

Major projects

Nr.	University of Latvia Faculty of Geography and Earth Sciences Project name	Project implementation
1.	MIRACLE - Mediating integrated actions for sustainable ecosystems services in a changing climate	2015.-2019.
2.	Youth Mobility: maximizing opportunities for individuals, labour markets and regions in Europe (YMOBILITY)	2015.- 2018.
3.	A Systems Approach Framework for Coastal Research and Management in the Baltic	2015.- 2017.
4.	COST ES1201"Networking Lake Observatories in Europe (NETLAKE)"	2016.
5.	Copernicus Services_CAMS_95g_Siauliai for the provision of a use case on a personal allergy symptom forecasting system	2017.-2019.
6.	COST Action CA16109 Chemical On-Line cOmpoSition and Source Apportionment of fine aerosol, COLOSSAL;	2019.
7.	New approaches in detection of pathogens and aeroallergens	2020.
8.	Baltic University Programme Students Scientific Conference Sustainable Development of Communities - Ratnieki	2016.
9.	Preparing Learning about Resource Efficiency Leading into Circular Economy project	2017.- 2018.
10.	InPhos - Sustainable Management of Phosphorus in Baltic countries	2017.- 2020.
11.	A Systems Approach Framework for Coastal Research and Management in the Baltic (BaltCoast)	2015.- 2017.
12.	MIRACLE - Mediating integrated actions for sustainable ecosystems services in a changing climate	2015.- 2018.
13.	Climate change education for all	2015.- 2016.
14.	Properties and application potential of biomass ashes	2016.- 2017.
15.	Delimitation of the Riga Agglomeration	2017.- 2018.
16.	Research of anthropogenic influence to Balvu and Pērkonu Lake ecosystems	2018.-2019.
17.	Approbation of nanosensory methods for controlling odor pollution in the atmosphere in Saldus municipality;	2018.-2019.

Major projects

18.	Studies of impact by peatland burning on the environment and bog recovery intensity	2019.-2021.
19.	Scientist in Kemerī	2019.-2020.
20.	Creation of exposition of sandstones in the Museum of Mazsalaca Municipality.	2017.
21.	Characterisation of black currant seed oil chemical composition and application potential for standardisation of manufacturing process	2017.
22.	Development of Digital Land and Soil Database of Latvia for support of sustainable land management	2014.- 2016.
23.	Determination of concentrated groundwater flow with tracer experiment within Riga HPP	2015.- 2016.
24.	Analysis and identification of natural substances	2015.- 2016.
25.	Analysis and identification of natural substances	2016.
26.	Elaboration of the 3D geological model of the Pļaviņas hydropower plant surrounding	2016.
27.	Analysis and identification of natural substances	2017.- 2018.
28.	Analysis and identification of natural substances	2017.- 2020.
29.	Elaboration of management recommendations based on hydrological and hydrogeological investigations of the geological nature monuments "Bārbele sulfur spring" and "Dzērves-Bērziņu springs"	2017.- 2018.
30.	Using historical maps to explore cultural monuments and work with maps in the WMS environment	2017.
31.	Humic matter extraction from peat and isolation of humic and fulvic acids as commercial products	2018.- 2019.
32.	Investigations of Mazuika lake trophic state and elaboration of management recommendations	2017.- 2019.
33.	Fractional composition and distribution of particulate matter pollution caused by Ltd CEMEX company;	2018.
34.	Assessment of "Lasmala" quarry excavation impact on water level fluctuations in nearby scenic pond	2018.
35.	Frost Heave Properties Assessment of the Soils for the Road Pavement design	2018.- 2020.
36.	Aerodynamic characterization of dust fence in the territory of "RCoT" Ltd. and "STREK" Ltd. (Freeport of Riga, Krievu Sala, Zila Street 25);	2018.

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37.	Humic matter sample production as commercial product prototype	2018.- 2019.
38.	Determination of volatile chemical compounds in essences.	2019.- 2020.
39.	Development of military noise propagation modelling application.	2019.
40.	Evaluation of the impact of the CAP on habitats, landscapes, biodiversity	2019.
41.	Vegetation monitoring in Kemer National Park	2019.
42.	Periodic hydrological monitoring in Kemer National Park	2019.
43.	Development and aprobatation of methodology for monitoring mire management measures and vegetation and hydrological monitoring in Kemer National park	2019.
44.	Test of plant growth-affecting activity of humic products with vegetable and cereal	2019.
45.	Integrated planning tool to ensure viability of grasslands (LIFE Viva Grass)	2014.- 2019.
46.	Restoring EU priority grasslands and promoting their multiple use (GrassLIFE)	2018.- 2023.
47.	Strengthening and transferring intellectual capital between geographers in Latvia and Norway	2015.- 2016.
48.	Integrated Doctoral Program for Environmental Policy, Management and Technology - INTENSE	2018.- 2020.
49.	Localized Learning Approach to Urban Studies and Planning in the Baltic Sea Region	2016.- 2017.
50.	Water emissions and their reduction in village communities – villages in Baltic Sea Region as pilots (VillageWater)	2016.- 2019.
51.	Creating aligned studies in Resource Efficiency (Crea-RE)	2018.- 2020.
52.	Joint management of groundwater dependent ecosystems in transboundary Gauja-Koiva river basin (GroundEco)	2018.- 2020.
53.	Market driven authentic Non-Timber forest products from the Baltic region - focus on wild and semi cultivated species with business potential (NovelBaltic)	2019.- 2021.
54.	Book "Latvijas zeme, daba, tauta, valsts" - preparation and publication	2016.- 2017.
55.	New data about nitrate load on groundwater within common sediments in Latvia	2017.- 2018.

Major projects

56.	Development of background and threshold values for Latvian groundwater bodies	2018.- 2019.
57.	Vaccinium genus berries: green technologies and pharmaceutically characterised products for biopharmacy	2017.- 2020.
58.	Gasification technology for variable composition municipal solid waste	2017.- 2020.
59.	Innovative Use of Fen Peat in Environmentally Friendly Applications	2017.- 2020.
60.	Comparison of subglacial and ice-marginal formations and processes at the outer zone of the south sector of the Scandinavian Ice Sheet and at the contemporary glaciers in Greenland, Iceland and Antarctic	2017.- 2020.
61.	Formula of peat-free soil conditioner with controlled-release fertilizing effect applicable for soil remediation and quality improvement of agricultural production	2017.- 2020.
62.	ESCALATOR: internationalisation, youth labour market performance, regional and human capital disequilibria in Latvia	2017.- 2020.
63.	Developing New Tools for the Sustainability Assessment of the Bioeconomy	2017.- 2019.
64.	Climate change impact on phytophenological phases and associated risks in Baltic region	2019.- 2021.
65.	Development of Pollen data fusion and assimilation: Real-time Monitoring and Modelling for public health (PREMIUM)	2019.- 2021.
66.	The role of new woodlands in the change of spatial structure of Latvian landscapes from 1967 to 2017	2019.- 2021.
67.	Innovative technologies for stabilization of landfills - diminishing of environmental impact, and resources potential in frames of circular economy	2020.- 2023.
68.	Groundwater and soil water regime under climate change	2020.- 2023.
69.	Energy efficient and low-carbon solutions for a secure, sustainable and climate variability reducing energy supply (LATENERGI)	2014.- 2017.
70.	Evaluation of mineral resources for diversification of raw materials and development of new technologies (GEO)	2014.- 2017.
71.	Peat, sapropel, clay properties and modification studies	2014.- 2017.
72.	Environmental Diversity and Sustainable Management	2014.- 2017.
73.	Habitat fragmentation and effect of abiotic factors	2014.- 2017.

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74.	National Research Programme of Latvia, "The value and dynamic of Latvian ecosystems under changing climate EVIDEnT" project "Groundwater research"	2014.- 2016.
75.	Renewal of society through reducing the risk of depopulation, through demographic development and strengthening links with the diaspora for the transformation of the Latvian economy" (project no. 5.2.4.) of the National Research Program: "Economic Transformation, Smart Growth, Governance and Legal Framework for the State and Society for Sustainable Development - a New Approach to the Creation of a Sustainable Learning Community (EKOSOC-LV)"	2014.- 2017.
76.	Towards sustainable development and inclusive society in Latvia: response to demographic and migration challenges (DemoMig)" (project no. VPP-IZM-2018/1-0015) of the National Research Program: "Latvian heritage and future challenges for the country's sustainability	2018.- 2021.
77.	Changes in Climate System Stability in Latvia and Impacts on Biogeochemical Flows of Substances Limiting Surface Water Quality	2013.- 2016.
78.	Causes and effects of formation of marginal areas in Latvia", Latvian Council of Science research project No 514/2012	2013.- 2016.
79.	Peat humic substances: properties, structure and modification possibilities	2018.- 2021.
80.	Influence of tidal regime and climate on the Middle-Late Devonian biota in the epeiric Baltic palaeobasin	2018.- 2020.
81.	Spatial and temporal prediction of groundwater drought with mixed models for multilayer sedimentary basin under climate change	2020.- 2022.