

Annex A "Green, resilient and sustainable development"

Summary of ideas

from the 1st Networking Workshop in Skuodas (24.05.2022.) submitted before the event and elaborated during the workshop in 5 thematic groups: Water Management, Climate change, Waste management, Nature capital & Biodiversity and Capacity building.

1. Water Management:

- Sustainable water management
- Wastewater treatment
- Restoration of water ecosystems

Торіс	Proposed and discussed project ideas		
Sustainable water management	 1.1. "Cross-border sustainable water management in protected areas". Infrastructure investments to clean the wastewater from harmful materials (focusing on the action reducing the eutrophication and loss of biodiversity) & a cooperation among emergency services. Initiator: LIT / Neringa Partners: LAT / Tukums Budget: 600 000 € 	1.2. Recommendations for local regulations for placement and using of floating houses in public waters Initiator: LAT / Nature Conservation Agency	 1.3. Free water stations & water refill pints in public outdoors Initiator: LAT / Dienvidkurzeme Partners: LIT / Kretinga + LAT / Talsi LIT / Šilute + LAT / Saldus LIT / Skoudas LAT / Liepāja, Tukums, Kuldīga Budget: 90 000 €
Wastewater treatment	1.4. Artificial wetlands as wastewater treatment in small settlements, few houses (decentralised). Improvement of effectiveness of wastewater treatment plants (e.g., in tourism season – from decentralised sewage systems ->	 1.5. To create test basins with plants to clean-up wastewater (specially to clean up the nutrients & phosphorus) – an artificial swamp Initiator: LIT / Žemaitija NP Partners: LAT / BEF Latvia (NGO) 	1.6. Development of water management and provide sustainable water management services, improved wastewater collections, treatment, collection of rainwater in Dienvidkurzeme district area (Pāvilosta) Initiator: LAT / Dienvidkurzeme



	example in Engure village, Tukums municipality Initiator: LAT / Latvian Environment, Geology and Meteorology Centre (LEGMC) – project Goodwater IP (LIFE) 1.7. Reconstruction of wastewater treatment plants in Nīgrande village Initiator: LAT / Saldus	1.8. Cleaning of the Kursīši pound (in village), installation of water intake wells for firefighters and farmers for irrigation (water reuse) + Tukuma municipality with our pounds to cover larger territory Initiator: LAT / Saldus, Tukums, State Fire & Rescue service of Latvia Partners: LIT / Kretinga	 1.9. Development of water management and implementation of long-term programmes. Provide sustainable water management services that comply with EU and national rules: replacement of water supply networks and sewer nets, improved wastewater collection, treatment, collection of rainwater etc. (in such parishes as Ance, Puze, Pope, Ugale, Varve, Ziras) Initiator: LAT / Venstpils district Budget: 600 000 €
Restoration of water ecosystems	 1.10. Removal of dams on rivers. Identification of purpose of human- made dams (sluices, pile of stones etc. – such obstacles are already identified in other project), identification of owners (landowners) and removal of obstacles in rivers that are impacting water ecosystems (fish migration, flow interruption etc.). Restoration of water biotopes (ecosystems) Initiator: LAT / Latvian Environment, Geology and Meteorology Centre 	 1.11. Removal of beaver dams in rivers, restoration of streams and migration of aquatic organisms (Tukums) + Dam restoration – restore human made dams to maintain hydrological regime (Žemaitijos NP) Initiator: LAT / Tukums (Silva Ivuškāne) Partners: LIT / Žemaitija NP 	 1.12. Restoration of biotopes in polder systems: -research of quality of biotopes, water quality & hydrological regimes in polders -restoration measures (selection) -innovative solutions (floating islands Initiator: LAT / Latvian Environment, Geology and Meteorology Centre (LEGMC) – project Goodwater IP (LIFE)



(LEGMC) – project Goodwater IP (LIFE) Partners: LIT / Kretinga 1.13. Renewal / improvement of drainage systems (main rivers / biggest tributaries) to improve lateral connectivity (hydro morphologic changes that must be minimised). Initiator: LAT / Latvian Environment, Geology and Meteorology Centre (LEGMC) – project Goodwater IP (LIFE)	 1.14. Survey in lakes (on necessary hydrological level) - is there needed any changes / have changes impacted the natural biota in the lake. Elaboration of management plan, improvement of biotopes within the lake/lake shore (incl. removal of woody debris, improve spawning area etc.) + Durbe lake runoff treatment (Dienvidkurzeme) Initiator: LAT / Latvian Environment, Geology and Meteorology Centre (LEGMC) – project LIFE Goodwater IP Partners: LAT / Dienvidkurzeme, Nature Conservation Agency 	 1.15. Restoration of Alekšupīte river and cleaning of riverbanks as a part of improving Venta River basin ecological quality (Kuldīga) Initiator: LAT / Kuldīga
 1.16. Restoration of Ciecere river ecosystem in Saldus city – riverbed cleaning, strengthening of the banks (Saldus) Initiator: LAT / Saldus district Partners:LIT / Neringa 	 1.17. Restoration of Winija river shores (Klaipeda district / Mindaugas Š.) Initiator: LIT / Klaipeda district 	1.18. Cleaning of rivers Rążė, Žiogupis and Ošupis, restoration of streams, reduction of plastic waste and sludge. Initiator: LIT / Palanga
1.19. Cleaning Būšnieku lake from sludge + the same for the Ciecere river & recreational spots for mental / physical wellbeing along the river in Saldus. Initiator: LAT / Ventspils Partners: LAT / Saldus		



2. Climate change:

- Climate change / Extreme weather risks (storms, flood, drought, forest-fire, coastal erosion, sediment accumulation)
- Adaptation to the climate change
- Cooperation & Capacity building of Emergency services
- Climate change / Energy efficiency & Climate neutrality
- Climate change / Sustainable transport (infrastructure, safety, cycling)

Торіс	Proposed and discussed project ideas		
Climate change & Extreme weather risks (storms, flood, drought, forest-fire, coastal erosion, sediment accumulation)	2.1. "Mitigation of flood risks in Lake Usma" According to the opinion of a certified hydrotechnical building specialist on the hydrological situation in the River Engure from Lake Usma to the hydronode of the Vecdzirnavas and Gravas HES and possible hydrotechnical measures to improve the drainage of Lake Usma is needed. Initiator: LAT / Venstpils district Budget: 200 000 €	 2.2. Flood prevention - flood situation analysis in Šilute and Latvia (Liepāja?) region. Restoration polder (big water pumping station). Fire & rescue service will buy equipment and do exercise in Lithuania and Latvia. Initiator: LIT / Fire & Rescue department of Lithuania & LAT / State Fire and Rescue Service of Latvia Partners: LIT / Kretinga + LAT / Saldus would be interested (last analysis 2021) LIT / Šilute & LAT / Liepāja LIT / Klaipėda university 	 2.3. "Integrated coastal erosion management solutions in protected areas". Project aims are: -to identify coastal erosion problems and to create their map, -to collect the best examples of coastal management and -to organize trainings and good practice exchange for practitioners, practical recommendations for some problematic coastal areas (identified during the project) based on eco-system approach Initiator: LIT / Klaipėda district Partners: LAT / Tukums Budget: 600 000 €
	2.4. Prevention of coastal erosion Initiator: LAT / Talsi Partners: LAT / Tukums	 2.5. Establishing a support system for innovative and sustainable adaptation to climate change to reduce coastal erosion. Initiator: LAT / Liepāja Partners: LAT / Dienvidkurzeme (Pāvilosta) 	 2.6. Readiness & Adaptation options of port (both large & small) infrastructure to climate change effects – extreme storms, water level rise Initiator: LAT / Latvian Institute of Aquatic Ecology Partners: LAT / Tukums



Adaptation to the climate change	 2.7. Promotion of nature-based solutions to address climate change challenges; Support work on climate adaptation plans, bring some experience from projects in Zemgale region (BEF) Initiator: LAT / BEF Latvia - room for rivers & heat way protection (planting) 	 2.8. (Smart) information system for the society Initiator: LIT / Klaipeda university Partners: LIT / Šilute 	2.9. Reduction on an air/water pollution reduction building up green spaces to prevent air smells. Air pollution prevention working plan. Initiator: LIT / Klaipeda region
Cooperation & Capacity building of Emergency services	2.10. Building a road for rescue services for access to the sea at Liepene, Labrags and Ovīši Initiator: LAT / Venstpils Partners: LAT / Tukums, State Fire and Rescue Service of Latvia	2.11. "Building a road for rescue services for access to the sea". There are difficulties for rescue service to access to the sea, the distance to the nearest State Fire and Rescue Service < 23 km. The aim is to build a road for rescue services to access to the sea in Jūrkalne parish (Labraga beach and Osvalku beach), Užava parish (Užavas beach). LAT / Ventspils district Partners: LAT / Dienvidkurzeme Budget: 105 000 €	 2.12. "Safe beaches in Lithuania and Latvia" / Project aims to install information and surveillance systems at the Baltic Sea beaches. Also, including awareness raising, civil protection to mitigate the loss and risks in natural disasters (e.g., storms etc.). + Safe beaches in Latvia and Lithuania" / Installing surveillance systems at the Baltic Sea beaches (Liepāja) Initiator: LIT / Neringa & LAT / Liepāja Partners: LAT / Tukums, Talsi, State Fire and Rescue Service of Latvia LIT / Kretinga, Klaipeda district, Palanga Budget: 200 000 €
	2.13. Coastal access for swimming and rescue missions on water (boat landing areas). Water supply for rescuers. Hydrant modernisation & infrastructure + improvement, modernisation of hydrants for the rescue services (purchase equipment for getting access to water from hydrants - Klaipeda district)	2.14. "Access to rescue equipment" Rescue missions on water creating coastal access for boats for rescue mission. Creating rescue equipment containers on the beaches. Cooperation in preventive measures Initiator: LAT / State Fire and Rescue Service of Latvia	2.15. Strengthen capacity in terms of climate change combating disaster (floods) - capacity building of rescue services & civil protection plans & joint exercises & preventive measures in cooperation with local municipalities & ensuring help and info centres Initiator: LAT / State Fire and Rescue Service of Latvia



	Initiator: LAT / State Fire and Rescue Service of Latvia + LIT / Klaipeda district Partners: LAT / Tukums & LIT / Kretinga		Budget: 200 000 €
Climate change / Energy efficiency & Climate neutrality	 2.16. Improving energy efficiency in municipal building and apartments buildings Initiator: LAT / Dienvidkurzeme Budget: 200 000 € 	 2.17. SEAP (sustainable energy action plan) or SECAP (sustainable energy and climate action plan) preparation (according to spec. methodologies) for climate change projects, experience exchange visits (Palanga) + make energy efficient project for municipality buildings and schools (Ventspils district) Initiator: LIT / Palanga & LAT / Ventspils district Partners: LIT / Kretinga, Skoudas LAT / Tukums, Kuldīga district - interested to join a project for capacity building in field of energy efficiency & green infrastructure 	 2.18. Increase the power of electricity sets Initiator: LIT / Skoudas
	 2.19. Development of zoning of wind park territories for Saldus region. Regulation for the management of valuable landscapes territories for Saldus region. Initiator: LAT / Saldus 		
Climate change / Sustainable transport (infrastructure, safety, cycling)	2.20. "To develop mobility plan for Liepaja and Southern Kurzeme region, including issues to be solved jointly in the field of transport". Develop a plan covering the following issues: (1) construction of a bypass,	2.21. "Sustainable mobility in cross border region" Preparation of Expert study on sustainable mobility in cross border region Initiator: LIT / Palanga town	2.22. Integration of energy efficient transport & creation of map for charging stations for e-vehicles & making a cost-efficient plan for supported region. Initiator: LAT / State Fire and Rescue Service of Latvia



st (3) at (4) ce th im (5) m ec in L C P P m B	 2) multimodal mobility point (in the tation/bus station area), 3) pedestrian and cycling infrastructure it the city borders, 4) public transport to development entres (primarily Nīca, Grobiņa, where here is a greater concentration of nhabitants), 5) other issues to be solved by joint nobility (identifying needs, socio-economic justification, necessary nvestments, and investment priority). nitiator: LAT / Dienvidkurzeme County Partners: Expected 3-4 partners – nunicipalities Budget: 70 000 € 	Partners: Expected 3-4 partners – municipalities	
E ef ri (F te	2.23. (Kurzeme Region)-R 3.5.1. Establishing a monitoring system for the effects of climate change assessment and isk monitoring Kurzeme Region)-R 4.3.2. Smart echnologies to traffic flow control environmental monitoring) Partners: Kuldīga, Ventspils	 2.24. Mobility centres "Bike & Ride" – create a small infrastructure for bicycles, storages, etc. Initiator: LIT / Klaipeda district Partners: LAT / Saldus, Kuldīga, Tukums, Dienvidkurzeme district LIT / Kretinga, Šilute, Klaipeda district, Žemaitijos NP 	

3.Waste management:

- Waste management (sorting, reduction, reuse, composting etc.)
- Circular economy
- Marine pollution (waste, pharmaceuticals, microplastics etc.) & join waste management activities
- Pollution reduction & Remediation of contaminated sites



Торіс		Proposed and discussed project ideas		
Waste management (sorting, reduction, reuse, composting etc.)	3.1. Waste reduction in local level, separate waste collection systems in Dienvidkurzeme region. Initiator: LAT / Dienvidkurzeme district	3.2. Development of smart waste management system to inform public hoe to sort the waste. Initiator: LIT / Šilute district	3.3. Sorted waste system in graveyard	
	 3.4. Sanitary problems. Dog poo, educational activities, health issues. Seaside festivals & events (garbage afterwards). Initiator: LIT / Neringa Partners: LAT / Tukums 	3.5. Waste management & education about waste sorting Pollution & Rubbish in the forests	 3.6. What to do with biowaste? System. Gathering places +Leaves & grass cut problem & composting sites. Protected areas (Neringa). Burning container solution (Klaipeda university) Municipalities will have to gather the food waste. Circular solution (Kretinga) Sorting places for biological waste & transporting the waste (Kuldīga) Initiator: LIT / Neringa, Klaipeda university, Kretinga, LAT / Kuldīga Partners: LIT / Klaipeda district, Skoudas, Plunge, Žemaitija NP, Curoninan Spit NP 	
	 3.7. Awareness building among society: reducing of waste – sustainable behaviour through reuse of the things (households & individuals) Initiator: LAT / Saldus district Partners: LIT / Skoudas 			
Circular economy	3.8. Establishment of an open workshop space for the reuse and repair of goods. Actions to promote sustainable consumer behaviour.	3.9. Awareness, education, implementation of the circular economy. Initiator: LAT / Talsu district	3.10. Waste as a resource-beached seaweed uses in small/medium local business.	



	+ large scale things repairing & reusing + using second time things Initiator: LAT / Saldus Partners: LIT / Klaipeda district		Development of new products based on research (applied) results. Gathering of beached seaweed- permit issued by local authority Initiator: LAT / Latvian Institute of Aquatic Ecology (LIAE)
Marine pollution (waste, pharmaceuticals, microplastics etc.) & join waste management activities	 3.11. Evaluation, monitoring and reduction of plastic waste pollution on the Latvian-Lithuanian coast, using innovation and raising of public environmental awareness Initiator: LAT / Dienvidkurzeme district Budget: 500 000 € 	3.12. Seal pollution. Removing chemicals polluting sea waters. CBRN accidents Initiator: LAT / State Fire and Rescue Service of Latvia	3.13. Fuel pollution prevention in small ports Initiator: LIT / Neringa
Pollution reduction & Remediation of contaminated sites	 3.14. Pollution analysis. Analysis of potential degradation products of tires (Pape) Initiator: LAT / BIOR 	3.15. Cleaning up EU protected habitats from Soviet army pollution in protected areas. Car tire extraction from lake Pape. Initiator: LAT / Nature Conservation Agency	 3.16. Cleaning of industrial sites: oil polluted areas & industrial areas & military areas Initiator: LAT / Venstpils Partners: LAT / Liepāja LIT / Klaipeda district, Kretinga
	3.17. Restoration of the brownfield "Klinči" in Brocēni (approx. 1ha) concept development, infrastructure works (inlc. cleaning from asbestos) Initiator: LAT / Saldus		

4. Nature capital & Biodiversity:

- Protection and preservation of cross-border biodiversity & key species
- Safeguarding, maintaining, and restoring ecosystems & nature capital (landscape and natural assets)
- Green infrastructure promotion and integration



Торіс		Proposed and discussed project ideas	
Protection and preservation of cross-border biodiversity & key species	 4.1. Landscape elements (trees, alleys, parks) / Inventory of oak for osmoderma. Arborist work. Initiator: LIT / Žemaitija NP 	 4.2. Landscape elements (trees, alleys, parks) / Trees as nature, cultural, landscape heritage (separate tree, alleys, parks). Mapping of objects and identification of protected species on them. Development of reconstruction projects for protected areas. Involving of arborists for tree maintenance. + Upesmuiža manor park (Pāvilosta) & Vērgale manor park (Dienvidkurzeme) + management of manor parks etc. in Ezere, Remte, Jaunauce, Jaunlutriņi (Saldus) Initiator: LAT / Nature conservation agency Partners: LAT / Dienvidkurzeme, Tukums, Saldus LIT / Kretinga, Neringa, Žemaitija NP 	4.3. The cross-border route of preservation of the natural heritage of Latvia and Lithuania. Create a border route with viewing cultural, nature and historical objects and visits to local people and small businesses. Improving nature's walking routes around potential night accommodation so that people can spend their spare time according to nature developments and support small tourism services businesses. Initiator: LAT / Nature conservation agency Budget: 600 000 €
	 4.4. Research on the impacts of existing infrastructure on species and habitats, identifying the most sensitive types of habitats. Develop the best solutions for the development of natural infrastructure in the border region based on Lithuania and Latvia's habitat mapping data. Initiator: LAT / Nature conservation agency Budget: 600 000 € 	 4.5. Reintroducing species into the territory. Restoration of wild salmon rivers habitats & reintroduction of turtles (endemic species) in Žemaitija NP. + Underwater habitats: management & seascape protection (LIAE) Initiator: LIT / Žemaitija NP Partners: LAT / Latvian Institute of Aquatic Ecology (LIAE), BIOR 	



Safeguarding, maintaining, and restoring ecosystems & nature capital (landscape and natural assets)	 4.6. Hydrological regime / Renovation of important amelioration system of the Municipality including land properties owned by the Local Municipality. The result: increasing the value of local government land properties, arranged amelioration systems in municipal land properties. Initiator: LAT / Ventspils district Budget: 150 000 € 		
Green infrastructure promotion and integration	 4.7. Biodiversity in urban areas / Ciecere river coastal area restoration of Ciecere ecosystem strengthen of banks, plants, spots for mental / physical wellbeing for all ages in Saldus town Initiator: LAT / Saldus Partners: LIT / Kretinga 4.10. Infrastructure / Walking trail 	 4.8. Biodiversity in urban areas / Development strategy & plan: 1) of Kalnsētas parks (Saldus town) & 2) Mežaparks Park (Brocēni). Territory improvements around the Ciecere lake lookout tower Initiator: LAT / Saldus 4.11. Infrastructure / Building velo road 	 4.9. Biodiversity in urban areas / Biodiversity in cities, role of urban green areas for pollination, air quality protection etc. Initiator: LAT / BEF Latvia Partners: LAT / Liepāja, Tukums LIT / Klaipeda district 4.12. Infrastructure / Construction of
	along Venta River as part of green infrastructure, ecosystem services and for reducing of anthropogenic load) for improving of ecological quality of Venta River basin and Natura2000 territory Initiator: LAT / Kuldīga	& walking road from walking bridge over river Irbe and on old train railway Initiator: LAT / Ventspils district Partners: LIT / Klaipeda District	pedestrian & bicycle path along Būšnieku lake (approx. 700 m long) Initiator: LAT / Venstpils city (Zane) Partners: LIT / Kretinga
	 4.13. Infrastructure / Construction of combined pedestrian / bicycle path along the planned Mežparka street & Kāpu promenāde in Ventspils (length – approx. 700m, width – 3m) Initiator: LAT / Venstpils Partners: LAT / Pāvilosta, Dienvidkurzeme County 	4.14. Infrastructure / Construction of combined pedestrian & bicycle path along Baltic Sea woods Initiator: LAT / Venstpils city Partners: LAT / Tukums	 4.15. Infrastructure / Protection of dunes, trails infrastructure in the Pāvilosta town and Dienvidkurzeme district seaside & reduced anthropogenic load in Dienvidkurzeme district Baltic seaside Initiator: LAT / Dienvidkurzeme Partners: LAT / Liepāja, LIT / Neringa



4.16. Infrastructure / Development of pedestrian & cycling path	
LIT / Klaipeda district	
Partners: LAT / Dienvidkurzeme	

5. Capacity building:

- Strengthen the role and competence of municipalities in the sustainable management of environmental issues & use of natural resources
- Awareness building among society regarding to sustainable management of environmental issues & use of nature resources
- Educational campaigns on waste reduction & sorting & reuse & composting (municipalities, inhabitants, entrepreneurs) (ideas about awareness raising on waste reduction & sorting added into the Waste management group).

Торіс	Proposed and discussed project ideas		
Strengthen the role and competence of municipalities in the sustainable management of environmental issues & use of natural resources	5.1. Strengthen the role and competence of municipalities in the sustainable management of environmental issues & the use of natural resources. Initiator: LIT / Palanga LIT / Klaipeda, Neringa, Kretinga	5.2. Topics for the education - green procurement, climate issues, chemicals management un municipalities through green procurements, for example, cleaning agents, building & renovation of municipal kindergartens, schools etc. Preparation of materials for the seminars, awareness raising, info days etc. Initiator: LAT / BEF Latvia (NGO) Partners: LIT / Neringa	 5.3. Capacity building with educational aspects for municipality specialists (schools), construction specialists (Construction Board) – on water management issues -> assessment of water quality (rivers, lakes) what actions should be taken, where and why, try to find most appropriate areas for implementation of measures (with supervision of environmental experts) and implement some measures by removal of woody debris building of artificial wetlands for nutrient removal etc. Initiator: LAT / Latvian Environment, Geology and Meteorology Centre (LEGMC) – project Goodwater IP (LIFE) Partners: LIT / Klaipeda district



	 5.4. Wise decisions for Nature - capacity building for the nature conservation, including: control systems for municipal policy, state inspectors; local government specialists, invasive species, valuable trees, protected species Initiator: LAT / Nature Conservation Agency Partners: LAT / Tukums district, Talsi district, Ventspils district LIT / Curonian Spit NP 	5.5. Better understanding of climate - impacts & adaptations for functioning of municipal services	
Awareness building among society regarding to sustainable management of environmental issues & use of nature resources	5.7. Strengthening capacity & awareness of stakeholders on ecosystems, green infrastructure concepts, planning management in urban & rural areas. Initiator: LAT / BEF Latvia (NGO)	5.7. Capacity building for water management – to organise training courses and workshops on specific water management issues. Initiator: LAT / BEF Latvia	







Annex A/1 ,,Green, resilient and sustainable development"

Summary of ideas

from previous Smart Planning events (Kuldīga Innovation Camp) & Municipalities / Regions Development programmes (April, 2022)

1.Water management

	Potential project partners
Sustainable water management	
 (Tukums) - Implementation of river basin management plans to achieve good surface water status (Klaipeda district) - Improvement of rivers and lakes water, fish stock (InnovCamp2) - preservation of water bodies (Ventspils) - Development of sustainable water management (Liepāja) - D_1.1.7. Promoting sustainable water management (Kurzeme Region) - R 3.3.4. Development of sustainable water management in municipalities 	LAT / Kurzeme region LAT / <u>Municipalities:</u> Liepāja Tukums Ventspils LIT / <u>Municipalities:</u> Klaipeda district
Wastewater treatment	
 (Saldus) - Arrangement of utilities in villages (water supply, sewerage, treatment) (Talsi) - Development of the water resource exploitation regulations (Klaipeda district) - e. Water and wastewater management and development projects (Ventspils) - 6. Introduction of renewable energy resources and improvement of energy efficiency of wastewater treatment technological processes in Ventspils (Ventspils District) - 2. Development of water management and implementation of long-term programmes. Provide sustainable water management services that comply with EU and national rules: Replacement of water supply networks and sewer nets, improved waste water collection, treatment, collection of rainwater etc. (in such parishes as Ance, Puze, Pope, Ugāle, Vārve, Ziras) 	LAT / <u>Municipalities:</u> Saldus Talsi Ventspils Ventspils District LIT / <u>Municipalities:</u> Klaipeda District
Collection and Use of Storm/Rainwater	
(InnovCamp2) – storm/rainwater collection & drainage systems; no good practices for rainwater management; possibility to use e.g., rainwater for plant watering (Tukums) - improvement of the communal infrastructure, arrangement and expansion of the rainwater collection and drainage system, water management development in cities and parishes of municipality (Kuldīga) - Improvement of rainwater drainage systems including the use of green solutions to reduce Venta pollution. (Liepāja) - JPr_8 Improvement of rainwater drainage systems (Klaipeda district) - d. Rainwater management: collecting, cleaning systems	LAT / <u>Municipalities:</u> Tukums Kuldīga Liepāja LIT / <u>Municipalities:</u> Klaipeda district







Restoration of water ecosystems		
(Kuldīga) - 1. Sustainable management of embankment infrastructure including preservation of biological natural values, ensured accessibility, reduced anthropogenic load in the nature reserve in Venta valley	LAT / <u>Municipalities:</u> Kuldīga LIT / <u>Municipalities:</u>	
Reduction of pollution		
(InnovCamp2) - Polluted areas in Kurzeme and Klaipeda region; cooperation possibilities to clean the polluted areas	LAT / <u>Municipalities:</u> LIT / <u>Municipalities:</u>	

2. Climate change

	Potential project partners	
Extreme weather risks (storms, flood, drought, forest-fire, coastal erosion, sediment accumulation). Prevention measures & infrastructure building		
 (Talsi) - Prevention of coastal erosion (Liepāja) - D_1.5.1. Create infrastructure to reduce anthropogenic load and prevent coastal erosion (Liepāja) - D_1.7.3. Establishing a support system for innovative and sustainable adaptation to climate change to reduce coastal erosion processes (Kretinga) - 2. Prevention of extreme situations (e. g. activities, strategies, infrastructure) (InnovCamp2) - Possibility of the infrastructure for flood management (Klaipeda district) - a. Flood prevention: renovation of water locks, embankments, pumping stations Kretinga - 4. Flood prevention: pumping stations 	LAT / <u>Municipalities:</u> Talsi Liepāja LIT / <u>Municipalities:</u> Klaipeda district Kretinga	
Joint monitoring activities		
(Kurzeme Region) - R 3.5.1. Establishing a monitoring system for the effects of climate change assessment and risk monitoring (Kurzeme Region) - R 4.3.2. Smart technologies to traffic flow control (environmental monitoring)	LAT / Kurzeme region LAT / <u>Municipalities:</u> LIT / <u>Municipalities:</u>	
Cooperation of Emergency services		
(Kurzeme Region) - R 3.5.2. Development of the civil protection system in the region (Klaipeda district) - b. Supply of municipal firefighters with equipment	LAT / Kurzeme region LAT / <u>Municipalities:</u> LIT / <u>Municipalities:</u> Klaipeda district	
Adaptation to the climate change		
(Liepāja) - D_1.7.2. Develop a model for adaptation to climate change and implement measures to protect the environment and use resources more efficiently (Liepāja) - D_1.7.7. Measures to reduce air pollution (Kurzeme Region) - R 3.3.1. Planning documents development and implementation of green and climate-neutral policies	LAT / Kurzeme region LAT / <u>Municipalities:</u> Liepāja Saldus	







(Saldus) - Improvement of the environment (clean surface water, saving electricity, low emissions)	LIT / <u>Municipalities:</u>
Energy efficiency & Climate neutrality	
 (Tukums) - construction and reconstruction of heating systems development in cities and parishes of municipality (Liepāja) - D_1.7.6. Development of municipality support mechanism to improve efficiency of local heating installations (Kurzeme Region) - R 3.3.3. Improving energy efficiency in households (D/Kurzeme) - Improving energy efficiency in municipal buildings and apartments building (Ventspils) - 5. Promotion of energy efficiency and reduction of greenhouse gas emissions in municipal institutions and municipal capital companies 	LAT / Kurzeme region LAT / <u>Municipalities:</u> Liepāja Tukums D/Kurzeme Ventspils
 (Kurzeme Region) - R 3.1.1. Use of sustainable energy in municipal buildings, connection of public buildings to centralized or local heat supply (Kurzeme Region) - R 3.1.3. Energy efficient business infrastructures and technological development, providing the transition of business to climate neutrality (Kurzeme Region) - R 3.3.2. Energy efficiency increasing of municipal building (incl. smart management solutions) (Ventspils) - 3. Use of energy from renewable energy sources in the provision of public services (Kretinga) - 1. The development and use of renewable energy (Palanga) - SEAP (sustainable energy action plan) or SECAP (sustainable energy and climate action plan) (Klaipeda district) - i. Initiatives to reduce energy consumption: public buildings renovation, green energy solutions, promotion of flat buildings renovation (InnovCamp2) - Sustainable energy action plan preparation – possibilities & benefits for local/regional alternative energy; sun batteries; modernization, renovation of energy efficient houses – energy efficiency modernisation 	LIT / <u>Municipalities:</u> Kretinga Palanga Klaipeda district
Sustainable transport systems (infrastructure, safety, cycling)	
(Kurzeme Region) - R 4.2.2. Sustainable multimodal mobility system development, incl. implementing innovative solutions (Kurzeme Region) - R 4.3.3. Environmentally friendly, modern and energy efficient mobility services (Liepāja) - D_5.1.1. Smart city infrastructure development construction (Saldus) - Development of mobility points (Saldus) - Development of micro mobility devices and infrastructure (Ventspils) - 15. Introduction and use of smart technologies to	LAT / Kurzeme region LAT / <u>Municipalities:</u> Liepāja D/Kurzeme Ventspils Saldus
promote sustainable, diverse mobility. (D/Kurzeme) - Electric school buses (Skoudas) - Installation of electric vehicle loading bays	LIT / Klaipeda region LIT / <u>Municipalities:</u> Kretinga Skoudas Klaipeda district







(Ventspils) - 1. Construction of a combined pedestrian / bicycle path along the planned Mežparka Street and Kāpu Promenade, Ventspils (length ~ 700m, width 3m) (Ventspils) - 2. Construction of a combined pedestrian / bicycle path in Staldzenes Street from the Boat Base to the existing pedestrian / bicycle path along Lake Būšnieki, Ventspils (length ~ 660 m, width 2 m)	
(Ventspils) - 7. Development of infrastructure and replacement of the vehicle fleet with environmentally friendly vehicles to improve the transport system and ensure accessibility for various social groups	
Kretinga - 3. Development of pedestrian and cycling paths (Klaipeda district) - f. Development of pedestrian and cycling paths (Skoudas) - Installation of cycle paths (InnovCamp2) - Bicycle roads, electric buses, charging stations for electric cars and another infrastructure	
(Klaipeda region) V.1.3.2. Development and implementation of a regional transport pollution reduction system – with recommendations and incentives (Klaipeda region) - V.1.3.3. Preparation of a plan of measures and recommendations for infrastructure that fits the development of green transport (Klaipeda district) - h. Development of safe public transport	
infrastructure: paths, bus stops, turnaround places	

3.Waste management

	Potential project partners
Waste management (sorting, reduction, reuse, composting etc.)	
 (InnovCamp2) – sorting of waste projects (residential areas in Skuodas, Klaipeda district, Palanga); information & education & knowledge for municipalities, inhabitants, entrepreneurs about waste sorting principles & necessity (Tukums) - development of waste management system, educate and inform the public about the principles of sustainable waste management, measures to promote waste sorting 	LAT / Kurzeme region LAT / <u>Municipalities:</u> Tukums LIT / <u>Municipalities:</u> Klaipeda district
(Kurzeme Region) - R 3.2.5. Waste management planning at regional level (InnovCamp2) – large-scale waste management	
(InnovCamp2) – Initial steps for zero waste business both Klaipeda region & Kurzeme region; zero waste production	
(InnovCamp2)- collaboration between sectors, we don't experience about industrial symbiosis, municipality soft activities	
(Klaipeda district) - j. Initiatives to reduce waste going to dump	







Circular economy	
(Kurzeme Region) - R 3.2.1. Waste reduction - reuse of resources. Cooperation between companies introducing a circular economy	LAT / Kurzeme region LAT / <u>Municipalities:</u> D/Kurzeme
(Kurzeme Region) - R 3.2.2. Landfills of waste transformation and adaption; waste reduction in local level; separate waste collection systems expansion; repair services development; promotion of the circular economy	Saldus
(Kurzeme Region) - R 3.2.6. Development of food redistribution system, incl. involving food banks and social entrepreneurs	LIT / <u>Municipalities:</u>
(Kurzeme Region) - R 3.2.7. Implement pilot projects in field of circular economy	
(D/Kurzeme) - Alternative energy extraction from waste	
(Saldus) - Establishment of biological waste sites; -Living the idea of circular economy in the community	
(InnovCamp2) – We do not know what do we do with bioeconomy and circular economy at the municipalities; Kurzeme region training for circular economy; circular economy principles – lack of knowledge on every day level	
Effective use and sustainable management of nature resources	
 (D/Kurzeme) - Development of brownfields for the needs of entrepreneurs (Saldus) - Continue the rehabilitation of brownfields, further development of facilities that help to adapt to climate change (Kurzeme Region) - R 3.4.1. Development of brownfields (Innovcamp2) - adjustment of brownfields; management of brownfields - very little activities; question about the ownership; EU funds available but little interest 	LAT / Kurzeme region LAT / <u>Municipalities:</u> D/Kurzeme Saldus LIT / <u>Municipalities:</u> Klaipeda district
(D/Kurzeme) - Renovation of land drainage system	
(Klaipeda district) - c. Restoration of areas affected by mining operations (Innovcamp2) - Recultivating of quarry & privatization process	
Marine pollution (waste, pharmaceuticals, microplastics etc.) & join waste management activities	
(InnovCamp2) - Clean sand from microplastic before falling into the sea	LAT <u>Municipalities:</u>
(Liepaja) - JPr_13 Evaluation, monitoring and reduction of plastic waste pollution on the Latvian-Lithuanian coast through innovation and public awareness raising	LIT <u>Municipalities:</u> Neringa
(Neringa) - Reduction of microplastic waste in the Baltic Sea	





4.Nature Capital & Biodiversity

	Potential project partners
Protection and preservation of cross-border biodiversity & key species	
(Kurzeme Region) - R 3.4.3. Habitat conservation and data collection for sustainable monitoring	LAT / Kurzeme Region LAT / <u>Municipalities:</u> Kuldīga
(InnovCamp2) - Protection of dunes, additional sand, trails infrastructure in the natural parks	LIT / <u>Municipalities:</u>
(Kuldīga) - 3. Water biodiversity preservation including overgrowth cleaning in the rivers	
Safeguarding, maintaining and restoring ecosystems & nature capital (lassets)	andscape and natural
(InnovCamp2) – challenges of the residential houses building in coastal & protected areas	LAT / <u>Municipalities:</u> Tukums Ventspils
(InnovCamp2) – nature protection & involvement of nature protection administrations	ventopilo
(Tukums) - ensure the preservation of natural values, implementation of measures for the management and protection of specially protected natural values and territories	LIT / <u>Municipalities:</u> Neringa
(Tukums) - develop and maintain an attractive and clean environment	
(Ventspils) - 12. Preservation of natural values in recreation places;	
(Neringa) - Preservation of natural landscape and natural assets in the protected recreational areas	
(Ventspils District) - Implementation of anthropogenic load reduction measures on the Baltic Sea coast. Measure reduction on implementation of anthropogenic load on the Baltic Sea coast. The result: developed infrastructure- docks, parking lots, etc. to reduce anthropogenic load on the Baltic Sea coast (in Targales parish)	
(Ventspils) - 13. Improvement of the Baltic Sea coastal infrastructure, incl. improving access to the environment	
(D/Kurzeme) - Improving access to the Baltic Sea (parking, exits, showers etc.)	
(Liepaja) - VPr_159 Preservation of natural values by developing public outdoor space in the coastal zone	
(Ventspils District) - Sustainable management of natural resources: Renovation of important amelioration system of the Municipality including land properties owned by the Local Municipality. The result: increasing the value of local government land properties, arranged amelioration systems in municipal land properties	







(Kurzeme Region) - R 3.4.2. Practical management of natural resources activities (pollution mitigation, habitat management, etc.) (Neringa) - The creation the joint solutions to mitigate the negative		
impact of recreational activities in the Baltic Sea and the Curonian lagoon		
Spread of invasive alien species		
(Liepāja) - D_1.5.6. Measures to reduce the spread of invasive and expansive plant species	LAT / <u>Municipalities:</u> Liepāja	
	LIT / <u>Municipalities:</u>	
Green infrastructure promotion and integration		
(Ventspils) - 11. Nature protection and biodiversity, preservation of "green" infrastructure, reduction of risks related to historically polluted territories;	LAT / <u>Municipalities:</u>	
(Liepaja) - D_1.6.1. Develop and implement a thematic plan for the green structure, following the principles of the natural capital and ecosystem management approach	LIT / <u>Municipalities:</u>	
(Liepaja) - D_1.6.6. Revitalization of degraded small garden areas, development of community gardens in an urban environment		
(Kurzeme Region) - R 3.5.3. Integrated and multifunctional blue and green infrastructure solutions		
(Ventspils) - 4. Green and blue infrastructure solutions to address climate change risks		
Restoration and management of bogs, fens, mires, other wetlands habitats		
	LAT / <u>Municipalities:</u> LIT / <u>Municipalities:</u>	

5. Capacity building

	Potential project partners
Strengthen the role and competence of municipalities in the sustainable environmental issues & use of natural resources	e management of
(Klaipeda district) - k. Municipality staff and stakeholders' capacity building (Kurzeme Region) - R 3.1.2. Municipality competence and capacity building in the field of energy and environment (Skoudas) - Dissemination of informative, educational video clips on the topic of environmental protection (Neringa) - Capacity building and the best practice of sustainable water (re)usage	LAT / Kurzeme region LAT / <u>Municipalities:</u> LIT / <u>Municipalities:</u> Neringa Skoudas







Strengthen capacity & knowledge of rescue services		
	LAT / <u>Municipalities:</u> LIT / <u>Municipalities:</u>	
Awareness building among society regarding to sustainable management of environmental issues & use of nature resources		
(Kurzeme Region) - R 3.5.4. Public knowledge, awareness and understanding of climate change (Ventspils) - 8. Emphasis on environmental protection issues and promotion of a higher level of environmental awareness in society (Ventspils) - 14. Knowledge transfer of sustainable real estate management (training of the organization's employees on sustainable real estate management) (Kurzeme Region) - R 3.4.5. Public information and awareness to the environment and sustainable nature resource management (Kurzeme Region) - R 4.2.5. Public awareness of environmentally friendly transport use (Neringa) - Capacity building of responsible fishery and cross-border green networking	LAT / Kurzeme region LAT / <u>Municipalities:</u> Ventspils LIT / <u>Municipalities:</u> Neringa	
Educational campaigns on waste reduction & sorting & reuse & composting (municipalities, inhabitants, entrepreneurs)		
(InnovCamp2) - Educational campaign on waste reduction & sorting (municipalities, society) (Ventspils) - 10. Promoting the transition to a circular economy; (Kurzeme Region) - R 3.2.3. Introduction of circular economy principles in production; transition to reusable and environmentally friendly use of raw materials in production technological solutions (Kurzeme Region) - R 3.2.4. Public awareness and education about circular economy (Kurzeme Region) - R 4.2.4. Promoting zero emission mobility	LAT / Kurzeme region LAT / <u>Municipalities:</u> Ventspils LIT / <u>Municipalities:</u>	

6. Other

	Potential project partners	
Short food supply chains & Productions		
(Klaipeda region) - I.1.5.1. Study of the interests and needs of local farmers, fisheries and aquaculture enterprises in relation to organic production, diversification of activities and RES production; And preparation of recommendations defining possible solutions for the development of these areas in the Region (Klaipeda region) - II.1.5.4. Development of short food supply chains in organizing catering services in public institutions (schools, hospitals, etc.) (Klaipeda district) - g. Development of short food supply chains in organizing catering services in public institutions (schools, hospitals, etc.)	LIT / Klaipeda region, Klaipeda district, Palanga, Skuodas LAT / D-Kurzeme district, Pāvilosta LIT / Žemaitijos NP will join Skoudas	
(Skoudas) - Implementation of short food chains in the region (purchase of necessary transport, installation of points of sale. Promotion activities).		







(Skoudas) - Conference on short food supply chains for local farmers (Skoudas) - Sharing good practice on short food supply chains for local farmers in practice (Skoudas) - Catering services in public institutions meetings with local farmers - needs analysis	
(Palanga) - Promoting sustainable recreational fisheries	
(InnovCamp2) - Establish logistic centres for short food supply chains in LT (InnovCamp2) - seed exchange, food innovations in Klaipeda region; planning to promote the local production (food, agriculture, fishery)	

