

# MED 2050

*Towards a shared vision on a sustainable  
Mediterranean in 2050, and transition issues*



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# INTRODUCTION

## MED 2050 context

The **MAP Mid-Term Strategy (MTS)** 2016-2021 (Decision IG.22/1) set out – under the theme “Governance” – the objective “*To deliver knowledge-based assessments of the Mediterranean environment and **scenario development for informed decision-making and stakeholder work***”.

Mediterranean context changed in the last ten years

Changes will be accentuated by 2050 (climate change acceleration in particular) → projected **systemic failures**

Need to anticipate transitions

### **MED 2050:**

- **participatory foresight exercise**
- **tool for North-South-East dialogue**
- **confronting several possible visions of Mediterranean's future by 2050**
- **co-constructing transition paths towards sustainable development**

# MED 2050 innovations & objectives

**Feed into future strategies and agendas**, incl. MSSD 2016-2025 mid-term review, MTS 2022-2027, national and sectoral plans

**Mobilize existing resources :**

- **SoED 2019**
- **MedECC** (assessment report on climate & environmental change - Med)
- National foresight and strategic planning exercises
- Other MAP and non MAP exercises

Consider **disruptions, crises and weak signals** - economic, societal, technological or ecological

Work on **several horizons** and **construct bridges between short-term & long-term emergencies** (corresponding in particular to SDGs)

Prioritize a **strategic approach**, by investing in **transition paths**, hurdles to overcome or opportunities to be valued

Carry out a **communication effort** to enable efficient **participation** of all stakeholders and ensure an targeted dissemination of results



# Partners



## *Partners involved in the implementation:*

- In all Mediterranean countries, **many partners have already shown their interest for MED 2050 exercise**: associations, NGOs, research centers, international organizations, think tanks, foundations, youth networks, companies
- **Components** of the Mediterranean Action Plan (MAP)
- Plan Bleu Focal Points
- MAP Focal Points
- Members of the Mediterranean Commission for Sustainable Development (MCSD)

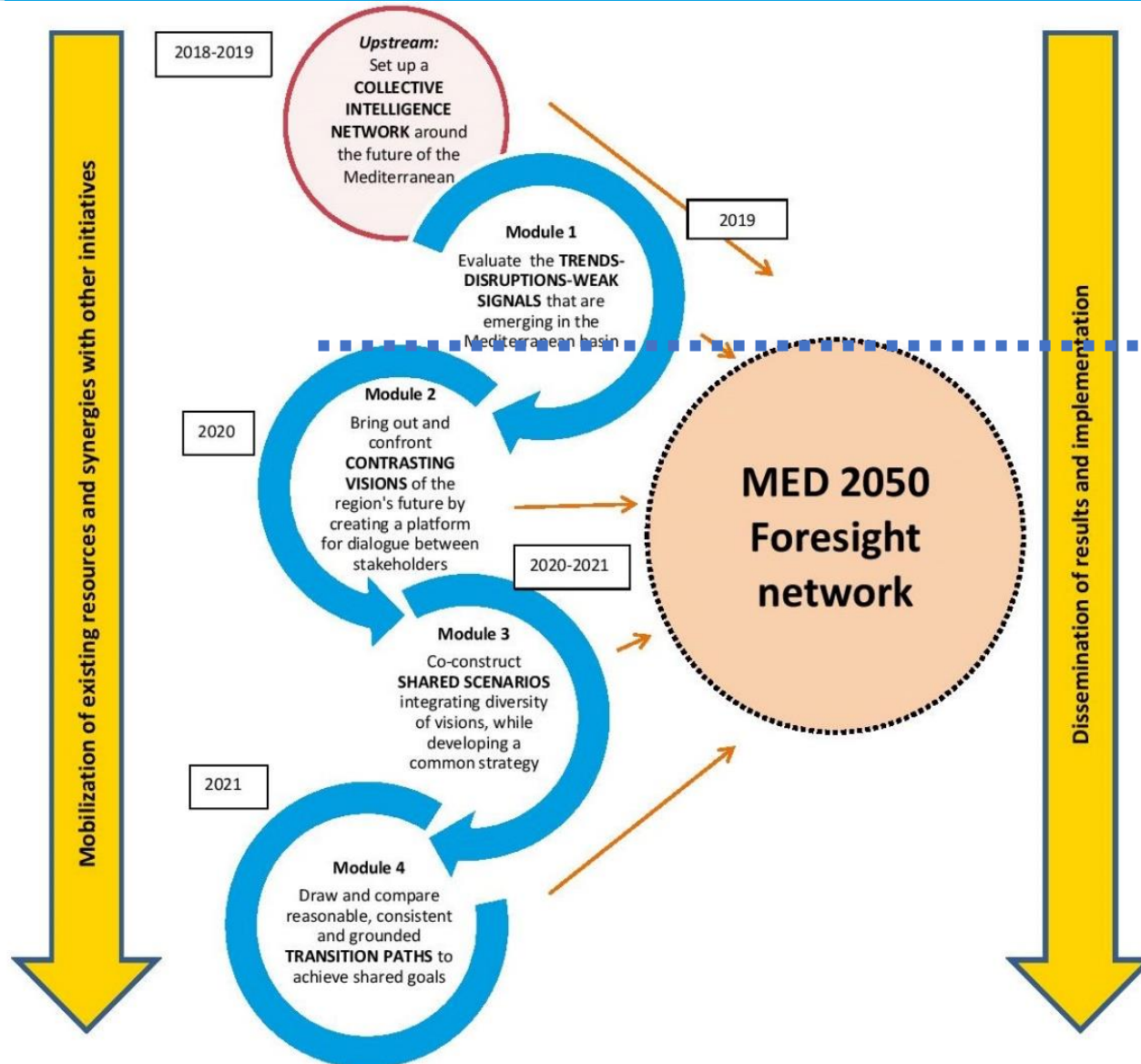
## **... more partnerships currently under discussion**





# MED 2050 REVISED ROADMAP (PLAN BLEU/RAC WD.5)

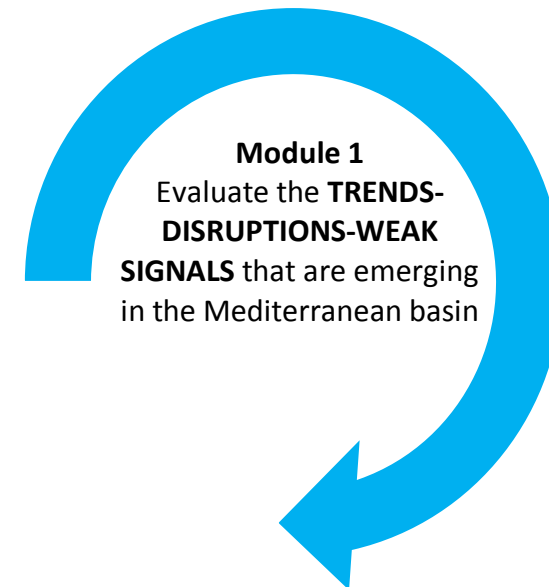
# A roadmap with two phases



**Phase 1 (2018-2019):**  
Upstream activities, Module 1

**Phase 2 (2020-2021):**  
Modules 2-4

# PHASE 1 (2018-2019): UPSTREAM ACTIVITIES & MODULE 1





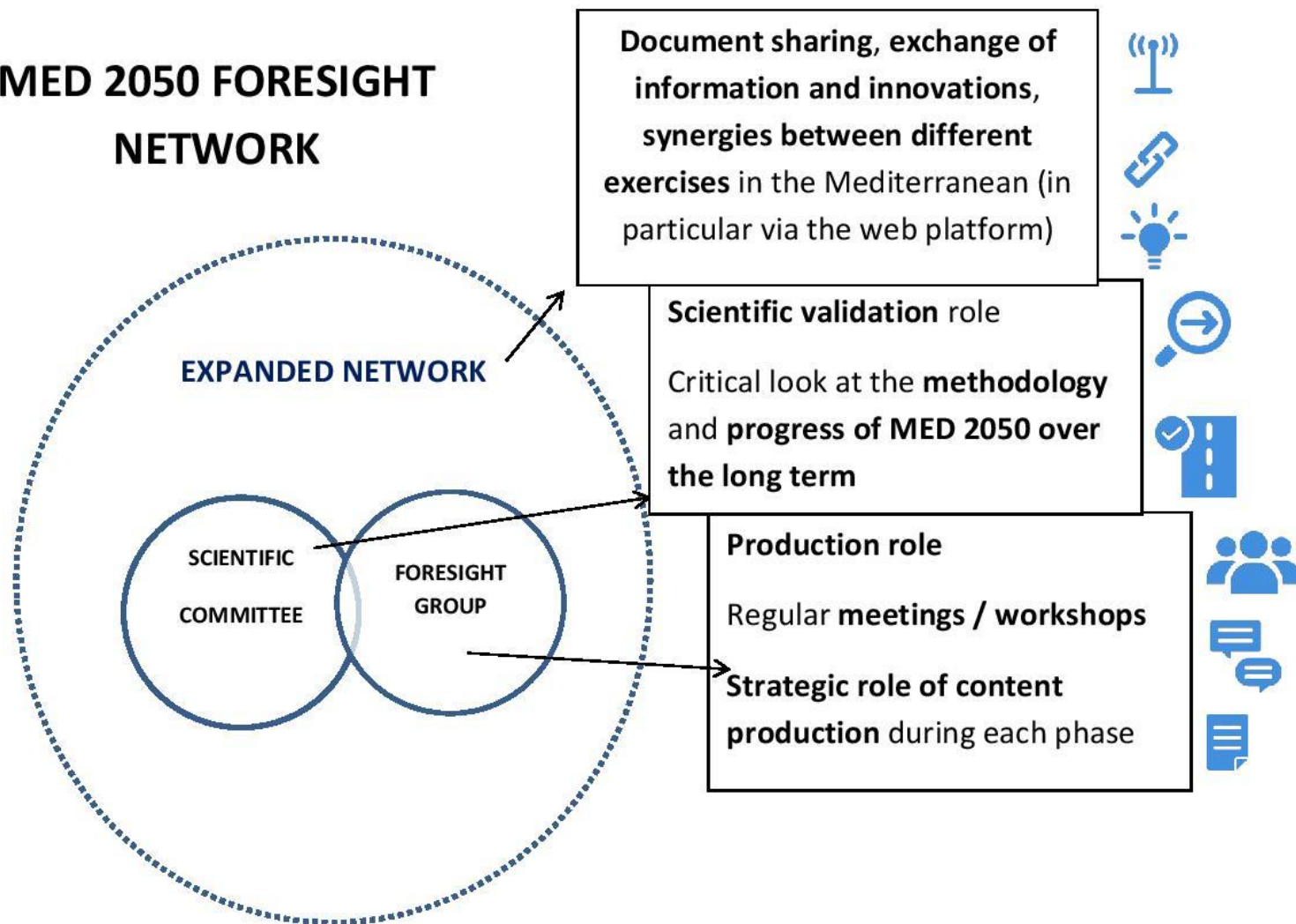
# Upstream activities: foresight network and participatory approaches

## *Upstream:*

Set up a **COLLECTIVE INTELLIGENCE NETWORK** around the future of the Mediterranean

*Preparatory interviews conducted / ongoing*

## MED 2050 FORESIGHT NETWORK



# Upstream activities: foresight network and participatory approaches



Web platform dedicated to MED 2050 // MED 2050 LOGO

Sub-regional participatory workshops (possibility of youth workshops)

Involve thematic / relay networks (including youth networks)

Online consultations

**Other participatory means**, currently being studied (youth workshops, virtual debates, side gathering in parallel of some events in the Mediterranean, in order to collect visions of some actors...)

## Involve Mediterranean youth in MED 2050



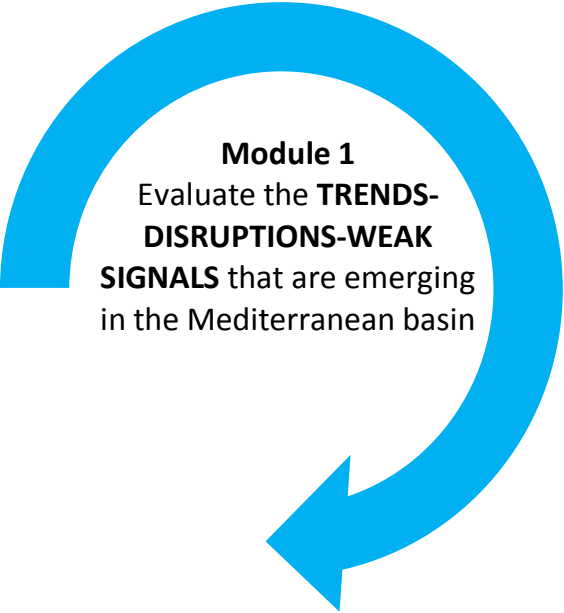
# Module 1: trends, disruptions, weaks signals

In synergy with ongoing MAP and non-MAP work (SoED, SEIS, IMAP, MSSD dashboard, MedECC, ...)

In partnership with LabexMed, post-doc researcher to produce a synthesis report on trends, disruptions and weak signals\*



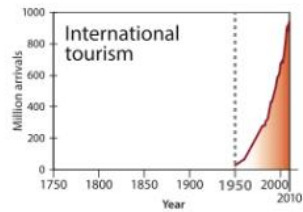
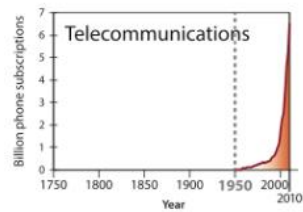
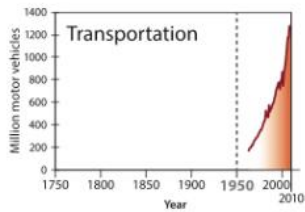
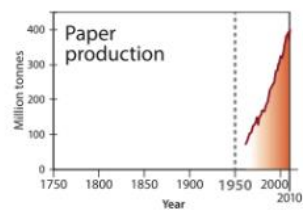
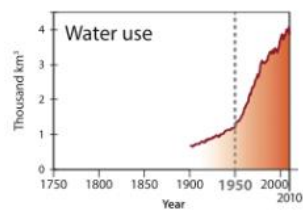
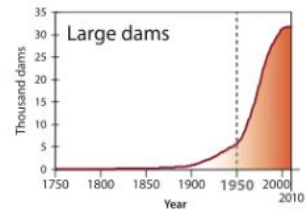
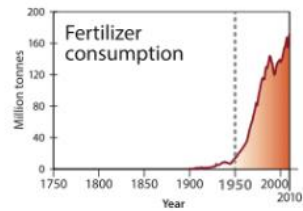
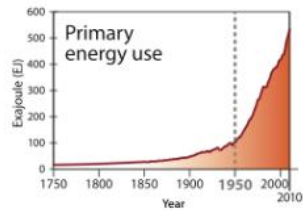
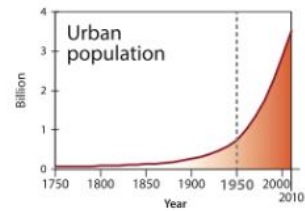
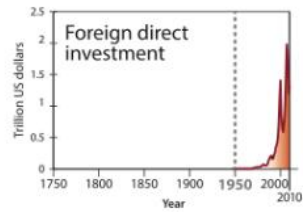
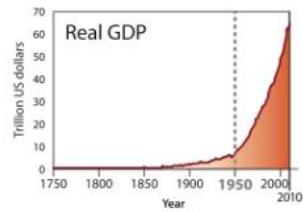
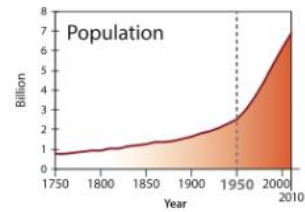
(\*Weak Signals are past or current developments/issues with ambiguous interpretations of their origin, meaning and implications. They are unclear observables warning us about the probability of future events.)

A large blue circular arrow graphic that starts at the top left and curves around to point towards the bottom left.

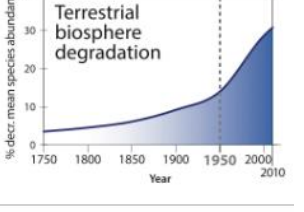
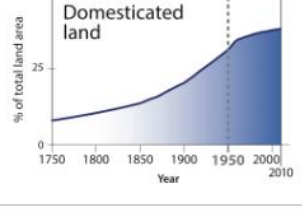
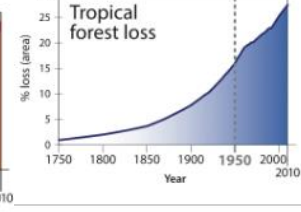
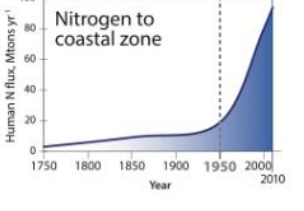
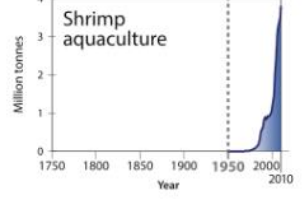
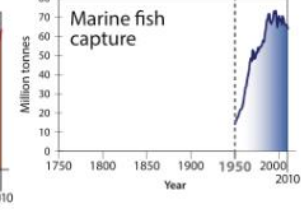
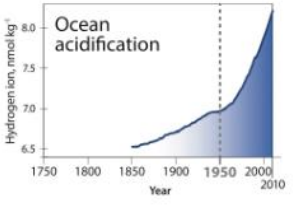
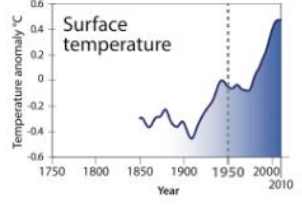
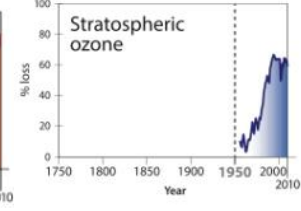
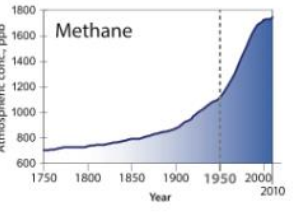
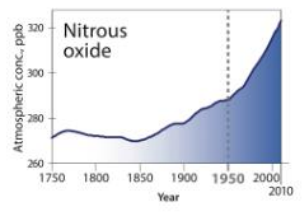
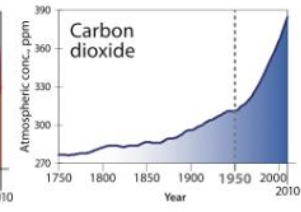
**Module 1**  
Evaluate the **TRENDS-  
DISRUPTIONS-WEAK  
SIGNALS** that are emerging  
in the Mediterranean basin

# Worldwide structural trends

## Socio-economic trends

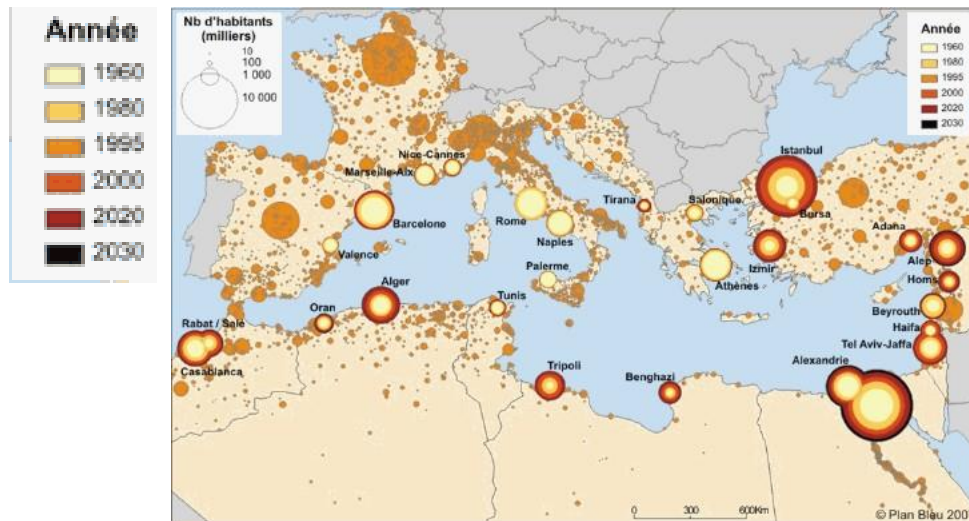


## Earth system trends



# Confirmed trends: Demography and coastal pressures

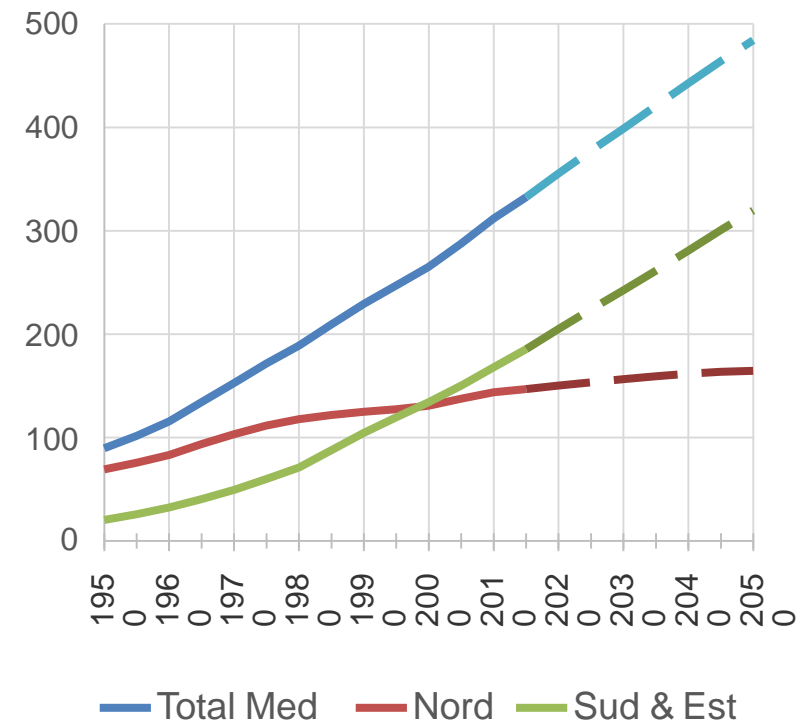
- 2 / 3 inhabitants live in urban areas
- 3/4 in 2050



**Urban concentration in the coastal zone**  
+ 60% inhabitants over 25 years (IRD)

In 2050 :  
+ 130 million inhabitants  
+ 150 million urban population

## Urban population and projections (millions)



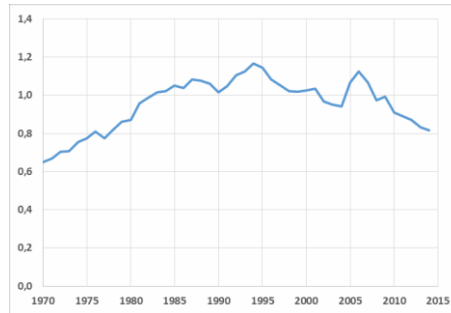
United Nations, Department of Economic and Social Affairs,  
Population Division (2018). World Urbanization Prospects

Between 1975 and 2050, North/South&Est proportions reverse



# Confirmed trends: coastal and marine activities

**Fish landings** (million tons), source : CGPM

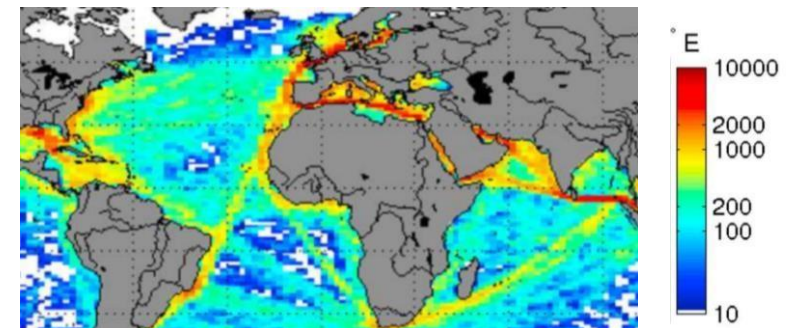
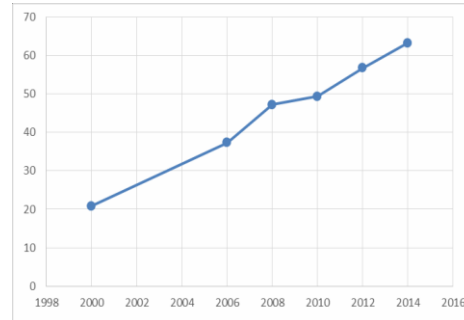


**More than 90% of fish stocks are overexploited**

**In 20 years :**

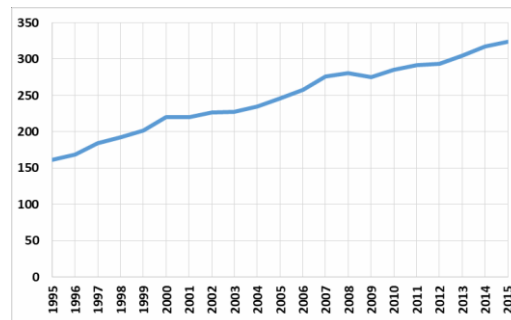
- Maritime traffic x 3,5
- Aquaculture x 2,5
- International tourists arrivals x 2

**Container traffic in Mediterranean ports** (million tons)

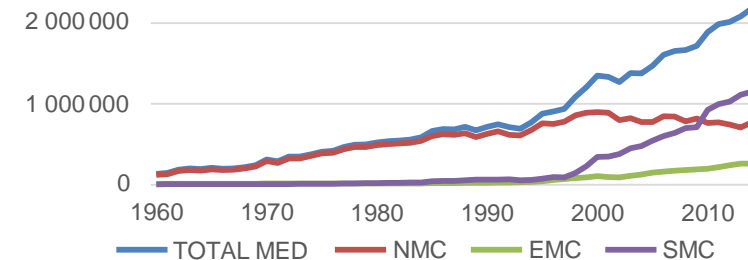


**Vessel density from 1992 to 2012** (Tournadre, 2014)

**International tourist arrivals** (millions), source : OMT



**Aquaculture production** (tons)

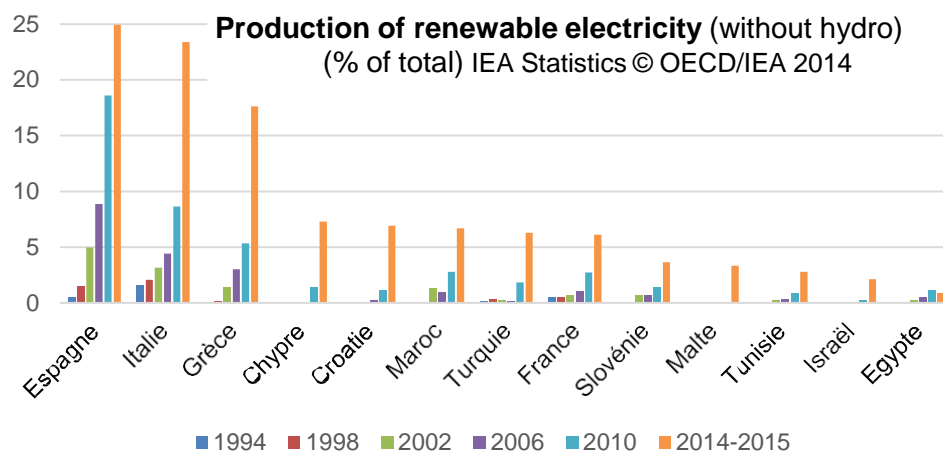
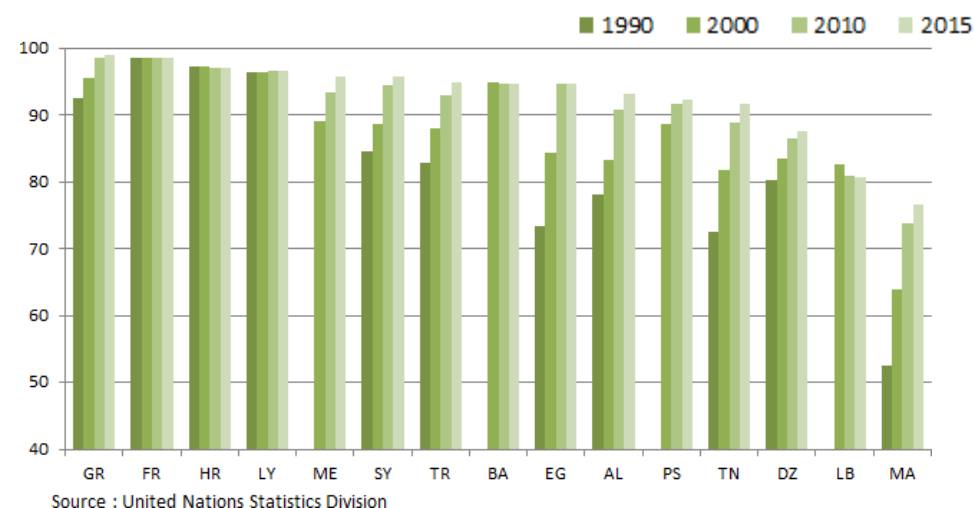


# Confirmed trends : environmental progress



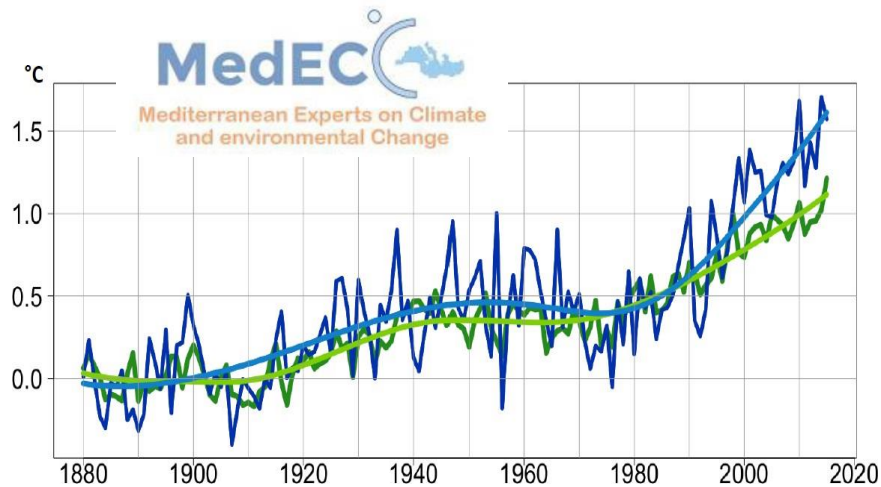
Network of marine protected areas

Proportion of the population with access to improved sanitation



Sanitation, conservation,  
renewables have  
progressed

# Discontinuity : climate change...

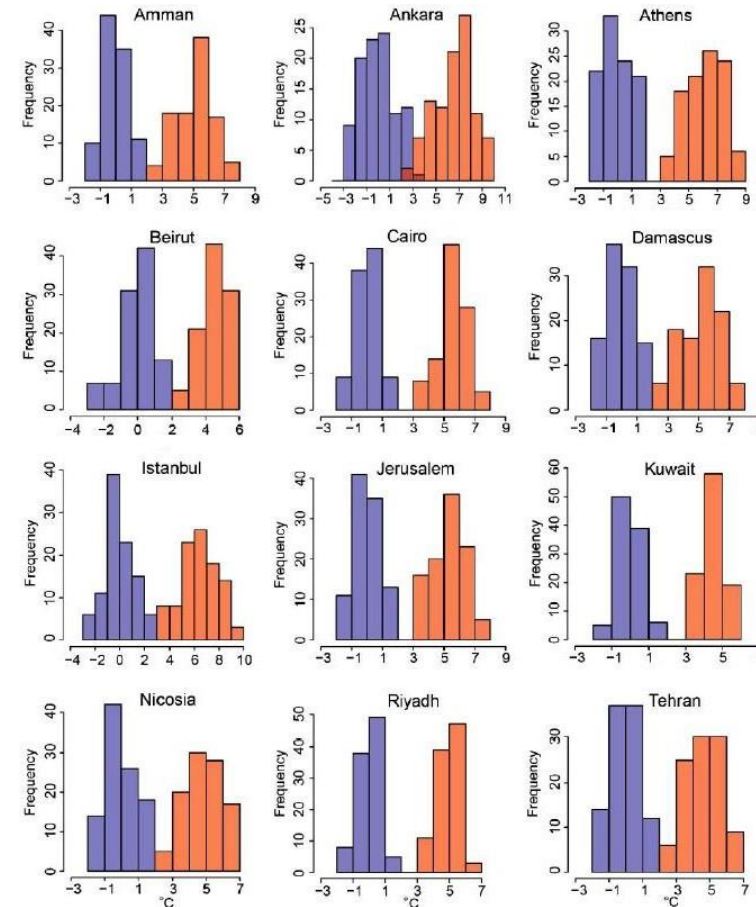


global mean temperature

regional mean temperature (Mediterranean)

**Warming trends in the Mediterranean**

Cramer et al., in revision (data analysis: A. Toreti, JRC)



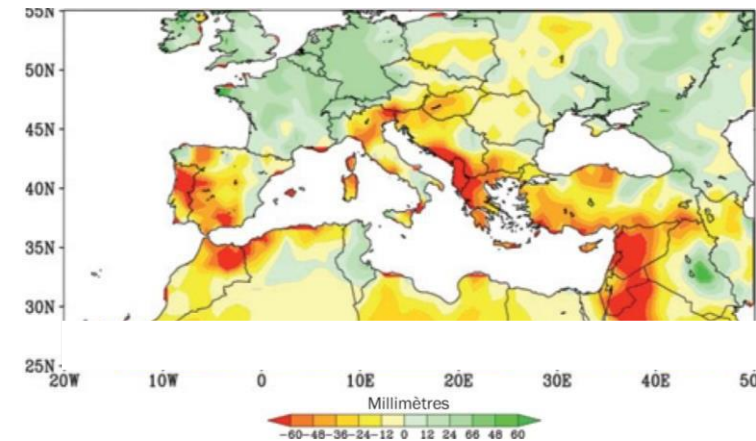
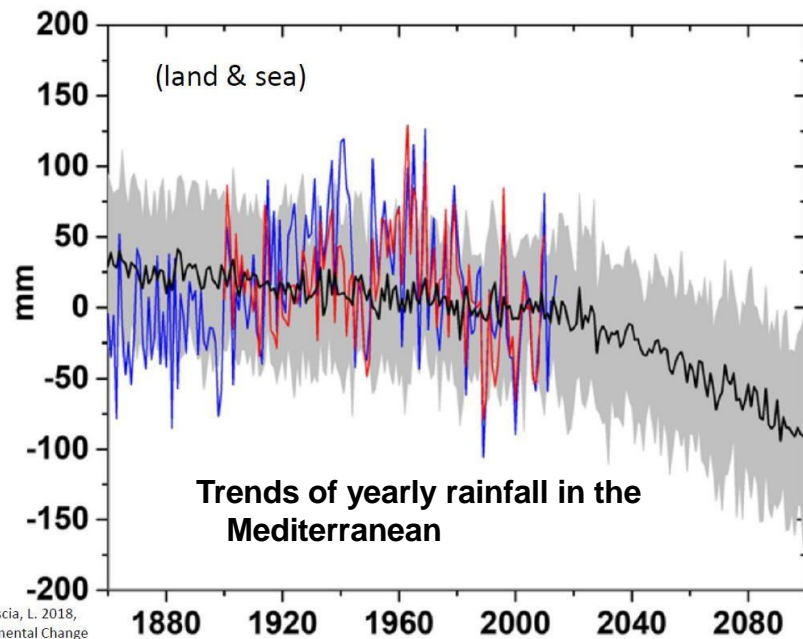
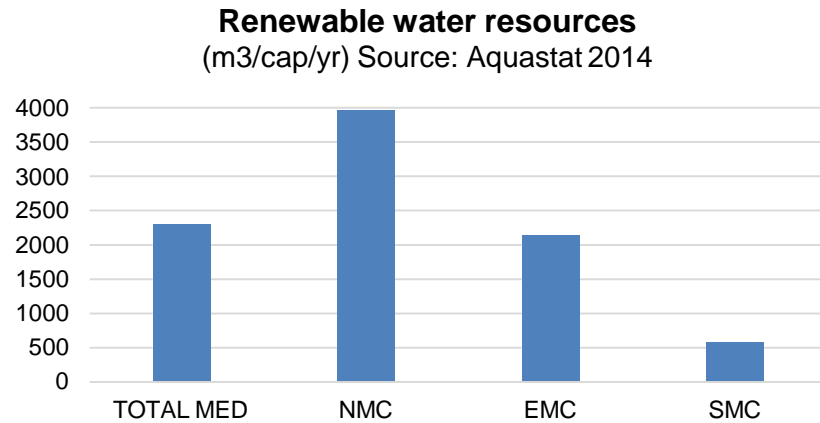
In purple: period 1961-1990

In orange: period 2070-2099

Lelieveld et al. 2014, Regional Environmental Change

**Urban warming in the Eastern Mediterranean**

## ... accentuating fragilities



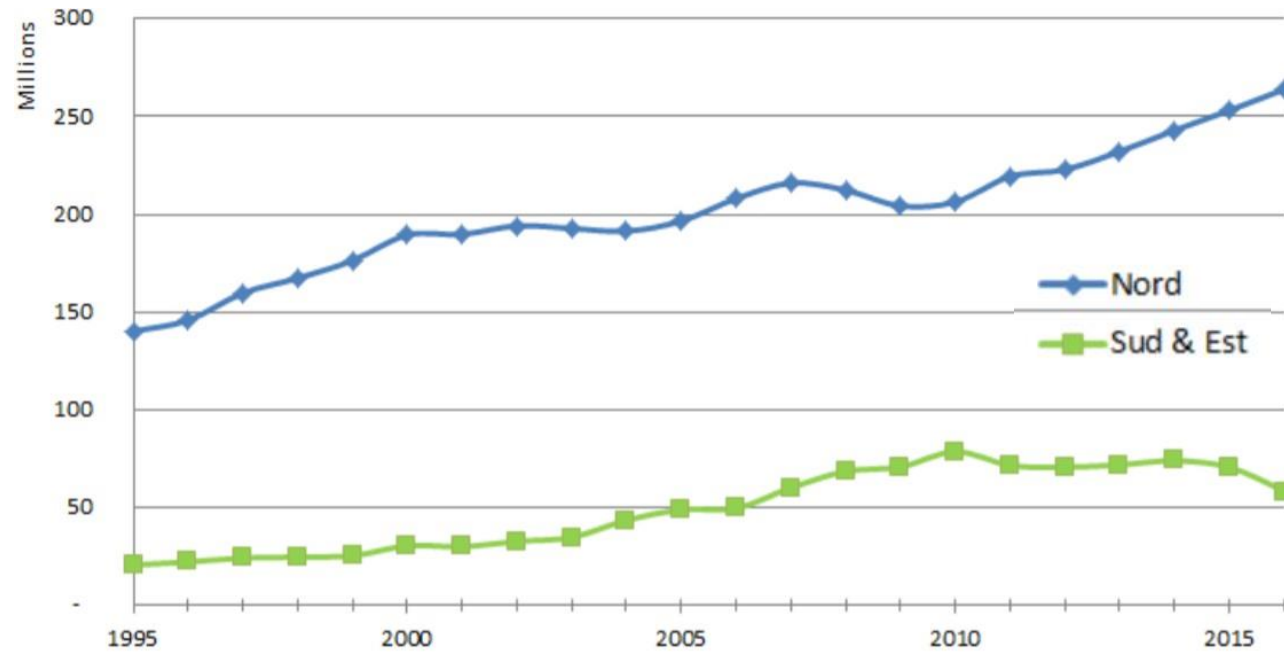
Decreasing rainfall in winter. Source : NOAA

- **3% of the world's water resources for 7% of world population**

Lionello, P., Scarascia, L. 2018, Regional Environmental Change

# Discontinuity: Constrained growth in the South and East

International tourist arrivals



Source : OMT



# PHASE 2 (2020-2021): MODULE 2, 3 & 4

## Module 2

Bring out and confront **CONTRASTING VISIONS** of the region's future by creating a platform for dialogue between stakeholders

## Module 3

Co-construct **SHARED SCENARIOS** integrating diversity of visions, while developing a common strategy

## Module 4

Draw and compare reasonable, consistent and grounded **TRANSITION PATHS** to achieve shared goals

## Module 2: contrasting visions

2 options:

- Remote consultation of stakeholders on their vision of the future (limited opportunity for dialogue)
- Workshops to let visions emerge, share and confront them via dialogue

Both options can be opened to wider consultation via questionnaires (supported by partner networks)

Special attention given to foresight on the marine environment (if possible specific workshop)



### Module 2

Bring out and confront  
**CONTRASTING VISIONS** of  
the region's future by  
creating a platform for  
dialogue between  
stakeholders

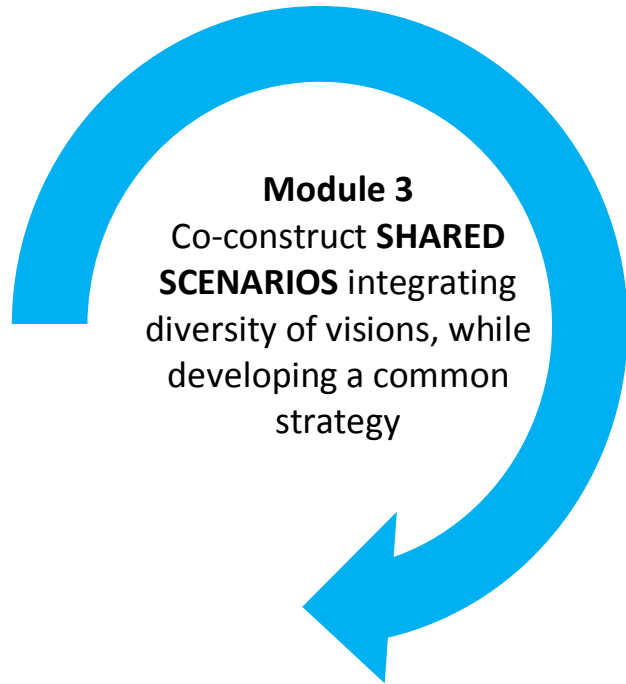
## Module 3: co-construct shared scenarios

Based on modules 1 (trends, disruptions, weak signals) and 2 (contrasting vision)

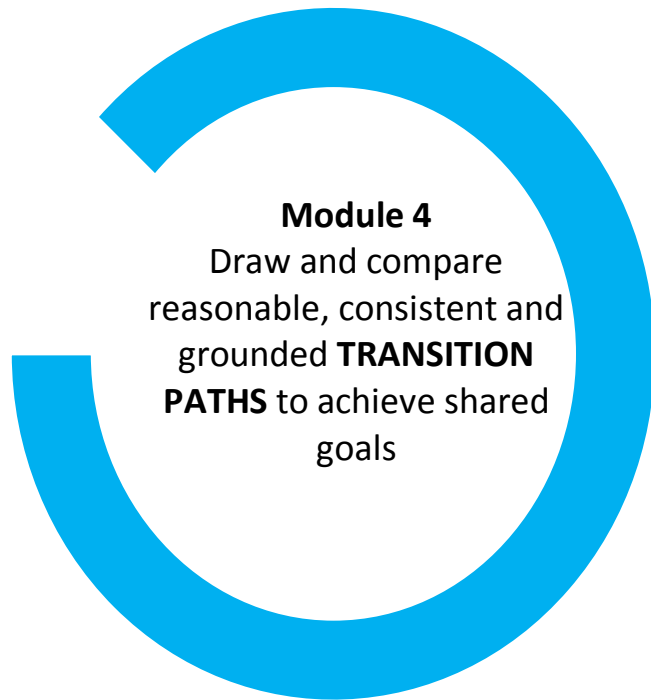
Develop several contrasting scenarios

Identify the most realistic yet desirable (consensual) scenario...

... on which will be based the module 4!



# Module 4: draw and compare realistic transition paths



Based on modules 1-3

Compare pathways

Identify major obstacles, timely responses (investments, management) and opportunities for achieving a desirable future

Articulate short, medium and long term (now, 2030, 2050)

Anticipate emergencies, avoid repair costs and maximize co-benefits

One dimension of transition: blue economy

# Results dissemination, knowledge development



Dissemination of results and implementation

Capitalize and disseminate results:

- Of MED 2050
- Of other relevant foresight work

Targeting a wide audience (decision-makers, private sector, general public)

Newsletters, booklets

Web platform = strategic tool

Respond to national technical assistance needs for integration of MED 2050 results into national/local strategies (seek additional funding)

Potential methodological tool on MED 2050 experience



