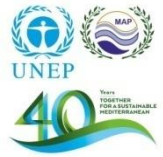
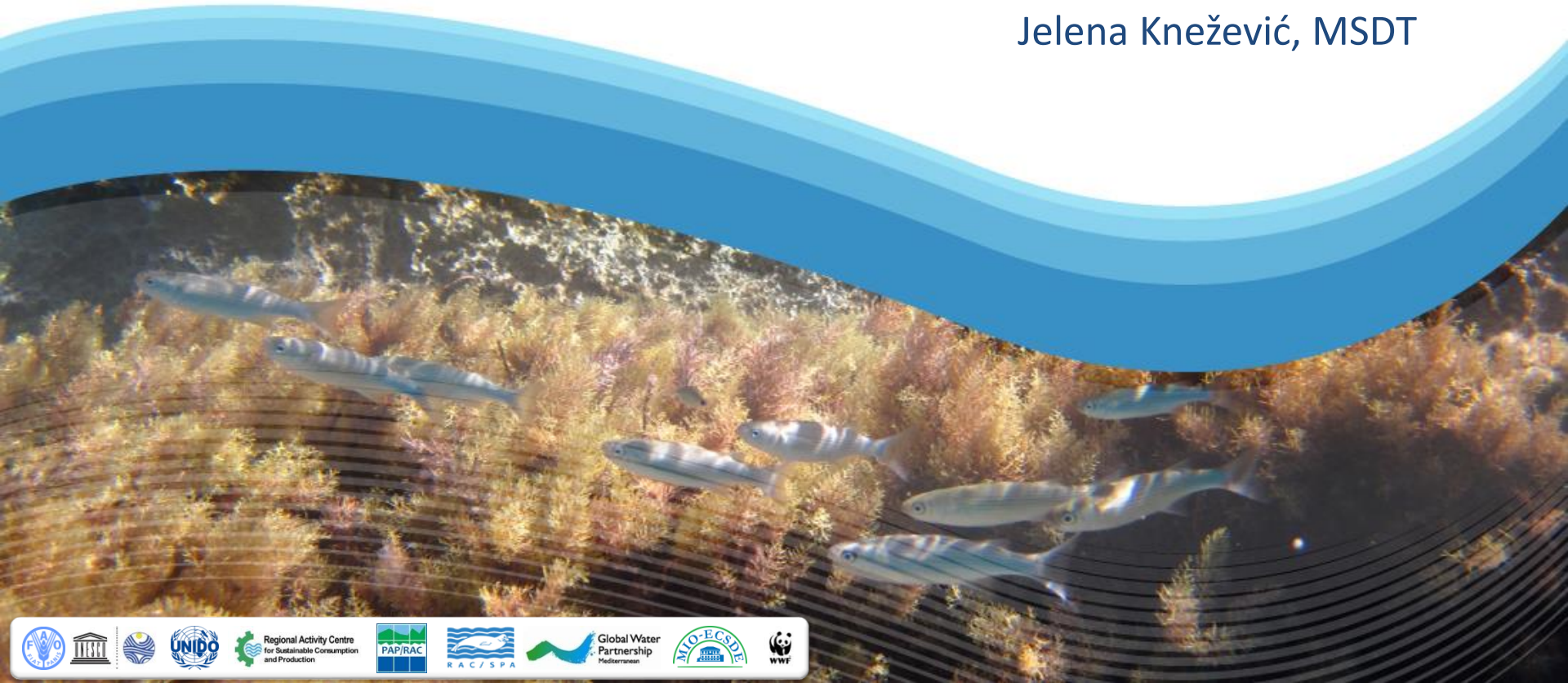


TRANSBOUNDARY INTEGRATED NATURAL RESOURCES MANAGEMENT PLAN FOR BUNA/BOJANA



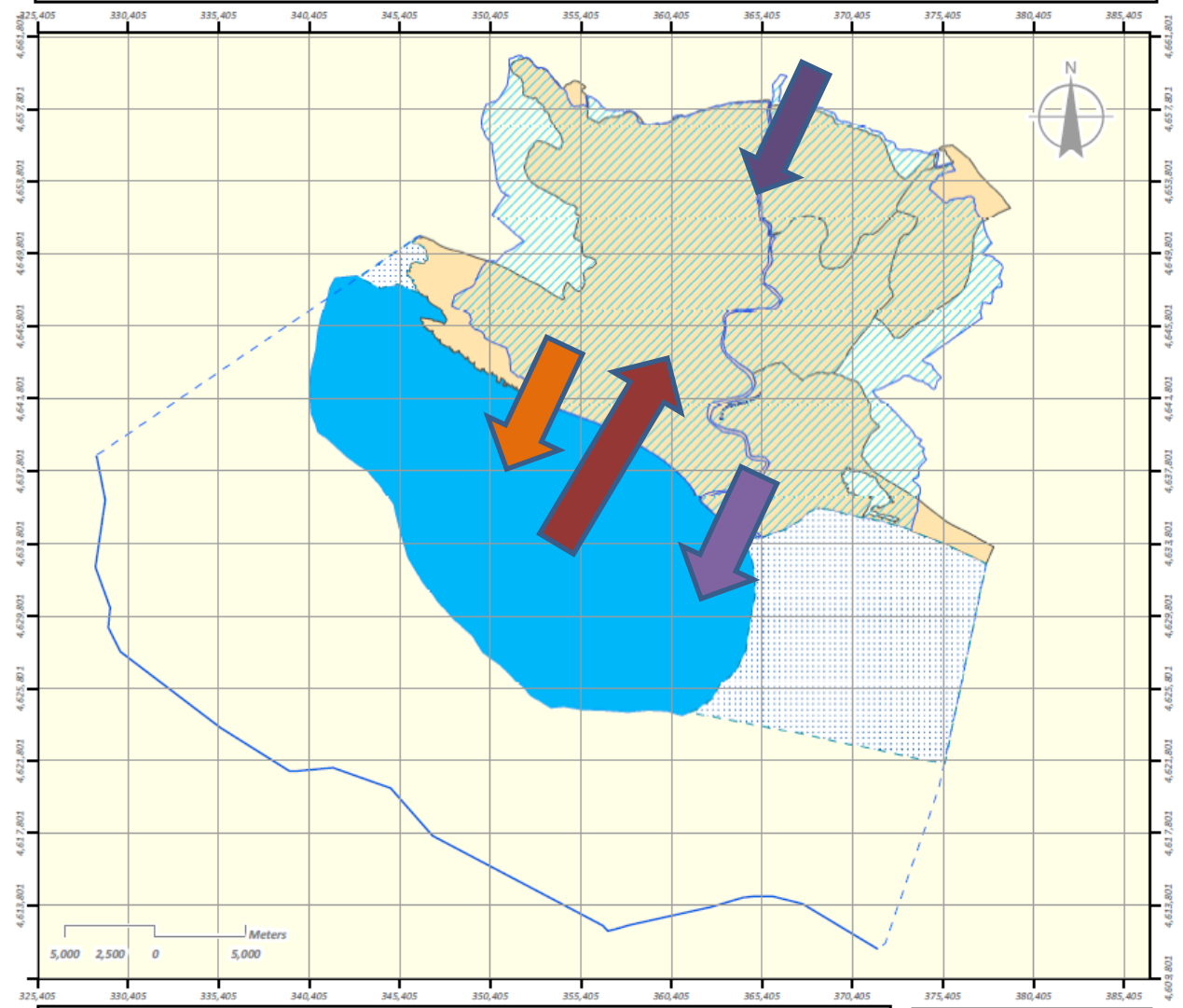
Jelena Knežević, MSDT



THE CONTEXT

Transboundary zone: river watershed, coastal and marine zone

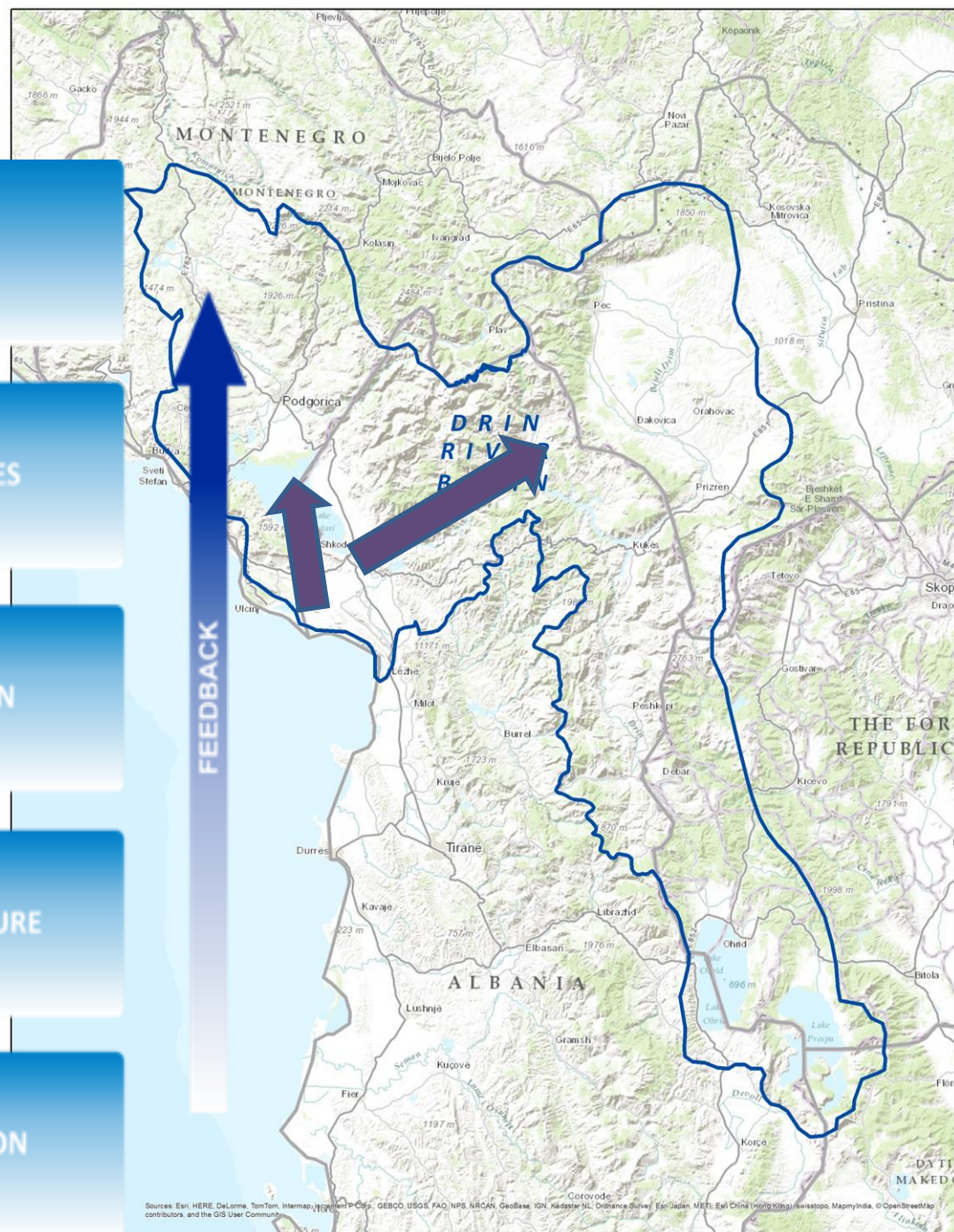
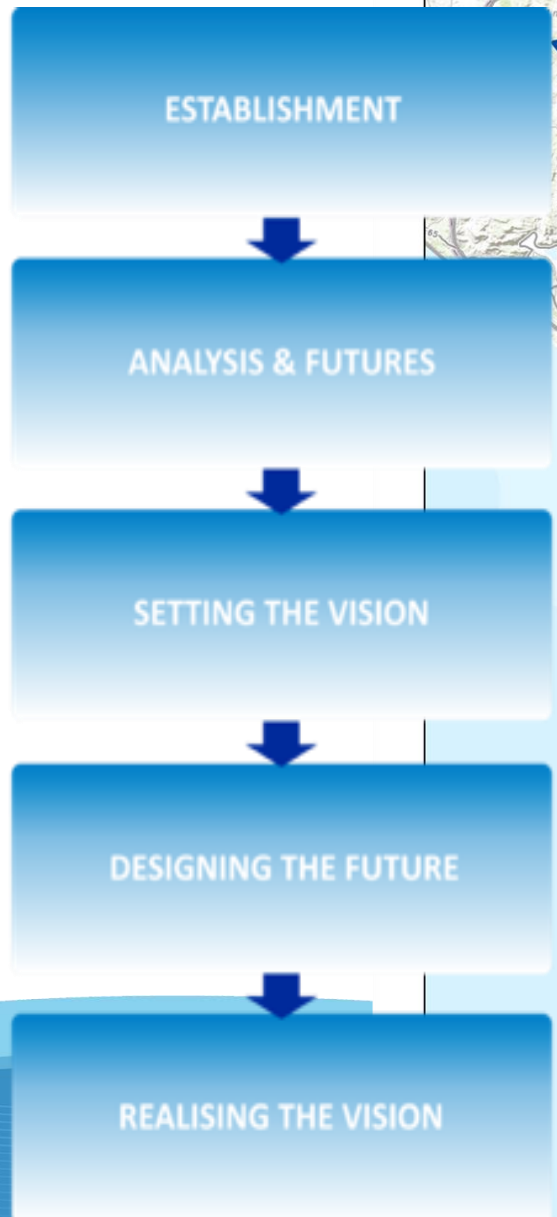
- **Integration**
Factors: Spatial areas, Natural environment and resources, Administration at national and transboundary level, Economic activities, Management etc.
- **Water:** bloodstream of the economy and nature



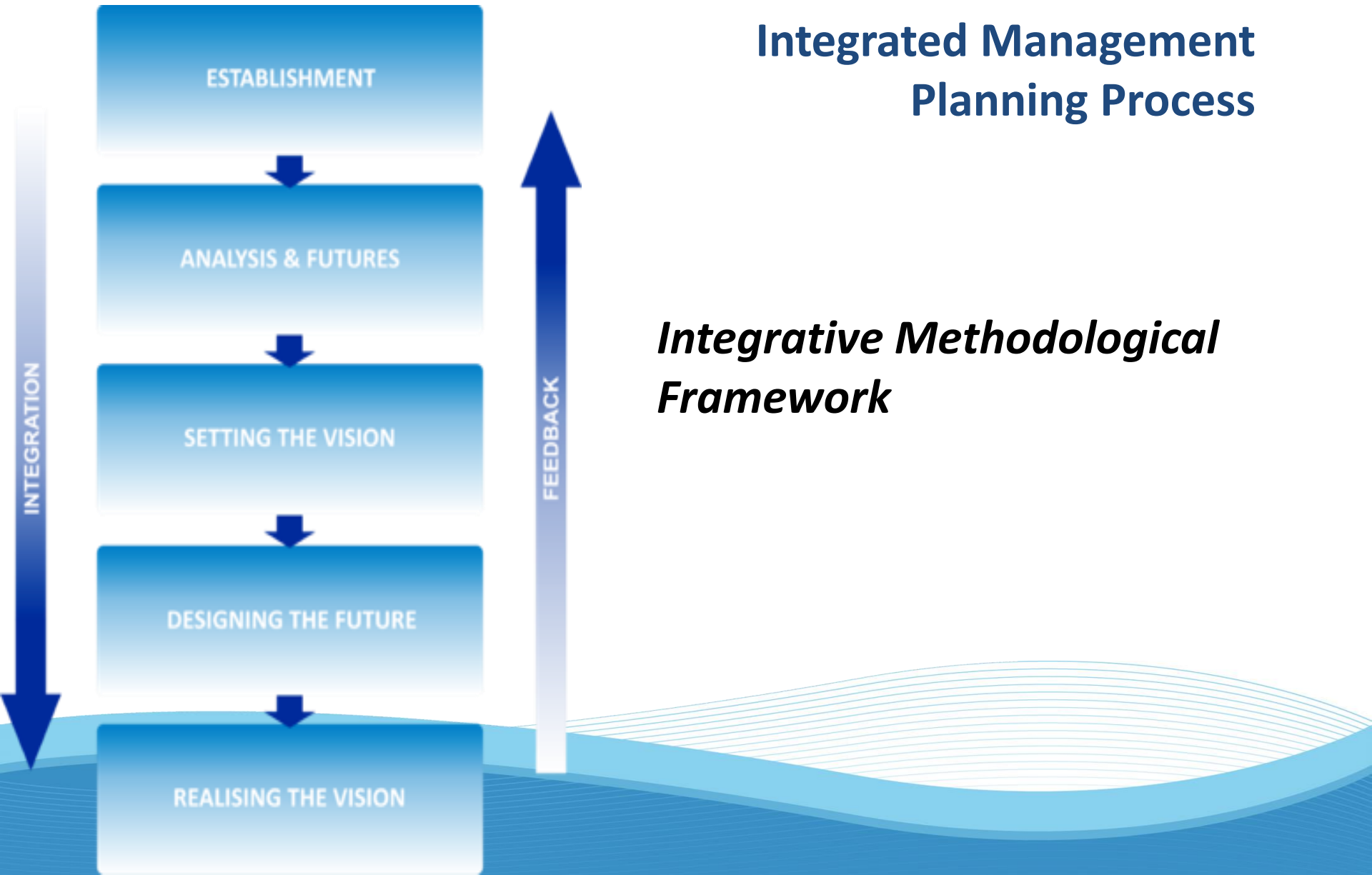
Legend

Administrative boundary	Albania marine area
River watershed	35_psu isolines





Sources: Esri, HERE, DeLorme, TomTom, Intermap, incrementP Corp., GEBCO, USGS, FAO, NPS, NRCAN, Geobase, IGN, Kadaster NL, Ordnance Survey, Esri, Japan, METI, Esri, China (Hong Kong), Swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community





Real world application of the **Integrative Methodological Framework**

ICZM taking into account IWRM considerations

Includes the River and its catchment, the underlying aquifers and the coastal waters

THE APPROACH

The team of work

- **3 International organisations: GWP-Med; PAP/RAC; UNESCO-IHP**
- **Two teams of national experts, one in Albania and one in Montenegro**
 - Biology
 - Spatial Planning
 - GIS expert
 - Pollution
 - Hydrology - Hydrogeology
 - Socio-economy
 - Stakeholders Analysis
 - Climate Change
 - Oceanography and coastal dynamics
- **International experts**

THE APPROACH

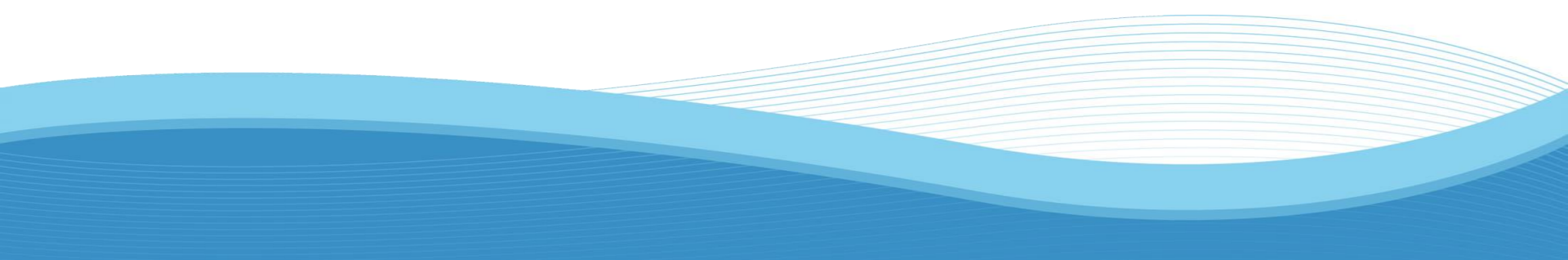
Data

- Provided by national experts
- Limitations in quality and quantity resulting in issues in applying scientific techniques, and increased uncertainty in results [data-series regarding pollution, biodiversity, habitat maps, land uses (old Corine 2006 data), orthophotos, etc.]
- Additional work and research
 - Sampling and Analysis for Pollution of surface waters
 - Sampling and Analysis for bio-indicators (macro-invertebrates) for ecological status characterisation



Stakeholders Involvement

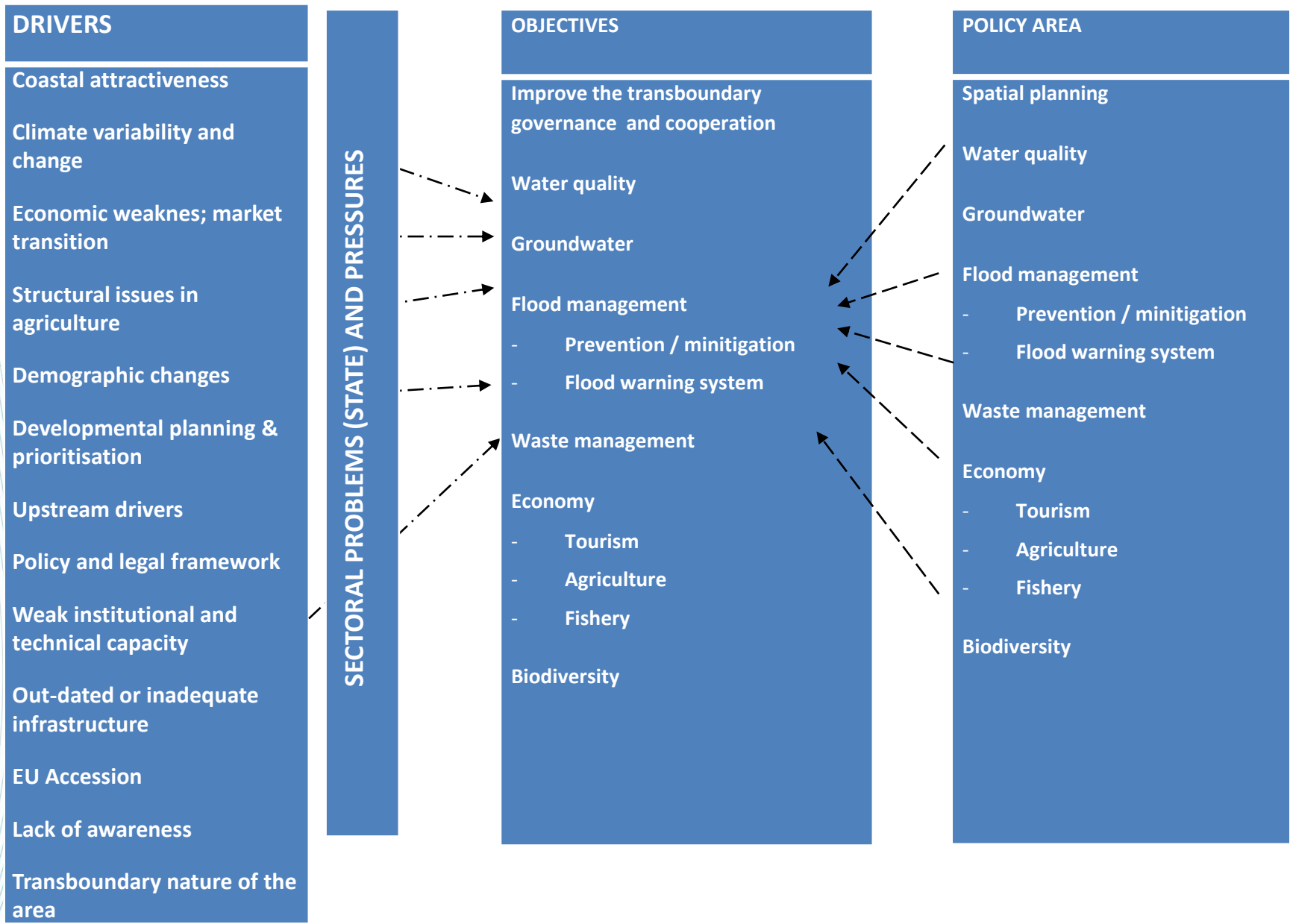
- Initial Consultation meeting
- Stakeholders Analysis
 - Research by the National Consultants
 - Focus groups **Montenegro**
 - Municipality of Bar with local authorities, NGOs and private sector representatives;
 - Municipality of Ulcinj with local authorities
 - Municipality of Ulcinj with NGOs and civil society
 - Municipality of Ulcinj with private sector representatives
 - Visits in the wider area in Montenegro and Albania and interviews (>30) with stakeholders
 - Interviews with stakeholders



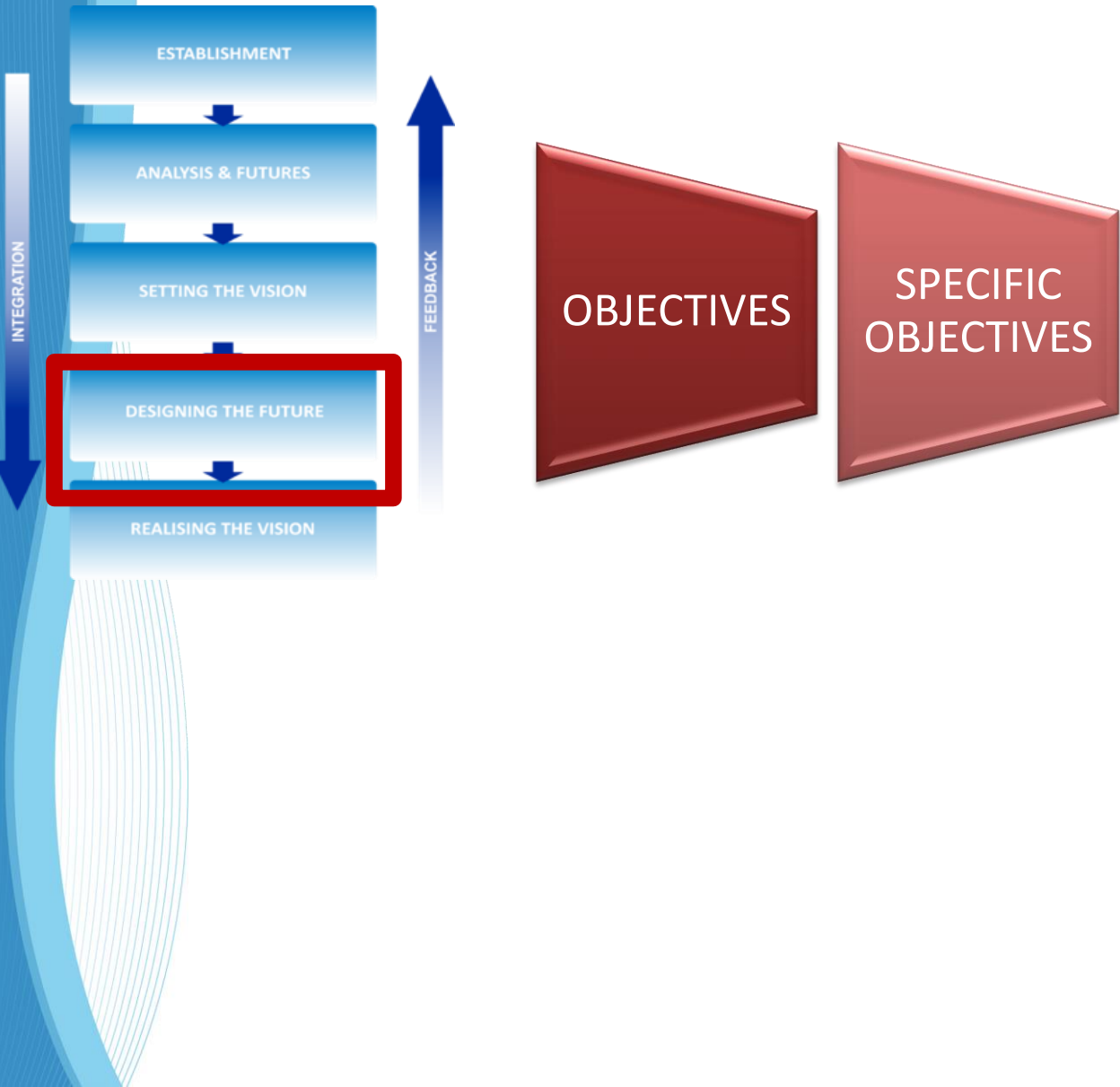


List of Stakeholders interviewed in Montenegro

- | | |
|-----|--|
| 1. | Ministry of Sustainable Development and Tourism |
| 2. | Ministry of Agriculture and Rural Development – Water Administration |
| 3. | Public Water and Sewer Bar – Public Utility Company Bar |
| 4. | Public Water and Sewer Ulcinj – Public Utility Company Ulcinj |
| 5. | NGO Green Home |
| 6. | PE „Morsko dobro“, Budva |
| 7. | Prokon jsc – Vodacom jsc |
| 8. | Ministry of Economy |
| 10. | Tourism organization Ulcinj |



THE PLAN



Framework Agreement for the Sustainable Management of Skadar/Shkodra Lake Basin and Buna/Bojana Area

- **Objective**

To cooperate for the integrated sustainable management of the Skadar/Shkoder and Buna/Bojana area, as a means of achieving sustainable development leading to the creation of jobs and social welfare, and the safeguarding and, to the extent possible, restoration of the Area's ecosystems and the services that they provide.

- **Principles of cooperation**
 - Utilization of Natural Resources
 - Transboundary Impact
 - Polluter Pays Principle
 - Precautionary Principle
 - Ecosystem protection (forests, freshwater wetlands and floodplains and marine ecosystems)
 - Emergency

- **Obligations**

Work jointly: for the **sustainable development** of the economic sectors of **tourism, agriculture including livestock, fishing and transport** that are largely reliant on shared natural resources; to **minimise the adverse effects of the economic sectors**; improve management and disposal of **solid wastes**; cooperate for transportation, communication, to promote **regional cooperation**; **minimise effects of hydro-morphologic interventions** that alter the nature of the hydrologic system and the supported ecosystems resulting in their deterioration; to **minimise floods and droughts**, and their effects; protect the **quality of landscape** and work, in the extent possible, to remediate the adverse effects of **unsustainable physical and spatial development**; **improve the ecological and chemical status** of inland, underground, transitional and marine waters; protect, **conserve and enhance biodiversity**;

- **Measures to implement the Agreement**

- **Environmental Standards**
- **Information and Data Exchange**
- **Mechanisms of Cooperation Implementation and Monitoring:**
 - Ministerial Meeting
 - Commission (responsibilities and duties), meetings, decisions
 - Working groups
 - Secretariat of the Commission
 - Joint Coordination Committee



Thank you for your attention!

