

The Mediterranean Sea Programme (MedProgramme): Enhancing Environmental Security

Child Project 2.2 (GEF ID 9685)

Mediterranean Coastal Zones: Managing the Water-Energy-Food and Ecosystems Nexus.

Participating countries

Albania, Algeria, Bosnia and Herzegovina, Egypt, Lebanon, Libya, Montenegro, Morocco and Tunisia

The NEXUS and the Source-to-Sea approaches in the MedProgramme, from practice to policy

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Donor



Lead Agency



Mediterranean
Action Plan
Barcelona
Convention



Executing Partners

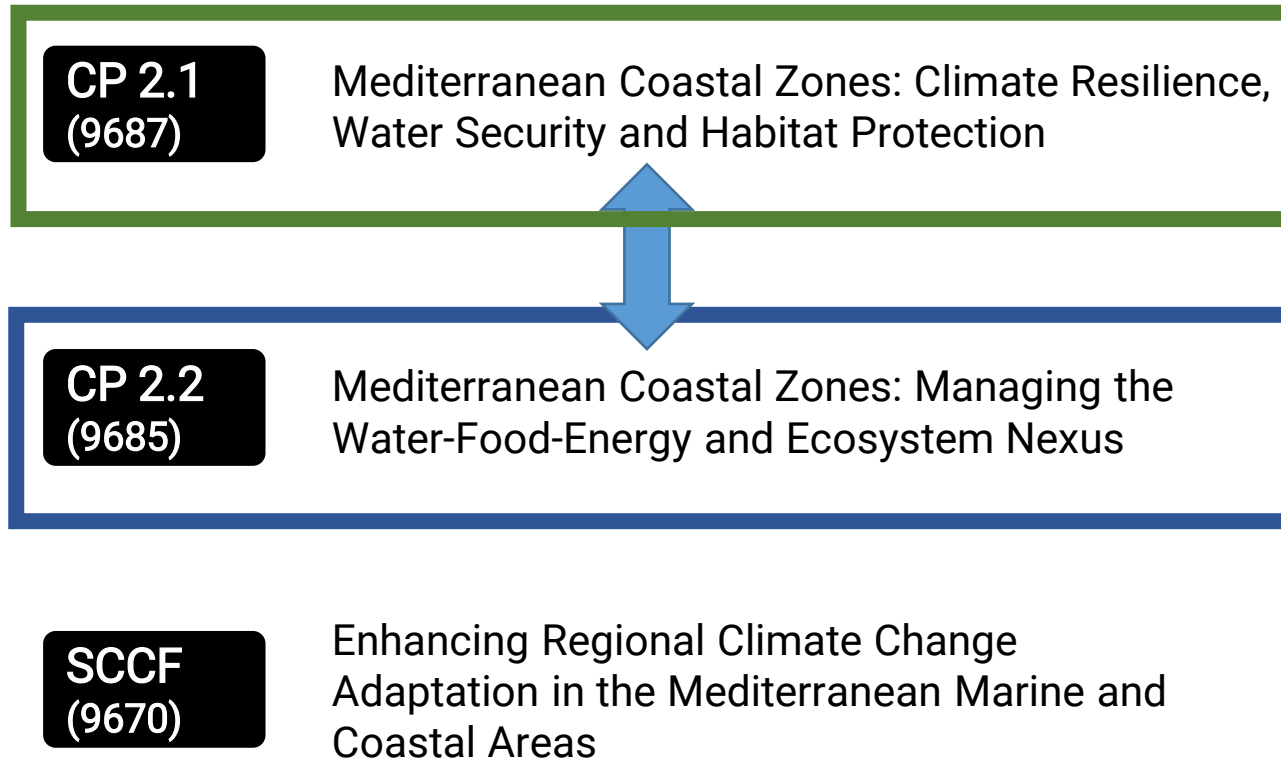


Component 2 MedProgramme: to support adaptation climatic change and to introduce land use policies and development practices respectful of the intrinsic vulnerabilities, gender equality, natural and cultural functions, freshwater-seawater interactions, and geological processes characterizing the diverse Mediterranean coastal zones: from karstic, to flood plain, to fluvial-deltaic, to barrier-strandplain.

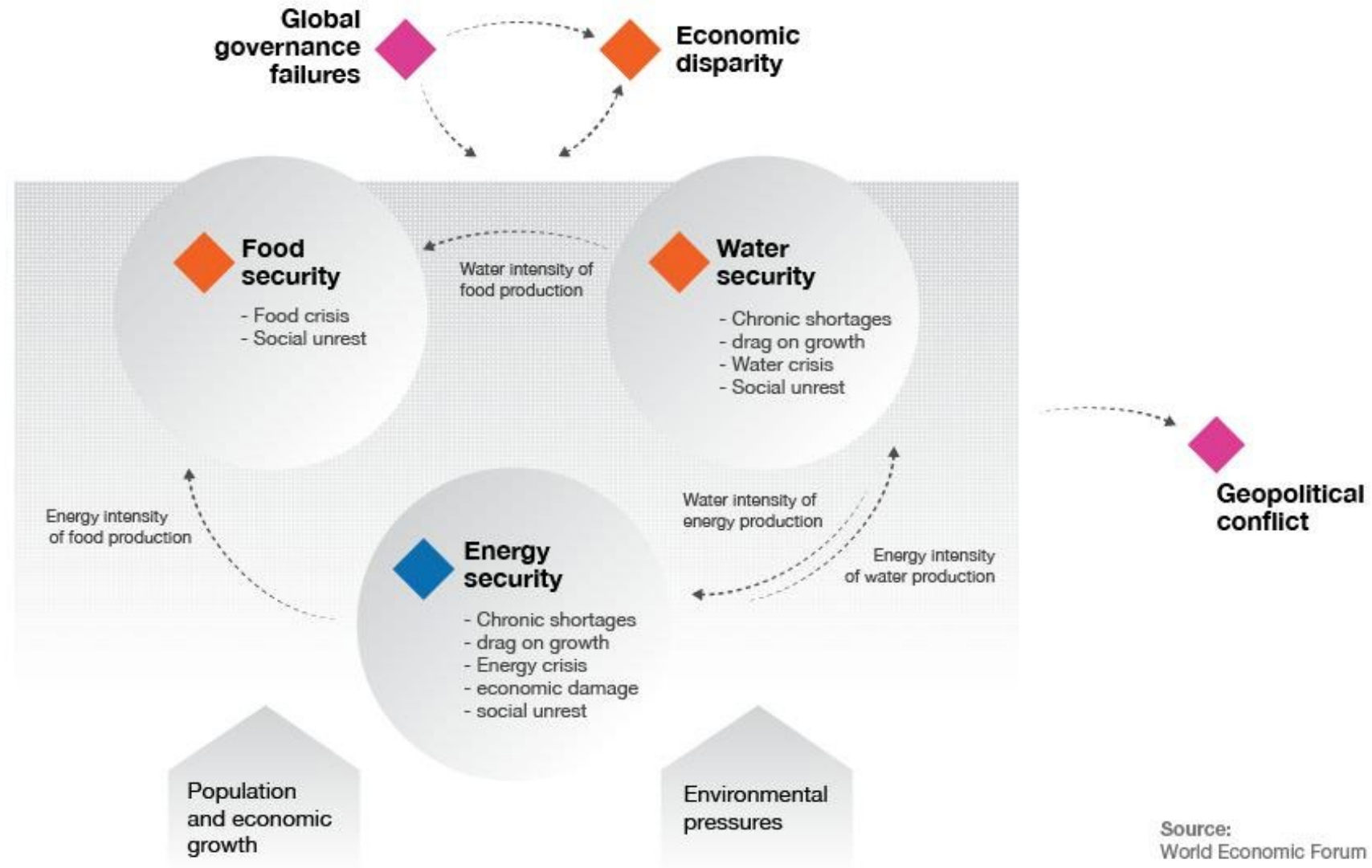
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Enhancing Sustainability and Climate Resilience in the Coastal Zone

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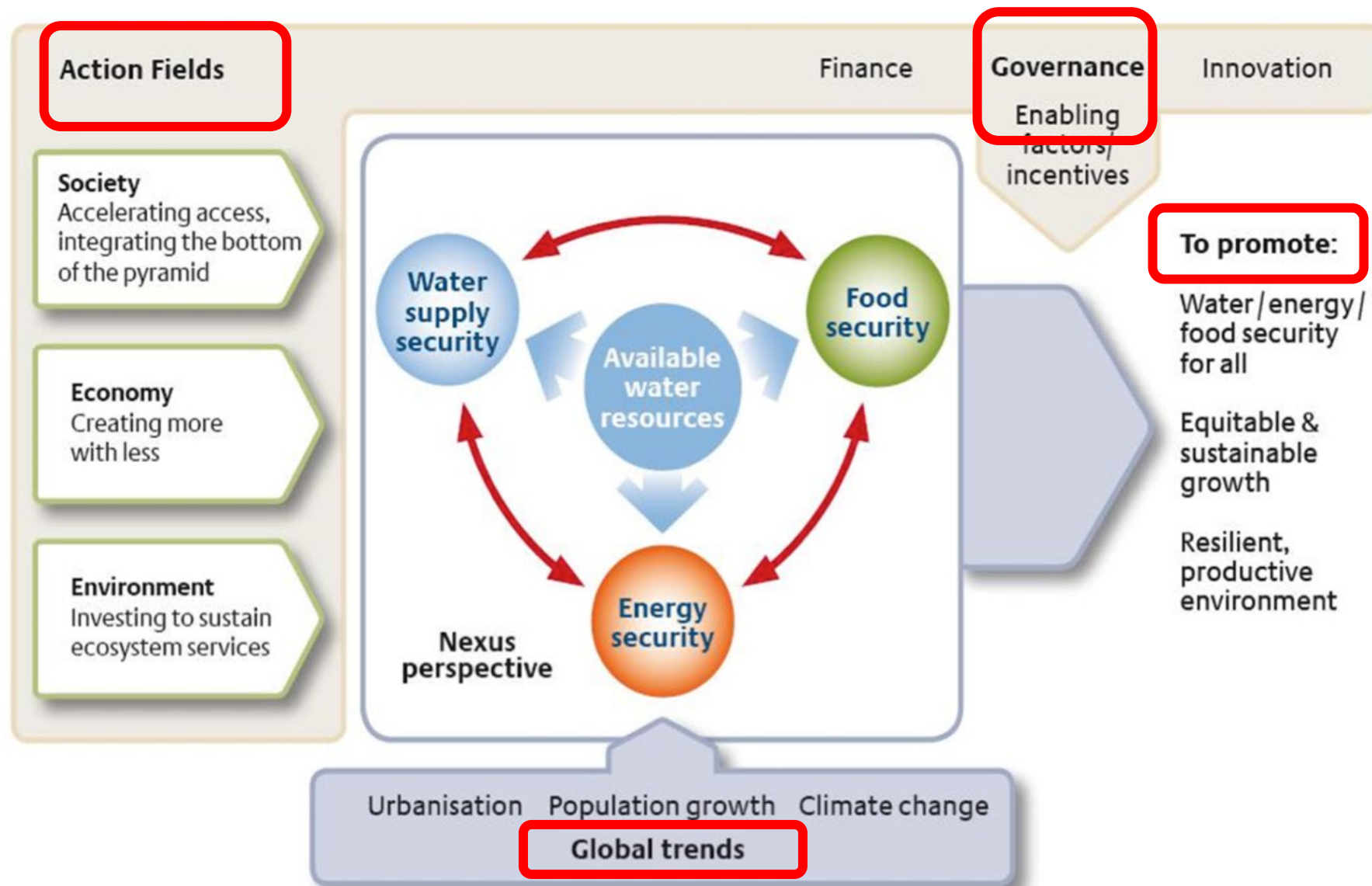


CP2.2 (GEF ID 9685): Overview



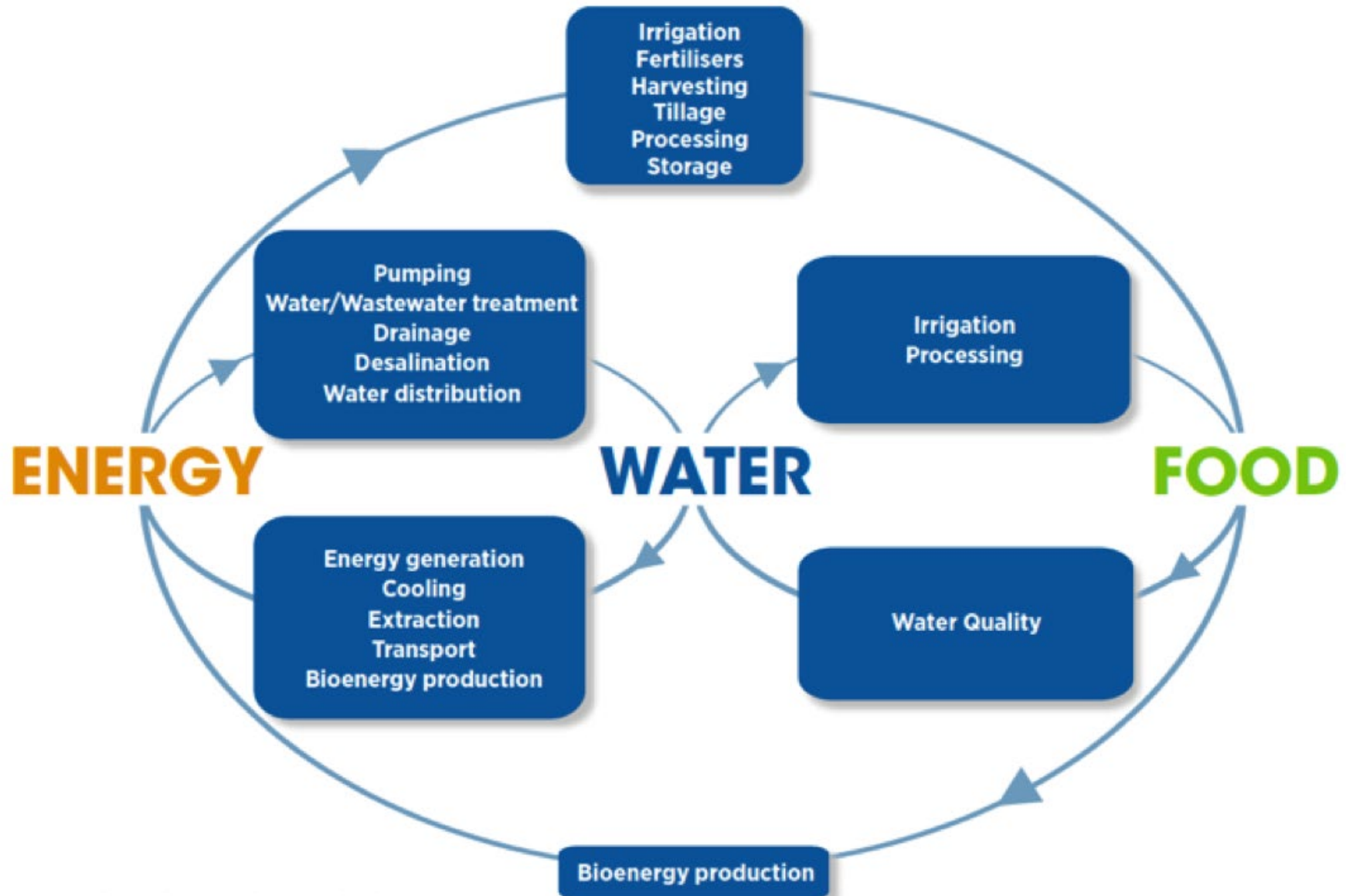
CP2.2 (GEF ID 9685): Overview

The Nexus Approach



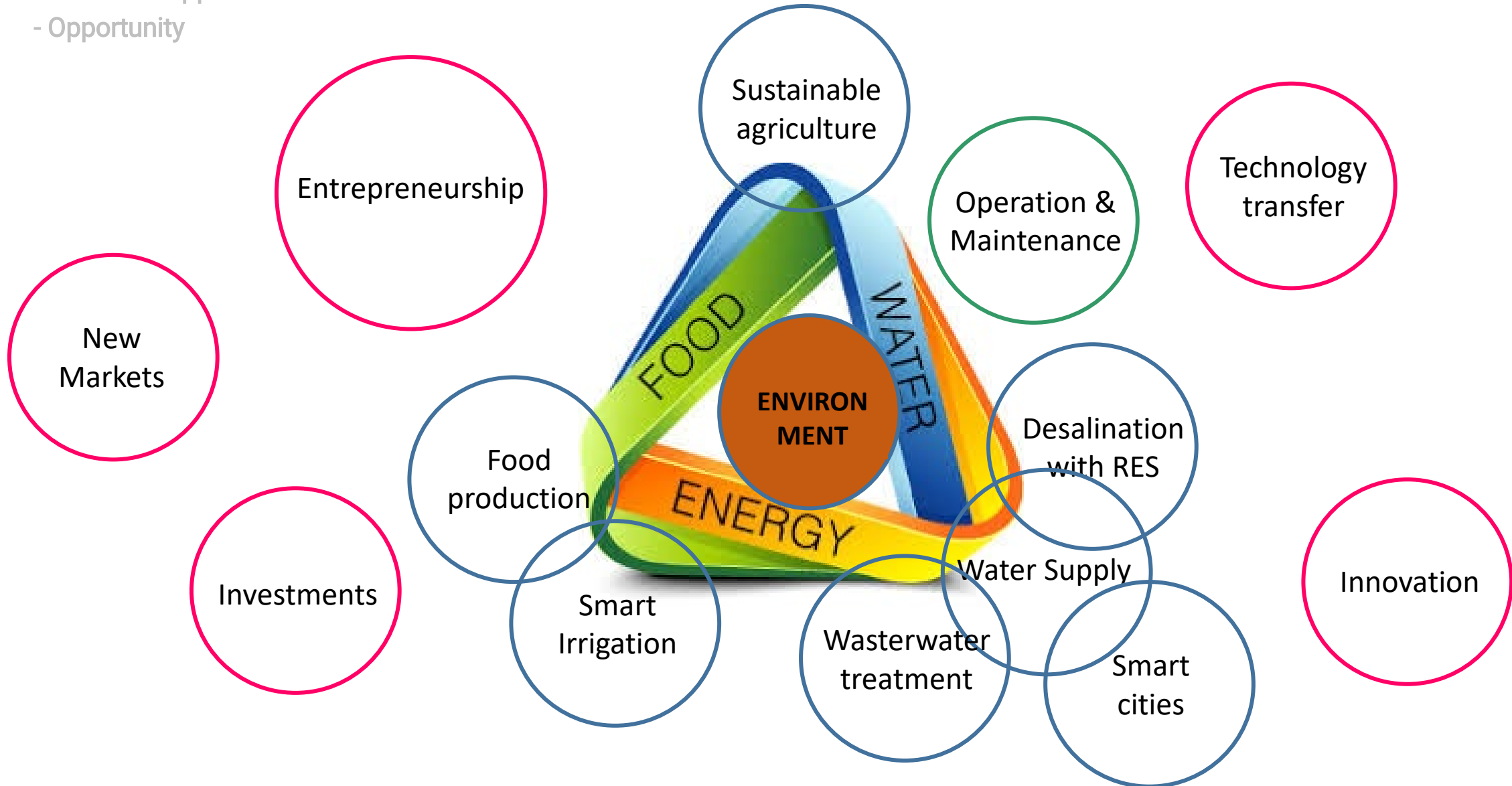
CP2.2 (GEF ID 9685): Overview

The Nexus Approach
- Interlinkages



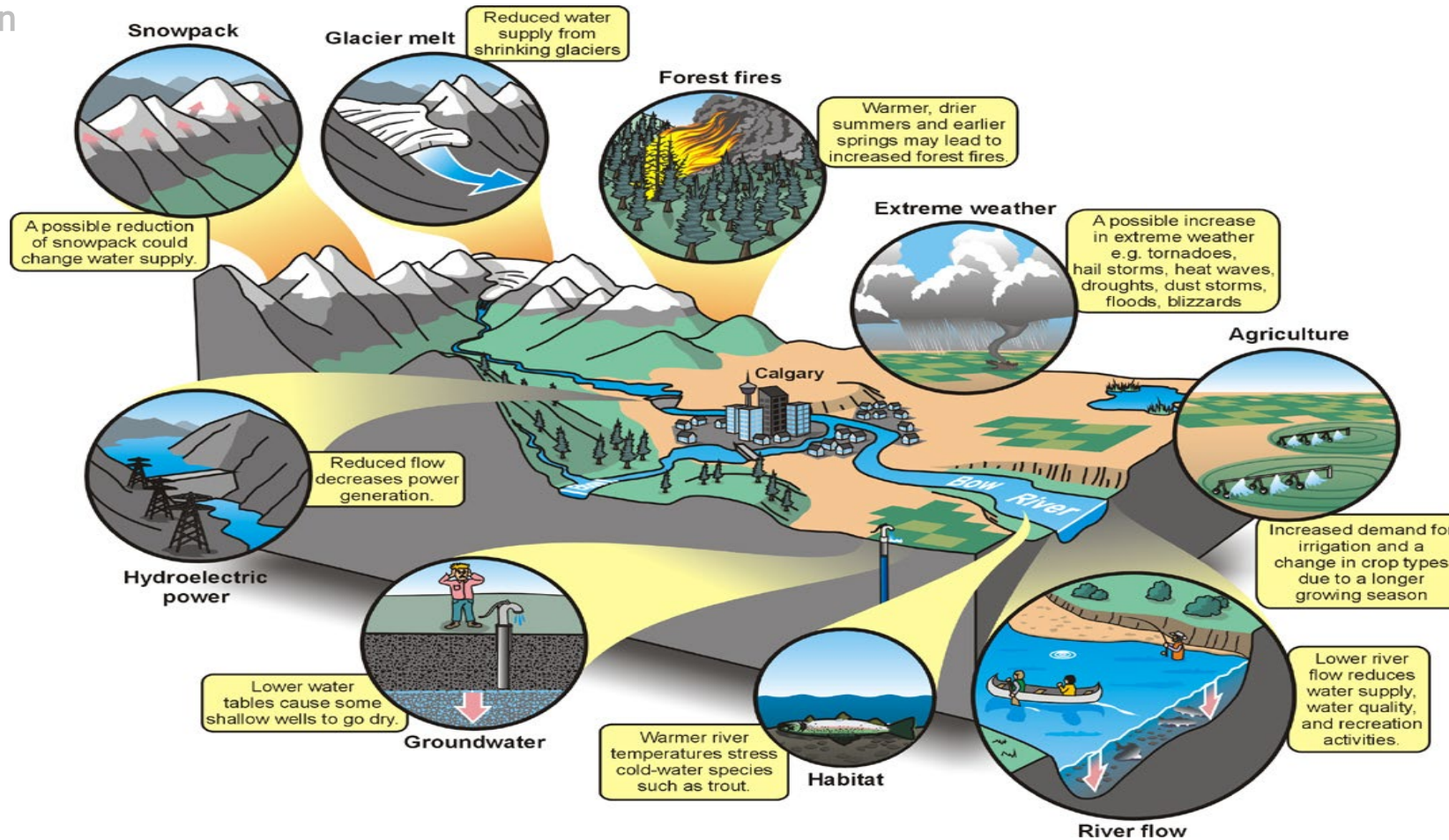
CP2.2 (GEF ID 9685): Overview

The Nexus Approach
- Opportunity

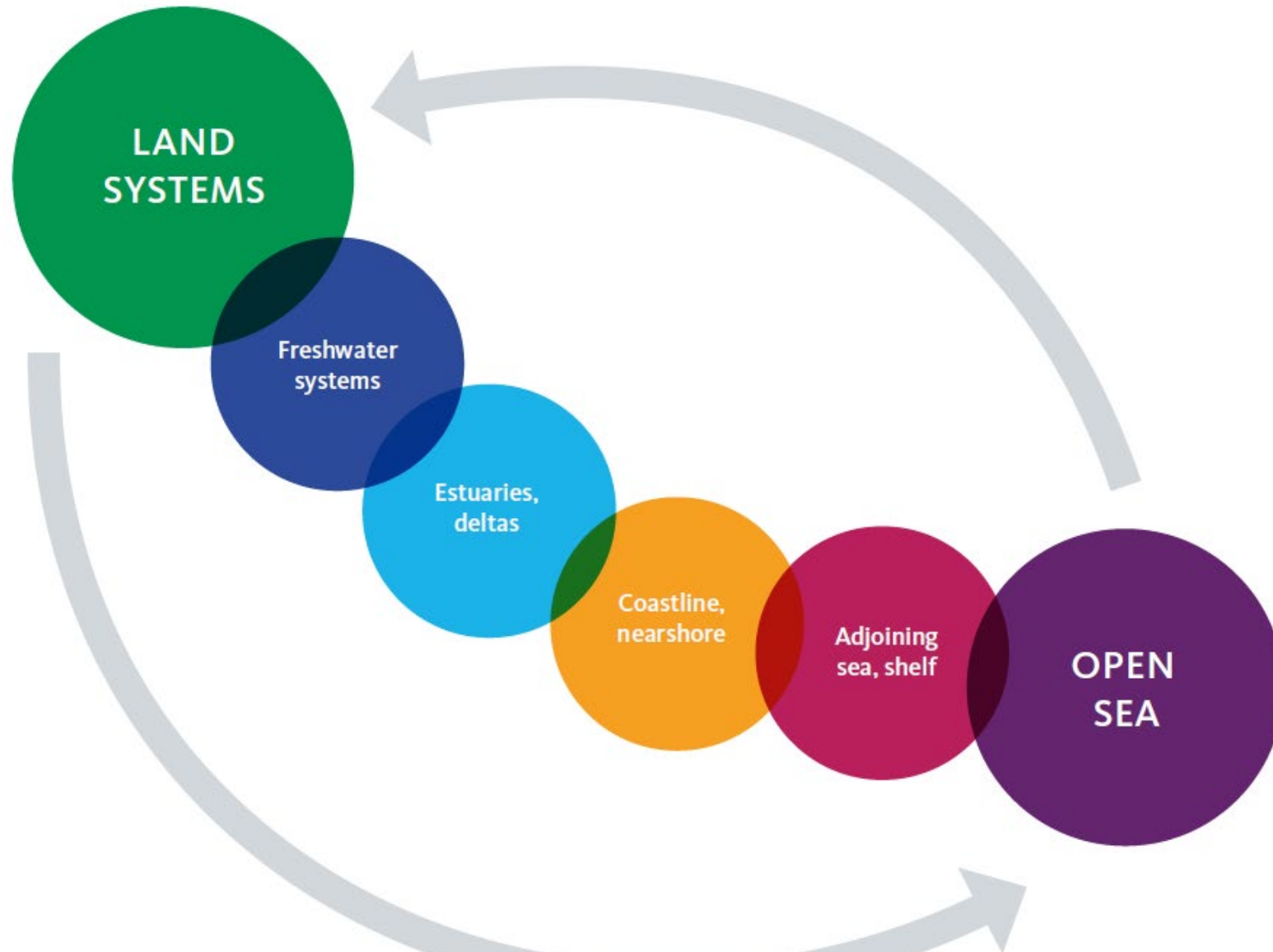


CP2.2 (GEF ID 9685): Overview

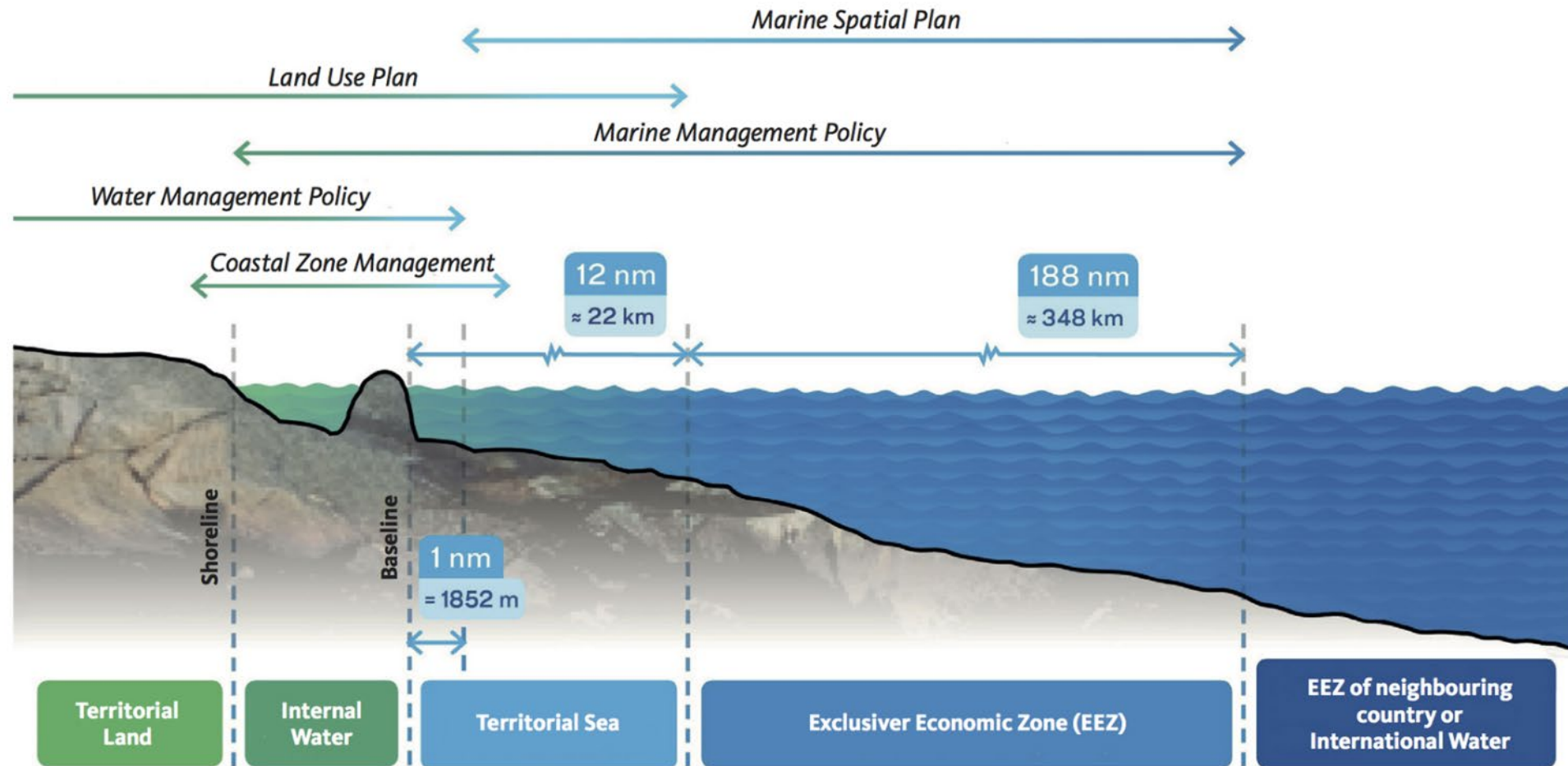
The Nexus Approach in the Mediterranean



Source to Sea System



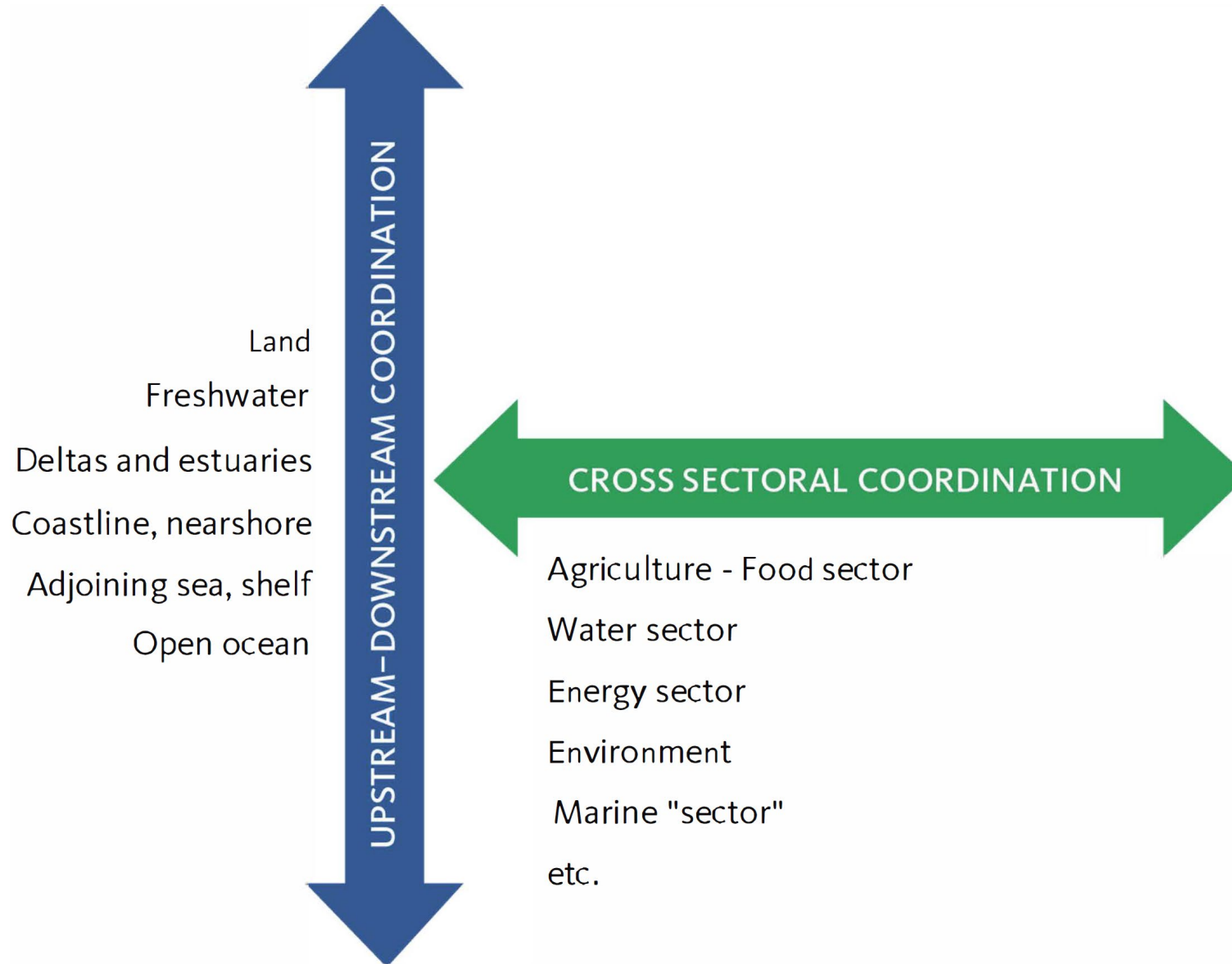
Overlapping and disconnected governance



Overlapping spatial plans over land and sea in Sweden from Swedish Agency for Marine and Water Management.

Systems thinking

Coordination among sectors, across the source to sea system



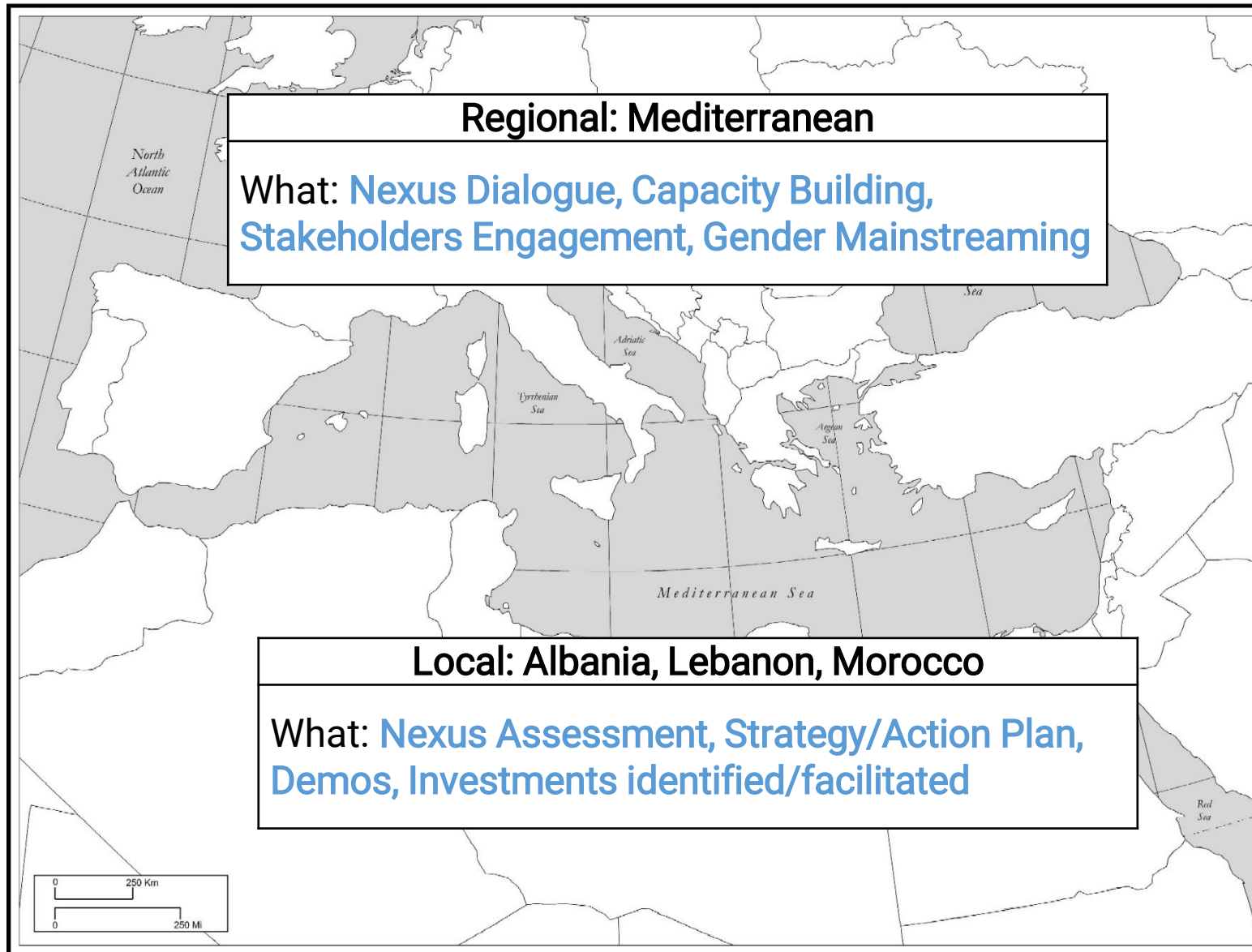
Aim:

- (i) Understand the interlinkages among the Nexus sectors
- (ii) Integrate -at the level possible- strategies and management options and identify solutions, as means to address issues of priority in coastal areas of importance, fostering water-food-energy security, reduction of land based nutrient pollution and other pressures, protection of coastal habitats and biodiversity and climate change resilience.



CP2.2 (GEF ID 9685): Overview

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The Med Nexus Project – focus at two levels



Component 2: Addressing nexus issues affecting the Mediterranean LME

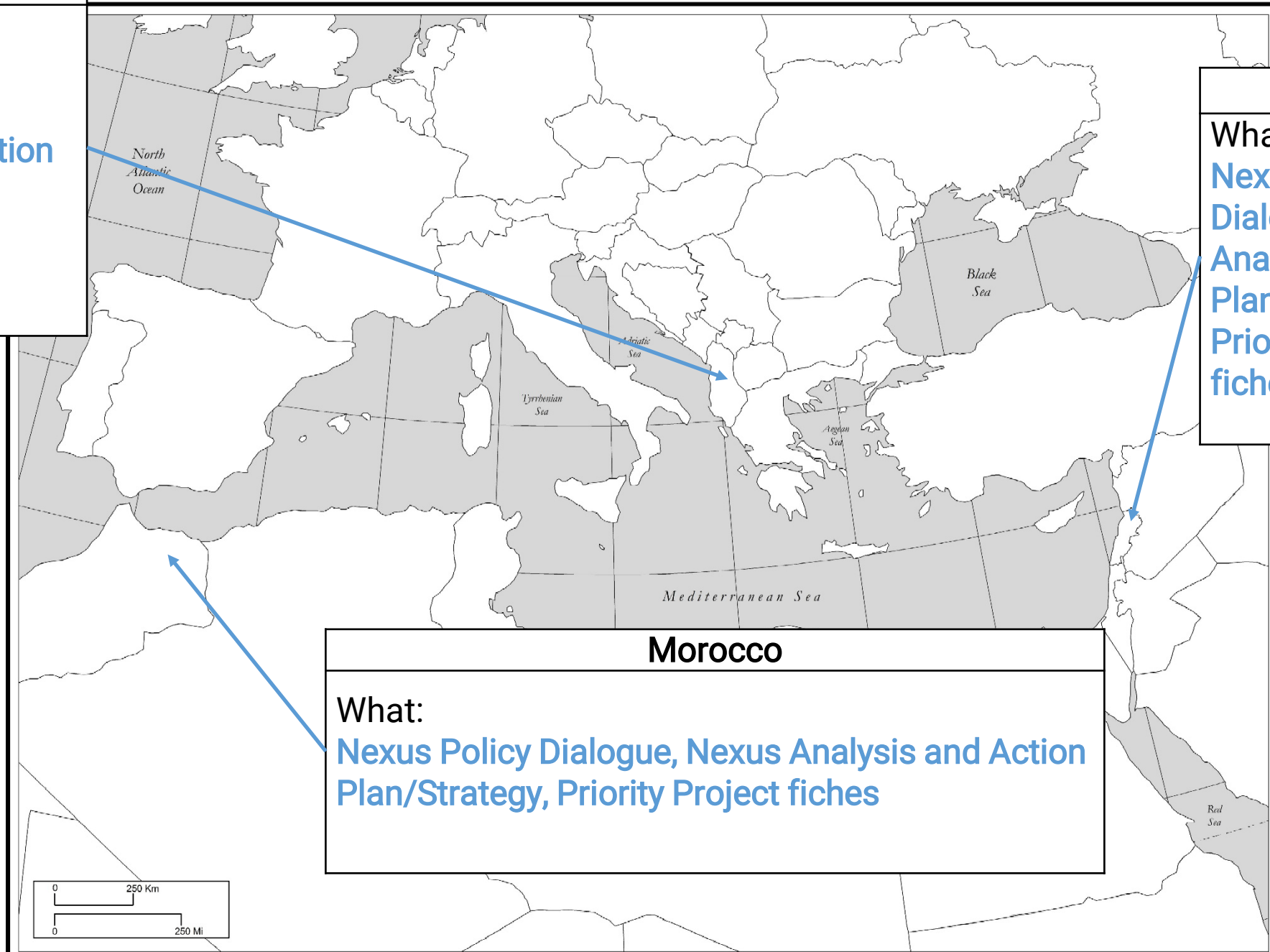
Outcome 2: Interlinkages among Nexus Sectors identified through Nexus Assessments and Policy Dialogues, feeding into policy making in priority Mediterranean coastal areas Aligning wording with the new wording in the RFA.

Albania

What:
Nexus Policy Dialogue, Nexus Analysis and Action Plan/Strategy, Priority Project fiches

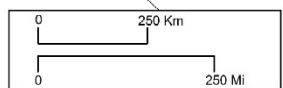
Lebanon

What:
Nexus Policy Dialogue, Nexus Analysis and Action Plan/Strategy, Priority Project fiches



Morocco

What:
Nexus Policy Dialogue, Nexus Analysis and Action Plan/Strategy, Priority Project fiches



Output 2.1: New, or existing inter-institutional bodies convening and steering the development of Nexus Assessments and strategic documents

Activity 1

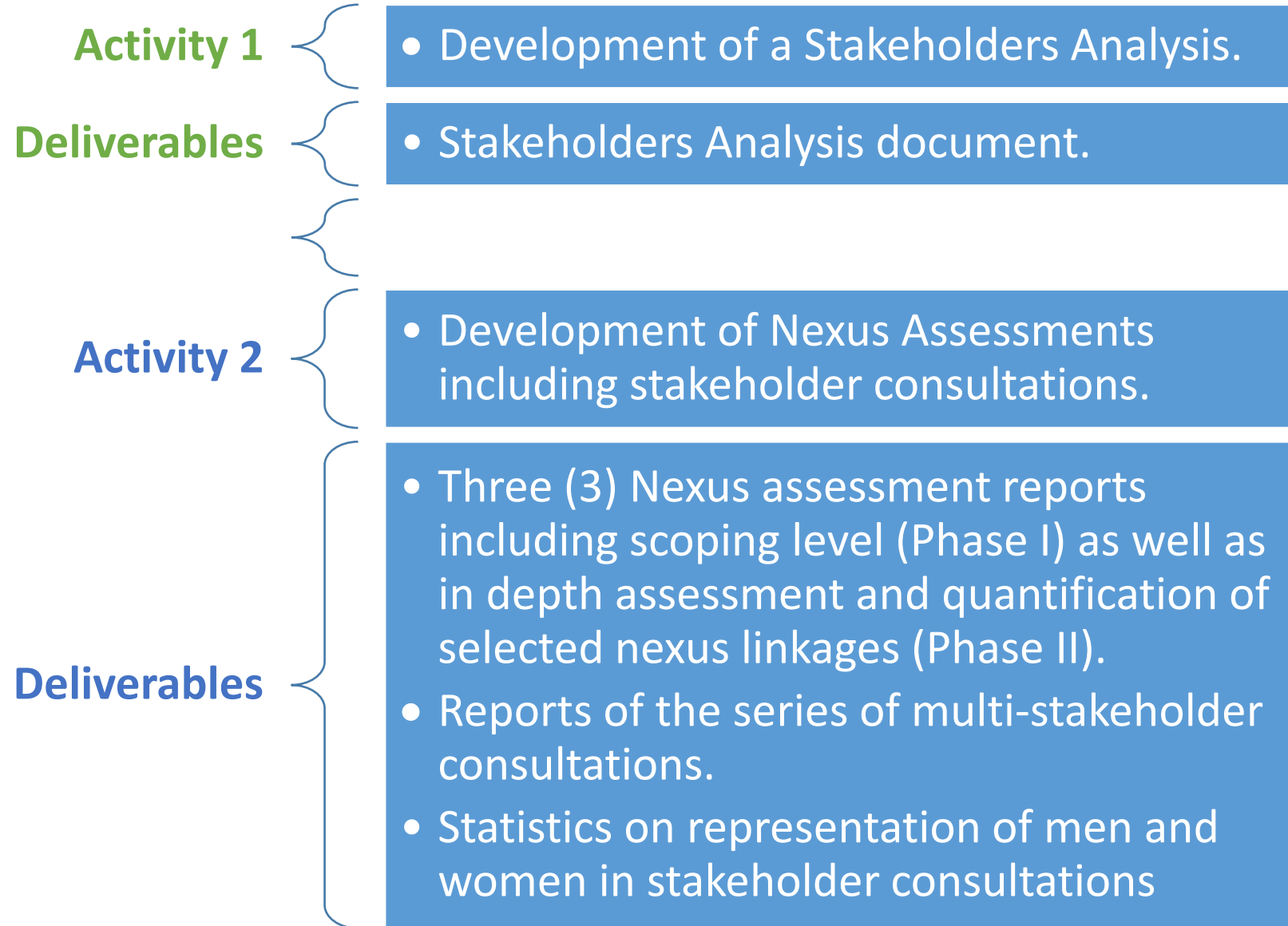
- Facilitation of the work of existing or establishment of inter-institutional bodies to function as Steering Committees of the Nexus Dialogues.

Deliverables

- Reports or Decisions and strategic documents.
- Statistics on the composition of the Steering Committees, including numbers of men and women participating

Component 2: Overview

Output 2.2: Water-energy-food-ecosystems Nexus Assessments and multi-stakeholders consultation dialogues in priority coastal areas



Output 2.3: Nexus strategies/action plans for priority coastal areas, possibly as part of other strategic documents for coastal areas

Activity 1

- Development of Nexus Strategies or Action Plans.

Deliverables

- Three (3) Nexus Strategies or Action Plans stand-alone or as part of existing strategic documents.
- Reports of the consultations undertaken to finalize the strategies or action plans

Nexus Project: Methodology

Analysis



Identifications of Issues



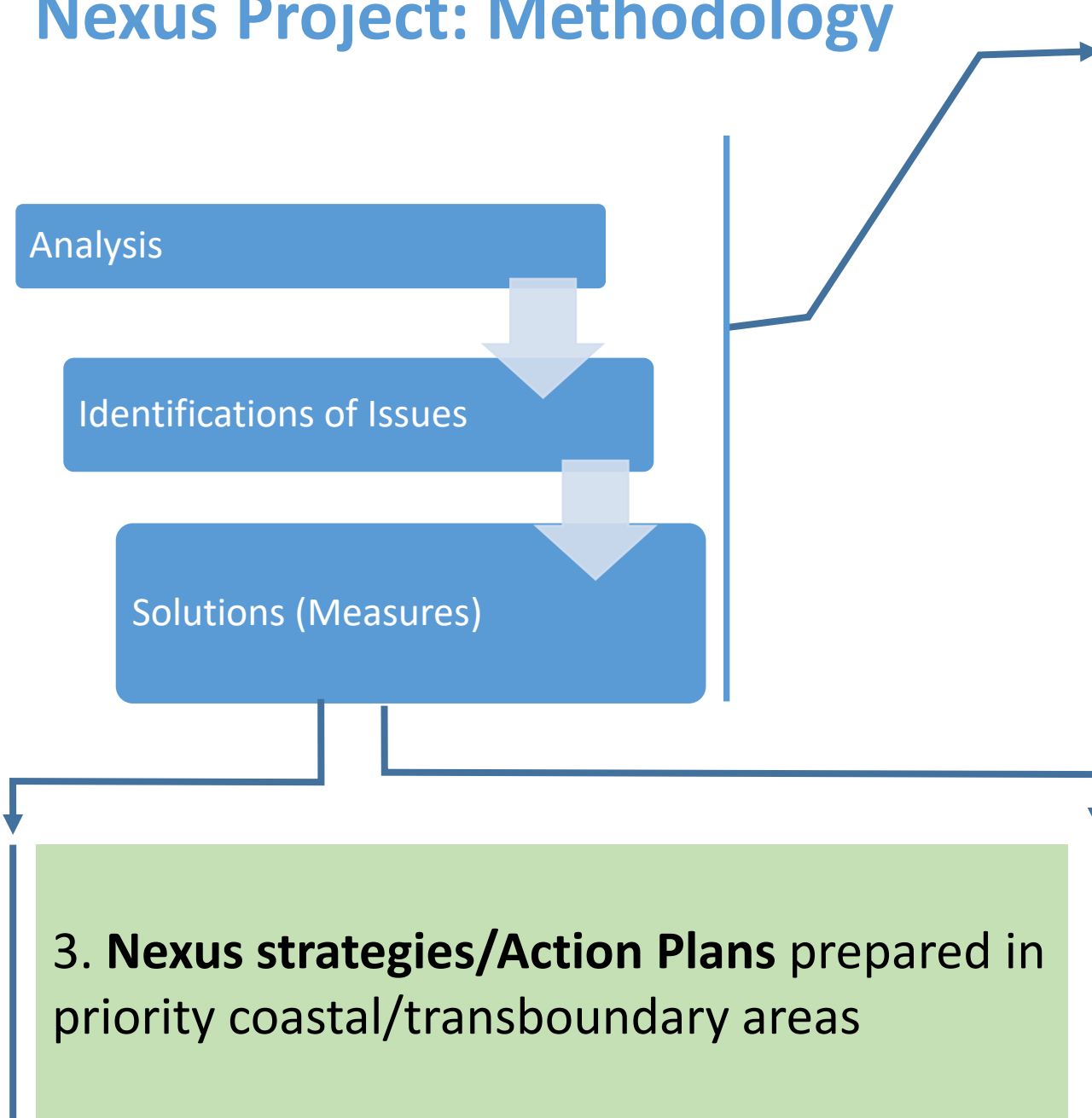
Solutions (Measures)

1. Water-energy-food-ecosystems **Nexus Assessments** in priority coastal areas

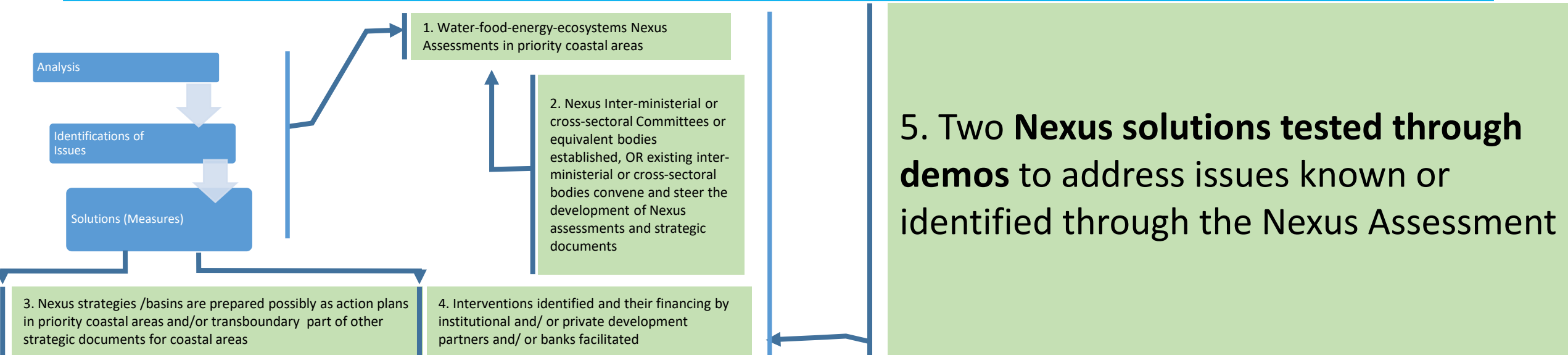
2. **Nexus Inter-ministerial or cross-sectoral Committees or equivalent bodies established, OR** existing inter-ministerial or cross-sectoral bodies steer the development of Nexus Assessments and strategic documents

3. **Nexus strategies/Action Plans** prepared in priority coastal/transboundary areas

4. **Interventions identified** and their **financing** by institutional and/ or private development partners and/ or banks facilitated



Nexus Project: Methodology



5. Two Nexus solutions tested through demos to address issues known or identified through the Nexus Assessment

- Solutions, structural or non-structural, that balance water management uses taking into consideration energy and land use addressing also environmental concerns in response to identified issues



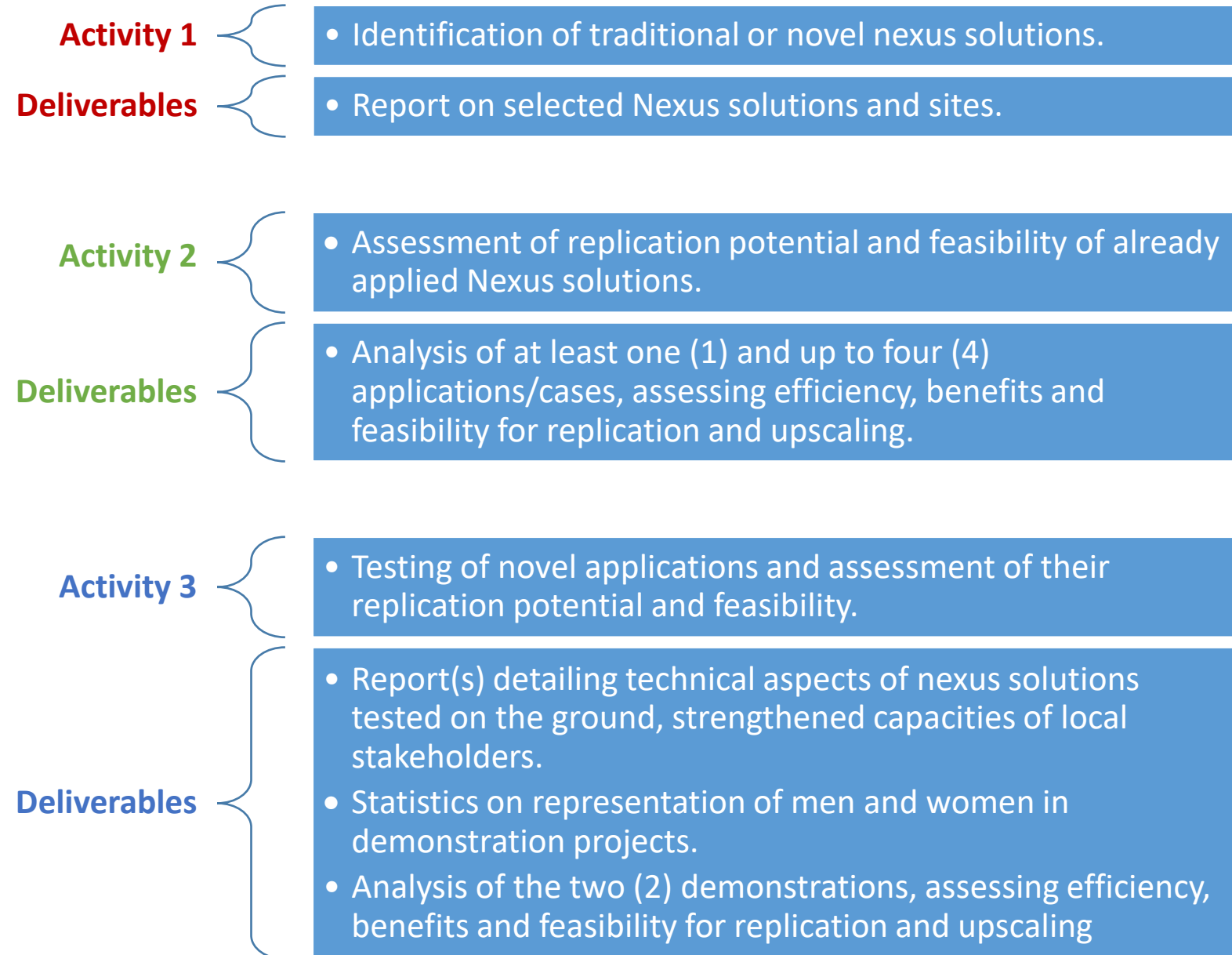
Component 3: Testing and upscaling Nexus solutions

Outcome 3: Interventions identified and tested, bringing co-benefits to address Nexus tradeoffs.

Outcome 4: Priority nexus interventions identified including relevant mechanisms and arrangements.

Component 3: Overview

Output 3.1: Nexus demonstration activities



Output 4.1: Identified interventions, including potential sources of funding

Activity 1

- Preparation of projects documentation/investments fiches for priority interventions and/or necessary investments.

Deliverables

- Project proposals/ investment fiches for three (3) priority local Nexus interventions and/or investments.

Possible practical fields for Nexus investments

- Green/Blue urban small/medium scale interventions (key role of local authorities)
- Renewables/solar for wastewater treatment and reuse (key role of tourism sector, including SMEs)
- Renewables/solar power for irrigation (key role of irrigators communities)
- Irrigation systems optimizing water use (key role of irrigators communities)
- Nature-based infrastructure, like related to wastewater management / floods and extreme events management (key role of regional and local authorities)
- Renewables/solar power for water abstraction

- Renewables/solar for desalination
- Multipurpose dams (hydro, irrigation, flood mitigation)
- Energy/flow co-optimization in cascades of dams in transboundary basins



Component 1: Institutional Strengthening

Outcome 1: Enhanced regional and National capacities on the use of the nexus approach to address land-based issues.

Component 1: Overview

Output 1.1: Regional Dialogue and Capacity Building on Nexus assessment and approach.

Activity 1

- Preparation of a Mediterranean Nexus Study.

Deliverables

- Mediterranean Nexus Study

Activity 2

- JRC/GWP-Med/UfM Nexus Atlas.

Deliverables

- Nexus Atlas.

Activity 3

- Organization of Regional Roundtables.

Deliverables

- Reports
- Statistics on participation

Activity 4

- Organization of Nexus Trainings.

Deliverables

- Reports
- Statistics on participation

Component 1: Overview

Regional Nexus Dialogue

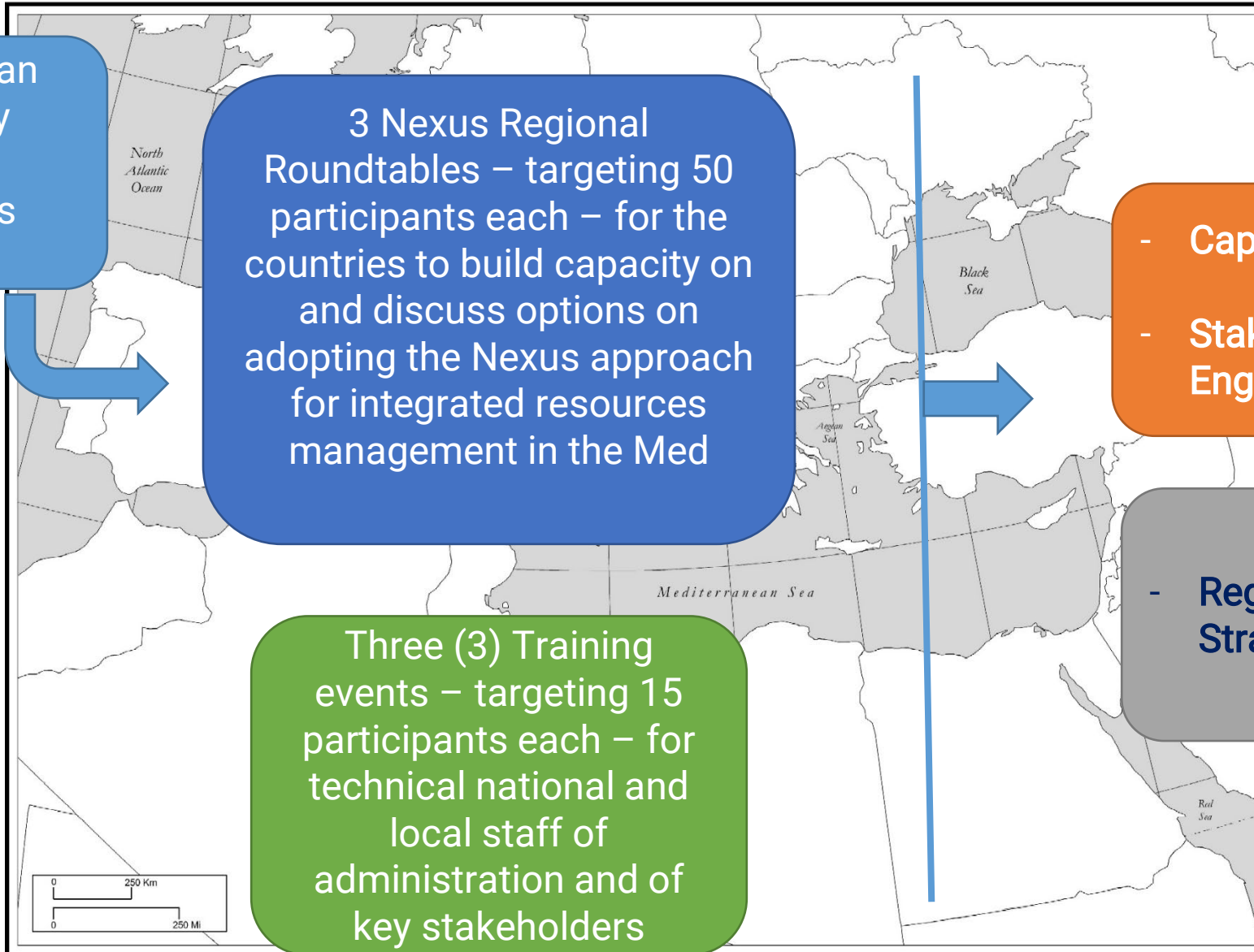
- Mediterranean Nexus Study
- Nexus Atlas

3 Nexus Regional Roundtables – targeting 50 participants each – for the countries to build capacity on and discuss options on adopting the Nexus approach for integrated resources management in the Med

- Capacity Building
- Stakeholders Engagement

- Regional Nexus Strategy

Three (3) Training events – targeting 15 participants each – for technical national and local staff of administration and of key stakeholders





Component 4: Consultation and outreach

Outcome 5: The medium and long-term sustainability of results ensured by engaging the relevant stakeholders.

Output 5.1: A Stakeholders Engagement Strategy

Activity 1

- Preparation of a Stakeholders Engagement Strategy.

Deliverables

- Stakeholders Engagement Strategy.

Thank you



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