

## PERSONAL INFORMATION

## TUDOR Georgeta

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✉ georgeta.ene@gmail.com

Sex Female | Date of birth 16/01/1982 | Nationality Romanian

## WORK EXPERIENCE

February 2019 - present

**Department Head/ Scientific Researcher III****National Institute for Research and Development in Environmental Protection Bucharest**

294, Spl. Independentei, District 6, 060031, Bucharest

[www.incdpm.ro](http://www.incdpm.ro)

- Coordinating the activity of the employees within the department
- Hydromorphological modelling of watercourses
- Analysis, interpretation and representation of data using GIS
- Monitoring, validation and complex processing of hydrodynamic data
- Hydromorphological investigation of watercourses, including processing and interpretation of multi-beam bathymetric data
- Numerical modelling for flowing water bodies
- Statistical modelling on the parameters of the natural environment and of the anthropic processes
- Development and management of environmental protection databases

**Business or sector :**

Numerical Modelling and Geographic Information System Department

Activity focused on research, studies and assistance for all environmental components, including the analysis of socio-economic activities, in terms of environmental performance.

September 2016 –January 2019

**Department Head/ Scientific Researcher****National Institute for Research and Development in Environmental Protection Bucharest**

294, Spl. Independentei, District 6, 060031, Bucharest

[www.incdpm.ro](http://www.incdpm.ro)

- Coordinating the activity of the employees within the department
- Hydromorphological modelling of watercourses
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- Hydromorphological investigation of watercourses, including processing and interpretation of multi-beam bathymetric data
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- Development and management of environmental protection databases

**Business or sector :**

Numerical Modelling and Geographic Information System Department

Activity focused on research, studies and assistance for all environmental components, including the analysis of socio-economic activities, in terms of environmental performance.

February 2013 – August 2016

**Scientific Researcher****National Institute for Research and Development in Environmental Protection Bucharest**

294, Spl. Independentei, District 6, 060031, Bucharest

[www.incdpm.ro](http://www.incdpm.ro)

- Monitoring, validation and complex processing of hydrodynamic data
- Hydromorphological investigation of watercourses, including processing and interpretation of multi-beam bathymetric data
- Analysis, interpretation and representation of data using GIS
- Converting drawn objects (plans / maps) into digital vector format (digitization / vectorization)
- Development and management of environmental protection databases
- Development of emission inventories at national and local level
- Dispersion in the atmosphere of pollutants from point, linear and surface sources

- September 2010 - February 2013

  - Assessment of anthropogenic activities impact on the environment
  - Assessment of air quality in areas and agglomerations
  - Business or sector :**  
Numerical Modelling and Geographic Information System Department  
Activity focused on research, studies and assistance for all environmental components, including the analysis of socio-economic activities, in terms of environmental performance.
  - Scientific Researcher Assistant**  
**National Institute for Research and Development in Environmental Protection Bucharest**  
294, Spl. Independentei, District 6, 060031, Bucharest  
[www.incdpm.ro](http://www.incdpm.ro)
  - Development and management of environmental protection databases
  - Analysis, interpretation and representation of data using GIS
  - Converting drawn objects (plans / maps) into digital vector format (digitization / vectorization)
  - Development of emission inventories at national and local level
  - Dispersion in the atmosphere of pollutants from point, linear and surface sources
  - Assessment of anthropogenic activities impact on the environment
  - Assessment of air quality in areas and agglomerations
  - Business or sector :**  
Numerical Modelling and Geographic Information System Department  
Activity focused on research, studies and assistance for all environmental components, including the analysis of socio-economic activities, in terms of environmental performance.
- October 2008–September 2010

  - Scientific Researcher Assistant**  
**National Institute for Research and Development in Environmental Protection Bucharest**  
294, Spl. Independentei, District 6, 060031, Bucharest  
[www.incdpm.ro](http://www.incdpm.ro)
  - Integrated monitoring systems
  - Dispersion into the atmosphere of pollutants from point, linear and surface sources
  - Assessment of anthropogenic activities impact on the environment
  - Dissemination of air quality information using Web and GIS support
  - Mathematical and experimental modelling
  - Assessment of air quality in areas and agglomerations
  - Business or sector :**  
Environmental Engineering Compartment  
Activity focused on research, studies and assistance for all environmental components, including the analysis of socio-economic activities, in terms of environmental performance.
- January 2008 – July 2010

  - Collaborator**  
**Power Engineering and Environmental Protection Centre –University Politehnica of Bucharest**  
313, Spl. Independentei, District 6, Bucharest
  - AutoCAD 2008 laboratory assistant
  - Scientific research activities
  - Business or sector :**  
Contribution of teachers, doctoral students, researchers and students from the University Politehnica of Bucharest - Faculty of Power Engineering in the progress of science, technology and technology in the field of energy and environmental protection
- September 2007 September 2008

  - Research-development assistant**  
**SC IT COM CONSULT SRL**  
51, Șerbănescu Alexandru, Cpt. Av, District 1, Bucharest
  - Development of research papers for the project “WEB adaptive platform for an integrated management in the water field – PMA”, included in the thematic field, Climate changes, pollution and risk. Environment and health” within CEEEX – 2006
  - Business or sector :**  
Hardware & software import and distribution, IT technical assistance
- June 2005–September 2008

  - Engineer – consultant on documenting and implementation of management systems for the quality, environment, health and occupational safety**  
**SC TQM SOLUTIONS SRL**  
7, Părintele Galeriu, District 2, Bucharest  
Expert in:
  - quality management systems according to SR EN ISO 9001:2000
  - environmental management systems according to SR EN ISO 14001:2005
  - management systems for health and occupational safety according to OHSAS 18001:2004

For contracts on the line of management systems, I took care of the entire consulting process from contracting to assistance in system certification by an accredited body with excellent results in 100%.

**Business or sector :**

Management systems and business counselling

June 2006–July 2007

**Accountant assistant**

**SC EUROCONEX SRL**

6, Ion Ionescu De La Brad nr 6, District 6, Bucharest

- Keeping the record of the body employees' deductions, daily pay desk register, centralizing and reporting monthly the fuel consumption of the body fleet

**Business or sector :**

Civil and urban constructions, entrepreneurship, installations, real estate infrastructure development.

## EDUCATION AND TRAINING

October 2005 - February 2007

**Master's Degree - Power generation and use impact on the environment**

EQF  
7

University Politehnica of Bucharest – Faculty of Power Engineering

- Modern unitary processes for treatment and purification
- Modelling and simulation of treatment processes
- Reduction of pollutant emissions and waste management
- The impact of energy on groundwater quality
- Numerical models in environmental issues
- Research methodologies of treatment plants and equipment
- Development and evaluation of environmental projects
- Use of geographic information systems to monitor environmental factors

October 2000 - June 2005

**Bachelor of Science in Environmental Engineering**

EQF  
6

University Politehnica of Bucharest – Faculty of Power Engineering

- Environmental engineering in power generation
- Mathematical analysis, linear algebra, analytical geometry and differential equations, descriptive geometry and technical drawing, special mathematics
- Computer programming, computer aided graphics - AutoCAD,
- Technical physics, theoretical mechanics, chemistry, materials technology, materials strength, fluid mechanics, mechanisms and machine parts, applied thermogasodynamics, measurement of electrical quantities, electrical equipment, heat and mass transfer, pumping and ventilation installations, measurement of non-electrical quantities, electrical machines and drives, thermal equipment and installations, electricity and heat production in CTE
- Technical English
- Economics, sociology and work psychology, financial resources and economic analysis, pedagogy, school psychology
- Operational research, numerical methods in energy
- Elements of ecology and biology, chemistry of pollutants, dynamics of polyphase polluting fluids, renewable energy sources, metrology of pollutants, wastewater treatment, ecotoxicology,
- Use of water energy and complex uses of water, hydrology and meteorology, arrangement of water resources,
- Impact of combustion plants, electrical phenomena with impact on the environment, impact of CTE on the environment, treatment and recovery of industrial waste, solid waste management, microclimate engineering in premises, reliability, risk maintenance, audit and impact assessment methods, clean and recoverable industrial technologies , dosimetry and radiation protection,
- Monitoring of environmental factors, environmental management policies, management in energy and environment, law and legislation in energy and environment, information system of environmental factors

September 1996 - February 2000

**Baccalaureate Diploma**

EQF  
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„Unirea" National College Focșani

- IT specialization

Other courses and certifications

- 2016 **Certificate MIKE 21 FM ECOLAB**  
DHI
- 2015 **Certificate MIKE 11**  
DHI  
MIKE 11 HD (hydrodynamic module), MIKE 11 RR (hydrological module)
- 2015 **Certificate MIKE 3, MIKE 21 OIL SPILL**  
DHI  
MIKE 3 Flow Model HD FM, MIKE 3 ST FM, MIKE 21 Flow Model HD FM, MIKE 21 OS FM
- 2009 **Course GS4 Knosberg GeoAcoustic**  
Navtron Romania  
High resolution multibeam data processing
- 2009 **Certificate from the Scientific authorship national training session**  
Higher Education and Science Research in Universities Financing Executive Unit
- 2008 **Certificate Internal Auditor for Environmental Management Systems**  
Quasaro, Romania
- 2008 **Certificate Introduction in ERDAS IMAGINE PROFESSIONAL , I+II module**  
GEOSYSTEMS GmbH, Germany  
Remote sensing analysis, spatial modeling
- 2007 **Certificate „Introduction to InfoWorks WS”**  
Wallingford Software, UK  
Water supply network modeling
- 2007 **Certificate Quality Management Systems Specialist**  
TÜV Rheinland, Romania

PERSONAL SKILLS

Mother tongue Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Listening	
Engleză	C2	C2	C2	C2	C2
Italiană	B1	B1	B2	B1	B1

Communication skills

- Team spirit, increased adaptability, communication, seriousness, ability to assimilate new information and skills, willingness to engage in socio-cultural activities are skills acquired and applied in the work teams I have been part of throughout my professional route.

Organisational / managerial skills

- Coordination and decision-making skills, organizational spirit, ability to analyse tasks and delegate responsibilities, ability to assess professional skills of members of the work team, all being acquired and applied in the coordination activities of employees in the department for which I am responsible.
- The adaptability for teamwork as well as the autonomy in activity when necessary, the capacity for synthesis, self-taught and analytical spirit were acquired, highlighted and improved within the work teams of which I was part along my professional path.

## Computer skills

- Hydrodynamic design and modelling in MIKE and InfoWorks suites
- A very good command of the MS Office suite (word processor, spreadsheet, presentation software, graphics)
- Processing ADCP, single beam bathymetric measurements in RiverSurveyor Live and WinRiver II
- Processing of high resolution multibeam bathymetric measurements in GS4
- Image processing and GIS analysis techniques in Erdas Image, processing, visualization and processing of georeferenced data with the suite of applications Global Mapper, Voxler
- Computer aided design Autocad 2007

## ADDITIONAL INFORMATION

## Scientific communications and articles in specialized journals

## International

1. Deak Gy., Raischi M.C., Badilita A.M., Danalache T., Cristea A., Holban E., Zamfir A., Boboc M.G., Matei M., Uritescu B., Boaja I., Stefan D., **Tudor G.**, „*Actual status, pressures and preserving perspectives of sturgeon species from Lower Danube River*”, 8th International Symposium on Sturgeon (ISS8), 10-16 September, 2017, Vienna, Austria.
2. Deak Gy., Raischi M., Badilita A.M., Danalache T., Cristea A., Holban E., Zamfir S., Boboc G., Matei M., Uritescu B., Boaja (Popescu) I., Stefan D., **Tudor G.**, Badea G., Gheorghe I., Comateanu G., Raischi N., Silion M., „*Action for preserving sturgeon species from Lower Danube River*”, International Warsaw Invention Show, 09-11 octomber 2017, Varsovia, Polonia.
3. Nicolae, A-F., Deák Gy., **Tudor G.**, Cirstinoiu C.-tin., Zamfir A.-St., Uritescu B., Georgescu P-L., Ghita G., Raischi M-C., Daescu A-I., Dumitru F-D., Moncea M-A., Laslo L., Szep R., „*Comparative analysis on water velocity distribution in the context of riverbed morphology changes and discharge variation*”, Journal of Environmental Protection and Ecology (JEPE), vol.18 (4) , pp 1649-1657, 2017
4. Gy. Deák, **G. Tudor**, A.-F. Nicolae, B. Urişescu, C-tin Cîrstinoiu, M. C. Raischi, A.-St. Zamfir, G. Badea, T. Danalache , Hydrodynamic parameters assessment using specialized techniques, in the context of low flows. Case study Epurasu Branch - Danube River, Applied Physics of Condensed Matter (APCOM 2019)
5. **G. Tudor**, Deak Gy., C. Cîrstinoiu, M. Raischi, T. Dănălache, G. Comăţeanu, E. Bratfanof „*Transboundary River Hydrodynamic Conditions Assessment in Sustainable Development Context. A Case Study of Danube River: Chilia Branch -Bystroe Channel Area*”, IOP Conf. Series: Earth and Environmental Science 616 012072 (2020)
6. E. Bratfanof , Deak Gy., **G. Tudor**, T. Dănălache, E. Holban, M. Boboc „*Synthesis of Studies Conducted to Reveal the Impact of the Bastroe Canal on the Physico-Chemical Conditions and Biodiversity in Danube Delta Biosphere Reserve (DDBR)*”, IOP Conf. Series: Earth and Environmental Science 616 012022 (2020)
7. **G. Tudor**, Deak Gy, M. Arsene, T.M. Danalache, B. Petculescu, D.M. Tuca, E. Bratfanof, M.E. Zainol, „*Hydrodynamic Modelling for the Chilia—Bystroe Danube Sector: Model Calibration and Validation*”, Mohamed Noor, N., Sam, S.T., Abdul Kadir, A. (eds) Proceedings of the 3rd International Conference on Green Environmental Engineering and Technology. Lecture Notes in Civil Engineering, vol 214. Springer, Singapore (2021)

## National (first author)

1. **G. Tudor (Ene)**, „*Integrating standard international management systems within water management*”, Revista Calitatea IWM, p.33, 2008
2. **G. Tudor (Ene)**, C. Negoită „*Modelarea unei reţele de distribuţie apă într-o zonă urbană utilizând InfoWorks WS*”, Revista Calitatea IWM, p.43, 2008
3. **Tudor G.**, Petrescu A., Pantilimon C., Cîrstinoiu C., Grigoras G, “*Various velocity fields mapping software using Acoustic Doppler Profiler System data from Bala Danube branch*”, International Conference : New tools for sustainable management of aquatic living resources AQUALIRES, Bucharest, Romania, 2014
4. **G. Tudor**, Gy. Deák, B. Urişescu, C-tin Cîrstinoiu, A.-F. Nicolae, A. St. Zamfir, T. M. Dănălache, M.V. Olteanu, “*Comparative analysis of hydrodynamic and hydromorphological parameters variation resulting from anthropic interventions on Lower Danube – Caleia Branch*”, ISB-INMA TEH Agricultural and Mechanical Engineering, ISSN 2537 - 3773, p. 633-642, 2017
5. **Tudor G.**, DEÁK Gy., Urişescu B., Cîrstinoiu C-tin, Raischi M., Zamfir Şt., Badea G., Dănălache T. M., Holban E., Petculescu B., Lupei Th, „*Water quality parameters assessment by using numerical*

National (co-author)

*models for pollutant dispersion simulation on the Danube River*, EuroInvent European Exhibition of Creativity and Innovation, Iasi, Romania, 2019

6. **TUDOR Georgeta**, DEÁK György, RAISCHI Marius, DĂNĂLACHE Tiberius Marcel, PETCULESCU Bianca, ȚUCĂ Dănuț Marian, ARSENE Miruna, BRATFANOF Edward, “*Research on morphological and hydrodynamic evolution tendencies in the Chilia – Bystroe transboundary area – Numerical modelling activities for hydrodynamic and morphologic analysis*”, EuroInvent European Exhibition of Creativity and Innovation, Iasi, Romania, 2021

- G. Grigoras, V.Cuculeanu, G. Tudor (Ene), G.Motoaca, A.Deneanu. “Air pollution dispersion modeling in a polluted industrial area of complex terrain from Romania”, Romanian Reports in Physics 64.1, p. 173-186, 2012

- A.-F. Nicolae, Gy. Deák, G. Tudor, A. St. Zamfir, P.L. Georgescu, C-tin Cîrstinoiu, B. Urițescu, M.C. Raischi, T.M. Dănălache, A.I. Dăescu, A. Badilita, Al. Cristea, “Preliminary analysis of sediment transport in the context of the hydrotechnical constructions influence. Case study Branch Bala – Old Danube bifurcation”, ISB-INMA TEH Agricultural and Mechanical Engineering, ISSN 2537 - 3773, p. 673-680, 2017

- Badilita A.M., Danalache T. Raischi M., Deák Gy., Cristea A., Holban E., Zamfir St., Badea G., Gheorghe I., Boboc M., Matei M., Uritescu B., Cirstinoiu C., Tudor G., Boaja (Popescu) I., Stefan D. „Identification of anthropogenic factors and assessment of their possible impact on preservation of sturgeon species from the lower Danube“, ISB-INMA TEH Agricultural and Mechanical Engineering, ISSN 2537 – 3773,p. 701-706, 2017

- Ilie M., Marinescu F., Ghiță G., Ivanov Al., Anghel A.-M., Tociu C., Petculescu, B., Tudor G., Uritescu B., Cirstinoiu C., „Project MEVAS 48N/2016 - Research on the impact of pollutants on aquatic ecosystems, Phase 16040302.1/2016 - Characterization of surface water quality. Case studies“, EUROINVENT, 2017

- Nicolae A.-F., Zamfir A.-Șt., P. Georgescu L., Raischi M.C., Tudor G., Dumitru F.-D., Ilie M., Ghita G., „Study regarding the dispersion of water quality indicators in the Danube River“, Annals of “Dunarea De Jos” University of Galati Mathematics, Physics, Theoretical Mechanics Fascicle, 2017

- Nicolae, A-F., Deák Gy., Tudor G., Cirstinoiu C.-tin., Zamfir A.-St., Uritescu B., Georgescu P-L., Ghita G., Raischi M-C., Daescu A-I., Dumitru F-D., Moncea M-A., Laslo L., Szep R., „Comparative analysis on water velocity distribution in the context of riverbed morphology changes and discharge variation“, Journal of Environmental Protection and Ecology (JEPE), 2017

- C-tin Cîrstinoiu, Gy. Deák, B. Urițescu, G. Tudor, A.-F. Nicolae, A.-St. Zamfir, T.M. Dănălache, M. Olteanu, M. C. Raischi, Assessment of hydromorphological and hydrodynamic alterations caused by anthropogenic interventions on the riverbed. Case study Danube Bala branch new bottom sill, International Symposium GEOMAT , Iasi, Romania, 2017

- A.-F. Nicolae, P. L. Georgescu, Gy. Deák, A.-St. Zamfir, G. Tudor, C-tin Cîrstinoiu, B. Urițescu, M. C. Raischi, M. Olteanu, Development of a bathymetric model for Danube Bala Branch-Old Danube bifurcation, International Symposium GEOMAT, Iasi, Romania 2017

- M. Ilie, Gy. Deák, G. Ghiță, F. Marinescu, Al. Ivanov, A.-F. Nicolae, G. Tudor, I. Savin, C-tin Cîrstinoiu, B. Urițescu, Integrated assessment of the impact generated by pollutants on aquatic ecosystems using numerical modeling with specialized software, Euroinvent, 10th European Exhibition of Creativity and Innovation, Iasi, Romania, mai 2018

- Gy. Deák, M.-A. Moncea, F.-D. Dumitru, M. Matei, M. Boboc, G. Tudor, B. Urițescu, T.-M. Dănălache, G. Ghiță, F. Marinescu, Investigations regarding the development of monitoring, assessment and capitalization capacity of natural resources provided by Romanian wetlands of international importance and the Black Sea coastal area, Euroinvent, 10th European Exhibition of Creativity and Innovation, Iasi, Romania, mai 2018

- A.-M. Anghel, Gy. Deák, G. Poteraș, C. Cimpoeru, A. Ivanov, I.-E. Ciobotaru, E. Marcu, M. Boboc, G. Tudor, M. Olteanu, A. Baraitaru, Presentation of the removal methods of heavy metals from acid mine leachate by adsorption, 10th European Exhibition of Creativity and Innovation, Iasi, Romania, mai 2018

- A.-M. Anghel, Gy. Deák, C. Cimpoeru, A. Ivanov, I.-E. Ciobotaru, E. Marcu, M. Boboc, G. Tudor, G. Poteraș, M. Olteanu, A. Baraitaru, Presentation of the recovery method of tailings by solidification/stabilization with cement, 10th European Exhibition of Creativity and Innovation, Iasi, Romania, mai 2018

## Awards

- **Golden Medal and Diploma** for the paper „*Project MEVAS 48N/2016 – Research on the impact of pollutants on aquatic ecosystems – Characterization of surface water quality. Case studies*”, Ilie M., Marinescu F., Ghiță G., Ivanov Al., Anghel A.M., Tociu C., Petculescu B., **Tudor G.**, Urițescu B., Cîrstinoiu C-tin, **EuroInvent European Exhibition of Creativity and Innovation, 2017, Iasi, Romania.**
- **Golden Medal and Diploma** for the paper „*Research on transboundary dispersion of heavy metals occurring from mining activities within the Danube River Basin – Removal of heavy metals from acid mine leachate by absorption*”, Anghel A.M., Deak Gy., Poteraș G., Cimpoeru C., Ivanov Al., Ciobotaru I.E., Marcu E., Boboc M.G., **Tudor G.**, Poteraș G., Olteanu M., Băraitaru A., **EuroInvent 10th European Exhibition of Creativity and Innovation, 2018, Iasi, Romania.**
- **Silver Medal and Diploma** for the paper „*Investigation regarding the development of monitoring, assessment and capitalization capacity of natural resources provided by Romanian wetlands of international importance and the Black Sea coastal area*”, Deak Gy., Moncea M.A., Dumitru F.D., Matei M., Boboc M., **Tudor G.**, Urițescu B., Danalache T., Ghita G., Marinescu F., **EuroInvent 10th European Exhibition of Creativity and Innovation, 2018, Iasi, Romania.**
- **Silver Medal and Diploma** for the paper „*Research on transboundary dispersion of heavy metals occurring from mining activities within the Danube River basin – Recovery of tailing by solidification/stabilization with cement*”, Anghel A.M., Deak Gy., Cimpoeru C., Ivanov Al., Ciobotaru I.E., Marcu E., Boboc M.G., **Tudor G.**, Poteraș G., Olteanu M., Băraitaru A., **EuroInvent 10th European Exhibition of Creativity and Innovation, 2018, Iasi, Romania**
- **Silver Medal and Diploma** for the paper „*Integrated assessment of the impact generated by pollutants on aquatic ecosystems using numerical modeling with specialized software*”, Ilie M., Deak Gy., Ghiță G., Marinescu F., Ivanov Al., Nicolae A.F., **Tudor G.**, Savin I., Cîrstinoiu C-tin, Urițescu B., **EuroInvent 10th European Exhibition of Creativity and Innovation, 2018, Iasi, Romania**
- **Bronze Medal and Diploma** for the paper „*Study regarding the impact of the emissions of suspended particles on the environment and human health*”, Raischi N., Balaceanu C., Ciobotaru I., **Tudor G.**, **EuroInvent European Exhibition of Creativity and Innovation, 2017, Iasi, Romania.**
- **Silver Medal and Diploma** for the paper „*Water quality parameters assessment by using numerical models for pollutant dispersion simulation on the Danube River*”, **Tudor G.**, DEÁK Gy., Urițescu B., Cîrstinoiu C-tin, Raischi M., Zamfir Șt., Badea G., Dănălache T. M., Holban E., Petculescu B., Lupei Th, **EuroInvent European Exhibition of Creativity and Innovation, Iasi, Romania, 2019**
- **Excellence diploma** for the paper “*Research on morphological and hydrodynamic evolution tendencies in the Chilia – Bystroe transboundary area – Numerical modelling activities for hydrodynamic and morphologic analysis*” TUDOR Georgeta, DEÁK György, RAISCHI Marius, DĂNĂLACHE Tiberius Marcel, PETCULESCU Bianca, ȚUCĂ Dănuț Marian, ARSENE Miruna, BRATFANOF Edward, **EuroInvent European Exhibition of Creativity and Innovation, Iasi, Romania, 2021**
- PN 09 06 01 14 *Research on modelling the dispersion of pollutants in the atmosphere based on the intercomparison of new generation models, Phase PN 09 06 01 14 .1: Modeling the dispersion of pollutants in the atmosphere using the TAPM, ADMS and AERMOD models – Project responsible (2010)*
- PN 09 06 01 13 *Research on the direct and indirect effects of the discharge of a heat-charged effluent into the Danube , Phase PN 09 06 01 13.2 “ Seasonal differentiation of the effects of the discharge of a thermally charged effluent into the Danube ” – Project responsible (2013)*
- PN 09 06 01 14 *Research on modelling the dispersion of pollutants in the atmosphere based on the intercomparison of new generation models , Phase PN 09 06 01 14.2 : „ Assessment of air quality at national level by mathematical modeling of the dispersion of air pollutants from at least 3000 sources ” - Project responsible (2013)*
- PN 09 06 01 14 *Research on modelling the dispersion of pollutants in the atmosphere based on the intercomparison of new generation models , Phase PN 09 06 01 14.3 „ Elaboration at national and sectoral level of forecasts of emissions of sulfur dioxide, nitrogen oxides, volatile organic compounds, ammonia and dust, considering 2015, 2020, 2030, 2050 as target years ” - Project responsible (2013)*

Responsible for national  
research projects

- PN 09 06 01 54 *Research on the quantitative assessment of the consequences of variability of levels on the Danube on groundwater and soil in adjacent land areas, in characteristic sections , Phase **PN 09 06 01 54.1 “ Study on the influence of low flows on groundwater and soil quality in the Lower Danube meadow”** - Project responsible (2014)*
- PN 09 06 01 25 *Research on new solutions for integrated management of accumulation lakes in order to improve their impact on the environment. Case studies, Phase **PN 09 06 01 25.1 „ Use of numerical simulations to analyse the variation of hydraulic parameters in the context of anthropogenic interventions. Bala branch case study”** – Project responsible (2015)*
- PN 16 04 01 12: *Research to improve air quality assessment , Phase **PN 16 04 01 12.1 „ Research on improving the estimation of emissions from surface sources,** Project responsible (2017)*
- PN 16 04 01 02 *Research on the transboundary dispersion of heavy metals from areas affected by extractive activities in Romania in the Danube river basin Phase **PN 16 04 01 02.3. „ Analysis of the transboundary dispersion of heavy metals present in the catchment surface waters of the Danube River”** Project responsible (2017)*
- PN 16 04 01 13 *Using GIS techniques to analyze environmental factors , Phase **PN 16 04 01 13.1: „Current trends and approaches to the use of GIS techniques in the analysis of environmental factors,** Deputy Project Director (2017)*
- PN 18 26 02 01 *Research on the assessment of water quality parameters using numerical models in order to simulate the pollutant dispersion wave on the Danube , Phase **PN 18 26 02 01.1 Development of the hydrodynamic numerical model. In situ measurements and experiments** – Project Director (2018)*
- PN 18 26 02 01 *Research on the assessment of water quality parameters using numerical models in order to simulate the pollutant dispersion wave on the Danube , Phase **PN 18 26 02 01.1 Development of the calibrated and validated numerical model in order to simulate the pollutant dispersion wave. Scenarios related to ecological catastrophes on the Danube, Epurașu arm** Project Director (2018)*
- PN 18 26 02 04 *Geomorphological research on the evolution of the Bala Branch - Danube in the context of the hydrotechnical works-win-win solution of DKL-B-C type of flow redistribution in favor of the Old Danube, Phase **PN 18 26 02 04.3 Demonstration of the technical solution Bala Branch -Danube by numerical modelling** - Project Scientific Director (2018)*
- PN 19 43 03 02 *Research on morphological and hydrodynamic evolution tendencies in the Chilia - Bystroe cross-border area, Phase **PN 19 43 03 01.1 Study on the application of remote sensing techniques for the identification and evaluation of areas with morphodynamic changes. Identifying satellite imagery sources and creating the database structure**- Deputy Project Director (2019)*
- PN 19 43 03 02 *Research on morphological and hydrodynamic evolution tendencies in the Chilia - Bystroe cross-border area, Phase **PN 19 43 03 01.2 Characterization of specific environmental conditions in the cross-border area Chilia - Bystroe - Old Istanbul. Inventory of morphohydrodynamic components susceptible to transboundary impact** - Deputy Project Director (2019)*
- PN 19 43 03 02 *Research on morphological and hydrodynamic evolution tendencies in the Chilia - Bystroe cross-border area, Phase **PN 19 43 03 01.3 Establishment of the morphohydrodynamic reference status for the Chilia – Bystroe area** Deputy Project Director (2020)*
- PN 19 43 03 02 *Research on morphological and hydrodynamic evolution tendencies in the Chilia - Bystroe cross-border area, Phase **PN 19 43 03 01.4 Numerical modelling activities for hydrodynamic and morphologic analysis for the Chilia – Bystroe area,** Deputy Project Director (2021)*
- PN 19 43 03 02 *Research on morphological and hydrodynamic evolution tendencies in the Chilia - Bystroe cross-border area, Phase **PN 19 43 03 01.5.1 Hydrodynamic and morphological alterations comparative analysis using data provided by in situ measurements***
- Contract 53/ 2011 " **Monitoring of Environmental Impact of the Works for Improvement of the Navigation Conditions on the Danube between Calarasi and Braila, km 375 - km 175**", beneficiary AFDJ Galați, funded through Operational Programme - Transport SOPT (2011-2018)

National Project team member

- Contract Europe Aid/134910/4/SER/RO „**Studies for achieving shore protection of wetland area Divici-Pojejena**”, funded through IPA Cross-Border Cooperation Program Romania-Republic of Serbia (2014-2015)
- Contract 152 / 2008, **Study of the dispersion of pollutants emitted into the atmosphere at S.C. ROMPLUMB S.A** (2009)
- Contract 19/2007, **Strengthening the capacity of the “Air Quality Control” laboratory within the I.N.C.D.P.M. - ICIM Bucharest by equipping with mobile equipment for monitoring the concentrations of pollutants in the atmosphere in order to establish solutions to reduce environmental pollution** (2009)
- Project 32-154/2008, **Environmental impact analysis in the context of the widespread use of hydrogen-based technologies** (2010)
- Contract 361/2008, **Environmental impact studies and assessment report for the 400 kV Gădălin-Suceava OHL objective, including the interconnection at SEN** (2010)
- Contract 97/2010, **Assessment studies, environmental report, environmental impact report for the 400 kV interconnection OHL Resita (Romania) - Pancevo (Serbia)** (2010)
- Contract S443/2010 **400 kV LEA Iron Gates-Anina-Resita. Environmental impact assessment and assessment report** (2010)
- Contract nr. MMP 56/30.11.2010, **Air quality assessment with the identification of the main sources of emissions in order to achieve the objectives set out in the national strategy for the protection of the atmosphere and the commitments assumed by the Treaty of Accession to the European Union; section IV: Air quality assessment by modeling the dispersion of air pollutants, for year 2009 according to the provisions of GEO no. 243/2000 on atmosphere protection, approved with amendments and completions by law no. 655/2001, with the subsequent amendments and completions and of the MAPfM order no. 745/2002 on the establishment of agglomerations and the classification of agglomerations and areas for air quality assessment in Romania, beneficiary Ministry of Environment and Forests.** (2010)
- Contract 73/2013 „**Inventory of combustion plants with a rated thermal input <50 MW and fixed engines with spark or compression ignition and assessment of the contribution of their emissions to the total emissions of air pollutants**”, beneficiary Ministry of Environment and Climate Changes (2013)
- PN 18 26 02 04 **Geomorphological research on the evolution of the Bala Branch - Danube in the context of the hydrotechnical works-win-win solution of DKL-B-C type of flow redistribution in favor of the Old Danube, Phase PN 18 26 02 04.1 Analysis of the situation of the geomorphological evolution before and after the implementation of hydrotechnical works of the Bala-Danube Riverbed** (2018)
- Contract 4PS/2017 **Investigations regarding the development of monitoring, assessment and capitalization capacity of natural resources provided by Romanian wetlands of international importance and the Black Sea coastal area**, (2017-2018)
- Contract 238/2019 „**Completing the biodiversity knowledge level by implementing the conservation status monitoring system for the species and the habitats of Community interest from Romania and reporting under Article 17 of the Habitats Directive 92/43 / EEC.**”, activity „**Assessing the state of conservation-at the national level-of the fish species of Community interest and the determination of their favorable / unfavorable conservation status, according to Article 17 of the Habitats Directive 92/43 / EEC in order to achieve the country report**”, funded through Large Infrastructure Operational Program – senior GIS expert (2019 – 2022)

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Signature


