SPATIAL PLANNING TOOLBOX

Output factsheet: Tools

Version 1

Project index number and acronym	CE1444 InterGreen-Nodes
Lead partner	Technical University of Applied Sciences Wildau
Output number and title	Output O.T2.3 Spatial Planning Toolbox
Responsible partner (PP name and number)	PP2 – Joint Spatial Planning Department Berlin-Brandenburg
Project website	https://www.interreg-central.eu/Content.Node/InterGreen-Nodes.html
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Summary description of the key features of the tool (developed and/or implemented)

As intermodal hubs, ports and intermodal terminals are faced with the societal expectation to contribute to decarbonisation of the transport system. Thus, they are putting a lot of efforts to decarbonise their operations and to supply alternative energy for long-haul transport as well as for the first and the last mile.

This implies a change in strategic port development: production, bunkering and distribution of renewable energy for transport as well as port-affine industry becomes more and more important.

To address development comprehensively, including spatial planning, land-use conflicts as well as business development in a dynamically developing technological environment, innovative, collaborative processes are needed that involve relevant stakeholders from different levels and sectors.

The spatial planning toolbox for implementing green solutions in nodes highlights the challenges, ports and terminals collaborating in the InterGreen-Nodes project are faced with. It provides concrete solutions, intermodal nodes have been and are developing as well as challenges, the nodes were faced with.

In addition, the toolbox provides useful information on European instruments supporting the transition to green nodes, referencing to relevant European legislation as well as financial support schemes.

The toolbox function as an interactive tool and guides the user through the document by selecting the single intermodal hubs or action fields like:

Renewable energy   First & last mile   Spatial Planning   Governance

NUTS region(s) where the tool has been developed and/or implemented (relevant NUTS level)

- Berlin - DE30
- Brandenburg – DE40
- Rostock Kreisfreie Stadt - DE80
- Mecklenburg-Vorpommern – DE80
- Venezia - ITH35
- Bologna - ITH55
- Budapest - HU110
- Trelleborg – SE224 (Skane county)

Expected impact and benefits of the tool for the concerned territories and target groups

The toolbox presents "green" solutions developed at eight different multimodal nodes in Central Europe and the Baltic Sea Region. Each solution is marked by the action fields it mostly contributes to. Thus, the toolbox shall help planners, intermodal node operators to identify useful experiences. By giving further reference to contact persons, the transfer of knowledge shall be enhanced.

The key ambitions of the toolbox are:
- Easy access to knowledge transfer and solutions developed
- Combination of EU instruments with existing solution as starting point for further development
- Avoiding double work by giving the status quo in CE
- Supporting cooperation between intermodal hubs facing the same challenges and working on equal solutions 8future common projects also as invest)

Sustainability of the tool and its transferability to other territories and stakeholders

Each intermodal hub is currently faced by the energy and fuels transition process. Therefore, the defined actions fields are transferable EU-wide. The toolbox offers a wide range of solutions started or planned by the investigated hubs. The solutions dealing with:
- alternative fuels like hydrogen push boat, LNG bunkering, electric mobility
- installation of renewable energy plants (wind or solar) in hubs
- strategic development and communication concepts

Table: Solution overview

Node	Solutions	🟢	⬚	🏢	⭐
Berlin-Brandenburg	ELEKTRA - First hydrogen driven pushboat	☑	☑		
	A-Swarm: Autonomous electric shipping on waterways in metropolitan regions		☑		
	Berlin-Brandenburg regional inland waterway action plan			☑	☑
Mecklenburg-Vorpommern	Action plan future-oriented, green, port-affine commercial and industrial zones in Mecklenburg-Vorpommern	☑		☑	☑
Budapest	E-cargo mobility	☑	☑		
	Heat barge	☑			
	LNG terminal	☑			
	Stakeholder forum for low-carbon city logistics				☑
Bologna	Alternative fuels	☑			
Venice	Venice LNG facility and maritime bunkering	☑	☑		
	Onshore Power Supply	☑			
	Electricity and hydrogen	☑			
Rostock	Strategic Communication around future port development				☑
Trelleborg	Wind power plants	☑		☑	
	Renewable electricity for port vehicles and ferries	☑			

Lessons learned from the development/implementation process of the tool and added value of transnational cooperation

The lessons learned from toolbox development process, but also from the whole work in WPT2 shows on the one hand the willingness, ambitions and actions of each hub and region investigated equally. The goal of climate neutral transport operations as the opportunities to foster a balanced development in this field in all European regions and hubs. Thus, the transition process could be seen as an engine to reach also the goals of cohesion policy.

Anyhow, the solutions for green development are various and balanced spread in CE, but the regional conditions in terms of regulatory frameworks or strategies are on a different level or status. Therefore, it was not manageable to develop an overall "guide", which could be adoptable for each single European region.

But, the toolbox gives a very good starting point for knowledge transfer, interaction between stakeholders thinking of implementation equal solution and starting common projects. The regional preconditions were development and published within the project and could/should be used.

References to relevant deliverables and web-links
If applicable, pictures or images to be provided as annex

Following publication were relevant for the toolbox development - all available on the project webpage
https://www.interreg-central.eu/Content.Node/InterGreen-Nodes.html:
- Transnational summary report of D.T.1.2.1 – D.T.1.2.3 spatial and regional needs for implementing green solutions
- Regional Action Plans O.T. 2.1 and supporting investigations under D.T.2.1.4
- EU policy initiatives and assessment of funding opportunities D.T.1.1.1 and D.T.1.1.2