

Ministry of Environmental  
Protection and Regional  
Development  
Republic of Latvia

# The story of Baltic Sea Region – towards MSP data web-map

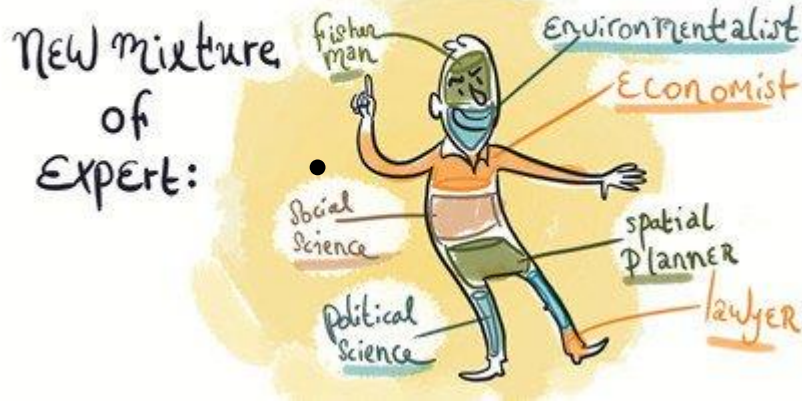
**Kristīne Kedo**

**Chair of HELCOM-VASAB MSP Data Expert group**

EU Maritime Days 2018  
Burgas, 31.05.2018.

# Why (to whom) are we doing this?

*This future will need to be highly interdisciplinary, with a wide range of expertise.*



MSP planners

MSP Data experts



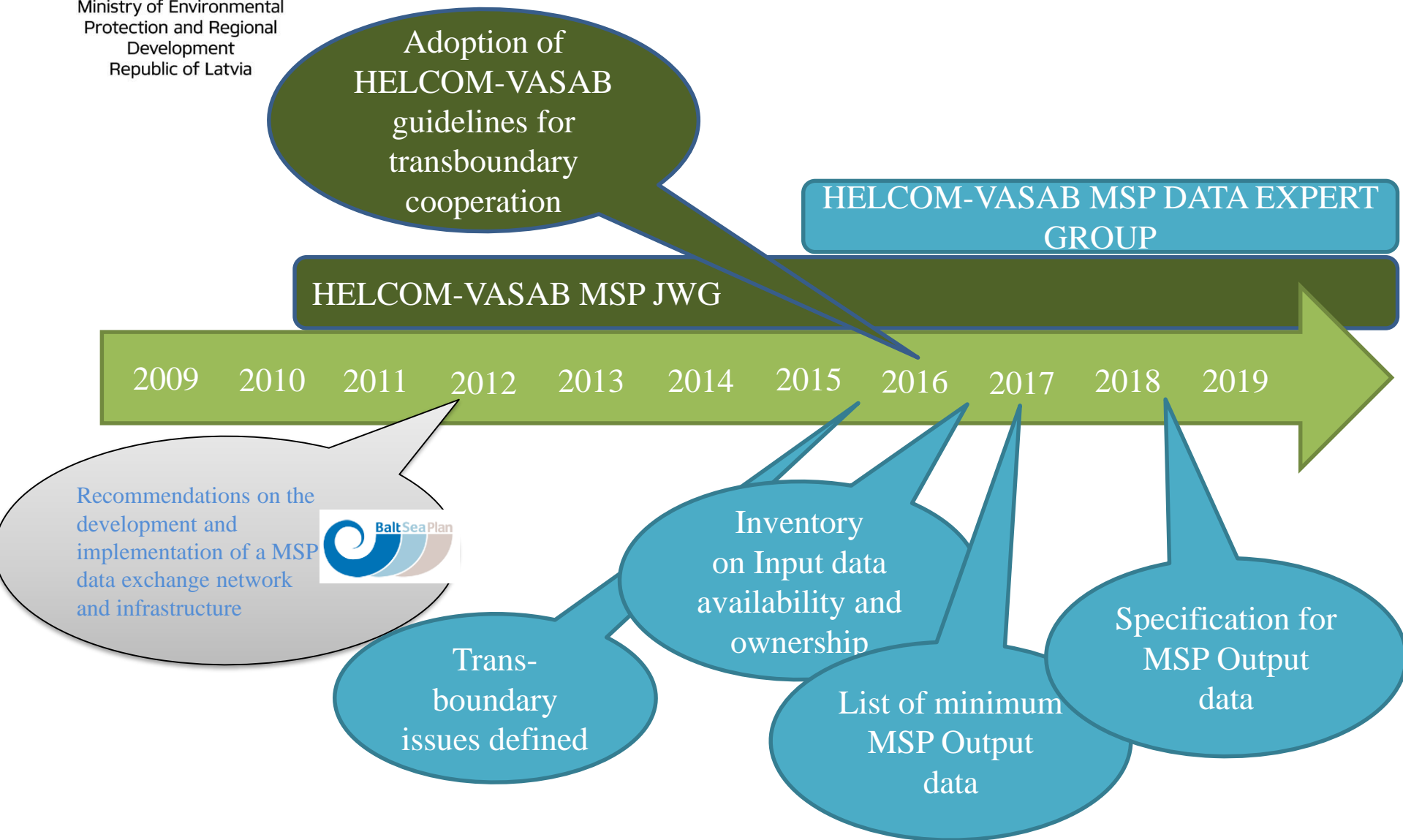
- Maritime business developers





Ministry of Environmental  
Protection and Regional  
Development  
Republic of Latvia

# MSP data activities in BSR





Ministry of Environmental  
Protection and Regional  
Development  
Republic of Latvia

# Themes of MSP data

## Based on the MSP Directive

- ✓ aquaculture, fishing areas,
- ✓ installations and infrastructure
- ✓ maritime transport routes and traffic flows,
- ✓ military training areas,
- ✓ nature and species conservation sites and protected areas,
- ✓ raw material extraction areas,
- ✓ scientific research,
- ✓ submarine cable and pipeline routes,
- ✓ tourism and underwater cultural heritage
  - ✓ administrative borders
  - ✓ planning zones

**52 datasets  
identified**

## INPUT DATA

Data used for planning  
+ other plans



## OUTPUT DATA

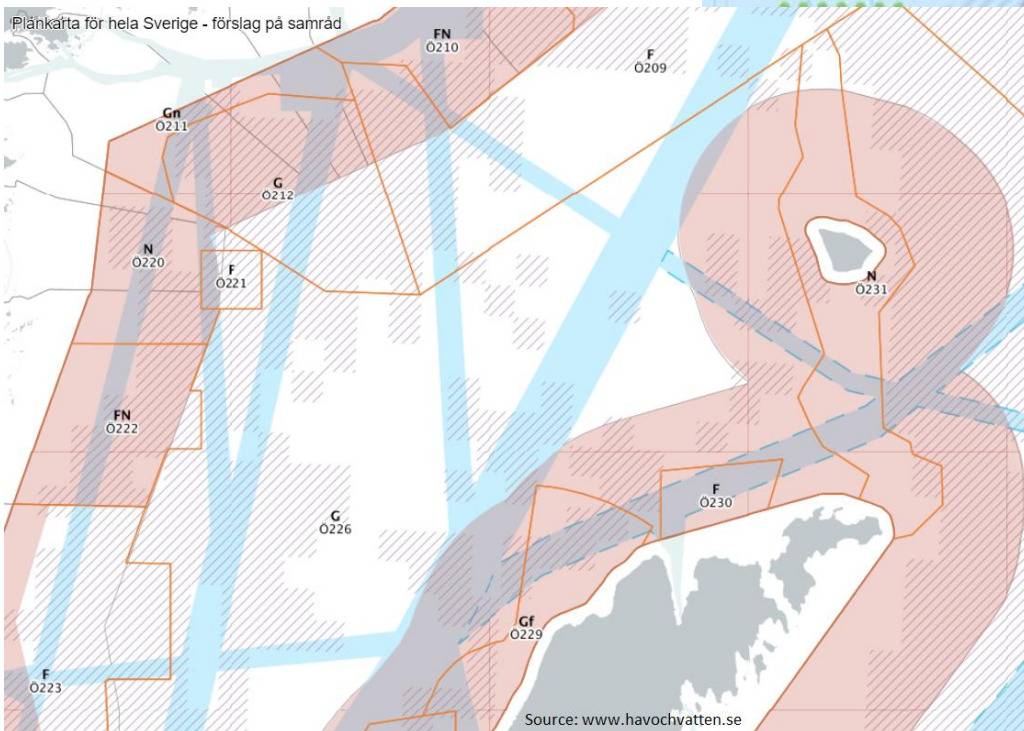
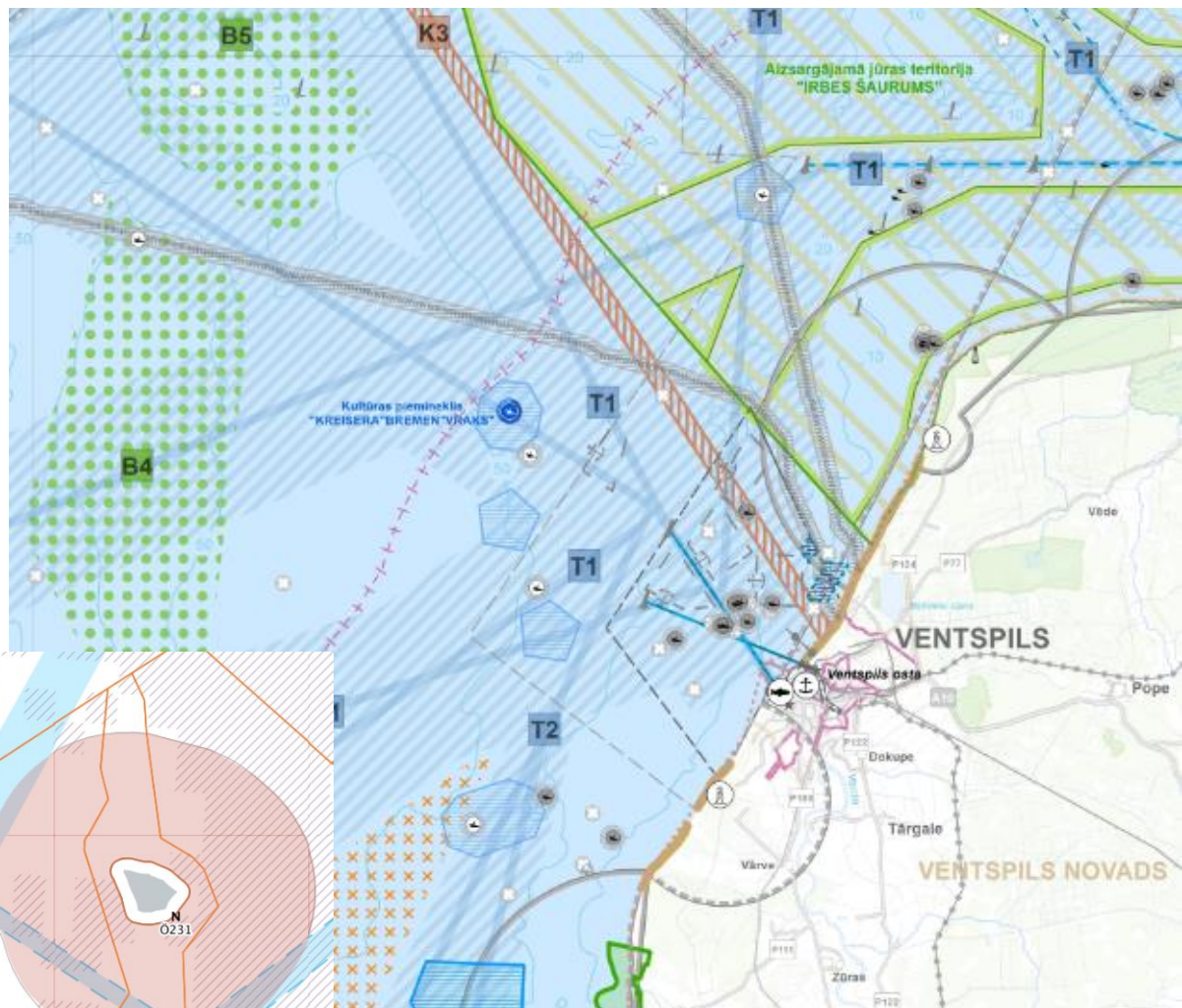
**harmonisation**

Outcome of maritime  
spatial plan  
(plan solutions, spatial designations)





Ministry of Environmental  
Protection and Regional  
Development  
Republic of Latvia





Ministry of Environmental  
Protection and Regional  
Development  
Republic of Latvia

# Glosary of Sea uses – in all BSR languages

attribute code	sea use description	swedish description	finnish description	russian description	estonian description	latvian description
aquaculture	aquaculture	akvakultur	vesiviljely	аквакультура	vesiviljelus	akvakultūra
aquaculture-fish	fish	fisk	kala	рыбоводство	kala	zivju akvakultūra
aquaculture-mussel	mussel	musslor	simpukka	аквакультура-бентос	karp (karbi kasvatus)	gliemežu akvakultūra
aquaculture-plant	plant	växter	levä	аквакультура-фитобентос	?	algu akvakultūra
coast	coast protection	kustzonsskydd	rantojen suojarakenteet	берегозащита	Rannikukaitse	krasta aizsardzība
coast-deposit	reserved areas for coast protection (e.g. reserved or prospective sand deposit area)	sanddeponiömråden	rantojen suojarakenteet	перспективные месторождения	setete ladestusala	
extraction	raw material extraction areas	materialutvinning	raaka-aineen ottoalueet	добыча полезных ископаемых	maardla	derīgo izrakteņu ieguve
extraction-co2	CO2	koldioxid	hiilidioksidi	CO2	?	CO2 ieguve/NA
extraction-gas	gas	gas	maakaasu	газ	maagaas	gāzes ieguve/NA
extraction-oil	oil	olja	öljy	нефть	nafta	naftas ieguve
extraction-sand	sand and gravel	sand	hiekkä ja sora	песок и гравий	liiv ja kruus	smilts un grants ieguve/NA
fishing	fishing	fiske	kalastus	рыболовство	kalastus	zvejniecība
fishing-industrial	industrial fishing	kommersiellt fiske	teollinen kalastus	промышленное рыболовство	tööstuslik kalastus	industriālā zveja
fishing-recreational	recreational fishing	fritidsfiske	vapaa-ajankalastus	любительское рыболовство	hobikalastus	atpūtas zveja/NA
fishing-small-boat	small boat fishing	sportfiske	rannikkokalastus	рыбная ловля	rannakalastus	paņpātēriņa zveja
general	future reservation for undefined activities or general use	planerade områden	tulevaisuuden varaus	перспективное резервирование		nākotnes rezervācija
heritage	underwater cultural heritage	kulturvården	vedenalainen kulttuuriperintö	подводное культурное наследие	veealune muinsuskaitse	zemūdens kultūras mantojums
heritage-landscape	landscape protection	landskapsskydd	maisemansuojelu	охрана подводного ландшафта	maastikukaitse	ainavas aizsardzība/NA
heritage-wreck	wreck	vrak	hylky	затонувшее судно	vrakk	vraks
installations	installations and infrastructures	fasta installationer	rakenteet ja infrastruktuuri	сооружения и инфраструктура	rajatised ja infrastruktuur/tal	būves ierīc
installations-owf	offshore wind farm	havsbasead vindkraftspark	merituulipuisto	зоны ветровых электростанций	tuulikuupark	akrastes vēja parks
installations-platform	platform	plattform	alusta	платформа	platvorm?	platforma
installations-wave	wave energy	vågenergi	aaltoenergia	зоны волновых электростанций	laine-energia	viļņu enerģija
line	submarine cable and pipeline routes	undervattenskablar och olje- och	kaapeli- ja putkilinjat	подводные кабели и трубопроводы	veealuste kaablite ja torude	inženierkomunikācija
line-electricity	electricity cable	elkabel	sähkökaapeli	высоковольтный кабель	elektrikaabel	elektropārvades kabelis
line-pipeline	pipeline	olje- och gasledning	putkilinja	трубопровод	torujuhe	cauruļvads
line-telecom	telecommunication cable	telekabler	tietoliikennekaapeli	телекоммуникационный кабель	telekommunikatsioonikaab	sakarības kabeļis
military	military areas	militärområden	sotilasalueet	акватории министерства безопасности	militaarialad	valsts aizsardzības interese
military-training	military training areas	träningsområden	sotilaskäyttöalueet	зоны военных учений	militaarsed treeningalad	militārie mācību poligoni

<https://goo.gl/VRORIs>



Ministry of Environmental  
Protection and Regional  
Development  
Republic of Latvia

# Harmonization of Output data:

Extension of existing datasets by following rules:

- Identification of relevant Sea use (*SeaUse*);
- Defining Sea use type (*SeaUseType*) for particular thematic designation (*SeaUse*);
- If possible, other sea-uses that are indicated in the plan as allowed, restricted or forbidden in particular designation;
- If needed, adding Sea use description outlining specific conditions or restrictions (*useDsc*).

**This approach allows for developing MSP output data structures in the way BSR countries are doing already.**



Ministry of Environmental  
Protection and Regional  
Development  
Republic of Latvia

# Extension of national MSP output data

Identified geometry in MSP data structure	Priority Use [SeaUse CodeList] [multiple options possible - 0...*]	Reserved Use [SeaUse CodeList] [multiple options possible - 0...*]	Allowed Use [SeaUse CodeList] [multiple options possible - 0...*]	Restricted Use [SeaUse CodeList] [multiple options possible - 0...*]	Forbidden Use [SeaUse CodeList] [multiple options possible - 0...*]	Use Dsc [CharacterString]
xxx	Selection from seaUse code list		Selection from seaUse code list	Selection from seaUse code list	Selection from seaUse code list	Requirements & restrictions within sea use area

Attribute Suggested names	Definition				
m	Indicating planned sea use which <b>has a priority</b> in given sea area in country maritime spatial plan.	-		shipping, fishing	Areas suitable for OWP development
m		m		cables	Areas important for sea bottom trawling
m	Indicating planned sea use which is to be <b>given specific weight</b> in relation to other spatially relevant activities.			shipping	Areas prohibited for navigations
m	Indicating planned sea use which <b>is allowed</b> in given sea area in country maritime spatial plan.				
m	Indicating planned sea use for which some <b>kind of restriction is imposed</b> in given sea area in country maritime spatial plan.				
m	Indicating planned sea use which <b>is forbidden</b> in given area in country maritime spatial plan.				





Ministry of Environmental  
Protection and Regional  
Development  
Republic of Latvia

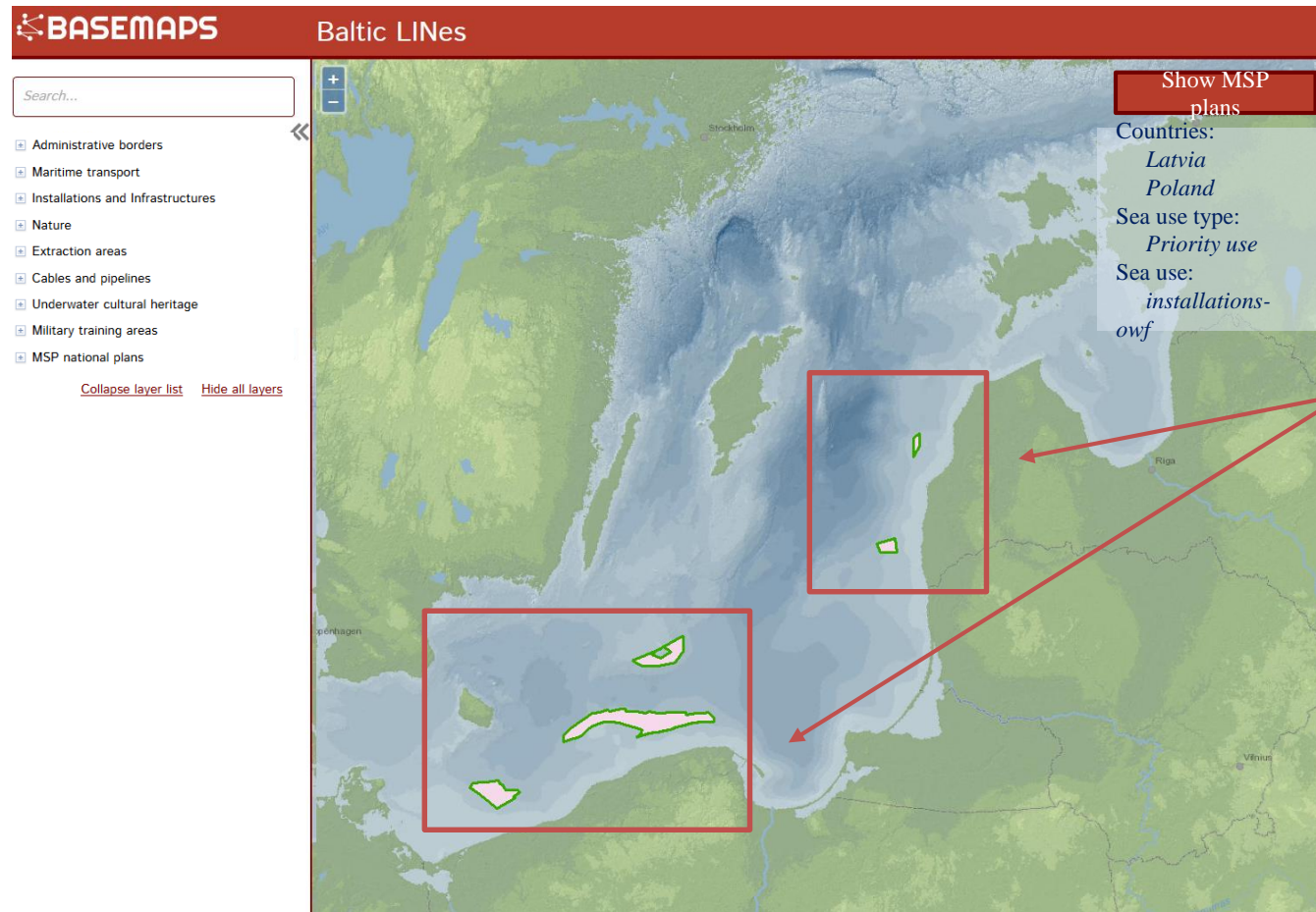
## Further steps:

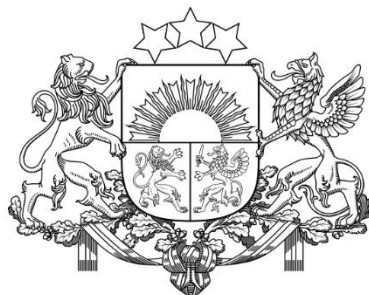
- Creation of common Baltic MSP web-map, including:
  - ✓ Building platform upon existing BASEMAPS
  - ✓ Creating solutions for visualisation
- Drafting guidelines for data exchange



Co-funded by the  
European Maritime and  
Fisheries Fund of the  
European Union

# Some steps closer to a BSR web-map of maritime spatial plans...





Ministry of Environmental  
Protection and Regional  
Development  
Republic of Latvia

**Thank you for your attention!**



Ministry of Environmental  
Protection and Regional  
Development  
Republic of Latvia

# A BONUS - Maritime spatial plan areas already available on HELCOM MADS



<http://maps.helcom.fi/website/mapservice/?datasetID=aa96bca9-23f5-4e24-bc92-be24cf101d59>