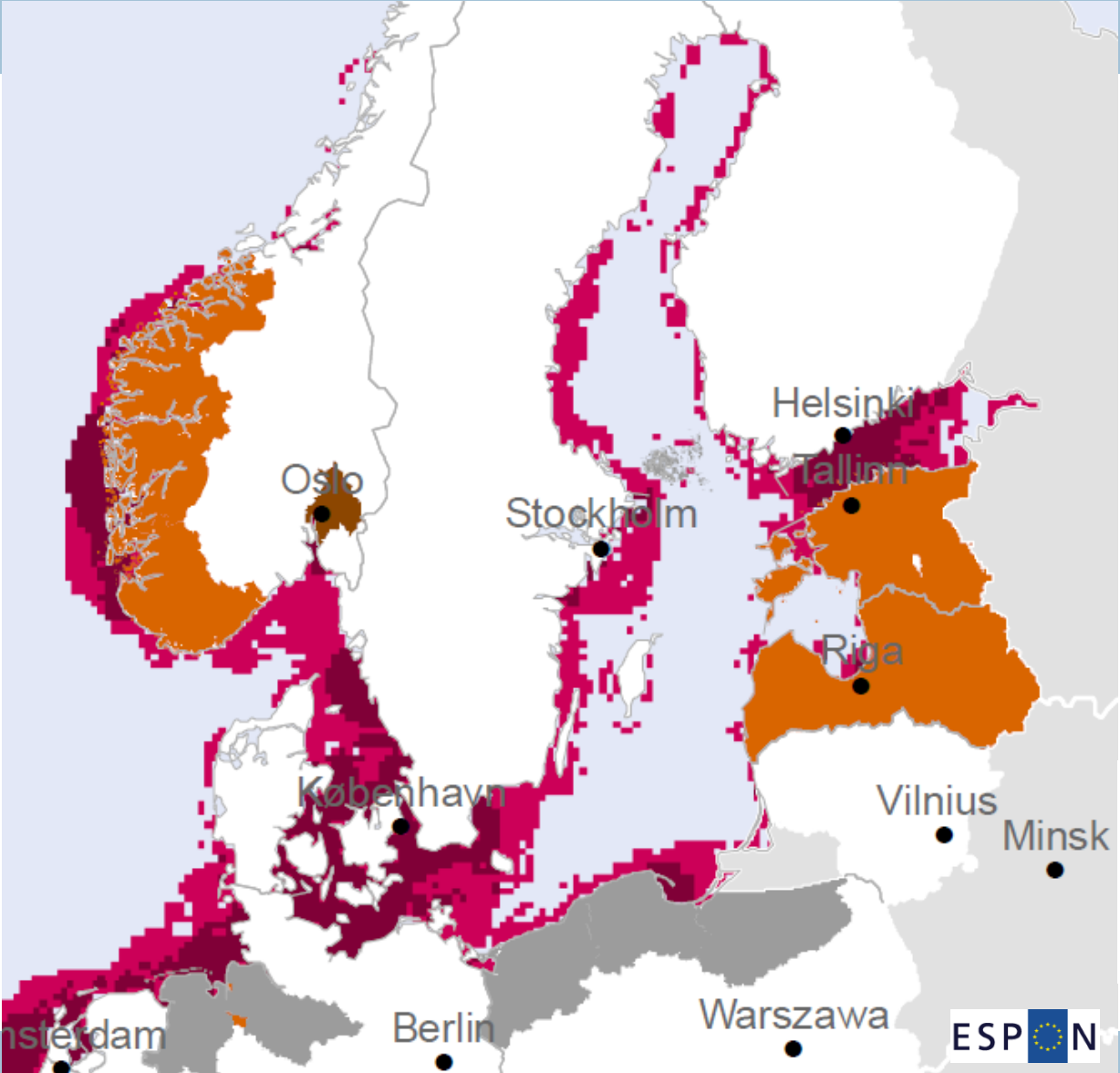


LSI within German spatial planning and needs for improvement



Larissa Hallenpeter/EUCC

Intensity of Land-Sea-Interactions



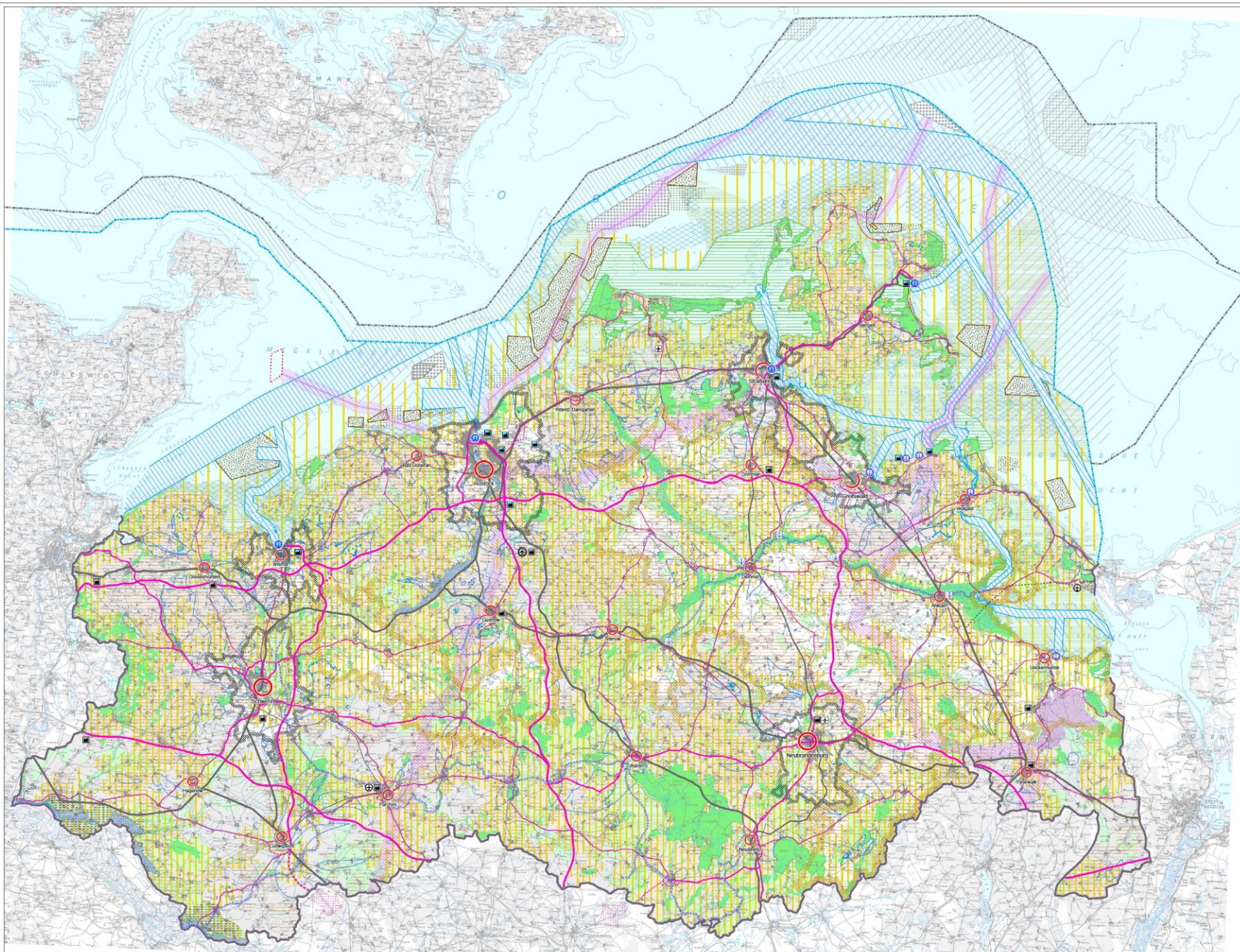
Sea (Enviromental Pressures and Flows)

- Very low intensity
- Low intensity
- Medium intensity
- High intensity
- Very high intensity

Land (Economic Significance)

- Very low intensity
- Low intensity
- Medium intensity
- High intensity
- Very high intensity
- No Data

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INVESTING IN YOUR FUTURE



Raumordnerische Festlegungen

Raumstruktur

-  Oberzentrum
(Oberstadt und Strahlort bilden ein Oberzentrum)
-  Mittelzentrum
-  Ländliche Räume
-  Ländliche Gestaltungsräume
-  Stadt-Umland-Räume

Siedlungs- und Wirtschaftsentwicklung

- Standort für die Ansiedlung klassischer Industrie- und Gewerbeunternehmen
- Standort für die Ansiedlung halbleistender Industrie- und Gewerbeunternehmen
- Vorbehaltsgebiet Landwirtschaft
- Vorbehaltsgebiet Tourismus

Infrastrukturentwicklung

- Landesebene Bundesautobahn
- Bundesautobahn
- Bundesautobahn
- Landesebene Bundesverkehrswegeplan
- Bundesautobahn
- Bundesautobahn
- Internationales Straßennetz
- Großräumiges Straßennetz
- Überregionales Straßennetz
- Straßennetz geplant / in Bau
- Einwirkungskorridor - Straße
- Internationales Eisenbahnnetz
- Großräumiges Eisenbahnnetz
- Überregionales Eisenbahnnetz
- Eisenbahnnetz geplant / in Bau
- Verkehrshafte Ländchen (z.B. unterteilt nach Bundesländern)

Naturraumentwicklung

-  Vorranggebiet Naturschutz und Landschaftspflege
 Vorranggebiet Naturschutz und Landschaftspflege auf Gewässern
 Vorbehaltsgebiet Naturschutz und Landschaftspflege
 Vorbehaltsgebiet Naturschutz und Landschaftspflege auf Gewässern
 Vorranggebiet Hochwasserschutz

 Vorbehaltsgebiet Hochwassergefahr

- Unterirdische Raumordnung**

Entwicklung im Küstenmeer









- ### Entwicklung im Küstenschutz
- | | |
|---|--|
|  | Marines Voranagement für Windenergieanlagen * |
|  | Marines Voranagement für Windenergieanlagen zu Testzonen |
|  | Marines Voranagement für Windenergieanlagen |
|  | Voranagement Südkanal ? |
|  | Voranagement Südkanal |
|  | Marines Voranagement Küstenschutz |
|  | Marines Voranagement Küstenschutz |
|  | Marines Voranagement Fußsoll |
|  | Marines Voranagement Naturschutz und Landschaftspflege |
|  | Marines Voranagement Naturschutz und Landschaftspflege |
|  | Marine Leichterzone |
|  | Wiederholung Leichterzone in der RZ |
|  | Marines Voranagement Tourismus |

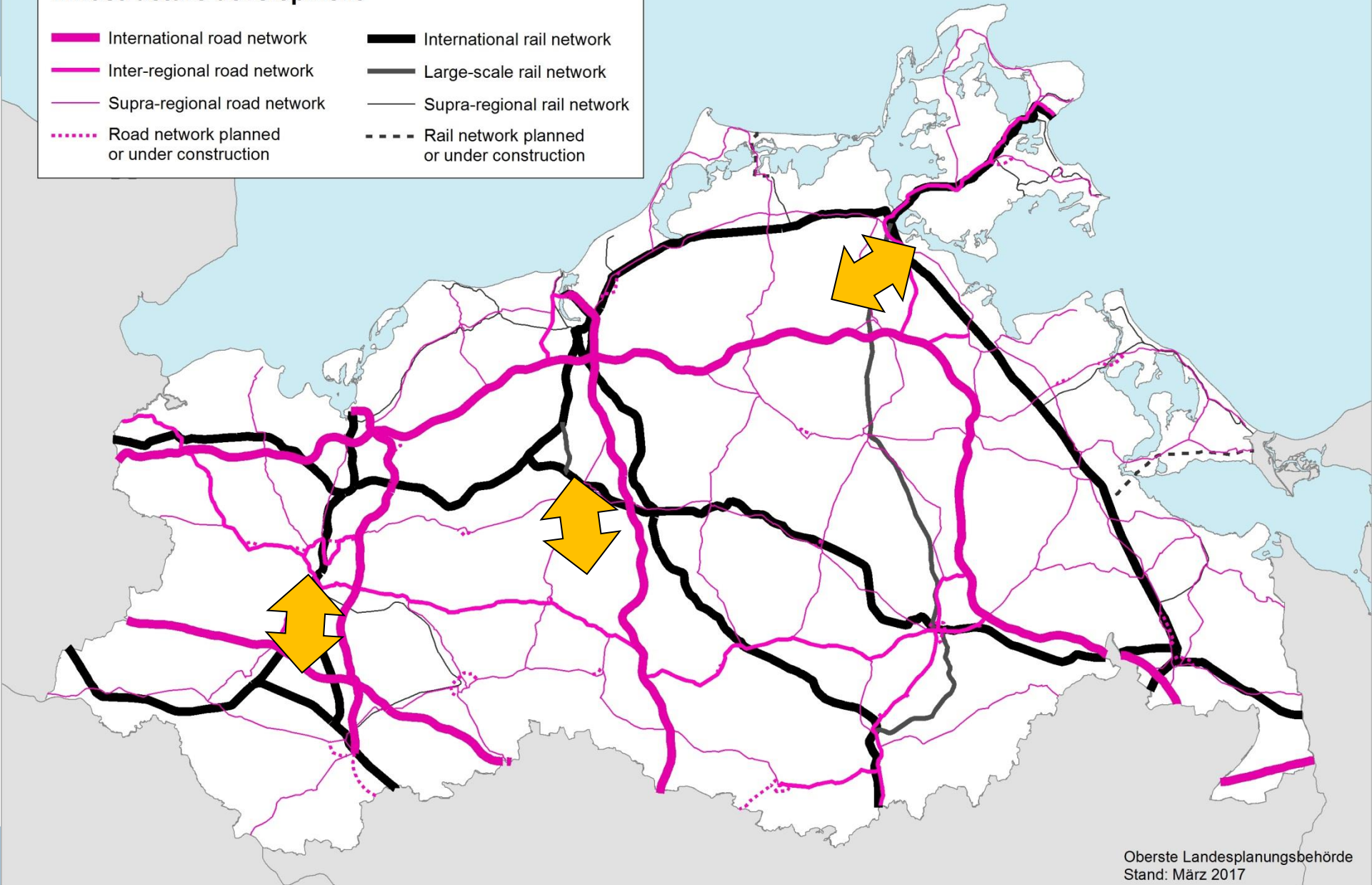
Marines Vorbehaltsgebiet Fischerei

- Nachrichtliche Übernahme**
- Wasserstraße
 - Grenzung des Küstennetzes
 - Grenze der deutschen Ausschließlichen Wirtschaftszone (AWZ)
 - Große militärische Anlage (seewertig) *
 - Große militärische Anlage (landseitig)
 - Offshore-Windparks "Beta Baltic/GEOTRE" (gemäß Abdruck des Raumordnungserlasses "G" vom 18.12.2003) (auch Landesentwicklungsplan Schleswig-Holstein)

[illegible]

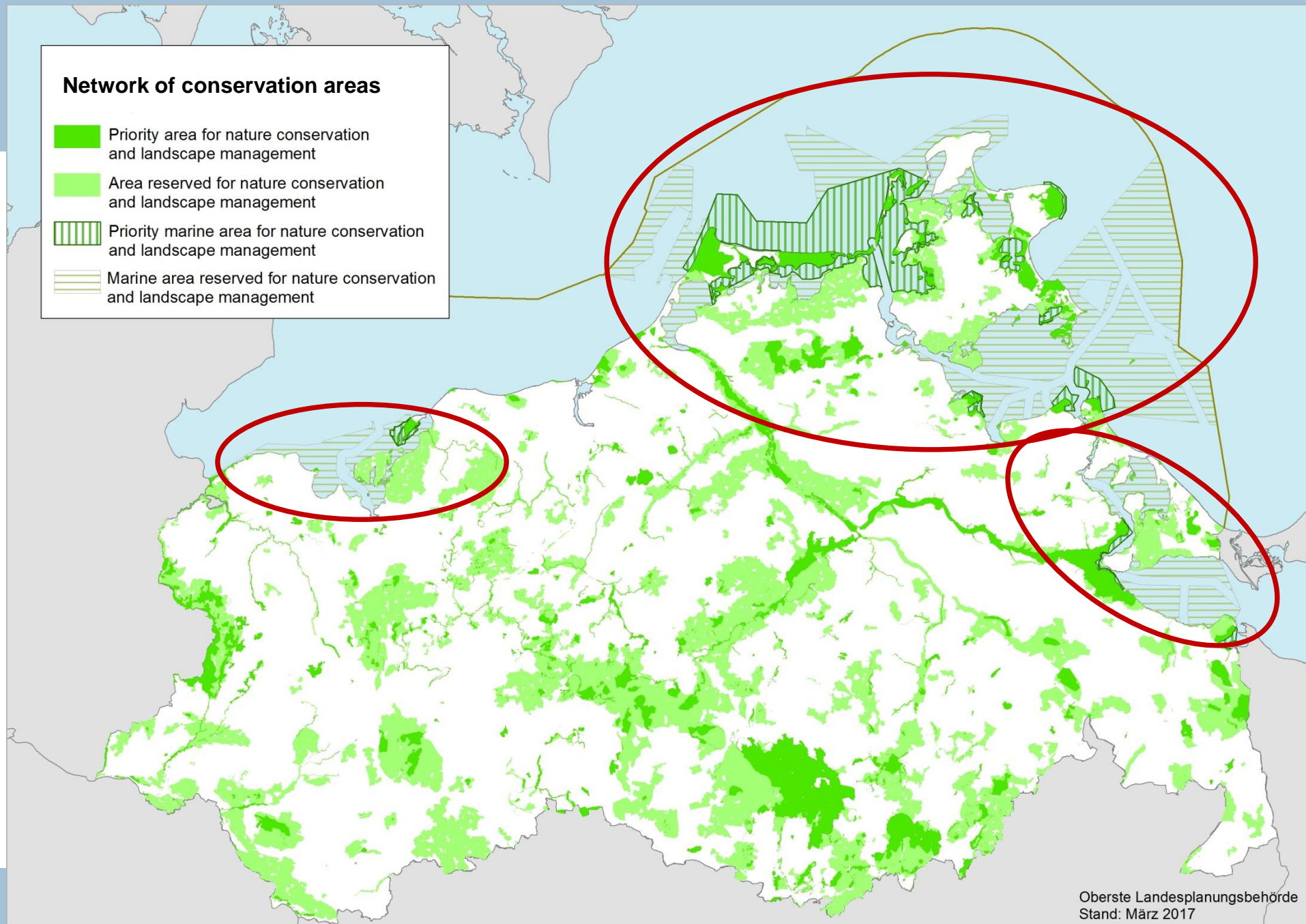
Infrastructure development

- | | |
|--|--|
|  International road network |  International rail network |
|  Inter-regional road network |  Large-scale rail network |
|  Supra-regional road network |  Supra-regional rail network |
|  Road network planned or under construction |  Rail network planned or under construction |



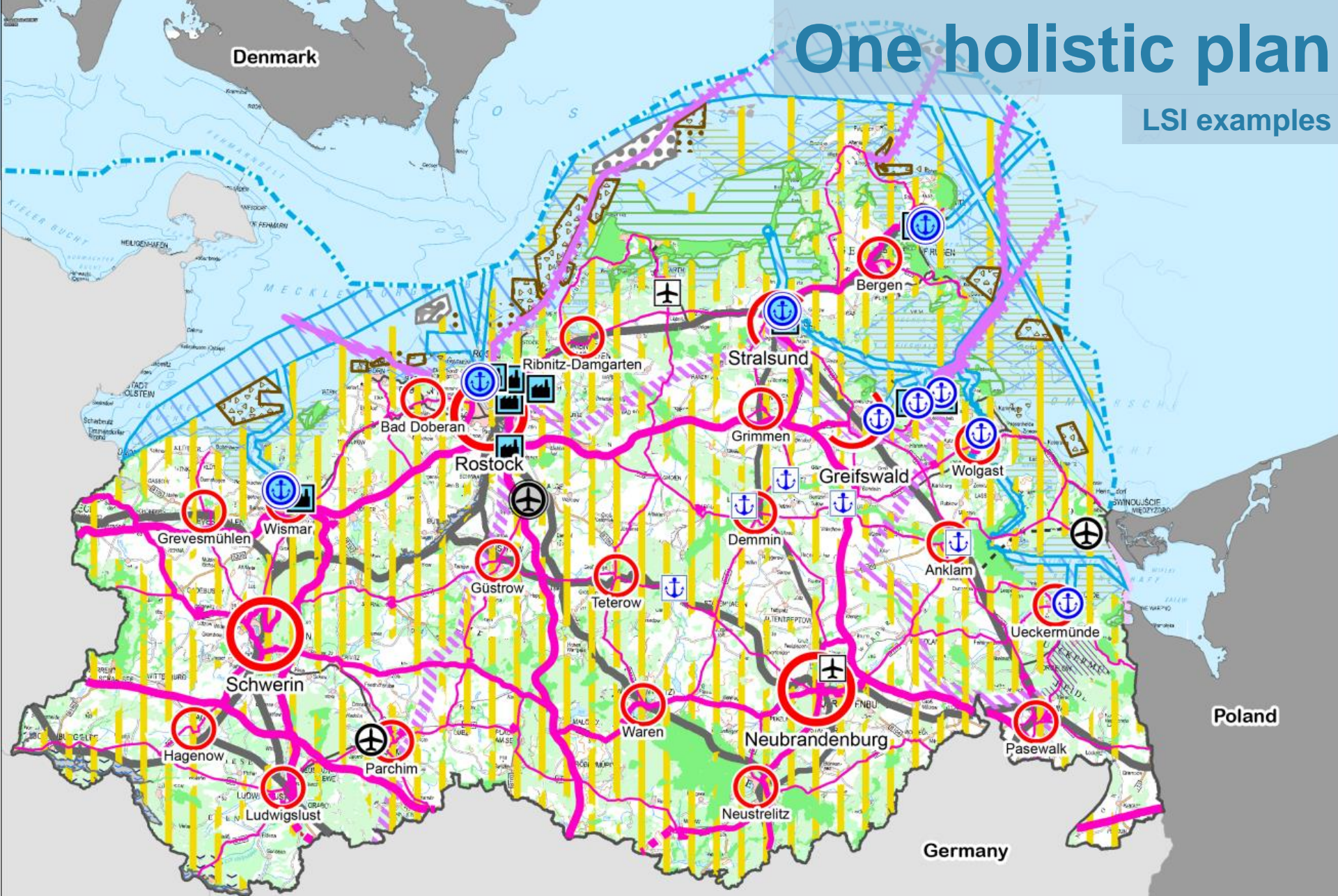
Network of conservation areas

-  Priority area for nature conservation and landscape management
-  Area reserved for nature conservation and landscape management
-  Priority marine area for nature conservation and landscape management
-  Marine area reserved for nature conservation and landscape management



One holistic plan

LSI examples

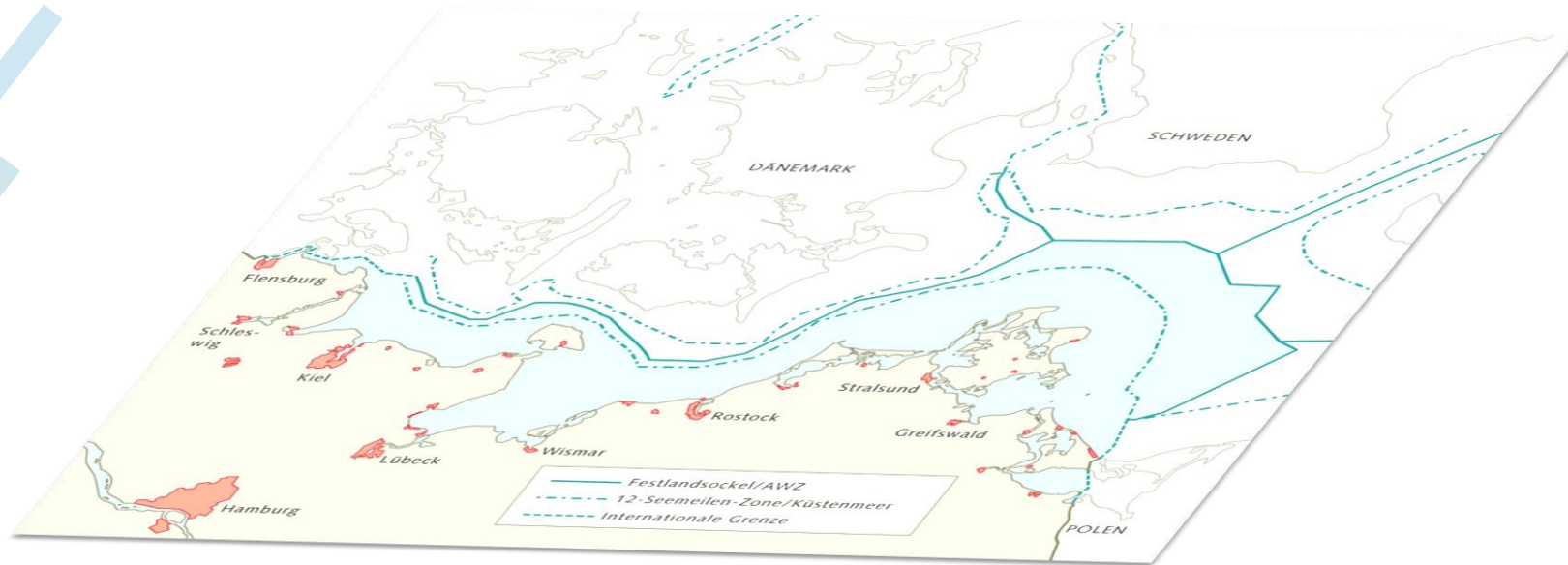


- Shipping lanes, ports, highways, rails
- Cables and pipelines
- Tourism areas
- Flood protection & Coastal protection
- Conservation areas
- Central Places

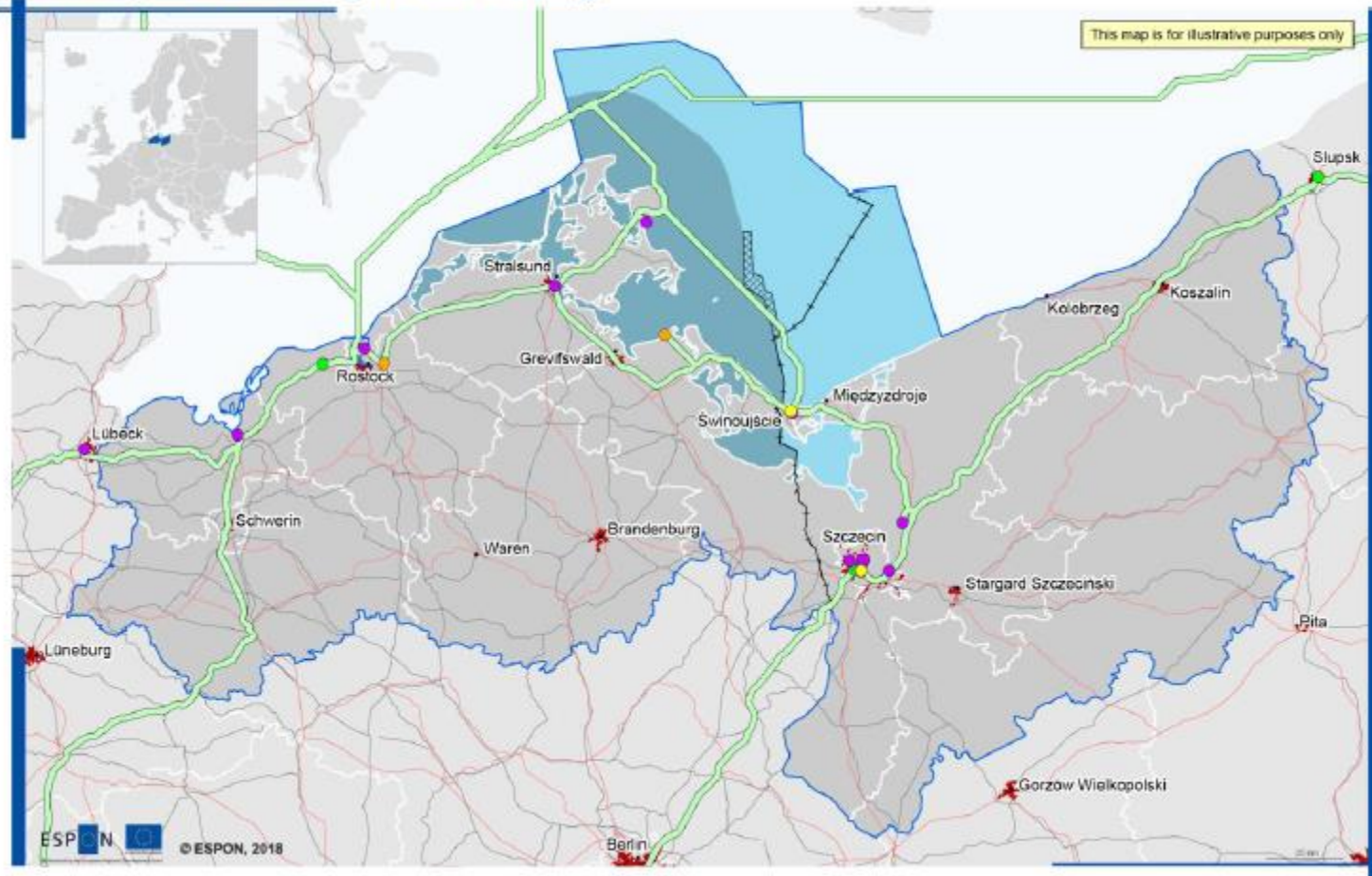
LSI in the German Planning System

State
Region
Municipalities

Federal level



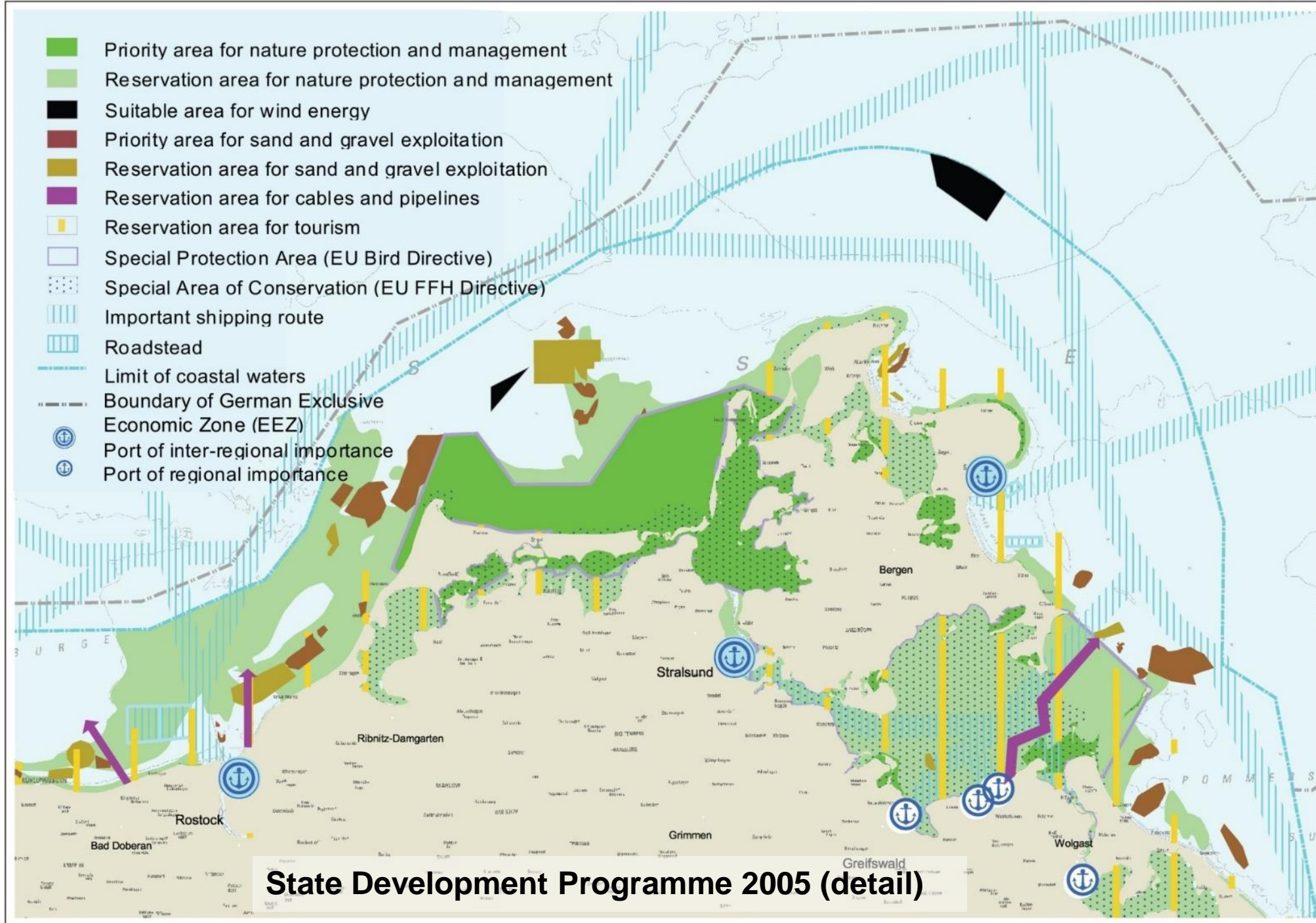
Case Study area - Pomeranian Bight: Offshore Wind Energy



Value Chain Segment










- Development
 - Installation and commissioning
 - Manufacture and assembling
 - Operation and maintenance
 - Shipping to location/ports
- Value chain connection
 - Land core
 - Core boundary
 - Sea core - Federal responsibility
 - Sea core - Länder responsibility
 - National border
 - Northern corridor
 - Urban areas
 - Main road network
 - Main rail network

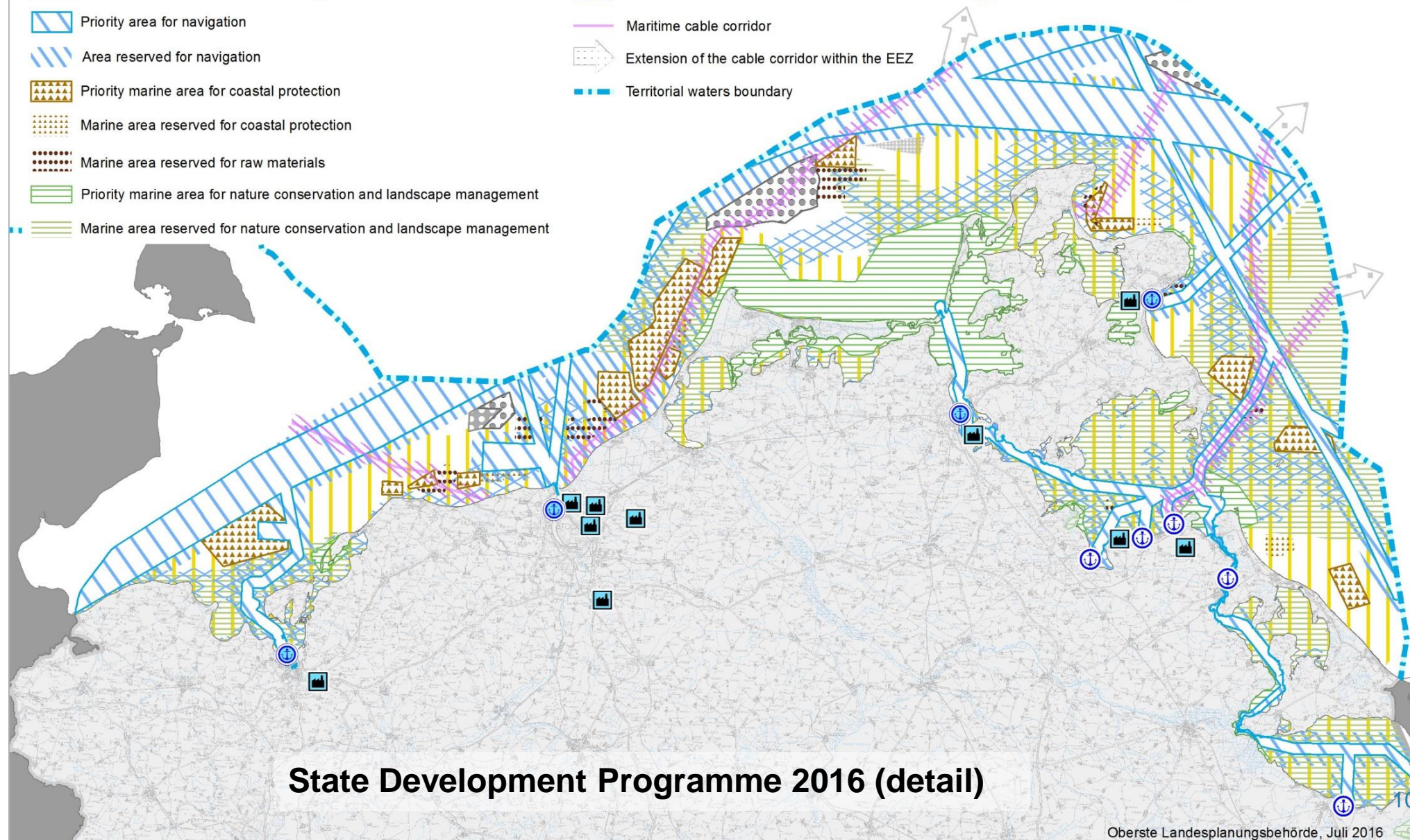
Territorial level: NUTS3 (version 2013)
Source: UMA, MSP-LSI, 2018
Origin of data: Land and NUTS boundaries: Eurostat, 2013; Maritime boundaries and Exclusive Economic Zones (200NM): Flanders Marine Institute, 2018; BaltSeaPlan Report 9, Baltic Sea Region, 2012; EuroGlobalMap, EuroGraphics, Sep 2017.



Development on territorial waters

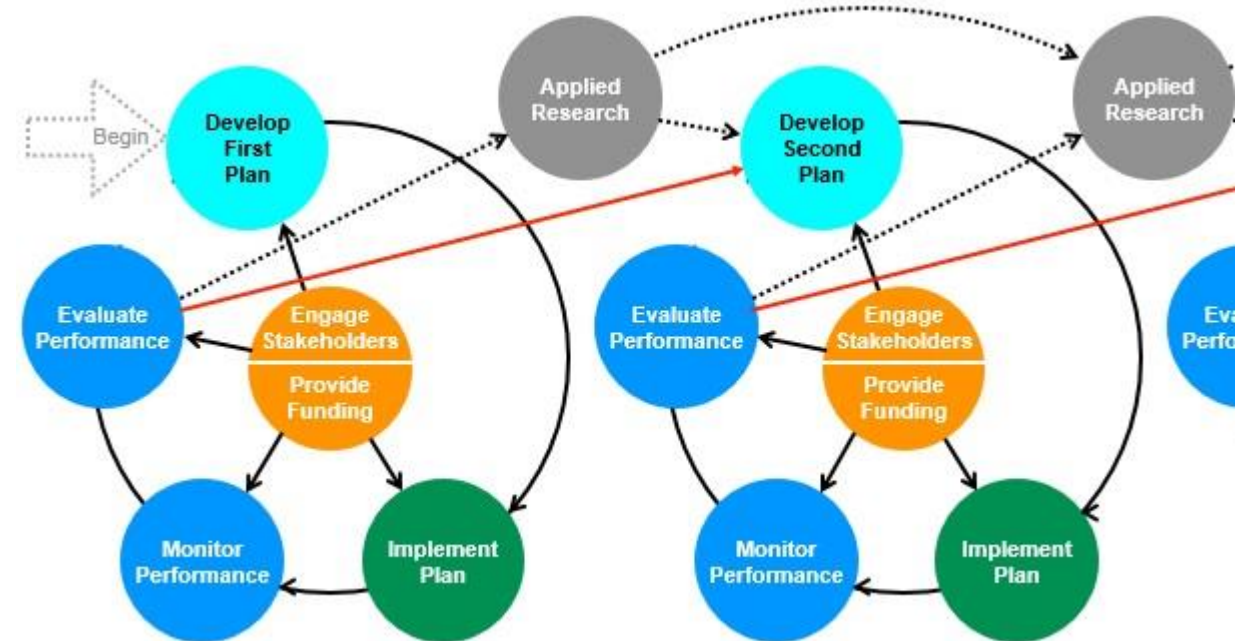
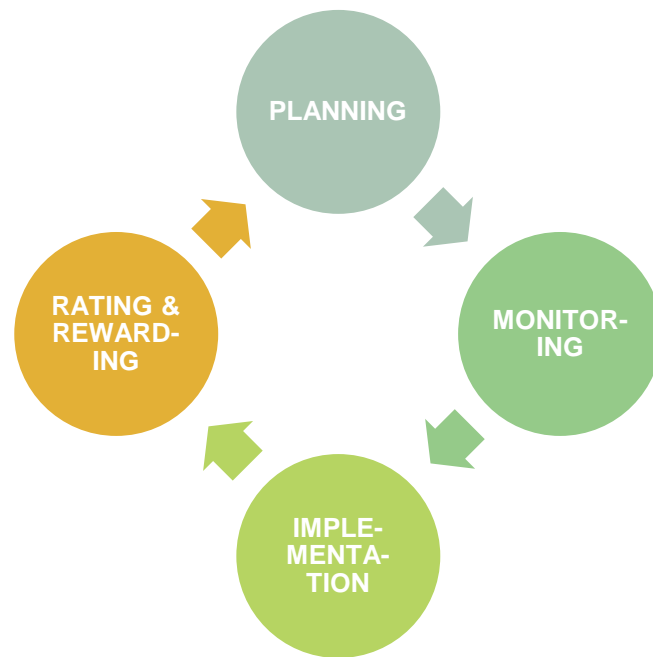
-  Priority marine area for wind energy facilities
-  Priority marine area for wind energy facilities for test purposes
-  Marine area reserved for wind energy facilities
-  Priority area for navigation
-  Area reserved for navigation
-  Priority marine area for coastal protection
-  Marine area reserved for coastal protection
-  Marine area reserved for raw materials
-  Priority marine area for nature conservation and landscape management
-  Marine area reserved for nature conservation and landscape management

-  Marine area reserved for fisheries
-  Marine area reserved for tourism
-  Area reserved for line technical infrastructure
-  Maritime cable corridor
-  Extension of the cable corridor within the EEZ
-  Territorial waters boundary
-  Sea port of statewide importance
-  Major sea port
-  Site for port-related industry and business



State Development Programme 2016 (detail)

Performance management cycle

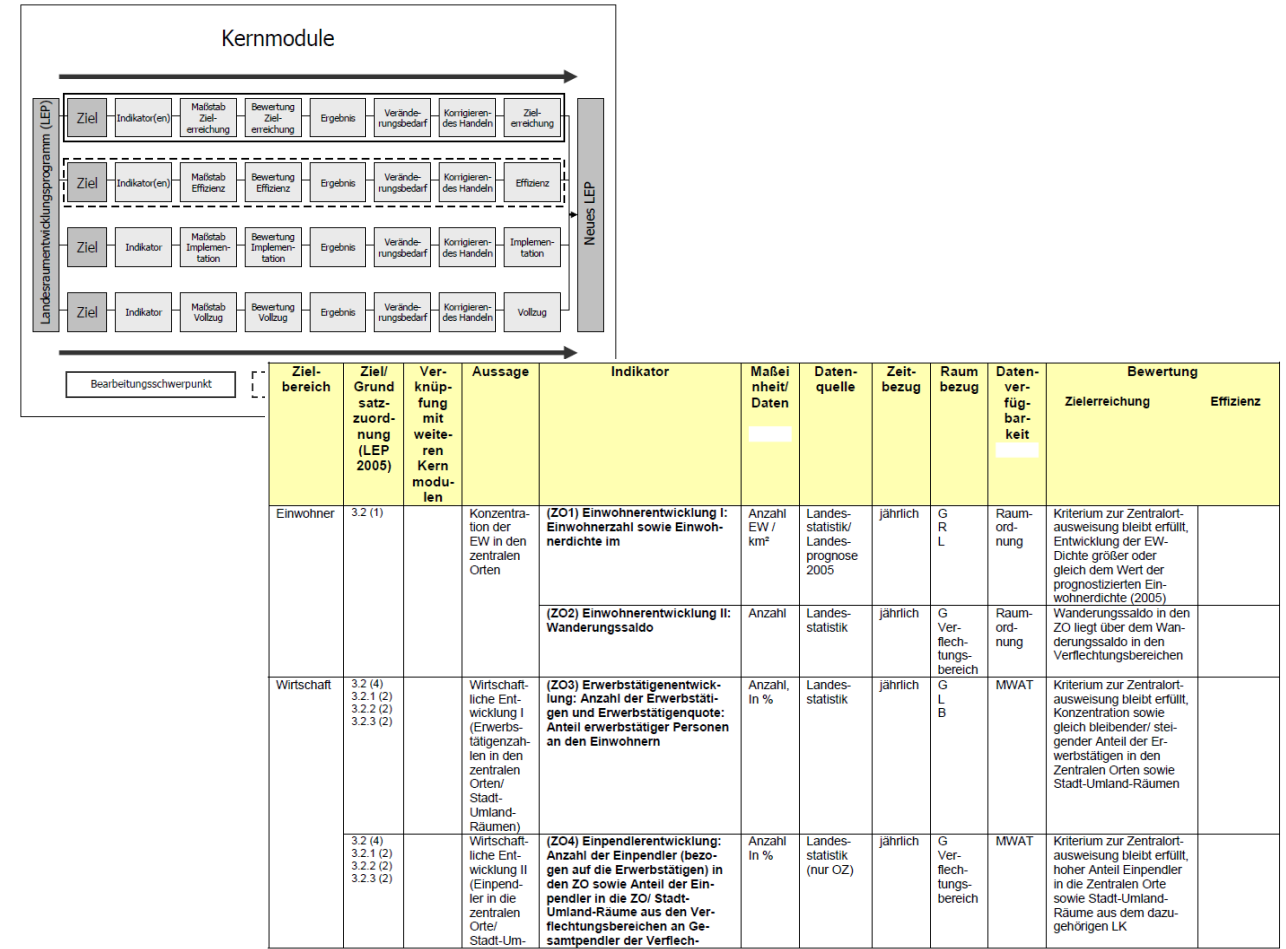
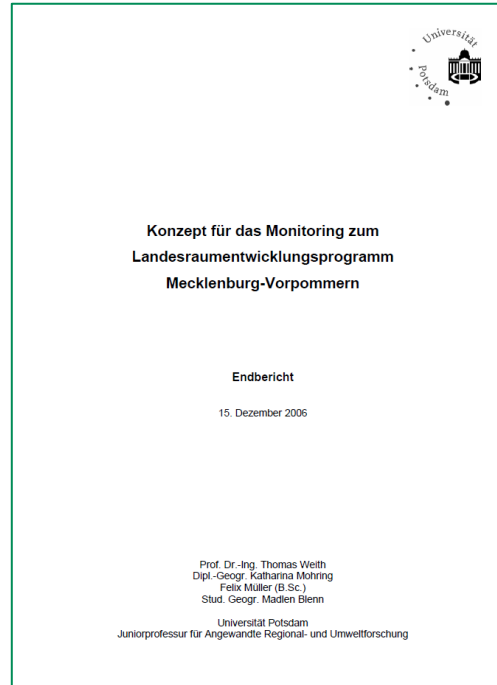


Source: IOC/UNESCO: Guide to Evaluating Marine Spatial Plans

First monitoring attempt

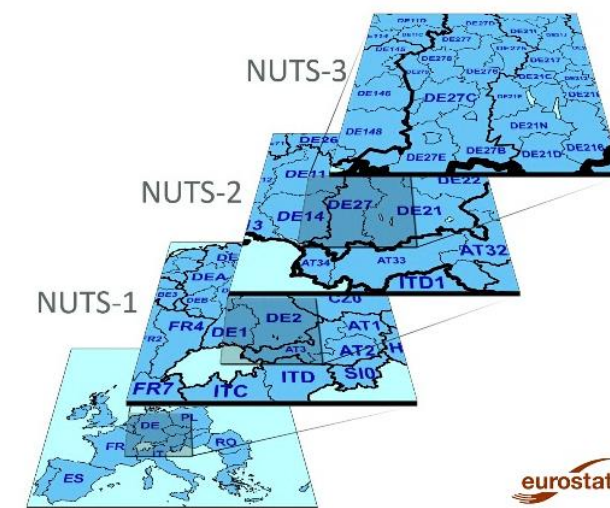


State Development Programme 2005





- **Data availability / no maritime NUTS-system (spatio-temporal statistical classification)**
- MSP is just one of many governance mechanisms
- Effects of maritime activities take place on land
- Interdependencies of effects
- One overarching strategic task of MSP is to induce long-term developments, another one to correct contradictory spatial-strategic policies





State Development Programme 2016

- Focus probably on
- steering effects,
 - changed societal requirements and
 - developments in sectorial planning.

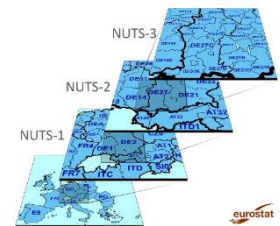
But ...

... what are the most valuable spaces on/in the sea in terms of

- improvement of the environment
- value creation
- employment
- ...?



**Marine Units of Territorial Space (MUTS),
analogous to the terrestrial NUTS.**



**Thank you for
your attention!**

