step by step when working on set goals. As a project manager, I gained experience in prioritizing my work tasks while improving my organizational skills. Part of my research is directly related to the Transport Infrastructure in the Danube River, and more precisely the critical points in the shipping route and ports along the river. Observations related to the condition and the possibility of safe navigation on the river is an important condition for reducing the risks when passing vessels when critical sections occur on the Danube. With the research conducted in this direction, I gained experience in analyzing various ways to increase the level of safety in shipping. Creating conditions for safer use of the waterway and at the same time increasing the efficiency of transport on inland waterways is essential and an important element of the complex of various measures to control and prevent pollution on the largest navigable European river and limiting emissions from shipping. It is of significant interest to me to ensure the safe use of the transport infrastructure in water transport through the use of various information technologies.</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Balbuzanov, T.,B. Evstatiev (2019). Pedestrian Presence Detection System Based on Image Processing <i>2019 IEEE 25th International Symposium for Design and Technology in Electronic Packaging (SIITME)</i>, , 110–113, doi: 10.1109/SIITME47687.2019.8990821 2. Evstatiev, B., T. Balbuzanov, I. Beloev, V. Pencheva (2019). Intelligent System For Improved Safety Of Pedestrian Traffic Lights <i>Transport problems</i>, 14(1), 35-43, doi: 10.21307/tp.2019.14.1.4 3. Lyubenov D., T. Balbuzanov, O. Dinolov "Application of GPS-based information system in studying dynamic properties of vehicles" <i>International Scientific Conference on Communications, Information, Electronic and Energy Systems</i>, (2022): 1-6 			
Achievements in developing intellectual property			
<p>- Award Crystal prize for a report on "Organization of service activity in crisis conditions." - Crystal Prize Award for a report on the topic "Study of the Impact of Covid-19 on the Passenger Flow at Ruse" <i>Railway Station'</i></p>			
Current employment		Lecturer - University of Ruse" Angel Kanchev"	

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Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
DZHEMAL	TOPCHU	Principal Assistant Professor	0009-0007-3123-6074
Professional experience (500 characters)			
<p>Professional experience:</p> <ul style="list-style-type: none"> -Obtained doctoral degree in Scientific specialty - Management and organization of road transport 2017; - Assistant professor at the Department of Transport of the University of Ruse "Angel Kanchev" 2023. - Senior associate R2 of scientific group 3.1.2. Sustainable transport mobility of the project of "Ruse Research University" 2024. - Principal Assistant professor at the Department of Transport of the University of Ruse "Angel Kanchev" 2024. <p>Teaching activity in the field of transport organization and management, traffic safety, information systems and technologies in transport, analysis and reconstruction of road transport accidents.</p> <p>Conducting exercises with students, supervisor of student theses, preparation of publications, manuals, reviews, reports.</p> <p>Scientific activity in the field of transport organization and management, traffic safety, information systems in transport. Participation in national and international projects, participation in seminars and conferences, participation in the activities of the department, faculty and university, etc.</p> <p>Professional skills and competencies:</p> <p>Reviewing more than 30 graduate projects of students, Member of Academic Club "Four Wheels"</p> <p>Areas of professional interest:</p> <p>The organization and management of transport traffic, Traffic safety, Optimization of cargo delivery, Information systems in transport, Ecology, Logistics, Transport, Car diagnostics, Car maintenance and repair, etc.</p> <p>Publications:</p> <p>Author and co-author of 20 publications (11 of them - national and 9 - international in English) and one exercise manual on "Traffic Safety".</p> <p>Scientific and research activities and work on educational and scientific research projects:</p> <p><u>1. Educational projects:</u></p> <ul style="list-style-type: none"> - Participation in the "Ruse Research University" project, financed under the procedure for providing funds from the recovery and sustainability mechanism BG-RRP-2.013 "Creation of a network of research universities in Bulgaria - 2", under contract BG-RRP-2.013- 0001 - participant; - Participation in the project "Supporting the growth of scientific personnel in engineering sciences and information technologies", No. BG051PO001-3.3.06-0008, Ministry of Education, Operational Program "Human Resources Development" - participant; - Participation in project BG05M2OP001-2.002-0001 of the Ministry of Education and Culture "Student Practices - Phase 1" financed under OP NOIP - team member; - Participation in Project BG05M2OP001-2.013-0001 of the Ministry of Education and Culture "Student practices - Phase 2" financed by OP NOIR - team member. <p><u>2. Scientific Research Fund - University of Ruse "Angel Kanchev":</u></p> <ul style="list-style-type: none"> • Project 2024 - TF - 02. Study of the efficiency of urban passenger transport along main routes in the conditions of digitization and technological development; • Project 2017 - RU - 01. Improvement of the internal system for evaluating and maintaining the quality of education and academic staff at Ruse University "Angel Kanchev"; • Project 2016 - RU - 10. Creation of a prototype of a robotic unmanned aerial platform for remote monitoring of critical infrastructure; • Project 2016 - TF - 03. Study of a driver training simulator to improve road traffic safety; 			
3 to 5 most important publications in the recent 10 years			
<ul style="list-style-type: none"> - Experimental Determination of Bicycles and Electric Bicycle Stopping Distance, <i>International Conference on Electronics, Engineering Physics and Earth Science 2024</i>, ISSN: 2673-4591, pp.1-9, DOI:10.3390/engproc2024070026, SJR rank:0.198 / 2023 (Scopus), Authors: Lyubenov, D., S. Kadirova, G. Kadikyanov, Z. Kolev, D. Topchu; - Study of Main Traffic Parameters and Bicycle Path Suitability for Electric Vehicles and Bicycles in the City of Ruse, CIEES 2023 - IEEE International Conference on Communications, Information, Electronic and Energy Systems 2023, Conference paper, DOI: 10.1109/CIEES58940.2023.10378760, EID: 2-s2.0-85183589753, ISBN: 9798350336917, Authors: Lyubenov, D.; Balbuzanov, T.; Steliyanov, M.; Topchu, D.; - Organisation of the work on collecting routes in postal activity through an automated system for collection of information, <i>Transport Problems</i>, 2017 Journal article, DOI: 10.20858/tp.2017.12.3.14, EID: 2-s2.0-85032033887, Part of ISSN: 2300861X 18960596, SJR rank: 0.284 / 2016 (Scopus, Web of Science), Authors: Pencheva, V.; Asenov, A.; Topchu, D.; Beloev, I.; Evstatiev, B.; - On Some Issues for Logistical Optimization of the Transport Servicing in City of Ruse, 3rd Global Virtual Conference THOMSON,2015, Conference paper, ISBN: 978-80-554-0866-8, Authors: Topchu D., V. Pencheva; - Mathematical model and methods for routing shipments of loads in small batches, <i>Scientific forum Challenges in engineering and information science</i>, 2015, Sinaia, Romania, ISBN: 978-954-8483-35-3, Authors: Topchu D., V. Pencheva, A. Asenov, I. Beloev; - Contemporary state of load shipments in small batches in the cities of Republic of Bulgaria, <i>Annual International Conference on Transportation</i>. Athens, Greece. 2015. ISBN: 978-960-598-003-0, Authors: Dzhemal Topchu, Velizara Pencheva, Asen Asenov, Denitsa Miteva. 			
Current employment	Lector at the University of Ruse "Angel Kanchev"		

Annex 3 -64**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
KAMEN	IVANOV	Student PhD	
Professional experience (500 characters)			
<p>From 2006 until now, I have been working in the state administration, specifically in the Executive Agency "Maritime Administration". My work is related to conducting search and rescue operations for people and ships in the Danube River, as well as coordinating operations to locate and liquidate oil spills along the Danube River.</p> <p>I have participated in many European projects under the programs: Southeast Europe, Horizon 2020, INTERREG Bulgaria-Romania</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Analysis and assessment of the conditions for transportation of dangerous goods along the Danube as part of a multimodal scheme 2. Методология за управлението на риска за логистичните процеси в речните пристанища на Република България 3. Analysis of the emergency and rescue activity providing transport safety in the aquatorium of the Bulgarian ports located on the Danube River 			
Achievements in developing intellectual property			
Current employment	Head of the Department "Emergency and Rescue activity Danube River"		

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to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Boril	Ivanov	Assistant Professor, PhD	
Professional experience (500 characters)			
Experience in shipping and logistics industry since 1989. Tutor at the Vocational Training Centre of the Bulgarian National Freight Forwarding Association since 2010. Member of the Institute of Chartered Shipbrokers, London, since 2012. Representative from Bulgaria in FIATA Working Group Sea Transport since 2018. Lecturer at University of Ruse, Department of Transport, since 2018.			
3 to 5 most important publications in the recent 10 years			
<p>METHODOLOGY FOR ASSESSING THE IMPACT OF RETURN CARGO OPTIONS ON FINANCIAL AND TIME INDICATORS IN PORT-TO-PORT TRANSIT TRANSPORTATION BY ROAD Ivanov B., (2024) PROCEEDINGS OF UNIVERSITY OF RUSE, volume 63, ISSN 1311-3321 (print)</p> <p>METHODOLOGY FOR COMPARATIVE ANALYSIS OF INTERMODAL AND MULTIMODAL TRANSPORT SERVICING OF CUSTOMER ADDRESSES FROM A PORT CONTAINER TERMINAL Ivanov B., (2023) PROCEEDINGS OF UNIVERSITY OF RUSE, volume 62</p> <p>METHODOLOGY FOR COMPARATIVE ANALYSIS OF MULTIMODAL ROUTES FOR CARGO TRANSPORTATION WITH A LEADING SEA AND RIVER LEG Ivanov B., (2022), PROCEEDINGS OF UNIVERSITY OF RUSE, volume 61</p> <p>METHODOLOGY FOR DRY PORT EFFICIENCY ASSESSMENT IN CASE OF UNBALANCED IMPORT AND EXPORT CONTAINER FLOW Ivanov B., (2021), New industries, Digital Economy, Society – Projections of The Future IV</p> <p>FEASIBILITY STUDY ON INLAND CONTAINER FREIGHT STATIONS FOR EMPTY CONTAINER HAULAGE OPTIMIZATION AND QUALITY IMPROVEMENT OF EXPORT AND IMPORT LOGISTICS IN BULGARIA Ivanov B., (2020), PROCEEDINGS OF UNIVERSITY OF RUSE, vol. 59, ISSN 1311-3321 (print)</p>			
Achievements in developing intellectual property			
Current employment	University of Ruse, Department of Transport Donau Transit Ltd, Ruse, Bulgaria		

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to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Rumen	Rusev	Associate Proffesor	https://orcid.org/0000-0002-0969-0760
Professional experience (500 characters)			
<ul style="list-style-type: none"> - Head of Department of “Informatics and Information technologies” - Head of Department for Development and maintenance of software systems at the Center for Information and computer services, University of Ruse - Associate Professor in the Department of Informatics and Information Technologies - Disciplines: Object-oriented programming, Computer Graphics, Image Processing, Computer systems and networks 			
3 to 5 most important publications in the recent 10 years			
<ul style="list-style-type: none"> - Rusev R., I. Rusev, V. Petrov (2022). Unified Approach for Designing a Database for the Needs of the Anesthesiologists in Bulgaria <i>Contemporary Methods in Bioinformatics and Biomedicine and Their Applications. BioInfoMed 2020. Lecture Notes in Networks and Systems, vol 374., , 32-38, doi: 10.1007/978-3-030-96638-6_3</i> - Petrov Vl., R. Rusev, I. Rusev (2021). ANAESTHESIOLOGY IN THE BIG DATA ERA - ARE WE READY FOR THAT? <i>Anaesthesiology and Intensive Care, 1, 14-18</i> - Rusev, I. R., R. I. Rusev, T. I. Vassilev (2014). AN APPROACH FOR IMPLEMENTING AN INTELLIGENT USER INTERFACE <i>International Journal on Information Technologies & Security, 4, 43-50</i> 			
Achievements in developing intellectual property			
Current employment	Researcher, Associate Professor		

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Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Galina	Atanasova	Associate professor	https://orcid.org/0000-0001-8110-7165
Professional experience (500 characters)			
<ul style="list-style-type: none"> - Associate professor in the Department of Informatics and Information Technologies - Researcher in the field of Data Structure and Algorithms, Software Engineering - Training students in competitive programming - Disciplines: Data Structure and algorithms, Algorithm Design, Software Technologies, Software Modeling and Design - Teacher at IT Career – A program of Ministry of Science and Education for students and business in the field of Algorithm Development and Design 			
3 to 5 most important publications in the recent 10 years			
<ul style="list-style-type: none"> - I. Stefanov, G. Atanasova. THE BENEFITS OF THE EARLY INTRODUCTION OF SEO TO THE NEW DIGITAL GENERATION. IN: 15th International Conference on Education and New Learning Technologies, Palma, Spain, IATED Digital Library, 2023, pp. 2357-2363, ISBN 978-84-09-52151-7, ISSN 2340-1117 - K. Stefanova, G. Atanasova. THE USE OF ROBOTICS IN PRESCHOOL EDUCATION. IN: 15th International Conference on Education and New Learning Technologies, Palma, Spain, IATED Digital Library Home, 2023, pp. 2339-2347, ISBN 978-84-09-52151-7, ISSN 2340-1117 - G. Atanasova. BEST PRACTICES IN STUDENTS' PREPARATION IN PROGRAMMING COMPETITIONS. IN: INTED2021 Proceedings, 2021, pp. 1755-1759, ISBN 2340-1079 - Atanasova G., P. Hristova. The teacher's role in discovery, preparation, and development of gifted students in the field of informatics. IN: 43rd International ICT Hybrid Convention MIPRO 2020 Proceedings 2020/CE, Kružna 8/II, HR-51000 Rijeka, Croatia, MIPRO, 2020, pp. 882-886, ISBN 2623-8764 - G. Atanasova, I. Kamenarov. AN APPROACH TO PROVIDE SUCCESS TO PROGRAMMING TRAINING. IN: Proceedings of INTED2019 Conference, Valencia, Spain, 2019, pp. 1534-1540, ISBN 978-84-09-08619-1 - G. Atanasova. STUDENTS' CRITICAL THINKING SKILLS IMPROVEMENT VIA ALGORITHMIC PROBLEMS SOLVING. IN: 11th International Conference on Education and New Learning Technologies, 1-3 July, Palma, Spain, 2019, pp. 8333-8340, ISBN 978-84-09-12031-4 			
Achievements in developing intellectual property			
<ul style="list-style-type: none"> - <i>The Union of Scientists in Bulgaria award for long-term contribution</i> - <i>The Bistra and Galina Foundation award for contribution to the development of young students in the field of competitive programming</i> 			
Current employment	Researcher		

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Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Kamelia	Shoilekova-Nikolova	Associated professor	https://orcid.org/0009-0001-2415-9599
Professional experience (500 characters)			
<ul style="list-style-type: none"> - PhD student in the Department of Informatics and Information Technologies - Associated professor in the Department of Informatics and Information Technologies - Researcher in the field of Business process management - Researcher in the field of Business architecture design - Disciplines: Data Bases, Operating Systems, Software Modeling and Analysis, Information Systems - Teacher at English Language School "Geo Milev" in the field of Data base 			
3 to 5 most important publications in the recent 10 years			
<p>Shoilekova, K., Ivanova, B. (2022). The Necessity of Information Extraction from Big Data Systems for the Purpose of Business Process Optimization. In: Silhavy, R. (eds) Software Engineering Perspectives in Systems. CSOC 2022. Lecture Notes in Networks and Systems, vol 501. Springer, Cham. https://doi.org/10.1007/978-3-031-09070-7_5</p> <p>Shoilekova, K. (2022). Methodological Problems Related to Big Data Processing and Analysis. In: Silhavy, R. (eds) Software Engineering Perspectives in Systems. CSOC 2022. Lecture Notes in Networks and Systems, vol 501. Springer, Cham. https://doi.org/10.1007/978-3-031-09070-7_23</p> <p>Shoilekova, K. (2023). Business Model as a Basic Building Block of Business Architecture. In: Silhavy, R., Silhavy, P., Prokopova, Z. (eds) Software Engineering Application in Systems Design. CoMeSySo 2022. Lecture Notes in Networks and Systems, vol 596. Springer, Cham. https://doi.org/10.1007/978-3-031-21435-6_48</p> <p>Shoilekova, K. (2023). A Web Application for Moving from One Spot to Another by Using Different Public Transport - a Logical Model. In: Silhavy, R., Silhavy, P. (eds) Artificial Intelligence Application in Networks and Systems. CSOC 2023. Lecture Notes in Networks and Systems, vol 724. Springer, Cham. https://doi.org/10.1007/978-3-031-35314-7_13</p> <p>K. Shoilekova and B. Ivanova, "Modeling a system determining the fastest way to get from one point to another by public transport," <i>2023 5th International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA)</i>, Istanbul, Turkiye, 2023, pp. 1-4, doi: 10.1109/HORA58378.2023.10156725.</p>			
Achievements in developing intellectual property			
Current employment	Associate professor and Researcher		

Annex 3-69
to the Development and sustainability programme with a business plan
Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Nikolay	Zlatov	Professor in Energetics, Docent in Electro technique, electronics and automation	0000-0003-4063-8730
Professional experience (500 characters)			
<p>Dr. Nikolay Zlatov is a full time Professor in the Department of Mechatronics at the Institute of Mechanics, Bulgarian Academy of Sciences. He is Scientific leader, Member of the Management Board of the Center for Competence in Mechatronics and Clean Technologies - MIRACle, head of the laboratory "3D modeling, prototyping of elements, details and systems for mechatronics" Institute of Mechanics – BAS. Until September 2016 was Senior lecturer of Department of Engineering and Design, London South Bank University (LSBU) in United Kingdom. Hi is also Associate Professor in Robots and Manipulators in Department of Mechatronics from 2003. Prof. Zlatov is Expert of renewable energy in European Bank for Reconstruction and Development (EBRD - London). His main research field of specialisation is in Mechatronics, Micro Mechanical System Design, Robotics, Automations, Energy efficiency, Financial analysis, Renewable energy, Wind turbine, Solar PV, Mechanics, Fluid Mechanics, Micro Manufacture, CAD/CAM/CAE, 3D technologies, Design and Simulation.</p> <p>Professional achievements are more than 80 publications. He is a team leader of many research projects financed by EC.</p> <p>Dr. Zlatov has been awarded with Royal Society/NATO Fellowship award for Research in Robotics at Cardiff University and in 2015 “Best paper award” for paper “Investigation of the development of the wind energy project” in conference TE-RE_RD – 4th International Conference on Thermal Equipment, Renewable Energy and Rural Development.</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. A My, Chu; Thai, Le; Ha, Hoang; Le, Chi Hieu; Egbe , Uyi-Osa ; Gao, James; Zlatov , Nikolay ; Packianather, Michael. A framework for practically effective creation of postprocessors for 5-axis CNC machines with all possible configurations and working mechanisms, published in Part B: Journal of Engineering Manufacture - UK, ISSN 09544054, 20412975, manuscript ID JEM-22-0674.R1, SJR 0.74, Q1 2. Yavor Yotov, Nikolay Zlatov, Georgi Hristov, Plamen Zahariev, Chi Hieu Le, James Gao, Anh My Chu, Ho Quang Nguyen, Le Minh Huynh, Trung Thanh Bui, Jamaluddin Mahmud, and Michael Packianather, Innovative Development of a Flying robot with a Flexible Manipulator for Aerial Manipulations. In: Annals of Computer Science and Information Systems. Polskie Towarzystwo Informatyczne, Warsaw, Poland, pp. 49-54. ISBN 2300-5963. (2023) 3. Uyi-osa Egbe, Chi Hieu Le, James Gao, Anh My Chu, Michael Packianather, Nikolay Zlatov (2023). A Case-Based Reasoning Based Framework for Devel-oping Computer Aided Remanufacturing Process Planning Systems. In: Ci-oboată, D.D. (eds) International Conference on Reliable Systems Engineering(ICoRSE) - 2022. ICoRSE 2022. Lecture Notes in Networks and Systems, vol 534.Springer, pp. 305-312, https://doi.org/10.1007/978-3-031-15944-2_28 4. Sergey Glazyrin, Zhanar Aidymbayeva, Abay Dostiyarov, Michail Zhumagulov, Nikolay Zlatov, Velimir Strefanović: Study of the possibilities of integrated treatment of flue gases and waste water from coal-fired heat power plants, 2021, Journal Thermal Science, Web address: http://thermalscience.vinca.rs ISSN: 0354-9836, eISSN: 2334-7163, Impact factor: 1.625, will be published in No.6A, Vol. 25, 2021 5. Zlatov, N., G. Hristov, D. Kinaneva, Y. Yotov, P. Zahariev. Research on the present and emerging applications of smart robots and unmanned aerial vehicles in the agriculture domain, Journal IJOMAM – The International Journal of Mechatronics and Applied Mechanics, Issue 10/2021 			
Achievements in developing intellectual property			
1. Nikolay Zlatov, Energy & The Environment Fundaments Applications and Projects, Research and engineering of agriculture, IIZZ-2019, Publisher complex, ctp.135, ISBN 978-619-7135-16-9			
Current employment	Professor, Institute of Mechanics, Bulgarian Academy of Sciences Bulgaria		

Annex 3-70**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Iotislav	Kountchev	Dr.-Ing. System Dynamics Modelling in Urban and City Planning & Sustainable Mobility	
Professional experience (500 characters)			
<p>Dr. Iotislav Kountchev is a renowned expert in the field of mathematical modelling of complex systems using the methods of System Dynamics (Club of Rom), integrative transport planning and feasibility study of complex enterprises.</p> <p>Due to his competence he will provide a vital contribution to the realization of the strategic targets at the Centre of Competence “Blue Coastal Marine and Riverine Innovative & Sustainable Management of Environments and Resources” by integrating interdisciplinary specialist knowledge and highlighting aspects of sustainable mobility in the context of the Blue Economy Approach.</p>			
3 to 5 most important publications in the recent 10 years			
6. Theo Janssen, Iotislav Kountchev: Wirtschaftsverkehrsmodell für Bremen. – In: Wirtschaftsverkehr 2007: Modelle - Strukturen - Umsetzung (Logistik, Verkehr und Umwelt) Taschenbuch. - Uwe Clausen (Herausgeber). – 18. April 2007 (ISBN-10 : 3899570537).			
Achievements in developing intellectual property			
N/A			
Current employment	Advisor in the field of traffic planning and implementation of large-scale infrastructure enterprises, freelance work.		

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to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Ahmed	Ahmedov	Dr (PhD)/Wind Turbines, Numerical Modeling	0000-0002-4230-231X
Professional experience (500 characters)			
<p>Currently Dr Ahmed Ahmedov is a full-time expert CAE simulation engineer at Odelo Bulgaria EOOD, Sofia. Odelo is an international tier 1 supplier in the automotive exterior lighting sector for most of the well-known OEMs such as Audi, Daimler, BMW, VW, Porsche, Renault, Ford, Toyota, Dacia and more. Main responsibilities: performing thermal (CFD) and mechanical simulations, optimizing design, and proposing improvements based on the simulation results and conclusions, physical testing to validate simulation results. From 2018 to 2021 Dr Ahmedov is employed at the University of Loughborough, Loughborough, UK as a Research Associate in Product Development for Powertrain Control. He was involved with industrial research projects: Virbius: Hybrid electric vehicle energy management control and performance evaluation project for Jaguar Land Rover. SAGE: Small automotive gas engine design development and performance investigation project for OakTec UK. Teaching involvement: Control engineering; Vehicle and powertrain functional performance; Lecturer in "Training for powertrain test operations" at Jaguar Land Rover Ansty Park test facility.</p> <p>From 2015 to 2018 Dr Ahmedov is working as an engineer for the energy auditing company EnCon Services International Ltd., Sofia, Bulgaria. He has been involved with a wide range of industrial projects supported by Operational Programs of the Ministry of Economy; Operational Programs of the Ministry of Agriculture and Food; Energy Efficiency Reports of Outdoor Artificial Lighting Systems; Energy Efficiency Reports on Industrial Systems.</p> <p>From 2010 to 2013 Dr Ahmedov is working as a teaching assistant at the University of Ruse "Angel Kanchev", Ruse, Bulgaria. Teaching involvement: Fluid Mechanics; Fluid Mechanics into the Machine Manufacturing; Computational Hydro-and-Aerodynamics; Renewable Energy Sources.</p> <p>Dr Ahmedov is author or co-author of 23 scientific publications.</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Ahmedov Ahmed, Watson Andrew, Ebrahimi K, Dutta N (2022): "Sensitivity Analysis and Calibration of Vehicle HVAC". International Journal of Powertrains 11(4): 365, DOI: 10.1504/IJPT.2022.127868. 2. Ahmedov Ahmed; Beavis Nicholas; Kalantzis Nikolaos; Pezouvanis Antonios; Rogers Dave; Ebrahimi Kambiz (2021): "Method for design and evaluation of ICE exhaust silencers". International Journal of Powertrains, 2021 Vol.10 No.1, pp.1 – 26, DOI: 10.1504/IJPT.2021.114735. 3. Ruoyang Yuan, Tom Fletcher, Ahmed Ahmedov, Nikolaos Kalantzis, Antonios Pezouvanis, Nilabza Dutta, Andrew Watson, Kambiz Ebrahimi. "Modelling and Co-simulation of hybrid vehicles: A thermal management perspective". Applied Thermal Engineering, volume 180, 2020, 115883, ISSN 1359-4311, https://doi.org/10.1016/j.applthermaleng.2020.115883. 4. Fletcher T., Kalantzis N., Ahmedov A., Yuan R. et al., "Holistic Thermal Energy Modelling for Full Hybrid Electric Vehicles (HEVs)," SAE Technical Paper 2020-01-0151, 2020, Event: WCX SAE World Congress Experience, ISSN: 0148-7191, https://doi.org/10.4271/2020-01-0151. 5. Kalantzis N., Fletcher T., Ahmedov A., Yuan R. et al., "Co-Simulation Methods for Holistic Vehicle Design: A Comparison," SAE Technical Paper 2020-01-1017, 2020, Event: WCX SAE World Congress Experience, ISSN: 0148-7191, https://doi.org/10.4271/2020-01-1017. 			
Current employment		Expert CAE Simulation Engineer, Odelo Bulgaria EOOD, Sofia, Bulgaria	

Annex 3 -72**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Mladen	Petrov	Dr./ Metrology and Quality management	
Professional experience (500 characters)			
<p>Dr. Mladen Petrov until his retirement in 2023. is a member of the Department of Technology of Mechanical Engineering the University of Ruse and has worked in the scientific fields "Metrology and Metrological Assurance" and "Quality Management". For 40 years he has been developing transducers for measuring physical quantities and means for measuring geometric quantities of details of various shapes and purposes. Dr. Petrov has participated in over 20 scientific and applied publications, he is the author of over 20 scientific articles and textbooks.</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Mladen Petrov. Preparation of the uncertainty budget for measurement with a device for complex two-profile inspection of gears// SCIENTIFIC PAPERS OF THE UNIVERSITY OF RUSE - 2012, Volume 51, Series 2, 2012, issue 51-2 2. Mladen Petrov. Competitive comparison of the quality of methods for complex two-profile control with and without a reference wheel// SCIENTIFIC PAPERS OF THE UNIVERSITY OF RUSE - 2012, volume 51, series 2, 2012, issue 51-2 3. Mladen Petrov, Branko Sotirov. Study of a method for complex two-profile control without a reference gear// SCIENTIFIC WORKS OF THE UNIVERSITY OF RUSE - 2012, Volume 51, Series 2, 2012, Issue 51, p. 2 4. Mladen Petrov, METHODOLOGY FOR CALIBRATION OF MEASURING TRANSDUCERS FOR SUBSIDENCE CONTROL OF ENGINEERING AND CONSTRUCTION EQUIPMENT// Scientific papers RU "ANGEL KANCHEV", 2002, issue 1 5. Mladen Petrov, Pl. Minkova. WEB BASED PROGRAM SYSTEM FOR MARKETING THE QUALITY OF PRODUCTS THROUGH QFD-METHOD// Scientific papers RU, 2003, issue 1 			
Achievements in developing intellectual property			
N/A			
Current employment	Guest lecturer at the University of Ruse		

Annex 3-73**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Krastimir	Popov	Associate Professor	0000-0001-5883-0398
Professional experience (500 characters)			
<p>Dr. Krastimir Popov is an Associate Professor from the University of Ruse. He is currently retired. He has more than 19 years of teaching and research experience at the University of Ruse. From year 2000 till his retirement (2018) he has 18 years of teaching and research experience at Cardiff University and University of South Wales, Cardiff. Dr. Popov is member of IMechE and is author or co-author of more than 50 scientific publications. His research interests are in the area of micro- and Nano- manufacturing, CAD/CAM and 3D technologies and recently in the area of Wind Turbine design and manufacturing.</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. AM Elkaseer, SSDimov, DT Pham, KB Popov, L Olejnik and A Rosochowski, Material microstructure effects in micro-endmilling of Cu99.9E, Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, IMechE 2016, DOI: 10.1177/0954405416666898 2. A.M. Abdelrahman Elkaseer, S. S. Dimov, K. B. Popov and R. M. Minev, Tool Wear in Micro-Endmilling: Material Microstructure Effects, Modeling, and Experimental Validation, Journal of Micro and Nano-Manufacturing, 2(4), 044502, JMNM-13-1002; doi: 10.1115/1.4028077, (2014) 3. Elkaseer A, Dimov SS, Popov KB, Negm MA, Minev R, Modeling the material microstructure effects on the surface generation process in microendmilling of dual-phase materials, Journal of Manufacturing Science and Engineering, 134 (4) (2012) ISSN 1087-1357 10.1115/1.4006851 4. Pham DT, Ivanov A, Bigot S, Popov KB, Dimov SS, An investigation of tube and rod electrode wear in micro EDM drilling, International Journal of Advanced Manufacturing Technology, 33 (1-2) (2007) 103-109 ISSN 0268-3768 10.1007/s00170-006-0639-7 			
Achievements in developing intellectual property			
<ol style="list-style-type: none"> 1. As a member of the team developed "A Program Complex for Generating CNC programs" responsible for the developed CAM part, more than 200 implementations in Bulgaria, Latvia, East Germany and Russia (1990-1996). 2. Development of new Tool Condition Monitoring System for micro-tools (patented). 			
Current employment	Retired		

Annex 3-74

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Iliya	Iliev	Professor, PhD	0000-0003-4443-5113
Professional experience (500 characters)			
<p>Dr. Iliya Iliev works as a full professor at the University of Ruse, Bulgaria. He is a principal lecturer in energy-saving technologies; Industrial heat engineering, renewable energy sources; and steam boilers. He has been the project manager for over 800 industrial energy efficiency projects. Most of these projects involve cutting-edge heat transfer technologies and utilize some of the 17 patents Dr. Iliev holds in this sector. Dr. Iliev is an honor professor at AUET, DHC. Author and co-author of 300 scientific publications. Index Hirsh 8. He is the scientific supervisor of 7 successfully defended doctoral students and 16 in the training procedure.</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Sylwia Kruk-Gotzman, Paweł Ziólkowski, Iliya Iliev, Gabriel-Paul Negreanu, Janusz Badur (2023). Techno-economic evaluation of Combined Cycle Gas Turbine and Adiabatic Compressed Air Energy Storage integration concept <i>Energy</i>, 266, 126345, doi: 10.1016/j.energy.2022.126345 2. Iliev I.K, A.K. Terziev, H.I. Beloev I. Nikolaev and A. G. Georgiev (2021). Comparative analysis of the energy efficiency of different types co-generators at large scales CHPs <i>Energy</i>, 221, 119755, doi: 10.1016/j.energy.2021.119755 3. Iliev I. A. Chichirov A. Filimonova N. Chichirova A. Pechenkin I. Beloev (2023). Development of Hybrid Membrane Systems for Highly Mineralized Waste Utilization in the Power Industry <i>ENERGIES</i>, 16, 1-13, doi: 10.3390/en16176166 4. Iliev I., A. Fedyukhin, D. Semin, Y. Valeeva, S. Dronov, I. Beloev (2024). Prospects of Hydrogen Application as a Fuel for Large-Scale Compressed-Air Energy Storages <i>Energies</i>, 17, 518, 1-16, doi: 10.3390/en17020518 5. Genbach A.A., D. Yu. Bondartsev, I. K. Iliev, A. G. Georgiev (2020). Scientific method of creation of ecologically clean capillary-porous systems of cooling of power equipment elements of power plants on the example of gas turbines <i>Energy</i>, 199, 117458, doi: 10.1016/j.energy.2020.117458 			
Achievements in developing intellectual property			
N/A			
Current employment	Professor, University of Ruse "Angel Kanchev", Bulgaria		

Annex 3-75
to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Svilena	Ruskova	Assoc. prof. PhD	https://orcid.org/0009-0005-2449-5639
Professional experience (500 characters)			
Head of the Department of Management and Social Activities, at the Faculty of Business and Management of the University of Ruse "Angel Kanchev". Participates in 6 projects as a researcher and manager, covering topics related to: Entrepreneurship education, Comparative study on the needs of training for the development of entrepreneurial skills, Equal opportunities for women and men in science, green economy, etc.			
3 to 5 most important publications in the recent 10 years			
Stoycheva B., S. Ruskova. (2020). Economic Science, education and the real economy: Development and interactions in the digital age, Publishing house Science and Economics Varna, pp. 567-579			
Todorova, M., S. Ruskova, S. Kunev. Research of Bulgarian consumers' reactions to organic foods as a new product. IN: The 6th International Conference Innovation Management, Entrepreneurship and Sustainability (IMES 2018), DOI 10.18267/pr.2018.dvo.2274.0, Czech Republic, Vysoká škola ekonomická v Praze, Nakladatelství Oeconomica – Praha 2018 Nakladatelství Oeconomica, 2018, pp. 1057-1070			
Pavlov, D., Ruskova S. The Role of Entrepreneurial Universities in Supporting Intergenerational Family Businesses.// International Journal of Euro-Mediterranean Studies, 2023, No 16 (1), pp. 51-72, ISSN 2232-6022			
Achievements in developing intellectual property			
PhD in improving the quality of management in the certification of an ecological industrial product. There are over 70 scientific publications, of which 1 in Web of Science, 1 in Scopus. The full list of the researcher's publications can be found here: https://publications.uni-ruse.bg/publications/sruskova			
Current employment	Research and teaching activities cover the topics of management, social management; organization of management activity; co-management; consumer behaviour; management of organizations in the field of health care; management decisions.		

Annex 3 -76
to the Development and sustainability programme with a business plan
Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Atanas	Atanasov	Associate Prof. PhD	0000-0003-4816-2837
Professional experience (500 characters)			
Extensive expertise in precision agriculture using UAV and precision beekeeping, focusing on the study of microclimates within bee colonies and the impact of agrometeorological factors on bees. Skilled in developing models for optimal apiary placement, enhancing beekeeping processes, and promoting sustainability. Proficient in agrotechnical practices to combat drought, integrating innovative solutions to optimize agricultural productivity and environmental stewardship.			
3 to 5 most important publications in the recent 10 years			
Atanasov, A., B. Evstatiev, A. I. Atanasov, I. Hristakov (2024). Detection and Assessment of White Flowering Nectar Source Trees and Location of Bee Colonies in Rural and Suburban Environments Using Deep Learning Diversity, 16(9), 1-17, doi: 10.3390/d16090578			
Atanasov, A., B. Evstatiev, V. Vladut, S.-S. Biris (2024). A Novel Algorithm to Detect White Flowering Honey Trees in Mixed Forest Ecosystems Using UAV-Based RGB Imaging AgriEngineering, 6, 95–112, doi: 10.3390/agriengineering6010007			
Atanasov, A., P. Nikolova, B. Evstatiev (2024). Monitoring and Evaluation of the Moisture Retention of Leached Chernozem Under Different Types of Tillage Lecture Notes in Civil Engineering, 609, 23-36, doi: 10.1007/978-3-031-70955-5_3			
Atanasov, A.Z., I. S.Hristakov, M. Koszel, A. Przywara (2022). Monitoring Agrometeorological Factors and Weight of the Bee Hive During Black Locust (<i>Robinia pseudoacacia</i>) Flowering Farm Machinery and Processes Management in Sustainable Agriculture. FMPMSA 2022. Lecture Notes in Civil Engineering, vol 289., , 239-251, doi: 10.1007/978-3-031-13090-8_25			
Atanasov A., I.Georgiev (2021). Evaluation of the places for creation of apiaries and optimal distribution of the bee colonies INMATEH - Agricultural Engineering, 65 / no.3, 373-380, doi: 10.35633/inmateh-65-39			
Achievements in developing intellectual property			
Developed innovative models and methodologies in precision beekeeping, including systems for analyzing microclimates within bee colonies and optimizing apiary site selection. Created intellectual property that advances sustainable beekeeping practices and enhances the efficiency of organic farming systems. Contributed to the development of novel approaches integrating agrometeorological data to improve decision-making processes in agriculture.			
Current employment	University of Ruse, “Angel Kanchev”		

Annex 3 -77**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Daniel	Bratanov	professor	0000-0001-6787-0543
Professional experience (500 characters)			
<p>2024 – and now Dean of Public Health and Health Care faculty of University of Ruse Manage and coordinate the work in the Public Health and Health Care faculty. " Angel Kanchev" University of Ruse, Ruse, 7017, 8 "Studentska" St.</p> <p>2016 – present Professor in Public Health at University of Ruse, Department of Public Health, Faculty of Public Health and Health Care, " Angel Kanchev" University of Ruse, Ruse, 7017, 8 "Studentska" St. Subjects: Assistive technologies in Occupational therapy; Rehabilitation equipment and mechanotherapy; Rehabilitation robotics; Orthotic and prosthetic devices; Disaster management; Management of Research projects.</p> <p>2020-2024 Director of DMRD Ltd, London, UK, Manage the activities of DMRD Ltd,</p>			
3 to 5 most important publications in the recent 10 years			
<p>6. Daniel Bratanov, Pavel Vitliemov. Danube River Monitoring, Information and Advising System for Pollution Prevention and Control. IN: 4th International Conference on Communications, Information, Electronic and Energy Systems (CIEES), Bulgaria, IEEE, 2023, pp. 1-4, ISBN 979-8-3503-3691-7, ISSN 979-8-3503-3691-7</p> <p>7. Pavel Vitliemov; Daniel Bratanov. An Approach to Design a Robot Platform with a Web-Based Virtual Reality Remote Control System. IN: International Conference on Communications, Information, Electronic and Energy Systems (CIEES), Ruse, IEEE, 2022, pp. 1-6, ISBN 978-1-6654-9149-5</p> <p>8. P. Vitliemov, D. Bratanov and M. Marinov, "An Approach to Use Virtual and Remote Labs in Mechatronics Education Based on Cloud Services," <i>2020 7th International Conference on Energy Efficiency and Agricultural Engineering (EE&AE)</i>, Ruse, Bulgaria, 2020, pp. 1-4, doi: 10.1109/EEAE49144.2020.9279072.</p> <p>9. D. Bratanov and P. Vitliemov, "The Experience Behind The REHAROB Project – A New Robotic System For Simultaneous Rehabilitation Of Upper And Lower Human Limbs," <i>2020 International Conference on Assistive and Rehabilitation Technologies (iCareTech)</i>, Gaza, Palestine, 2020, pp. 19-23, doi: 10.1109/iCareTech49914.2020.00010.</p>			
Achievements in developing intellectual property			
<p>1. Stefan Stoyanov Tsvetomir Varbanov Daniel Bratanov Romyana Bratanova Tihomir Todorov. MOBILE ROBOT, , No US20220402115,2022.</p> <p>2. STOYANOV STEFAN [BG]; VARBANOV TSVETOMIR [BG]; BRATANOV DANIEL [GB]; BRATANOVA RUMYANA [GB]; TODOROV TIHOMIR [BG]. MOBILE ROBOT, , No EP4108563A1,2022.</p>			
Current employment	Professor in University of Ruse, Ruse " Angel Kanchev"		

Annex 3 -78

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Iliyan	Lilov	Profesor	0000-0002-6064-5252
Professional experience (500 characters)			
WORK EXPERIENCE 30 YEARS			
<ul style="list-style-type: none"> • Dates (from-to) • Name and address of the employer • Type of activity or field of work <ul style="list-style-type: none"> • Position • Main activities and responsibilities • Dates (from-to) • Name and address of the employer • Type of activity or field of work <ul style="list-style-type: none"> • Position • Main activities and responsibilities 	<p>01.2017 – now</p> <p><i>Vassil Levski National Military University Veliko Tarnovo, № 76 Bulgaria blvd.</i></p> <p><i>Teaching in the sphere of higher military education</i></p> <p><i>Professor at the department</i></p> <p><i>Training and education of future military officers for the armed forces, research in the sphere of engineering. Responsibility for the scientific and methodological aspect of the teaching classes and the modernisation and upgrading of the facilities. Teaching students Mentorship for PhD students</i></p> <p>04. 2011 – 01.2017</p> <p>Vassil Levski National Military University Veliko Tarnovo, № 76 Bulgaria blvd.</p> <p>Organization of the scientific and research activities in the field of higher military education, coordination, and development of educational and scientific projects</p> <p>Director of the institute for research and innovation</p> <p>Coordination of scientific and research activities at the university; organization of scientific forums; coordination of projects under the operational programs; teaching activity; establishing and maintaining contacts with representatives of the military and defence industry as well as other business and organizations.</p>		
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Iliyan Lilov, Ivan Georgiev Maintenance System Research for Armoured Vehicles in Peacekeeping Operation as Close Queuing System in Dynamic Regime, THE 23rd INTERNATIONAL SCI-ENTIFIC CONFERENCE KNOWLEDGE-BASED ORGANIZATION –SIBIU; 15-17.06.2017 https://www.degruyter.com/downloadpdf/j/kbo.2017.23.issue-3/kbo-2017-0178/kbo-2017-0178.pdf 2. Iliyan Liov, Ilyan Hutov Numerical model for simulation of the velocity fields for the explosively formed penetrator, 1 -ва Международна Научна Конференция "Mathmodel 2017" 13-16.12.2017, ISSN 2535-0978 стр.125-129, Боровец, България International Scientific Journal Mathematical Modeling Print ISSN 2535-0978; Online ISSN 2603-2929; https://stumejournals.com/journals/mm/2017/4 3. Iliyan Lilov, Stoyanova Veselka Talev Dancho Steganographic algorithm reading the differences between the pixels of compressed images, 4-та международна научна конференция "Високи технологии. Бизнес. Общество '19" 11-14.03.2019, Боровец, България ISSN 2535-0005(PRINT), ISSN 2535-0013 (ONLINE) стр.40-44 http://hightechsociety.eu/sbornik/1-2019.pdf 4. Илиян Лиллов, Свилен Стефанов, Тихомир Йотков, Оценка и сравнителен анализ на кризисни ситуации причинени от наводнения в община Велико Търново при проиграване на сценарии чрез симулационно моделиране, Сборник доклади от международна научна конференция „Съвременни изследвания и технологии за отбрана ARTDef-2021”, 29-30.06.2021, ВВМУ гр. Варна, ISSN 2815-2581; 			
Achievements in developing intellectual property			
Current employment	<i>Lector in Vassil Levski National Military University, Veliko Tarnovo</i>		

Annex 3 -79
to the Development and sustainability programme with a business plan
Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Silvia	Beloeva	Chief Assistant	0009-0008-6847-9923
Professional experience (500 characters)			
WORK EXPERIENCE			
2022 – and now			
Chief Assistant 3.4. “Social Activities”,			
" Angel Kanchev" University of Ruse, Ruse, 7017, 8 "Studentska" St. Faculty Business and Management Department, Department of Management and Social Activities			
2015 – 2018			
Director of Specialized administration			
Borovo Municipality, 1A N. Vaptsarov, Ruse District Borovo municipality – 7174 Organizes and controls the overall activity in the directorate. Manages the implementation of the specific tasks set for development by the individual contractors. Assigns tasks and is responsible for their implementation. Organizes the development, coordination and updating of internal documents related to interaction between the units of the directorate and the administration as a whole.			
EDUCATION AND TRAINING			
2019 – 2022			
Educational and scientific degree "Doctor"			
Professional field 3.7. Administration and Management, scientific profile Organization and Management of Production University of Ruse 8 Studentska str., 7017, Ruse, Bulgaria Faculty Business and Management Department, Department of Management and Social Activities			
2020 – 2021			
Master's Degree „Clinical Social Work“			
University of Ruse 8 Studentska str., 7017, Ruse, Bulgaria Faculty Business and Management Department			
2015 – 2016			
Master's Degree „Management of European Projects“			
University of Ruse 8 Studentska str., 7017, Ruse, Bulgaria Faculty Business and Management Department			
2011 – 2015			
Bachelor's degree “Public Administration”			
University of Ruse 8 Studentska str., 7017, Ruse, Bulgaria Faculty Business and Management Department Professional field Administration and Management			
3 to 5 most important publications in the recent 10 years			
1. Белоева, С., Антонова, Д., (2023). Контролираната тревожност в академична среда като стимул за креативност и иновативност на студентите Списание „Стратегии на образователната и научната политика“, , 622-638, doi: 10.53656/str2023-6-4-con			
2. Beloeva, S., (2022). Impact of Controlled Anxiety as a Way of Dealing with Stress in High School Students PROCEEDINGS OF UNIVERSITY OF RUSE - 2022, volume 61, book 8.2, 18-26, doi:			
3. Beloeva, S., (2021). METHODOLOGY FOR RESEARCHING THE FACTOR IMPACT OF ANXIETY ON THE CREATIVITY AND INNOVATION OF INDIVIDUALS IN A WORKING BUSINESS ENVIRONMENT PROCEEDINGS OF UNIVERSITY OF RUSE - 2021, volume 60, book 8.2, 44-54, doi			
4. Beloeva, S., D. Antonova (2020). Tools Representing the Relationship between Anxiety, Creativity, Innovation: Metadata Analysis Proceedings of University of Ruse - 2020, vol. 59, book 5.1. Economic and Management, 118-123 (on-line), doi			
5. Beloeva, S., (2019). VIEWS ON ANXIETY AND CREATIVITY IN MANAGEMENT THEORY PROCEEDINGS OF UNIVERSITY OF RUSE - 2019, volume 58, 20-33, doi:			
Achievements in developing intellectual property			
Current employment	LECTOR in University of Ruse, Ruse " Angel Kanchev"		

Annex 3-80

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Evgeniya	Bratoeva	PhD	0000-0002-8373-0302
Professional experience (500 characters)			
Professional experience in the field of healthcare and social work with people with severe multiple disabilities - 22 years			
Professional experience in the field of higher education - 7 years			
3 to 5 most important publications in the recent 10 years			
<p>Братоева, Е. (2022). Музикотерапия – различният, приятен и ефективен начин за лечение. <i>Обща медицина</i>, 1, 62-70</p> <p>Bratoeva-Vasileva E. (2021). ANALYSIS AND ASSESSMENT OF THE SOCIAL RELATIONS AS A QUALITY OF LIFE COMPONENT IN PEOPLE WITH ONCOLOGICAL DISEASES <i>Theoretical & Applied Science - International Scientific Journal Philadelphia, USA</i>, 01, 412 - 419, doi: 10.15863/TAS</p> <p>Bratoeva, E. (2020). SOCIAL WORK BASED ON THE RELIGIOUS BELIEFS OF PEOPLE WITH ONCOLOGICAL DISEASES AND AIMED AT IMPROVING THEIR QUALITY OF LIFE <i>Theoretical & Applied Science International Scientific Journal</i>, 7 (87), 19-25</p> <p>Братоева, Е. (2020). Изследване на риска от развитие на личностово разстройство при пациенти с онкологични заболявания <i>Обща медицина</i>, 4, 19-28</p>			
Achievements in developing intellectual property			
Current employment	Lecturer at the University of Ruse "Angel Kanchev"		

Annex 3-81**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Anton	Nedyalkov	Assoc. Prof. Dr. / Operations Management, Industrial Engineering, Integrated Management Systems	0000-0002-0267-5533
Professional experience (500 characters)			
Lecturer in academic disciplines: Operations Management, Production Management, Organization of Administrative Services, Management Information Systems, Information Technologies in Management, Information Management, Electronic Business.			
Deputy Dean for Academic Affairs at the Faculty of Business and Management since 2020.			
Kirova, M., Nedyalkov, A., Pencheva, M., Yordanova, D. (2018). University as Prerequisite for Sustainable Regional Development in International Context. <i>Proceedings of the 18th International Scientific Conference Globalization and Its Socio-Economic Consequences</i> , 2578-2585.			
Simeonova, A., Nedyalkov, A. (2019). A Priori Research on Lean Tools in Business. <i>Reports Awarded with "Best Paper" Crystal Prize from 58th Annual Scientific Conference of University of Ruse and Union of Scientists</i> , 59-65.			
Simeonova, A., Nedyalkov, A. (2020). Research on Application of Lean Tools: Some Cases from Service Companies <i>Journal of Entrepreneurship & Innovation</i> , 12, 55-59.			
Achievements in developing intellectual property			
None			
Current employment	University of Ruse "Angel Kanchev"		

Annex 3-82

to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Milena	Kirova	Professor	0000-0001-7988-6673
Professional experience (500 characters)			
<p>I teach "Innovation Management", "Innovation Policy", "Internet of Things", "Energy Management", "Sustainable Development of Regions", "Marketing Management", "Communication Policy";</p> <p>I am Dean of the Faculty of "Business and Management" 2019 – now;</p> <p>I was Head of the "Management and Business Development" department 2011 – 2019</p>			
3 to 5 most important publications in the recent 10 years			
<ol style="list-style-type: none"> 1. Kirova, M., Boneva, M. Artificial Intelligence: Challenges and Benefits for Business. IN: In New Trends in Contemporary Economics, Business and Management. Selected Proceedings of the 14th International Scientific Conference “Business and Management 2024”, Vilnius, VILNIUS TECH Faculty of Business Management, 2024, pp. pp. 253–260, ISBN 978-609-476-363-2 2. Kirova, M., P. Velikova. Risk management method for small photovoltaic plants.// Management and Marketing, 2016, No Volume 11, pp. 498–512, ISBN 1842-0206 (SJR rank: 0.159 /2015, Scimago Journal & Country Rank, Scopus, Web of Science) 3. Varbanova, M., M.Dutra de Barcellos, M. Kirova, H. De Steur, X. Gellynck. Industry 4.0 implementation factors for agri-food and manufacturing SMEs in Central and Eastern Europe.// Serbian Journal of Management, 2023, No 18(1)2023, pp. 167-176, ISBN 14524864, 22177159 (Impact factor: 0.21 /2023,) 			
Achievements in developing intellectual property			
None			
Current employment	University of Ruse “Angel Kanchev”		

Annex 3 -83**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Miroslava	Boneva	Principal Assistant Professor, PhD	0000-0003-3732-5733
Professional experience (500 characters)			
Lecturer in academic disciplines: Operations Management, Management Information Systems, Information Technologies in Management, Information Management, Electronic Business, Digital Identity Management.			
Vice Dean Research at the Faculty of Business and Management since 2020.			
3 to 5 most important publications in the recent 10 years			
Kirova, M., Boneva, M. Artificial Intelligence: Challenges and Benefits for Business. IN: In New Trends in Contemporary Economics, Business and Management. Selected Proceedings of the 14th International Scientific Conference "Business and Management 2024", Vilnius, VILNIUS TECH Faculty of Business Management, 2024, pp. pp. 253–260, ISBN 978-609-476-363-2			
Boneva, M. Challenges Related to the Digital Transformation of Business Companies. IN: The 6th International Conference Innovation Management, Entrepreneurship and Sustainability (IMES 2018), Prague, 2018, pp. 101-114, ISBN 978-80-245-2274-6			
Boneva, M. Mobile Applications Support for Managers. // Journal of Entrepreneurship & Innovation, 2016, No 8, pp. 61-80, ISBN 1314-0167			
Achievements in developing intellectual property			
None			
Current employment	University of Ruse "Angel Kanchev"		

Annex 3 -84**to the Development and sustainability programme with a business plan****Key scientific personnel**

Name	Surname	Academic title/discipline	ORCID no
Boyana	Ivanova	Assistant Professor	https://orcid.org/0000-0003-4833-1012
Professional experience (500 characters)			
<ul style="list-style-type: none"> - Ph.D. student last year - Assistant professor in the Department of Informatics and Information Technologies - Researcher in the field of Augmented Reality and Mixed Reality - Developing holographic applications - Disciplines: Object-oriented programming, Computer Graphics, Artificial Intelligence, Software Validation, and verification - Teacher at English Language School "Geo Milev" in the field of Web design 			
3 to 5 most important publications in the recent 10 years			
<ul style="list-style-type: none"> - V. V. Kozov, B. Ivanova (2023). Augmenting Student Education Using the RealityScan Application for Generating 3D Content Proceedings of the 46th ICT and Electronics Convention - MIPRO, 619-625, doi: 10.23919/MIPRO57284.2023.10159773 - Shoilekova K., Ivanova B. (2022). The Necessity of Information Extraction from Big Data Systems for the Purpose of Business Process Optimization Computer Science On-line Conference CSOC 2022, 48-54, doi: 10.1007/978-3-031-09070-7_5 - Ivanova B., Vassilev T.I. (2021). A Mixed Reality Approach to Visualizing Cultural Heritage Artefacts ACM International Conference Proceeding Series, 22nd International Conference on Computer Systems and Technologies, CompSysTech '21, SJR 0.18, 2020, 107-111, doi: 10.1145/3472410.3472432 			
Achievements in developing intellectual property			
-			
Current employment	Researcher, Assistant Professor		

Annex 3-85
to the Development and sustainability programme with a business plan

Key scientific personnel

Name	Surname	Academic title/discipline	ORCID no
Magdalena	Andreeva	PhD, Ch.Ass.	0000-0003-2200-5665
Professional experience (500 characters)			
Teaching: <ul style="list-style-type: none"> ▪ Information systems ▪ System programming ▪ Cloud computing ▪ Information systems and technologies Experience in database design, information systems development, cloud computing technologies.			
3 to 5 most important publications in the recent 10 years			
1. Kozov, V, E. Minev, M. Andreeva "Improving Software Engineering Students' Creative Thinking and Motivation Using Practical Prototyping and Innovation Techniques" TEM Journal, 13.1 (2024): 646-651 2. Andreeva Magdalena "THE CLOUD COMPUTING – AN APPLICATION OF GOOGLE APPS IN E-LEARNING" International Journal Knowledge (IKM), 30.6 (2019): 1655-1662 3. Georgi Krastev, Magdalena Andreeva "A Software Tool for Experimental Study Leap Motion" International Journal of Computer Science & Information Technologies (IJCSIT), vol.7 No6 (2015), ISSN: 0975-9646			
Achievements in developing intellectual property			
Current employment	Ruse University, dept. Informatics and Information Systems		