VASAB

YOUNG PLANNERS' SUMMER SCHOOL

2026

NAVIGATE PLANNING THROUGH CHANGES

23-29 AUGUST 2026 I GDANSK, POLAND

CLIMATE ADAPTATION AND MITIGATION, INCLUDING GREEN ENERGY INVESTMENT

Addressing climate risks, sustainable use of coastal and marine areas, and spatial planning of resilient green energy systems

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VASAB VISION & STRATEGIES AROUND THE BALTIC SEA

POLITECHNIKA GDAŃSKA | WYDZIAŁ ARCHITEKTURY

Ministry of Development Funds and Regional Policy Republic of Poland

SAMORZĄD WOJEWÓDZTWA POMORSKIEGO

PORT GDAŃSK

Eesti Planeerijate Ühing
Estonian Association of Spatial Planners

ARL ACADEMY FOR SPATIAL DEVELOPMENT IN THE LEIBNIZ ASSOCIATION

Council of the Baltic Sea States

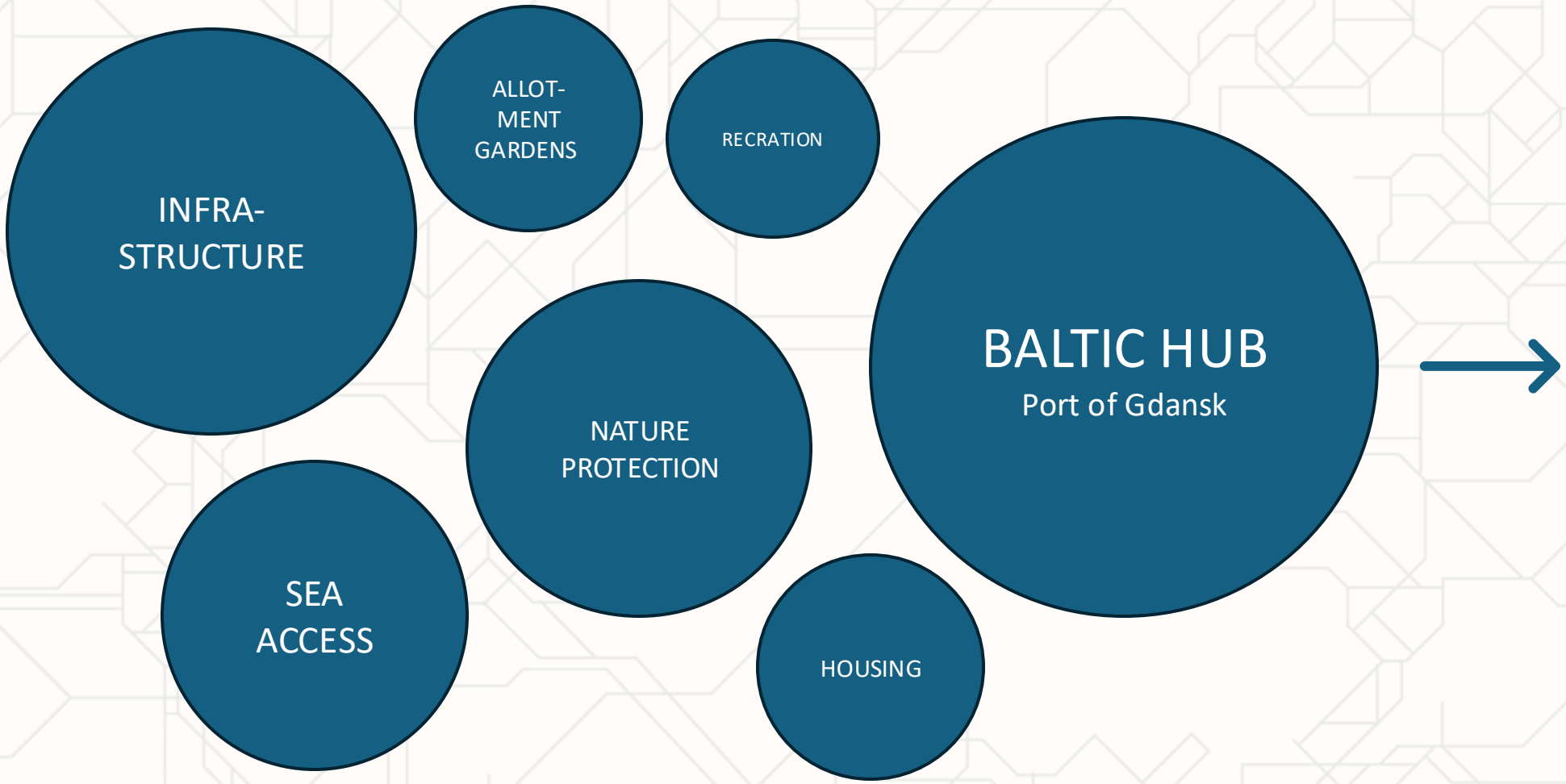
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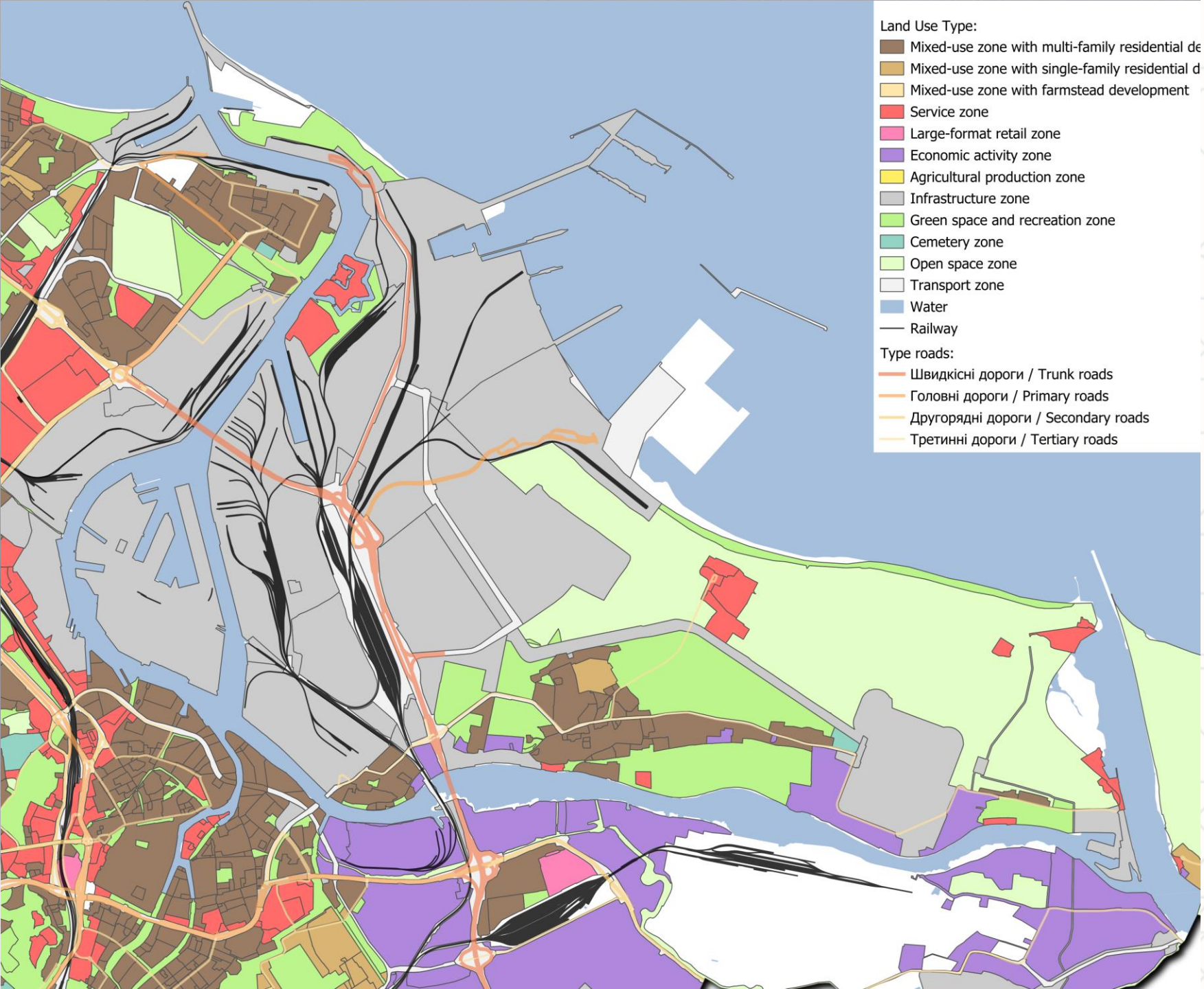
LOCAL LEVEL

CAPACITY OF STOGI ISLAND

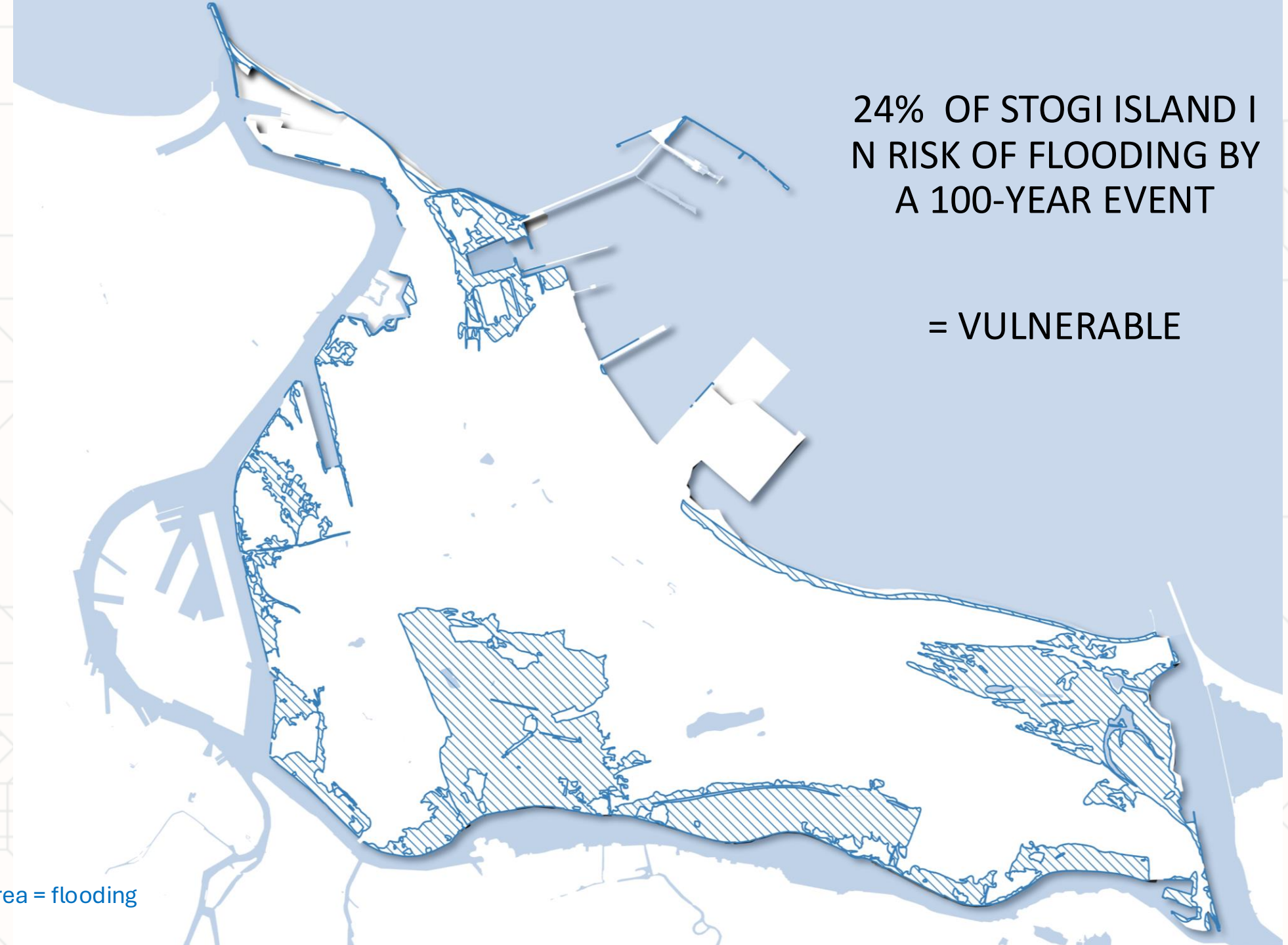


LIMITED SPACE

STRONG STAKE-HOLDERS



INDUSTRY VS. NATURE

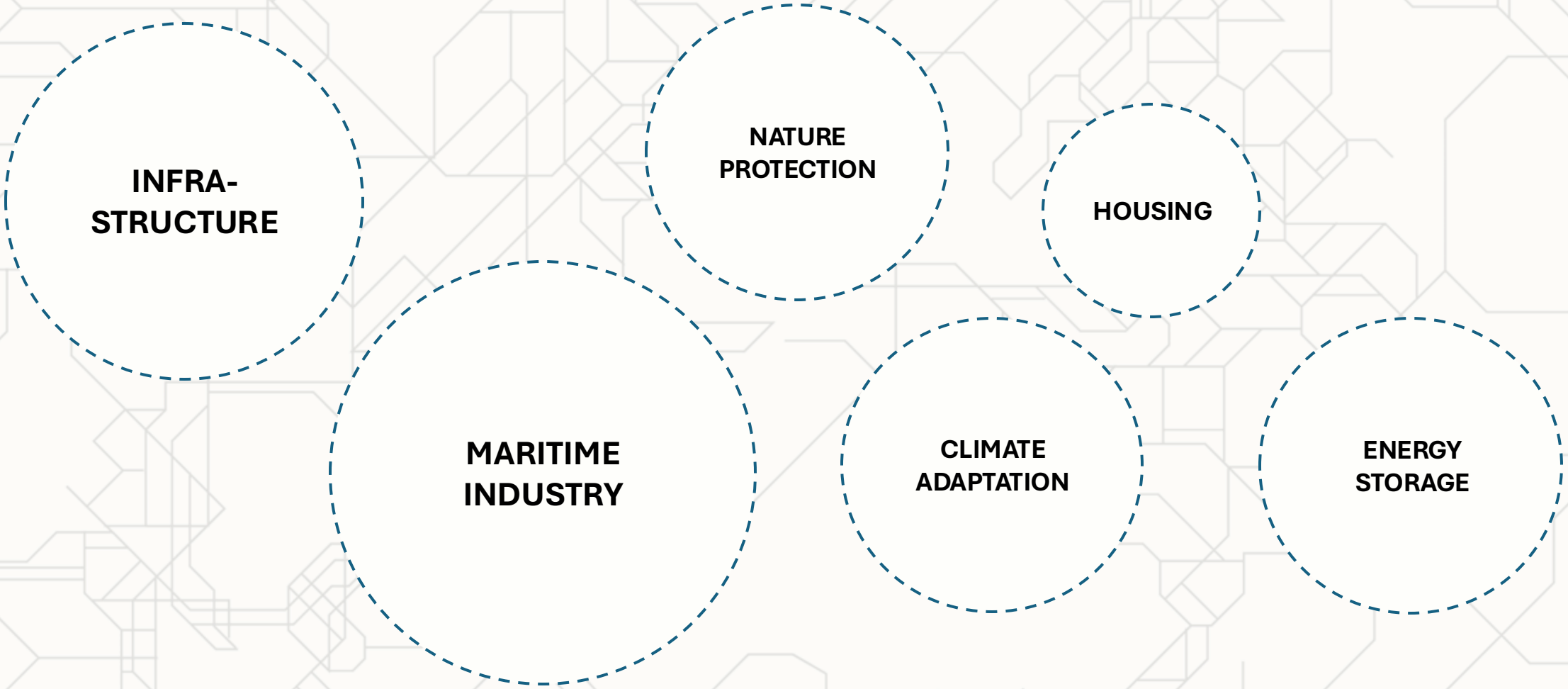


24% OF STOGI ISLAND I N RISK OF FLOODING BY A 100-YEAR EVENT

= VULNERABLE

Legend:
Blue hatched area = flooding

FUTURE SPATIAL NEEDS AT STOGI ISLAND



VISION FOR PORT OF GDANSK:

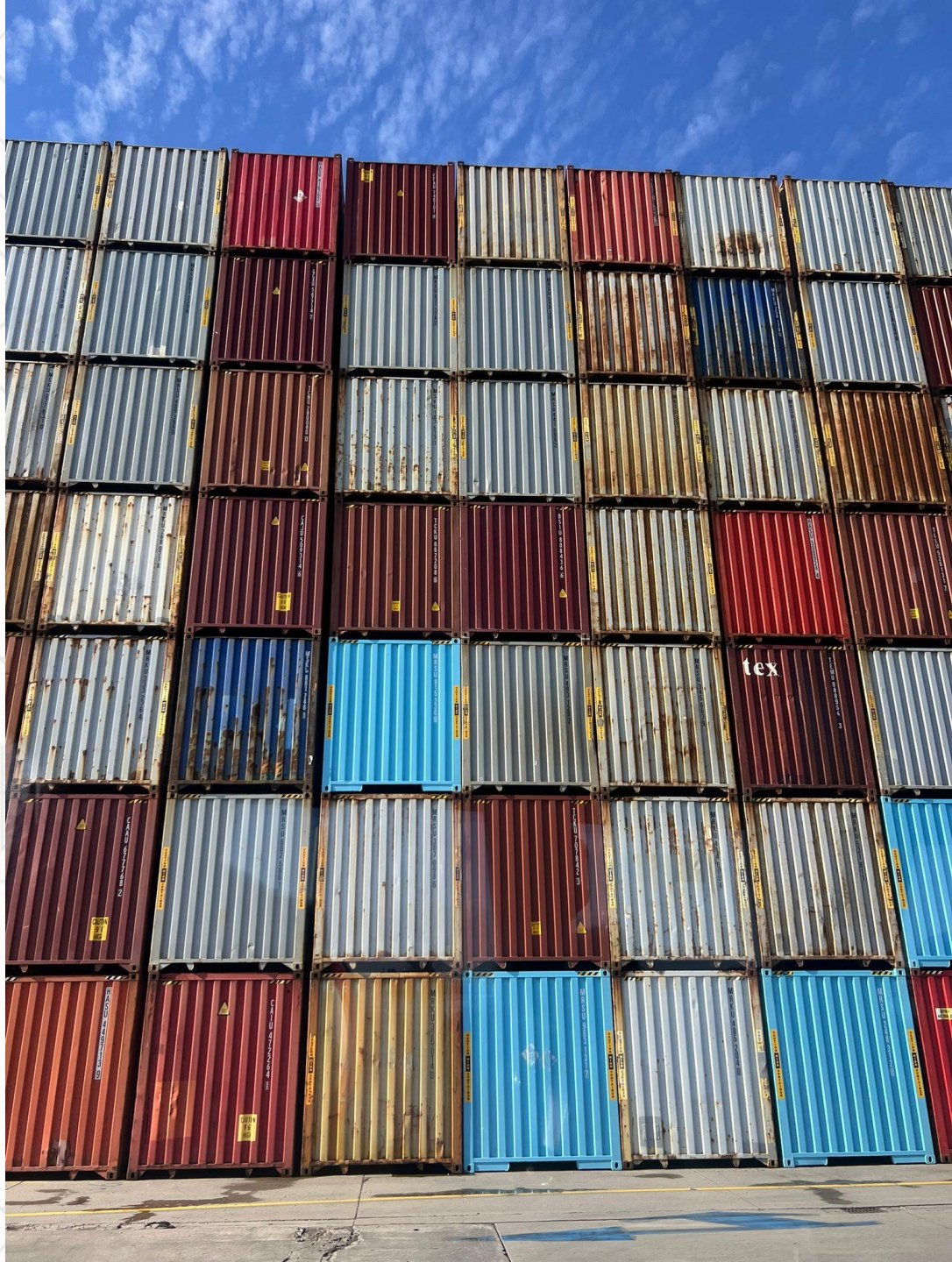
DRIVER OF THE POMERANIAN REGION



VISION FOR STOGI ISLAND

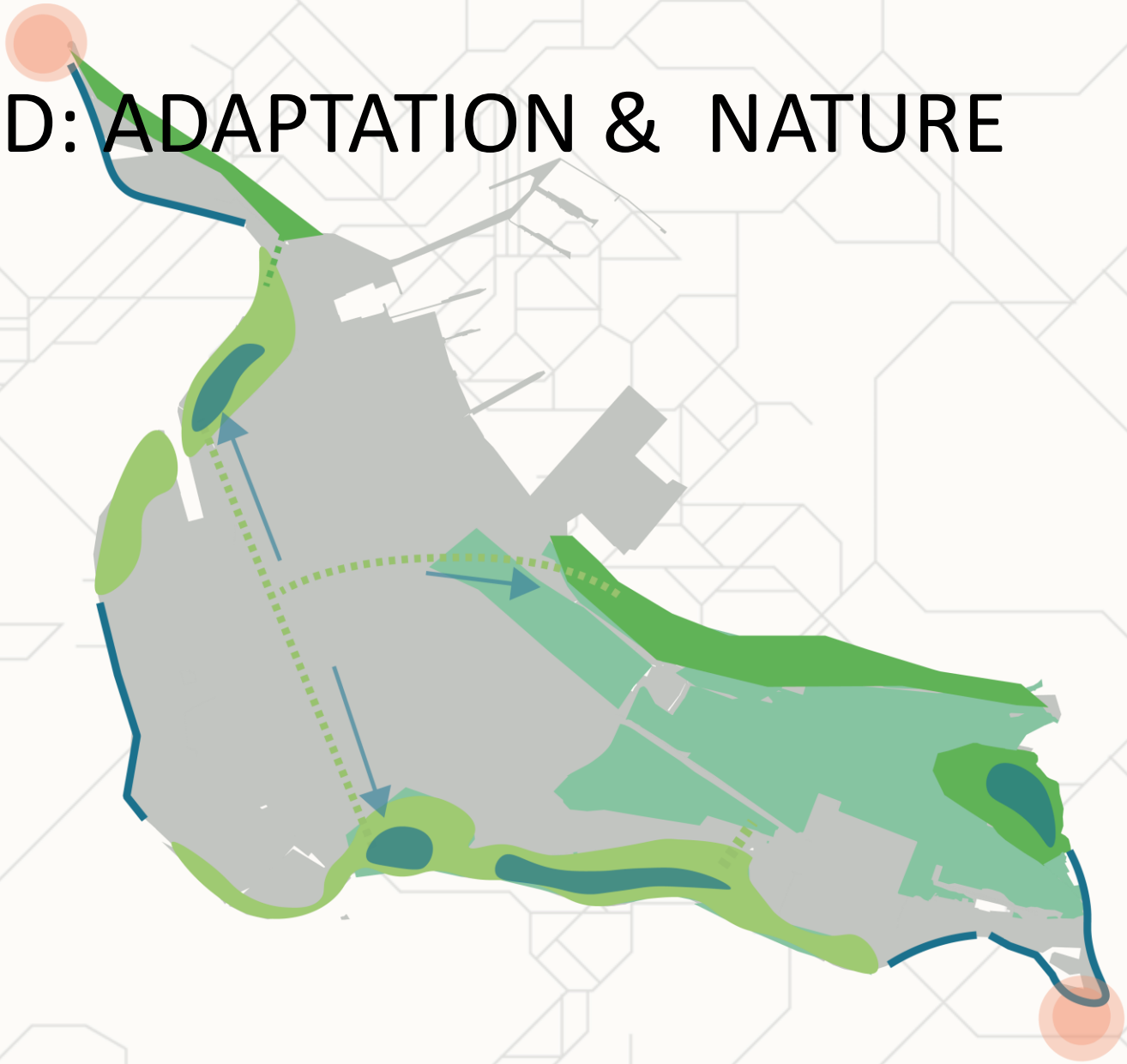
PLANING PRINCIPLES

- Only companies with need for sea access should be on Stogi Island
- Climate adapted
- Connectivity
- Green corridors
- Liveable city
- Multi-use

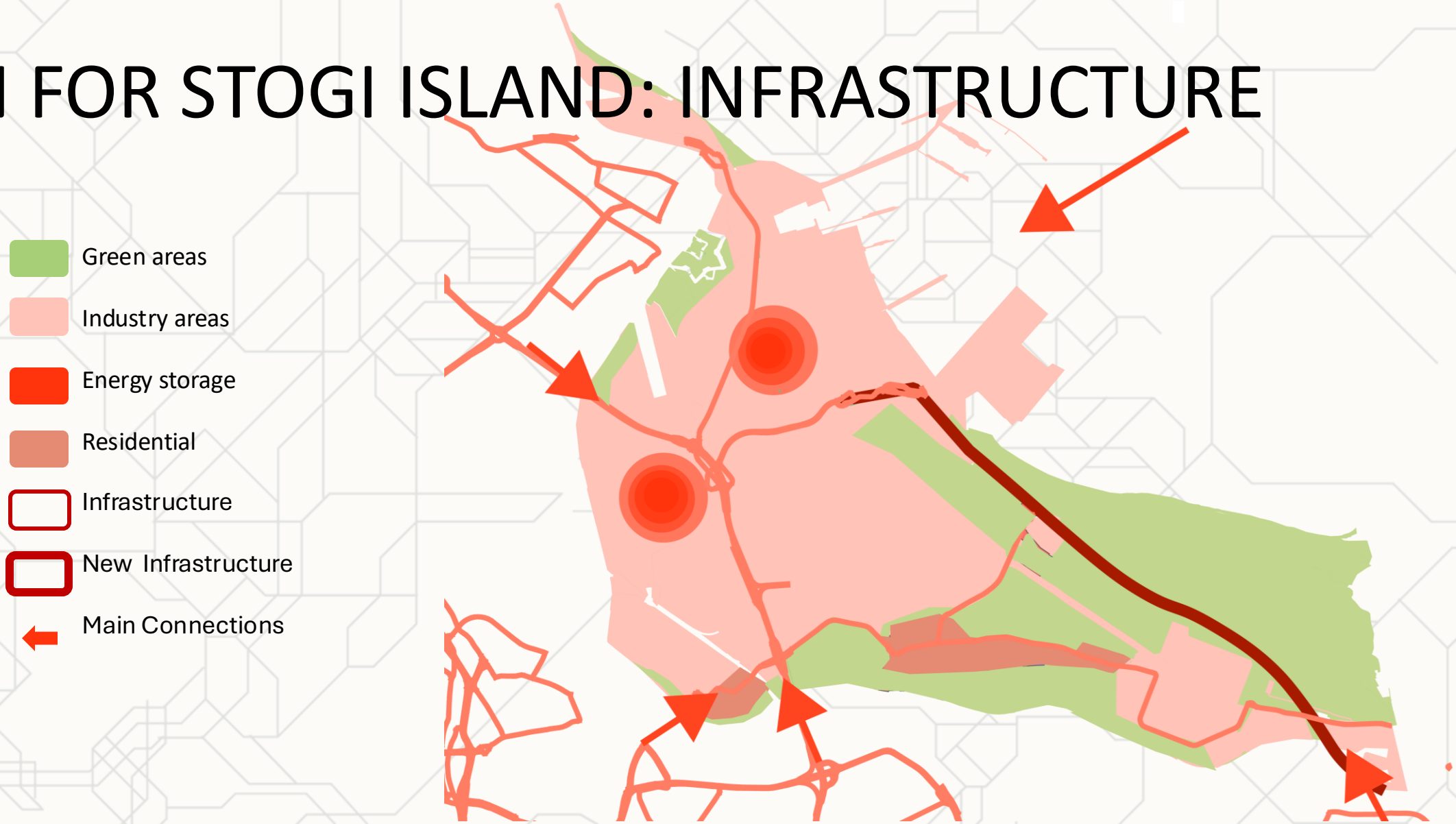


VISION FOR STOGI ISLAND: ADAPTATION & NATURE

- NBS in Built-Up Areas
- NBS in Natural Areas
- Built areas
- Nature
- High water gate
- Wetland
- Eco seawall
- Green corridor



VISION FOR STOGI ISLAND: INFRASTRUCTURE



CONCLUSION: CAPACITY OF STOGI IS LIMTED

ENERGY MUST BE A REGIONAL MATTER



REGIONAL LEVEL

VISION FOR THE POMERANIAN REGION + POLAND

- SELF-SUSTAINABLE WITH RENEWABLE ENERGY
- SUPPORT SYSTEM FOR THE DRIVER (PORT OF GDANSK)



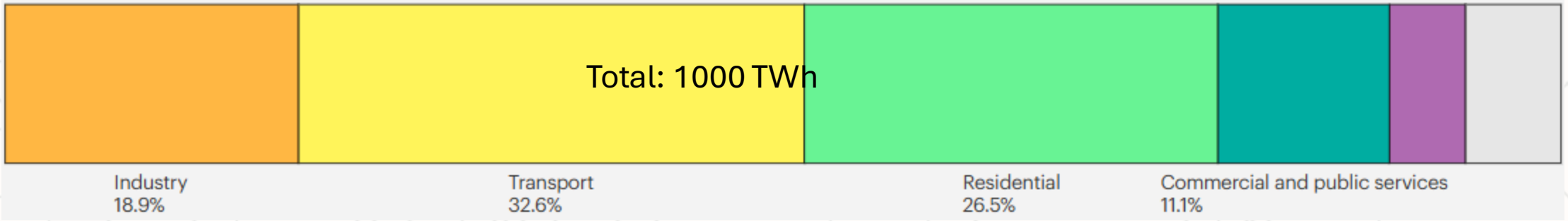
VISION FOR THE POMERANIAN REGION + POLAND

PLANNING PRINCIPLES

- Decentralization of energy sources, where possible
- Centralization of energy sources, only where needed
- Diversification of energy sources
- Multi-use



ENERGY IN POMERANIA AND POLAND



Energy in Poland 2023, https://www.iea.org/countries/poland/energy-mix, 8/26/2026

- Carbon neutrality: Electrification needed
- Energy potentials in Poland

Wind		Solar	Biomass	Total
Offshore	Onshore			
115 TWh	171 TWh	775 TWh	107 TWh	1.168 TWh

- Local needs for realization
  - Space, which is not protected in terms of nature or culture
  - Constant wind or solar energy
  - Connection to the grid

ENERGY IN POMERANIA AND POLAND

GENERAL NEEDS FOR REALIZATION:

- Technical: Energy buffers and grid reinforcement
- Political: Legislative amendments for multi-use (solar), spatial planning for wind and political will

HOW TO DEVELOP AN ENERGY HUB IN GDANSK?

- Installation of windfarms
  - ➢ Keep installation know-how for services
- Production of components (steel)
  - ➢ Expand facilities and capabilities
- Refinery (already existing)
  - ➢ Introducing Power to X-technologies

MACRO-REGIONAL LEVEL



VISION FOR THE BSR

RESILIENT THROUGH:

- ENERGY INDEPENCE
- GREEN TRANSITION

"Carbon neutral, decentralised, secure and independent energy in the Baltic Sea Region by 2040" - VASAB VISION 2040

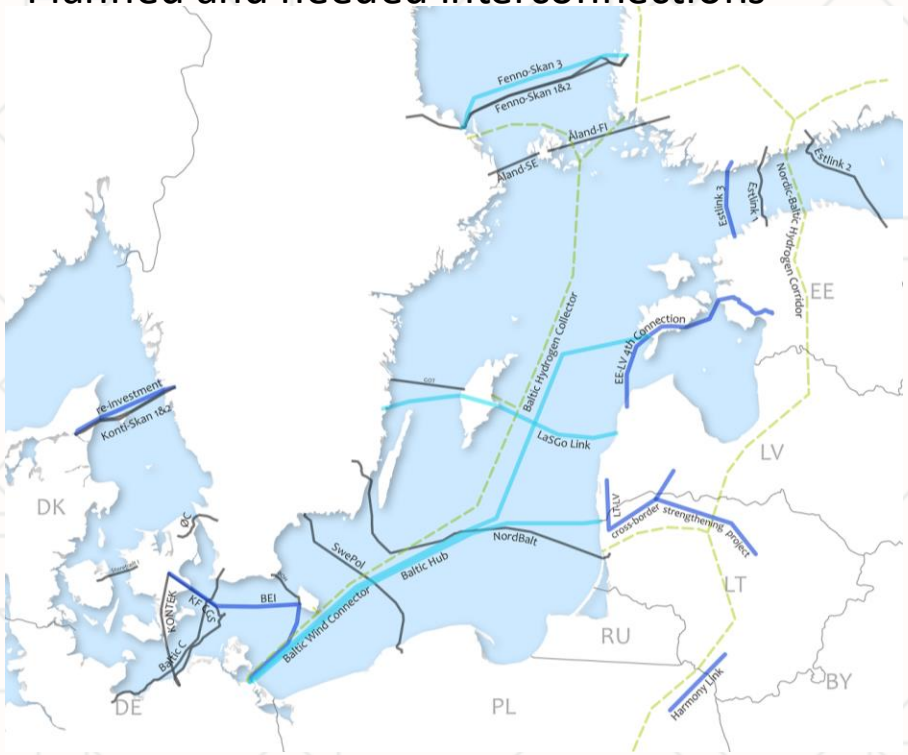
VISION FOR BALTIC SEA REGION

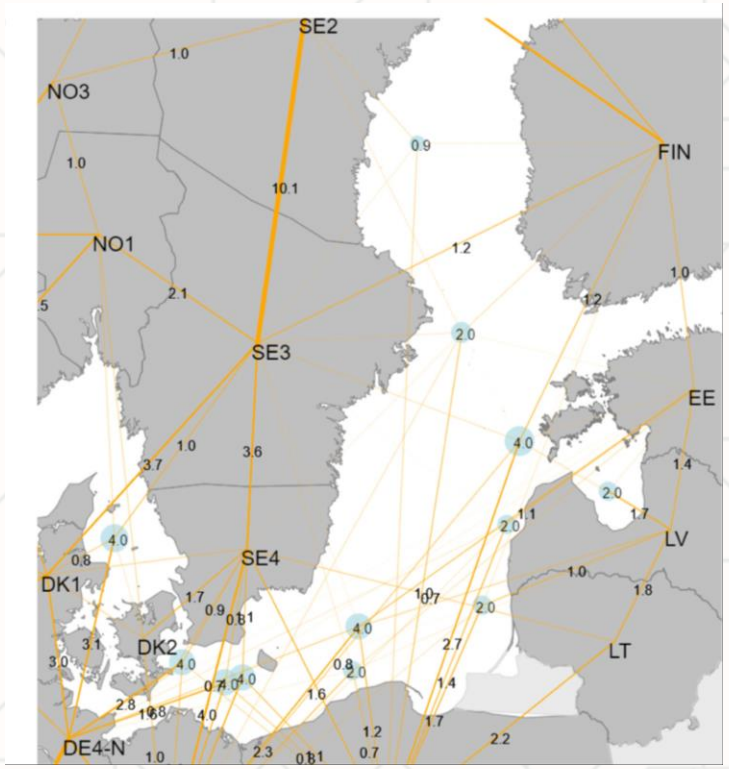
PLANNING PRINCIPLES

- Sustainable development
- Cross border cooperation
- Cohesive planning
- Early dialogue
- Decentralization
- Multi-use
- Resilience
- European energy independence

ENERGY IN THE BALTIC SEA REGION

- Common potential for Offshore Wind in Baltic Sea: 85-93 GW (Poland 33 GW)
- Planned and needed interconnections





Left: Planned interconnections: https://hydcworld.com/news/eight-baltic-sea-tsos-publish-roadmap-for-offshore-baltic-power-grid, 8/26//2026
Right: Needed interconnection for Carbon neutrality https://www.sciencedirect.com/science/article/pii/S0360544226006572, 8/262026

OTHER NEEDS IN THE BSR

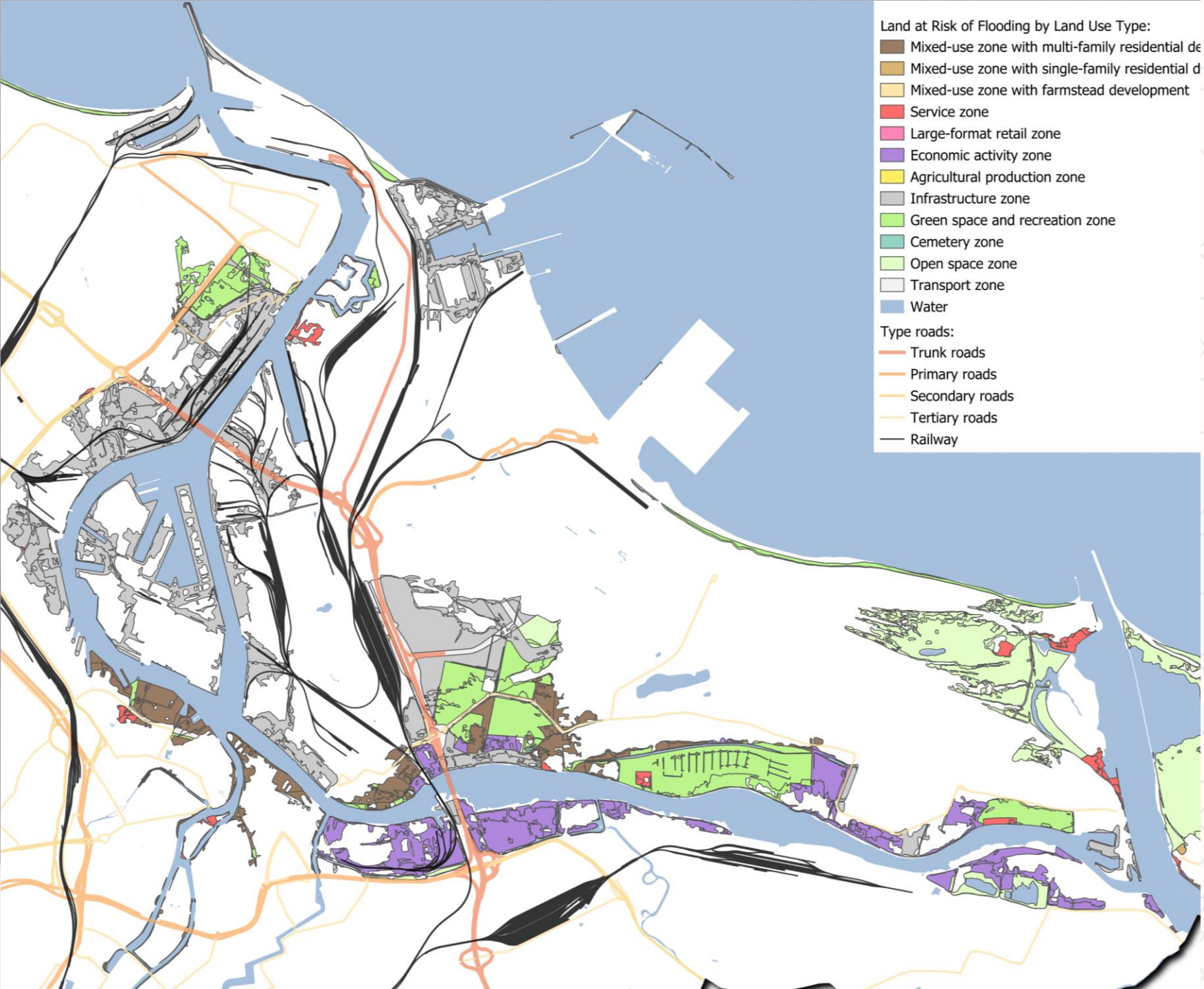
- GRID
- STEEL PORTS
- LOGISTICAL HUB
- WIND TURBINE PRODUCTION FACILITIES
- DESIGNATED OWF-AREAS
- SHIPPING CORRIDORS
- KNOW-HOW

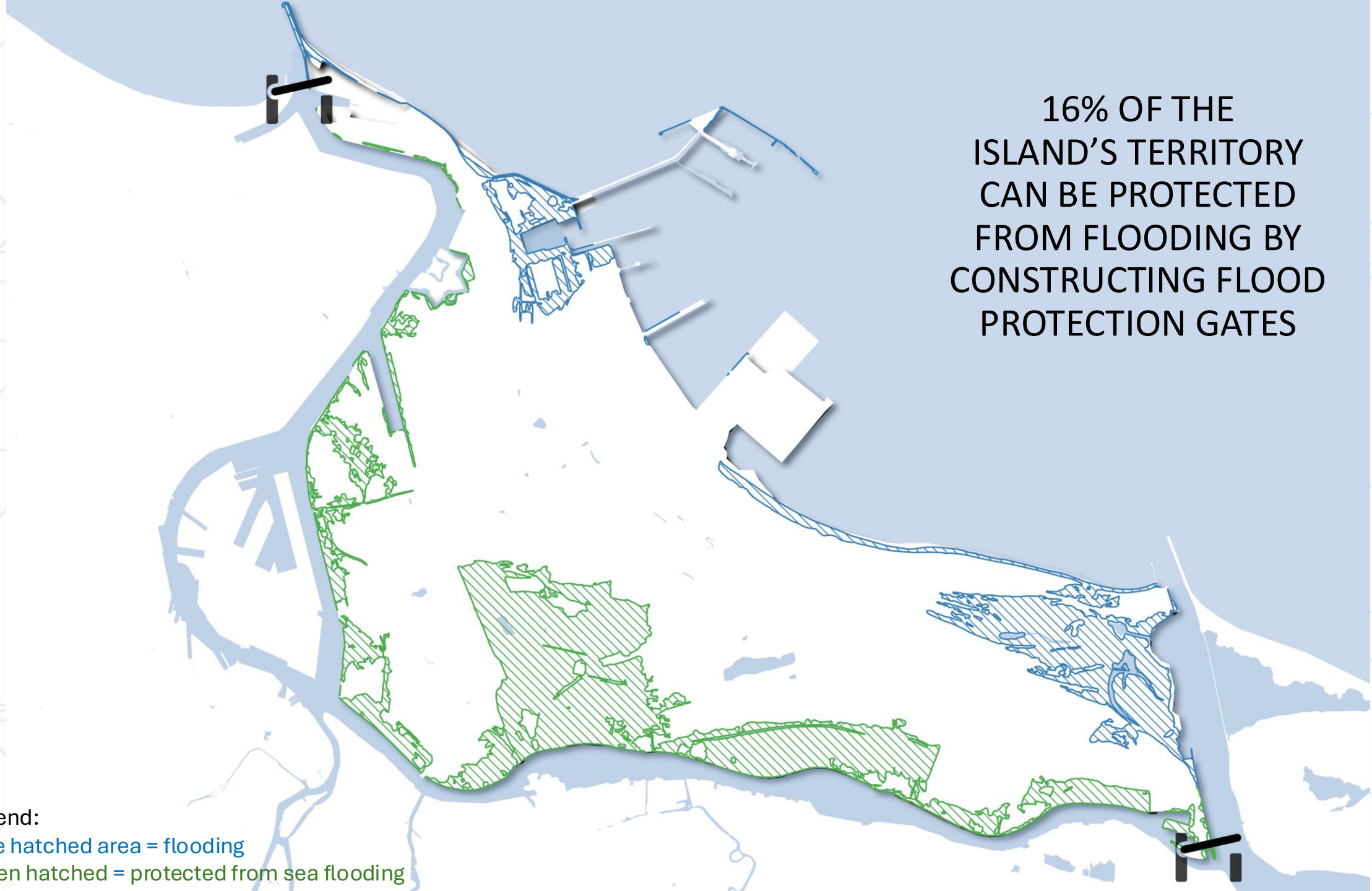
Less silos,
more cooperation


40%
40%
20%
REGIONAL
VASAB Vision
for the Territorial Development
of the Baltic Sea Region in 2040
UKRAINE
ALTO

THANK YOU!

FLOOD + LAND USE





16% OF THE ISLAND'S TERRITORY CAN BE PROTECTED FROM FLOODING BY CONSTRUCTING FLOOD PROTECTION GATES

Legend:
Blue hatched area = flooding
Green hatched = protected from sea flooding

CRITERIA for areas

ENERGY COMMUNITIES

1. High population and dense areas.
2. Renewable energy potential
3. Prioritizing critical infrastructure and vulnerable areas
4. The proximity of buildings

SOLAR PANELS

1. Active agriculture areas (prioritise).
2. Solar energy potential
3. Grid accessibility and energy demand
4. Climate and agricultural resilience (panels protecting crops physically)

MULTI USE offshore wind turbines

1. Wind potential in area
2. Aquaculture and environmental potential
3. Proximity to grid and port
4. Suitable water depth

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