

Methodology on Functional Linkage between Marine and Terrestrial Areas

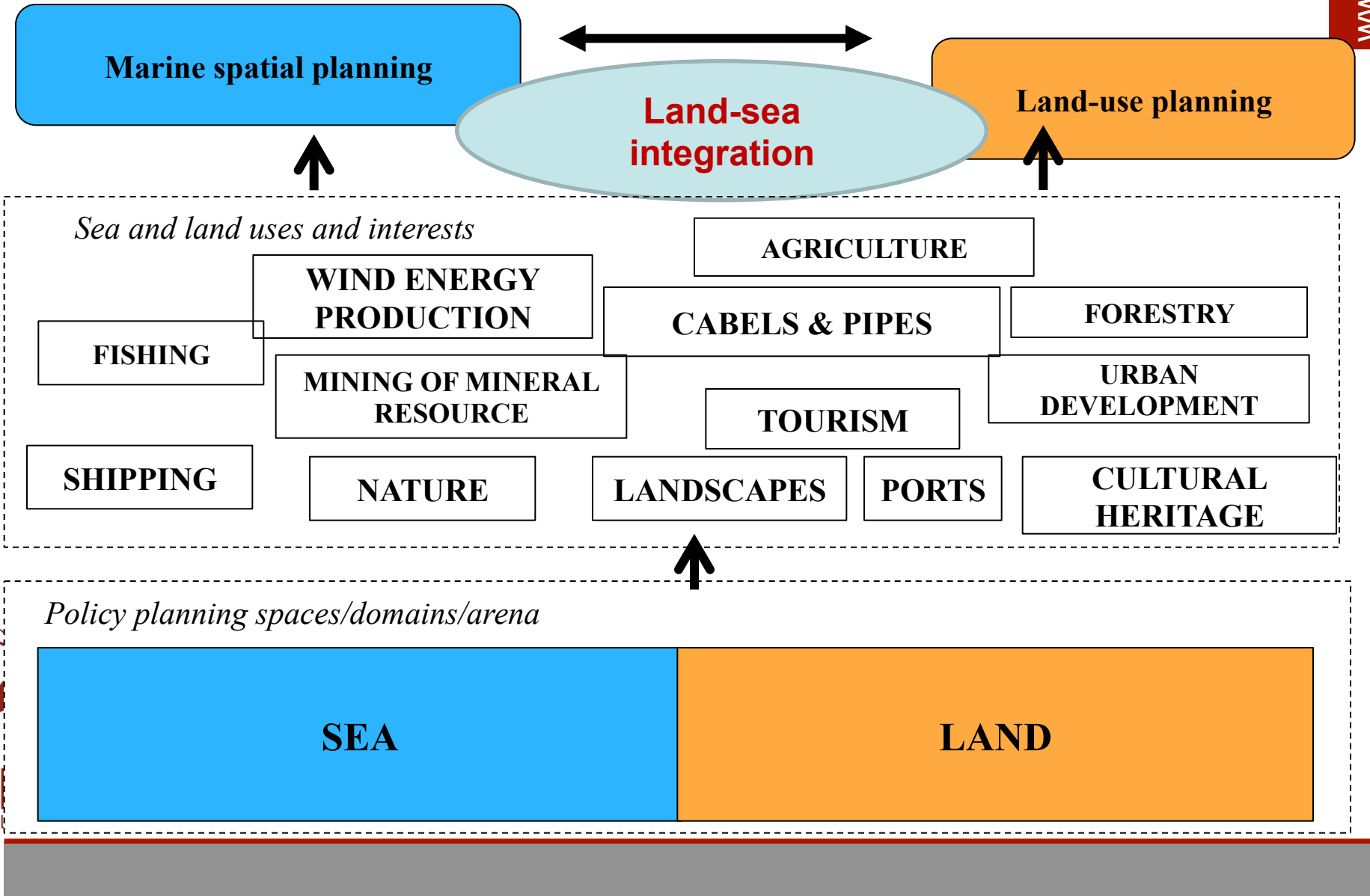
prepared within the frame of the project on “Coastal and Maritime Spatial Planning in Pärnu Bay Area and Coastal Municipalities of Latvia”

Anda Ruskule, Pärnu, May 2015

Content

- Background and context of the task
- Objectives and approach of the methodology
- Pilot testing of applicability of the methodology
- Solutions to ensure functional linkages between sea and land uses

Need for functional coherence



Need for functional coherence

- EC's policy on Integrated Coastal Zone Management (ICZM), adopted as Recommendations in 2002
 - Highlights an importance of coherence between sea- and land-based activities
- EC Road Map for Maritime Spatial Planning, 2008
 - 1 of 10 principles - finding coherence between terrestrial and marine spatial planning, particularly in relation to ICZM
- EC Communication on Maritime spatial planning in the EU—achievements and future development, 2010
 - planning from land to sea is crucial in particular for environmental aspects

Need for functional coherence

- Directive 2014/89/ of the European Parliament and of the Council of 23 July 2014 **establishing a framework for maritime spatial planning**.
 - The directive sets the land-sea interaction as one of the minimum requirements for MSP

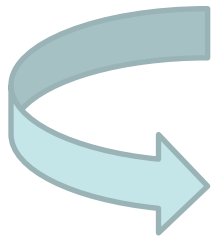


article 7 Land-sea interactions

- land-sea interactions should not form part of the MSP process as such, MS may use other formal or informal processes, such as integrated coastal management. The outcome shall be reflected in the MSP
- MS shall aim through MSP to promote coherence of the resulting maritime spatial plan or plans with other relevant processes

Objectives of the work

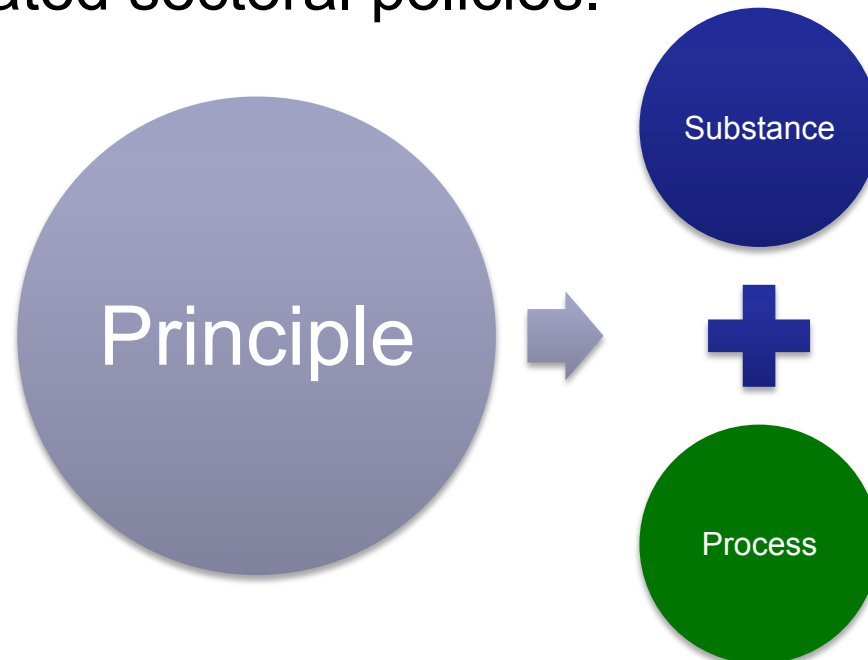
- To promote sustainable coherence between terrestrial and marine spatial planning domains
- To provide with methodological recommendations for improvements for national spatial planning policy



Methodology is targeted to planning authorities of all levels; indirectly to developers of sectoral policies

Approach

- Taking into account **linkages between land and sea uses** shall **not** be considered as a separate planning **process** but shall be rather treated as a **principle** to be implemented when developing either marine or land use plans and related sectoral policies.



Main **substance** related **steps** in the implementation of the principle

1. Characterise
land and sea
uses

3. Define
functional linkages
between uses



2. Identify
interactions and
impacts between
uses, sectors and
interests

4. Propose solutions
(spatial, legal) for
different levels

Demonstration in the pilot area

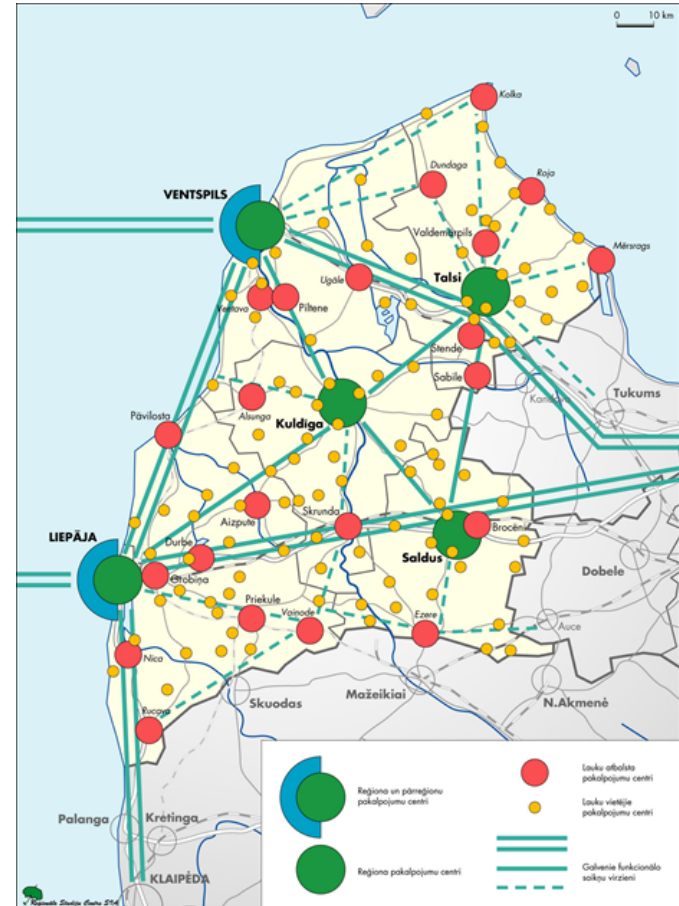
- Liepaja city
- Grobina county:
 - Medze parish
- Pāvilosta county:
 - Vergale county
 - Saka county
 - Pāvilosta city



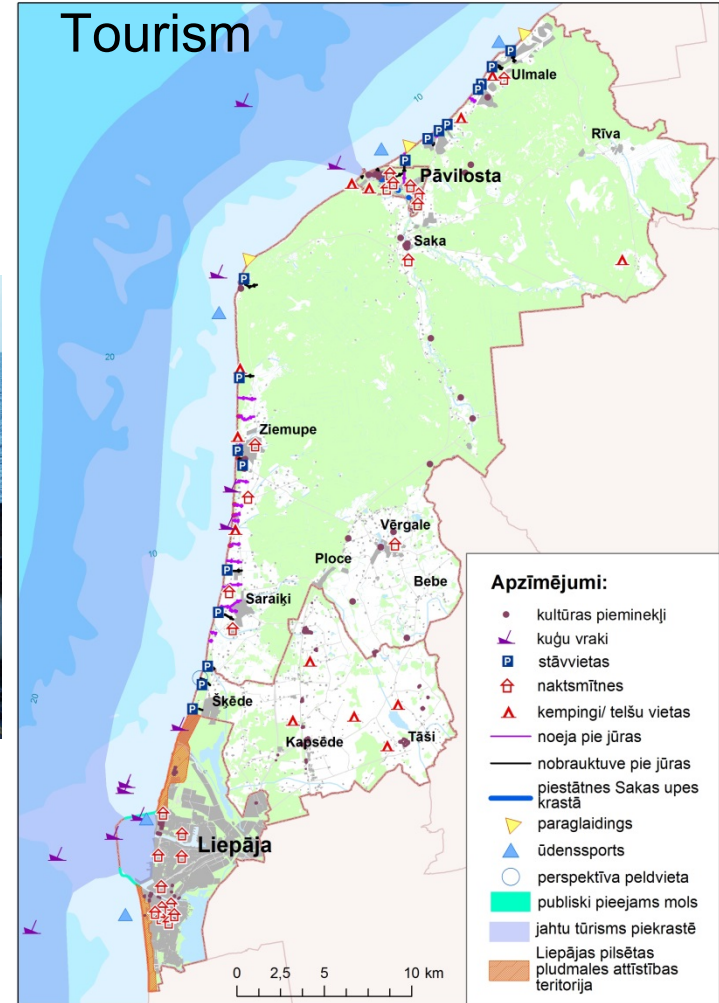
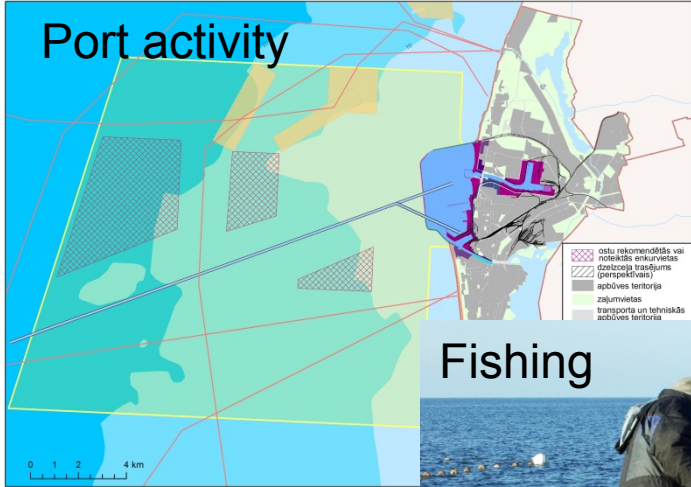
Step 1.

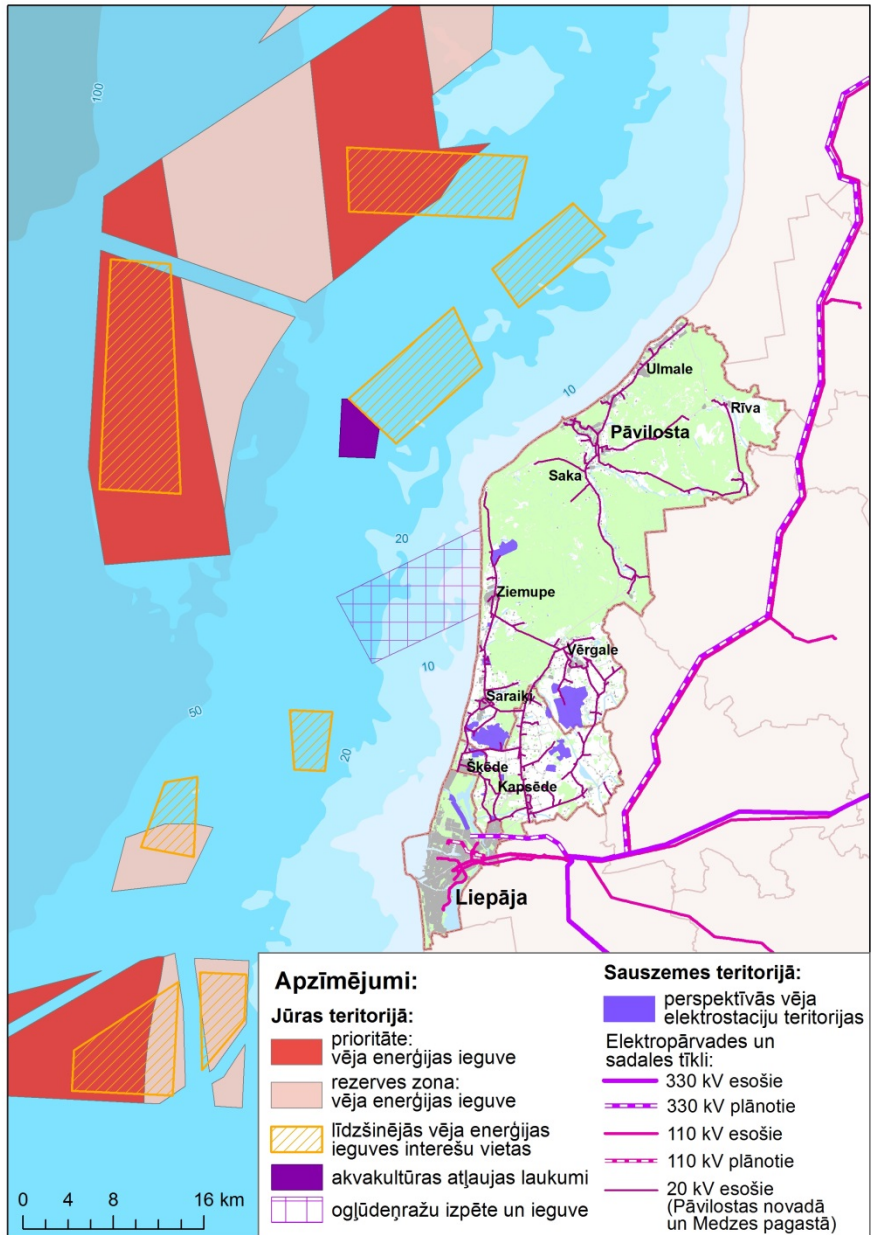
Characterise land and sea uses and interests to be considered in assessment of functional linkages between sea and land

Urban development and growth tendencies



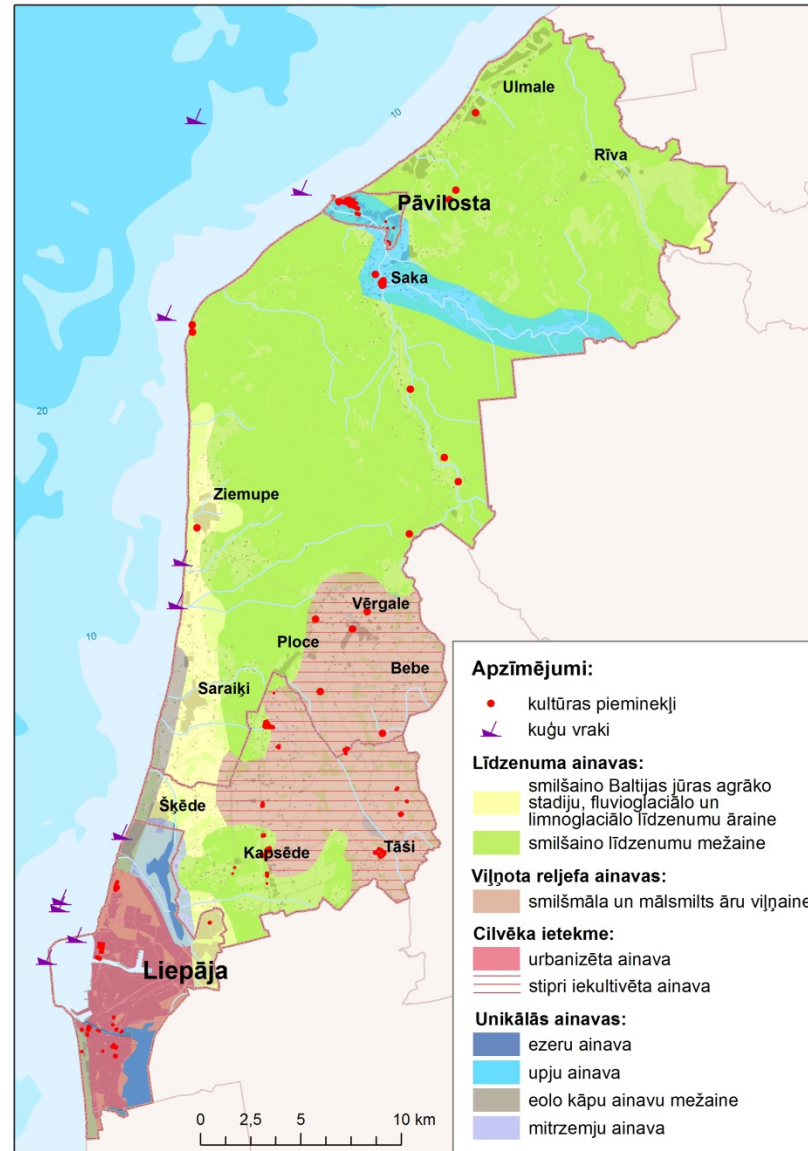
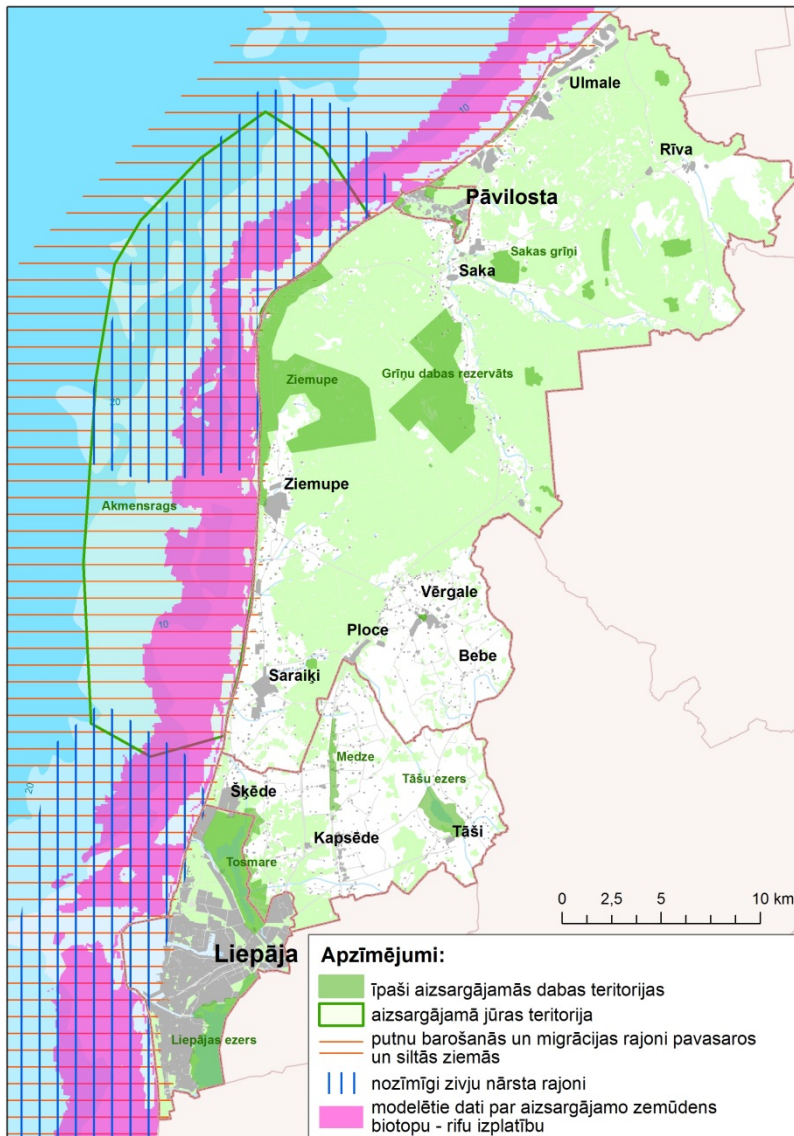
Existing economic activities



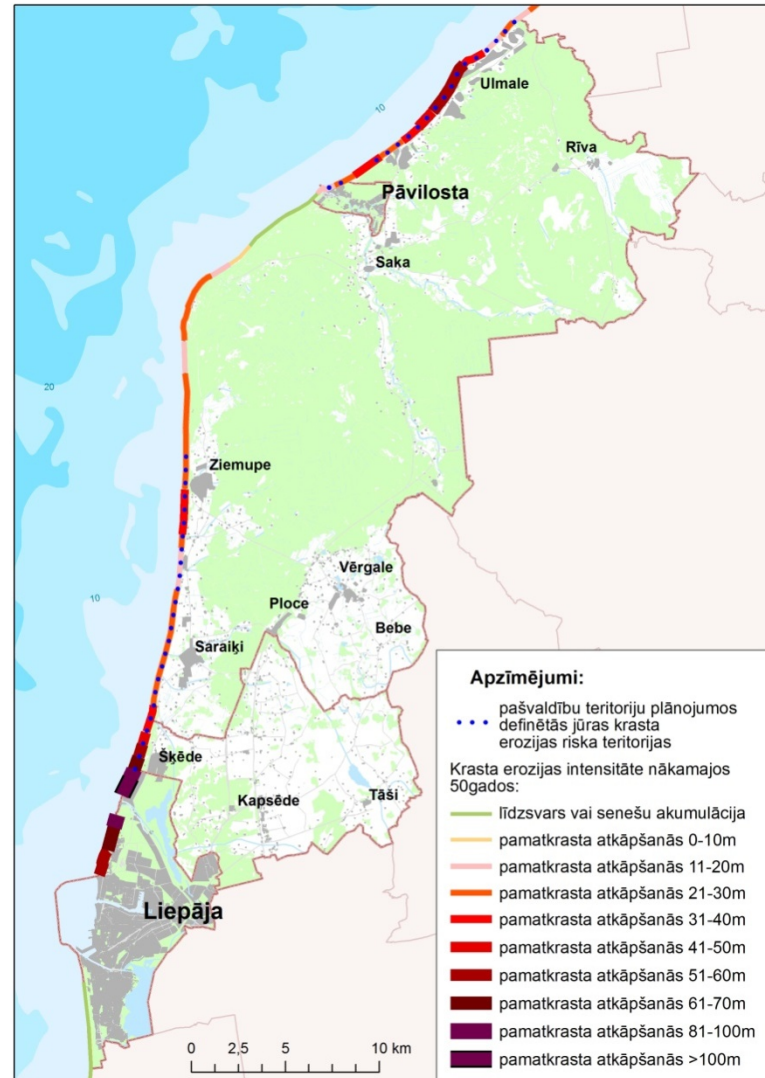


Potential interests and sea uses (wind parks, oil extraction, aquaculture) and related coastal infrastructure (electric grid systems)

Nature values, landscapes, cultural heritage



Environmental status, loads, erosion risks



Step 2.

Identify interactions and impacts between land and sea uses, sectors and interests

Step 3.

Define functional linkages and interdependencies between uses

Functional linkages between uses in coastal areas

Coastal land uses	Coastal sea uses																						
	Bathing waters	Underwater habitats	Bird migrations	Restoration of fish resources	Coastal angling	Coastal fishing	Open sea fishing	Potential aquacultures	Underwater cables	Port aquatorium	Shipping routes and navigation	Dredging of shipping routes	Anchorage sites	Sediment deposition sites	Yachting tourism	Water sports (windsurfing, etc.)	Engine boats, water bikes	Diving	Underwater cultural heritage	Military training fields	Mine search operations	Potential oil extraction sites	Potential wind parks
Beach as place for recreation		-	-	-			-	-	-	-	-	-	-					-	-	-	-	-	-
Nature tourism				-			-	-	-	-	-	-	-	-		-	-		-	-	-	-	-
Cultural and recreational tourism		-	-	-			-	-	-	-	-	-	-	-						-	-	-	-
Accommodation for tourists		-	-	-			-	-	-	-	-	-	-	-						-	-	-	-
Coastal tourism infrastructure		-	-	-			-	-	-	-	-	-	-	-						-	-	-	-
Residential areas		-	-	-			-	-	-	-	-	-	-	-					-	-	-	-	-
Industrial areas	-	-	-	-	-										-	-	-	-	-	-	-	-	
Waste water discharges	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-	-	-	
Electricity cables and grid systems	-	-	-	-	-	-	-								-	-	-	-	-	-	-	-	
Military training fields and activities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Military coastal observation system	-	-	-	-	-										-	-	-	-	-	-	-	-	
Port terrestrial area	-	-	-	-											-	-	-	-	-	-	-	-	
Coastal protection, nourishment		-	-	-			-	-	-	-	-	-	-	-					-	-	-	-	-
Fish catch landing sites at the coast		-	-	-	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Angling from the beach			-				-	-	-						-	-	-	-	-	-	-	-	-
Coastal nature landscape				-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-
Cultural historical monuments and landscape		-	-	-	-			-	-					-					-	-	-	-	-
Nature protected areas, dune habitats				-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-

The main linkages between land and sea uses

- Ports – shipping
- Ports – fishing, marine aquaculture – fish processing
- Ports – oil extraction – industrial enterprises
- Ports – wind parks - cables and grid system
- Military observation network – shipping, fishing and yachting.
- Housing areas – coastal infrastructure –
 - nature areas and coastal landscapes – cultural heritage –
 - recreational tourism, yachting, water sports – ports

Step 4.
Propose solutions
(demonstration of cases)

Solutions for functional linkage between **port** and **recreational** uses

Objective: development of city waterfront thus diversifying the business and recreational opportunities

Issues to be addressed:

- **Public access** to the North and the South breakwaters
- Public access to waters in the Liepaja port territory of „Laumas” area
- Efficient use of the Liepaja port area and establishment of **new yacht/water sport centre**

Potential solutions and role of municipality:

- Organisation of public discussion – **municipality**
- Elaboration of a detailed plan for the port territory with designation of public access areas and their functions - **municipality together with Liepaja port administration**
- Amendments to the local regulations of the Liepaja City Council on “Liepaja port regulations” – **adopted by municipality with counselling of the national government**



Solutions for functional linkage between **fishing** and **transport** infrastructure

Issues:

- The legislation does not have any provision how to deliver fish catches from a boat to land – the Law on Protection Belts forbids the use of vehicles in the coastal dune area and beaches
- Insufficient number of adequate access roads

Objective:

- To ensure delivery of coastal fish catches to land in nature friendly way, not disturbing tourism and recreational sites

Potential solutions and role of municipality :

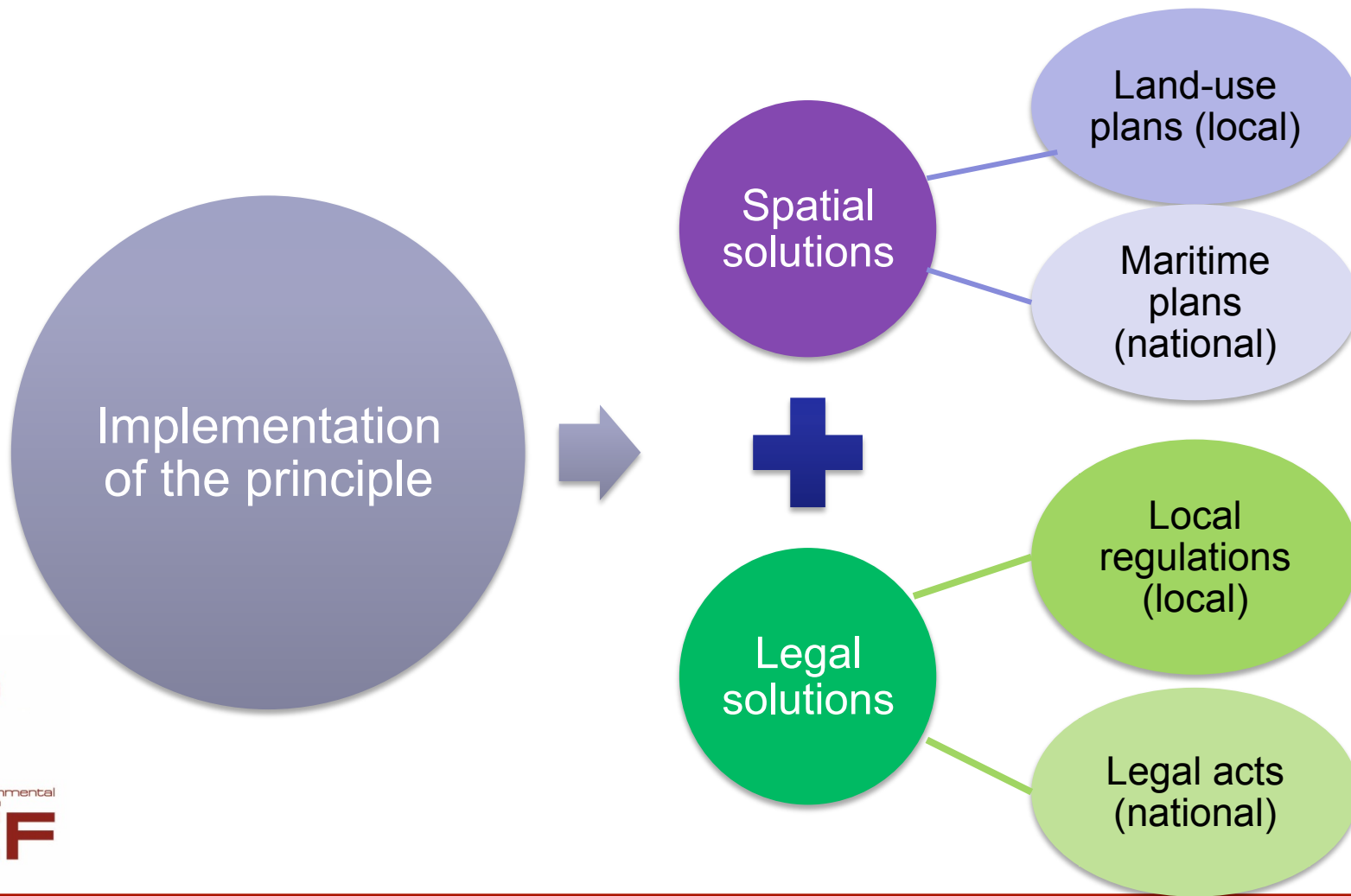
- Planning, constructing and maintaining access roads for fish landings - **municipality**
- Amendments in the Law on Protection Belts – **initiated by government, adopted by parliament**



Access road in Pavilosta

Solutions for different levels

Solutions to implement the principle of the sea and land functional linkage



Overview on solutions to implement sea and land functional linkage

Spatial solutions

- Maritime Spatial Plan: balanced interests of coastal development, recreation, nature, landscapes and cultural heritage
- Local municipal spatial (land-use) plans: identify access sites to the sea (roads, trails, parking lots), built up areas, port territories
- Thematic plans: beach use zoning and infrastructure; landscape planning
- Nature management plans for protected areas: zoning, tourism development infrastructure
- Local/Detail plans: for port areas, for spatial parts of the municipalities

Legal solutions

- Spatial development planning law
- Amendments in the Law on Protection Belts
- Amendments in the local regulations of the municipalities

Thank you!

