

Adressing Future Challenges

5° INCO Conference – Athens – 2-4 June 2014

Divani Acropolis Palace

Euro-Mediterranean collaboration opportunities and challenges

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Summary

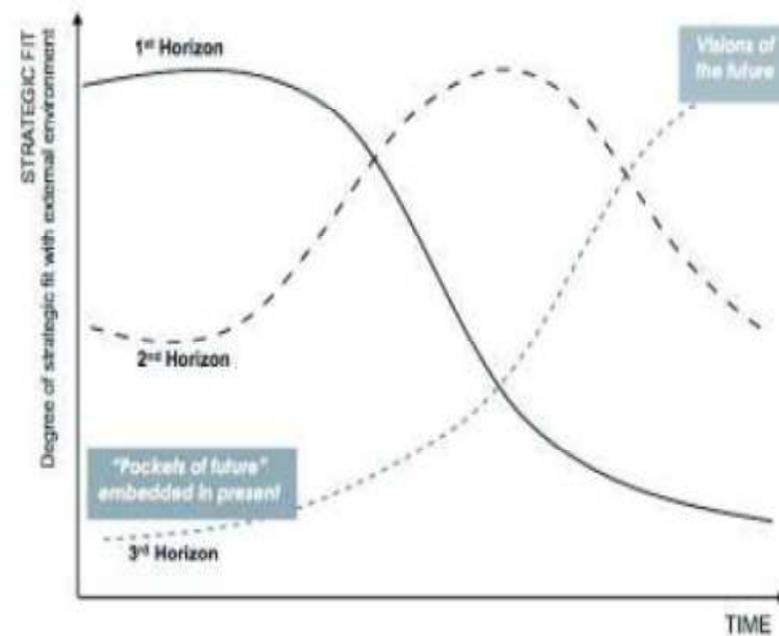
- Foresight analysis and futuristic management by means of THM (Three Horizons Model)
- Application to address global future challenges and driving changes (EU project FLAGSHIP)
- Application to address Euro-Mediterranean challenges and opportunities (EU project MEDPRO)

Horizon 1. 2015-2020



Horizon 1 is the space of the imminent future - already somewhat determined by our present readiness, resource commitments and institutional capacities to make adjustments etc.

Many organizations see the first Horizon as a place to seed new capacities, test strategies and identify present barriers or articulate problems which need to be resolved to be able to move to the next horizons.

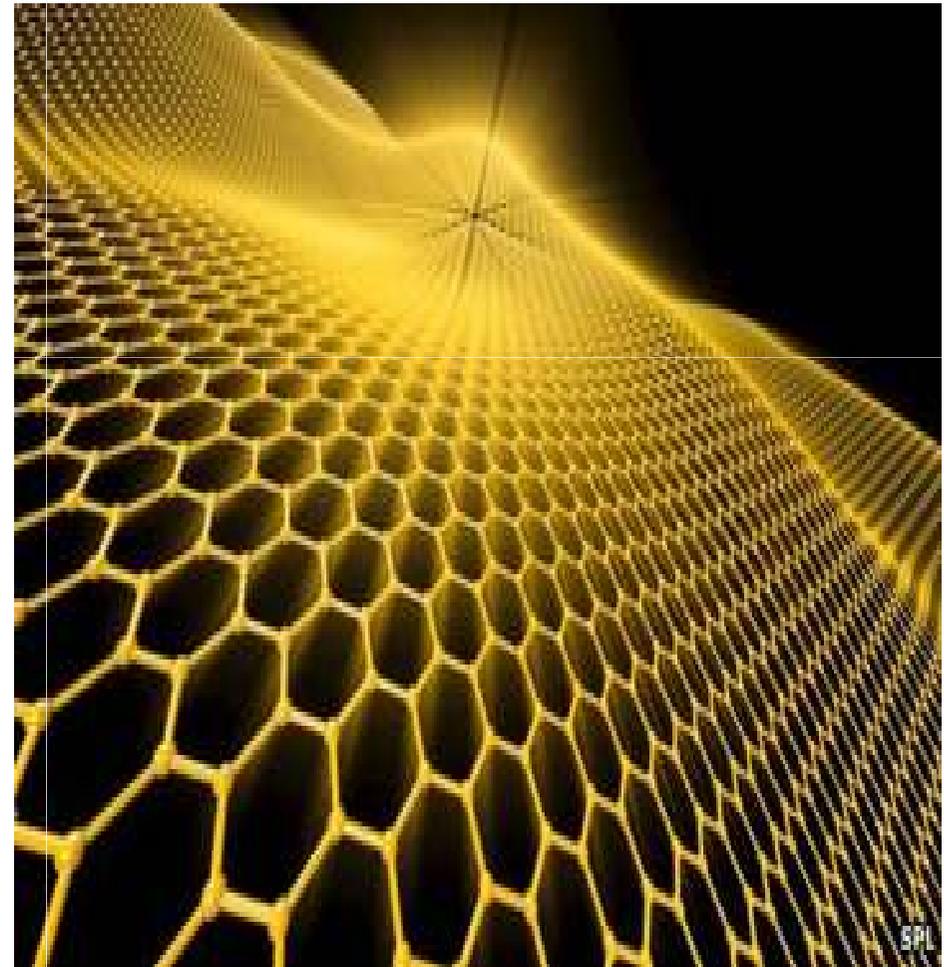


Horizon 2. 2020-2030



Horizon 2 is the space where change is fully engaged and one's assets are actively shifting to be able to realize opportunities and to adjust to new pressures.

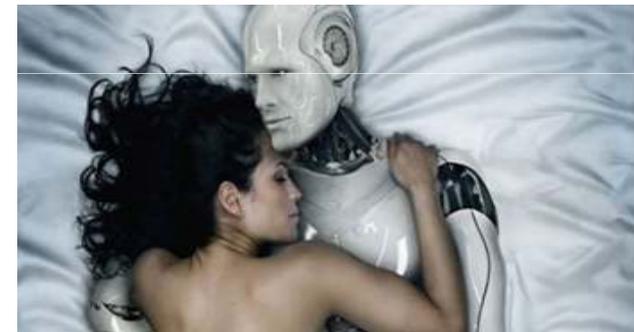
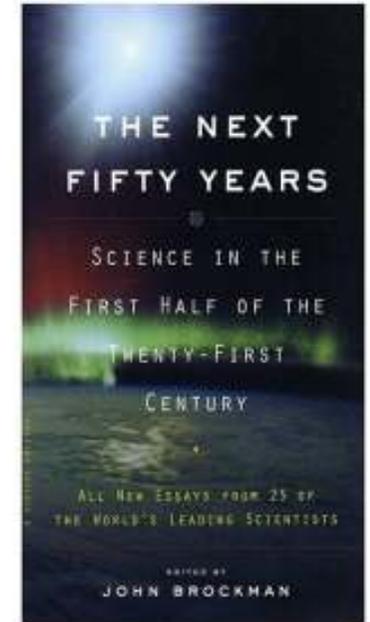
Here it is desirable and usually possible to both *forecast* by examining the implications of trends and drivers of change; and *backcast* by rigorously asking what would have been required to create the conditions for the aspirations and vision of Horizon 3.



Horizon 3 2030-2050

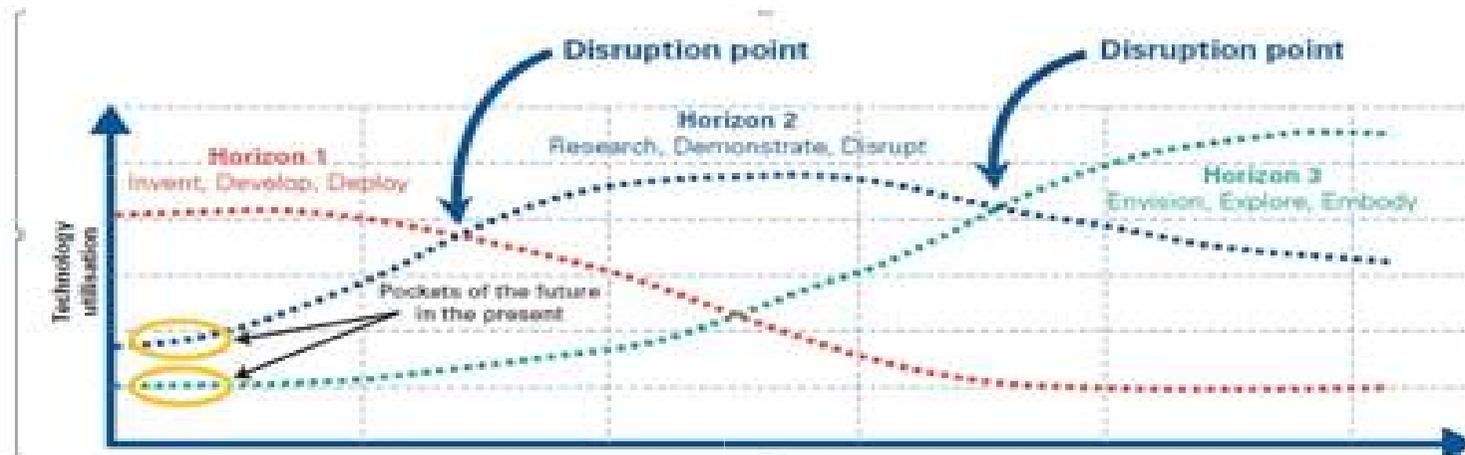
Horizon 3 is the world of *what if...what could be...* and how we might recognize and realize opportunities. It is here powerful and compelling visions are described so they can enable leaders to break the inertia and fear of change that pervades most organizations.

By enabling many stakeholders to collaborate on shaping the inputs to the third Horizon, the process begins to proactively build the future of any organization versus being reactive or "missing the boat".



Glimpses of Prospective Futures & Disruptive Transitions

Three Timelines to Consider



Horizon 1: Implement, improve, manage current Programs

Horizon 2: Develop and launch new Programs

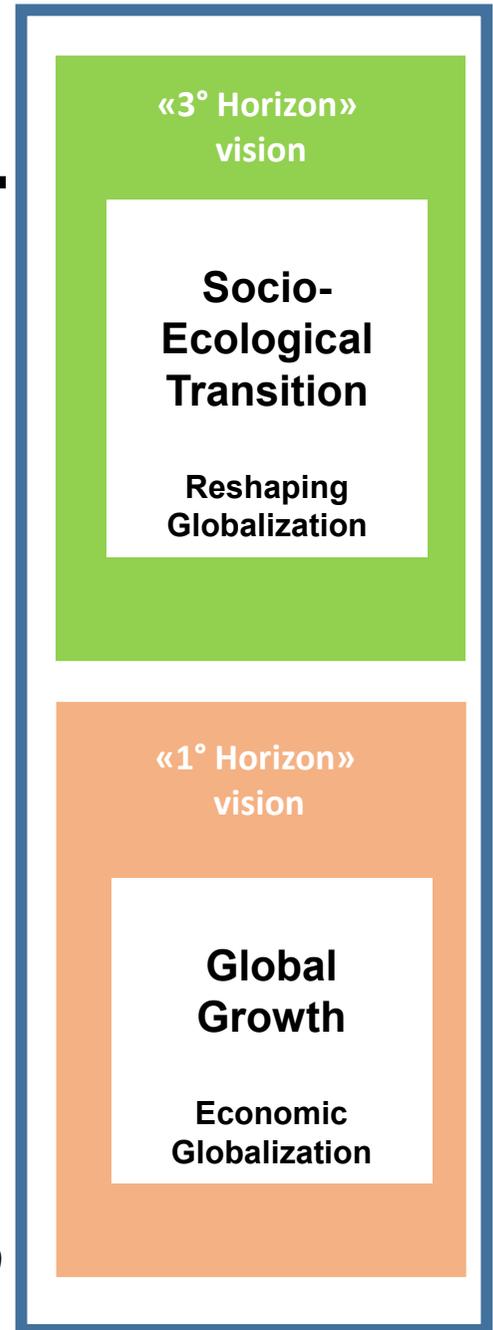
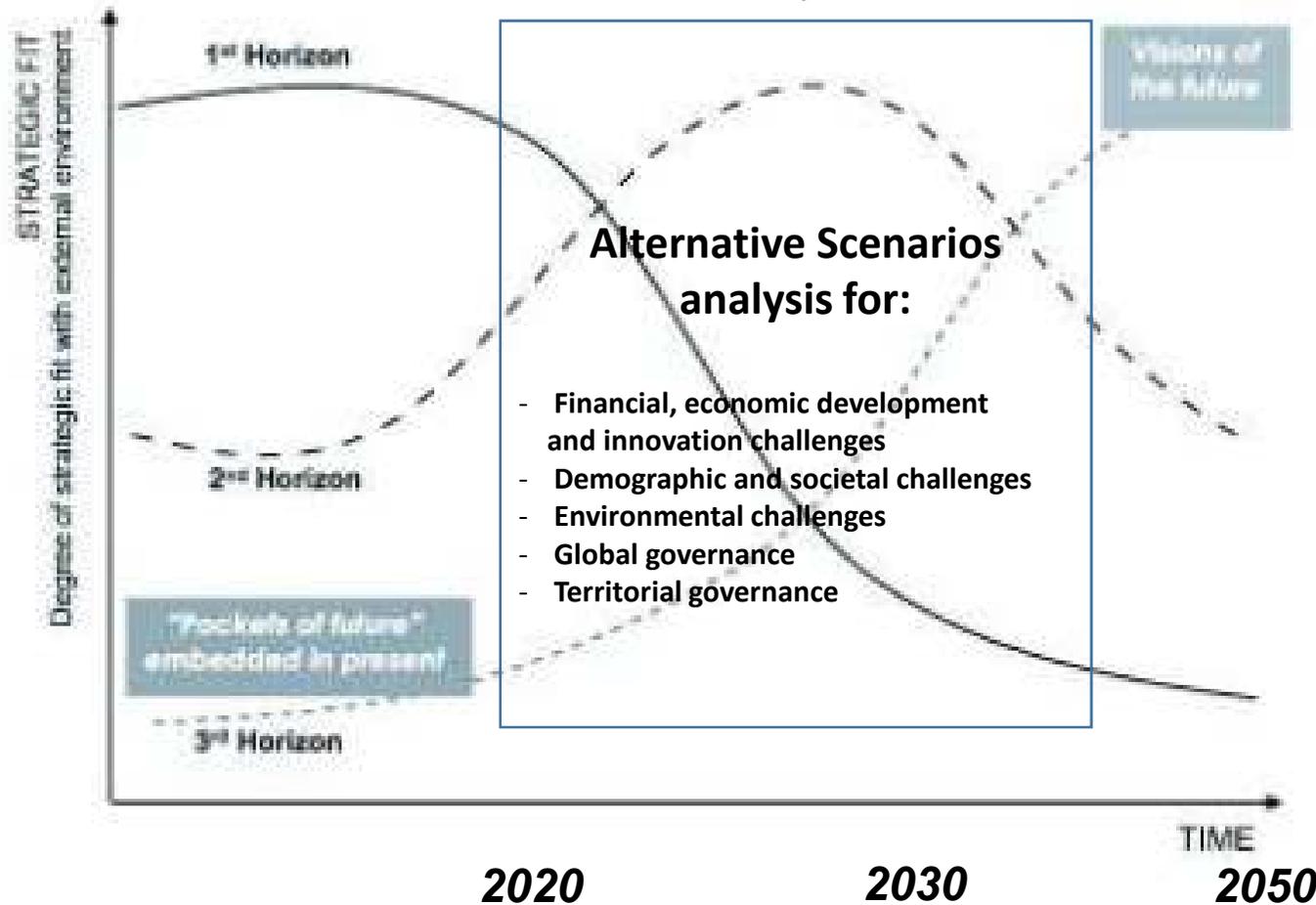
Horizon 3: Envision potential new Portfolios, radically disruptive technologies



Example of Futuristic Management: Application of the Three-Horizons Model in FLAGSHIP

**STRATEGIC FIT TO
COMPETITIVENESS
COHESION
SUSTAINABILITY**

*Global and EU policies
driving change*



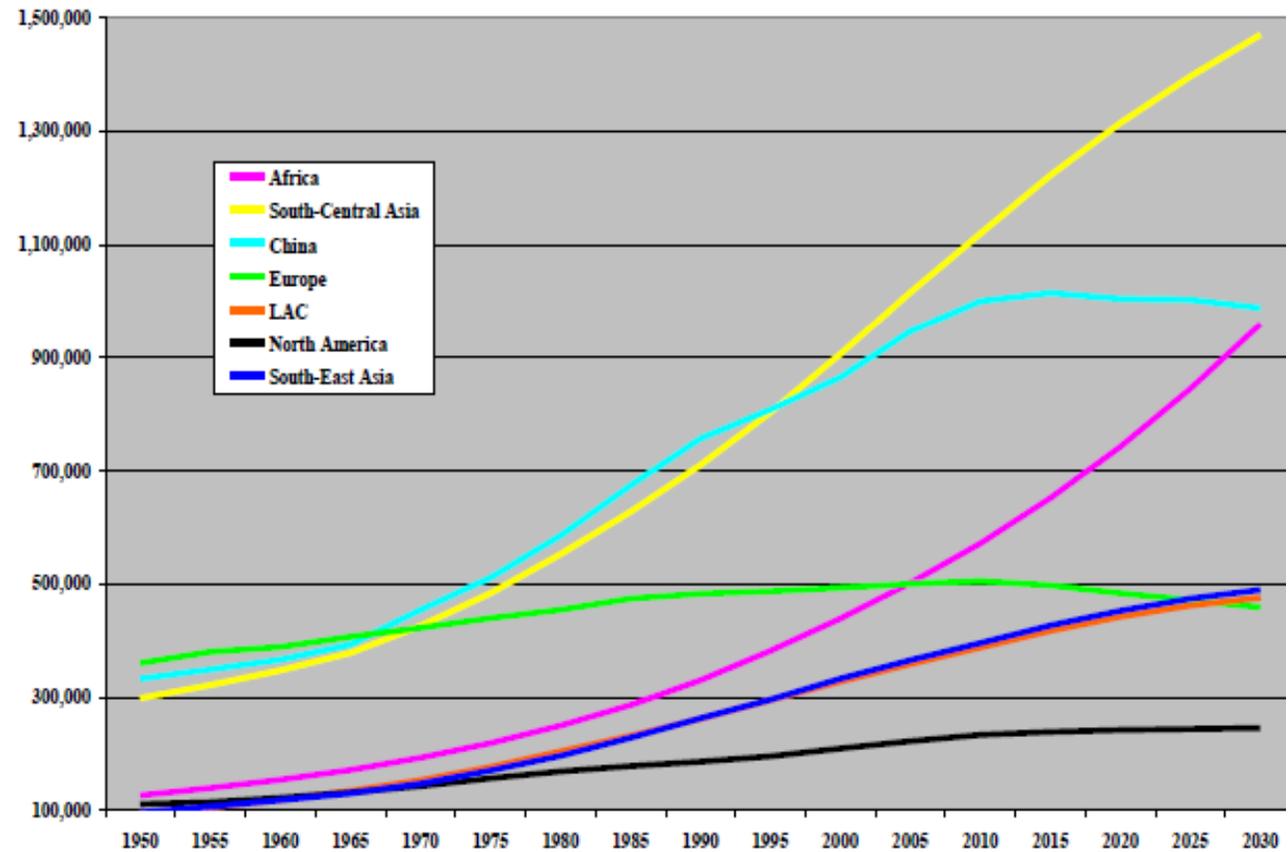
1° Horizon: Going for Growth?

Global demographic ageing

Declining investment rate

Uncertain prospects of innovation
and policy reforms

Working age (15-64) population by regions, in thousands, 1950-2030



Note: for 2015-2030 Medium Variant Projection; LAC – Latin America and Caribbean
Source: Population Division of the Department of Economic and Social Affairs of the United Nations Secretariat, World Population Prospects: The 2012 Revision, <http://esa.un.org/unpd/wpp/index.htm>

How the growth engine (doesn't) works?

The **standard recipe** for high GDP growth is:

- Good fundamentals (Human Capital, Economic Institutions ...)
- Less corporate taxes
- More Foreign Direct Investments

But high per capita income levels, when they are get, are by far the most important factor and will **contribute to slowdown GDP growth everywhere**

So, the growth engine as we know it decelerates as the global society becomes more and more affluent and aged

3° Horizon: Socio-Ecological Transition?

KEY DRIVERS:

Enabling technologies: nano-scale, biology ...

Transformative technologies: Internet of Things, Big Data, Cloud Computing, Additive (3D) Manufacturing, Smart grids, Driver-less vehicles ...

Social technologies: Social networks, new ways of working and learning ...

The «**Resource Efficiency**» revolution:

Combine information technology, nano-scale materials science, and biology with industrial technology, yielding substantial productivity increases

Achieve high-productivity economic growth in the developing world to support the 2.5 billion new members of the middle class

Require new management approaches for capturing opportunities (at business and policy level)

Resource Revolution

Substitution: replace scarce materials with less scarce highly performing materials

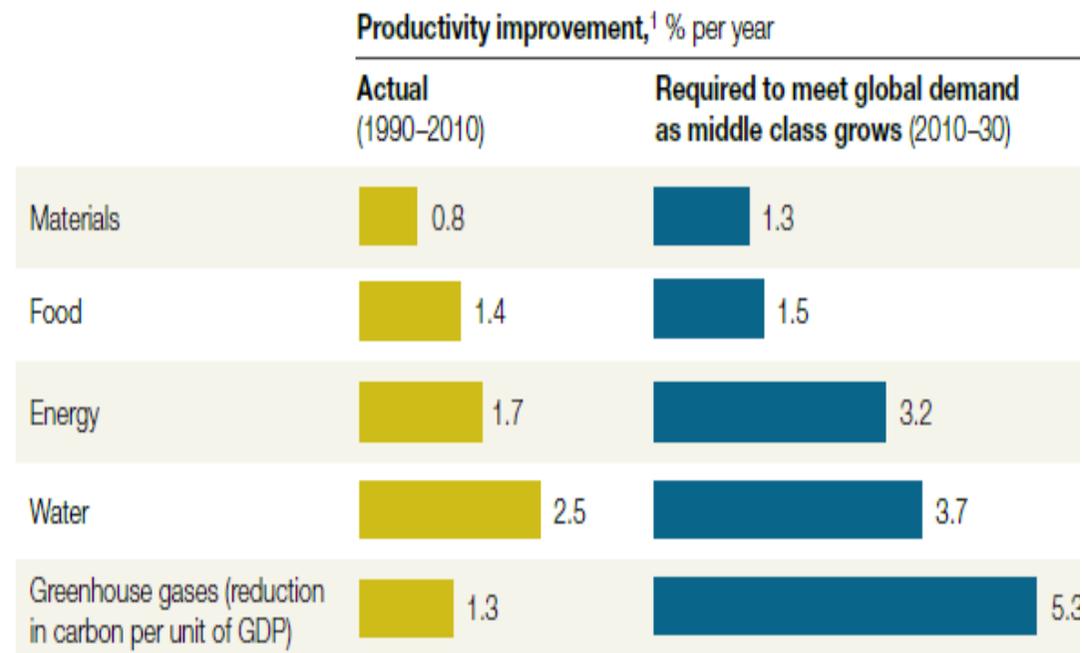
Optimization: embedding intelligent software in industry and service processes

Virtualization: moving processes out of the physical world or simply not doing things

Circularity: finding value in products after their initial use

Waste elimination: achieved by means including the redesign of products and services

A step-change improvement in resource productivity is required to sustain GDP growth.



¹ Productivity improvement in energy measured in GDP/Btu (British thermal unit); materials, GDP/metric ton; water, GDP/cubic meter; food, yield/hectare; and greenhouse gases, GDP/ton of carbon-dioxide equivalent.

Source: *Resource Revolution: Meeting the world's energy, materials, food, and water needs*, McKinsey Global Institute report, 2011

2° Horizon: Shifting our paradigm?

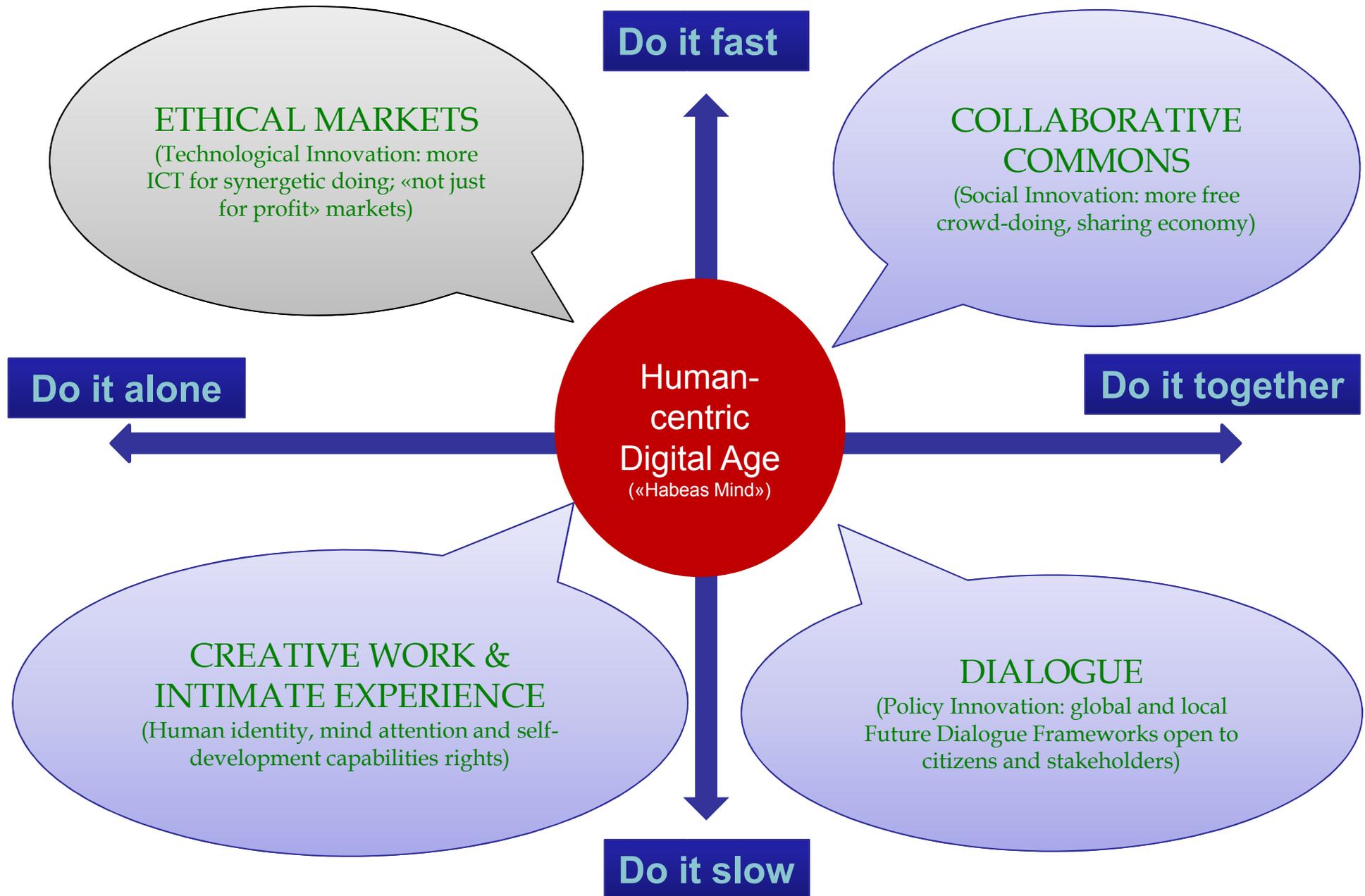
The Growth engine governing our world works increasingly less for increasingly more affluent societies, so lets...

Change our mind to achieve **progress beyond growth**: less GDP, more individual and social well being, and keep ecosystems resilience ...

Support **technological innovation** in progressive (labor saving/profitable) industries and **social innovation and solidarity funding** for high quality services (health, education, research ...). As they are stagnant activities (no labor saving) they need not just for profit management and funding (control costs and anchor funding to impact/benefit target indicators, e.g. **healthy life expectancy**)

Change policy and governance mechanisms from «polarization» to «dialogue» at all levels (global, EU, national, local), building together a **Human-centric Digital Age**

HUMANS' «ONLIFE» FUTURE

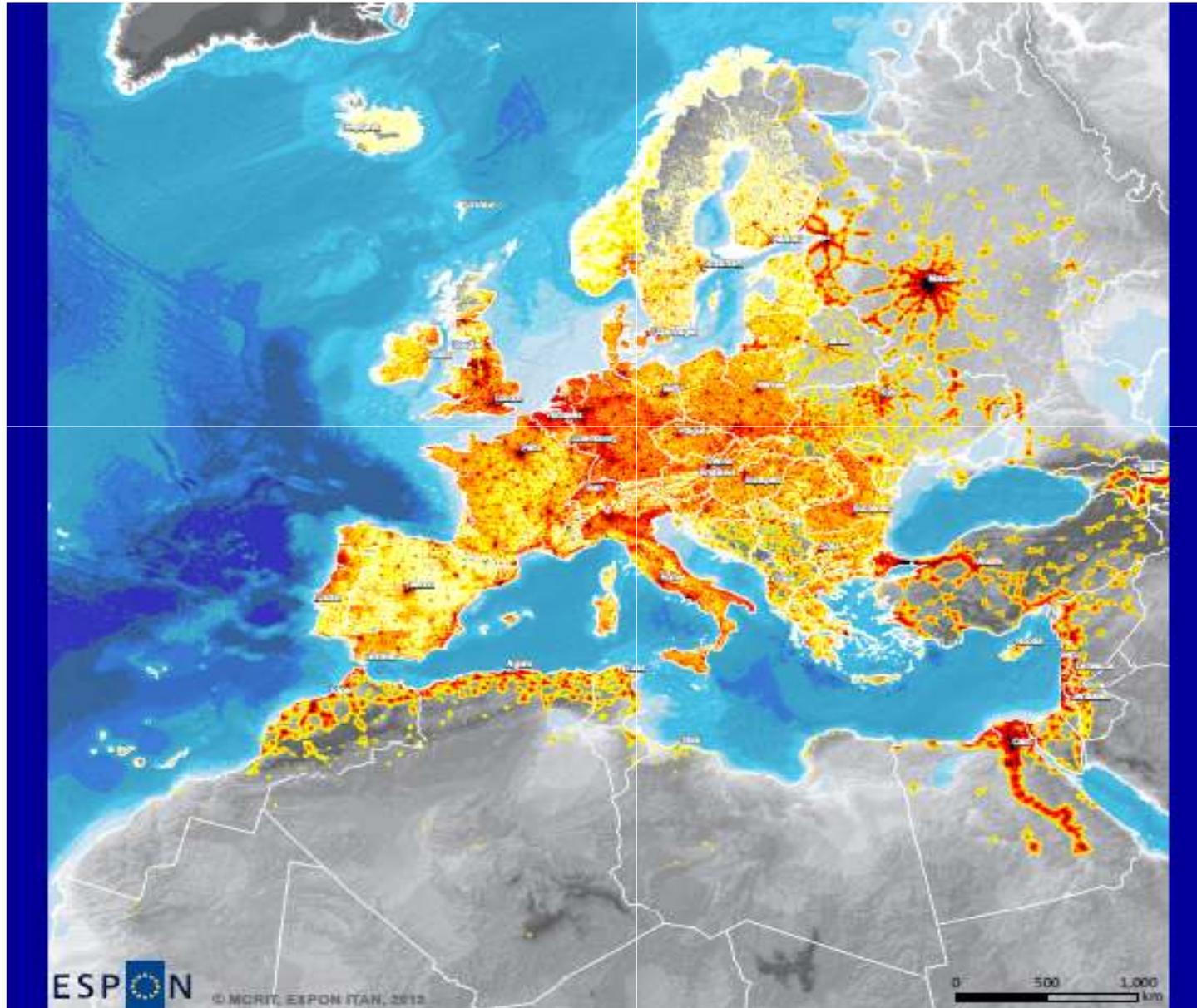




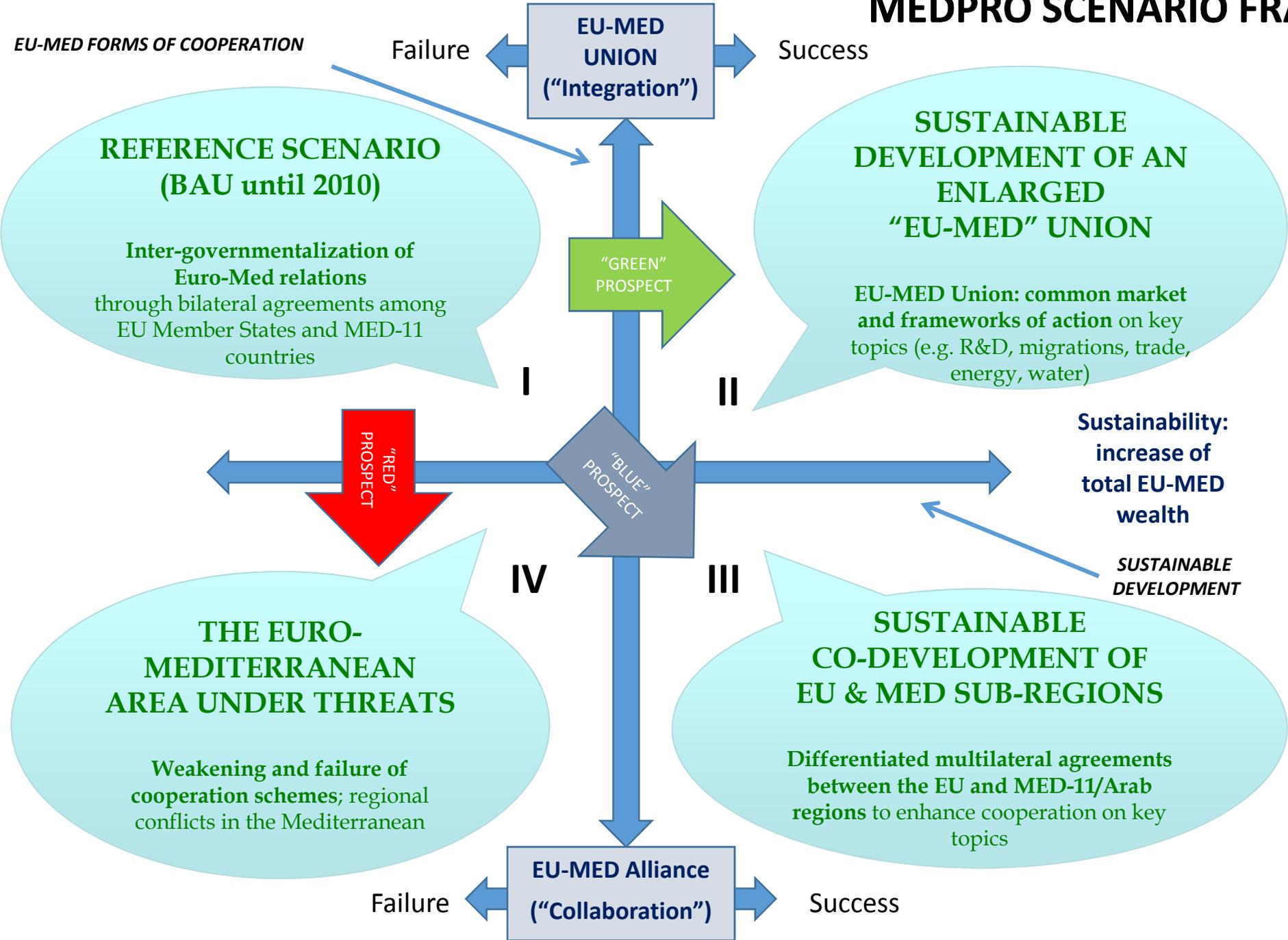
MEDPRO Recommendations: Towards a Sustainable Euro-Mediterranean in 2030

Dr. Rym Ayadi, CEPS & MEDPRO Coordinator
Dr. Carlo Sessa, ISIS

Mediterranean at the cross-road of 3 continents

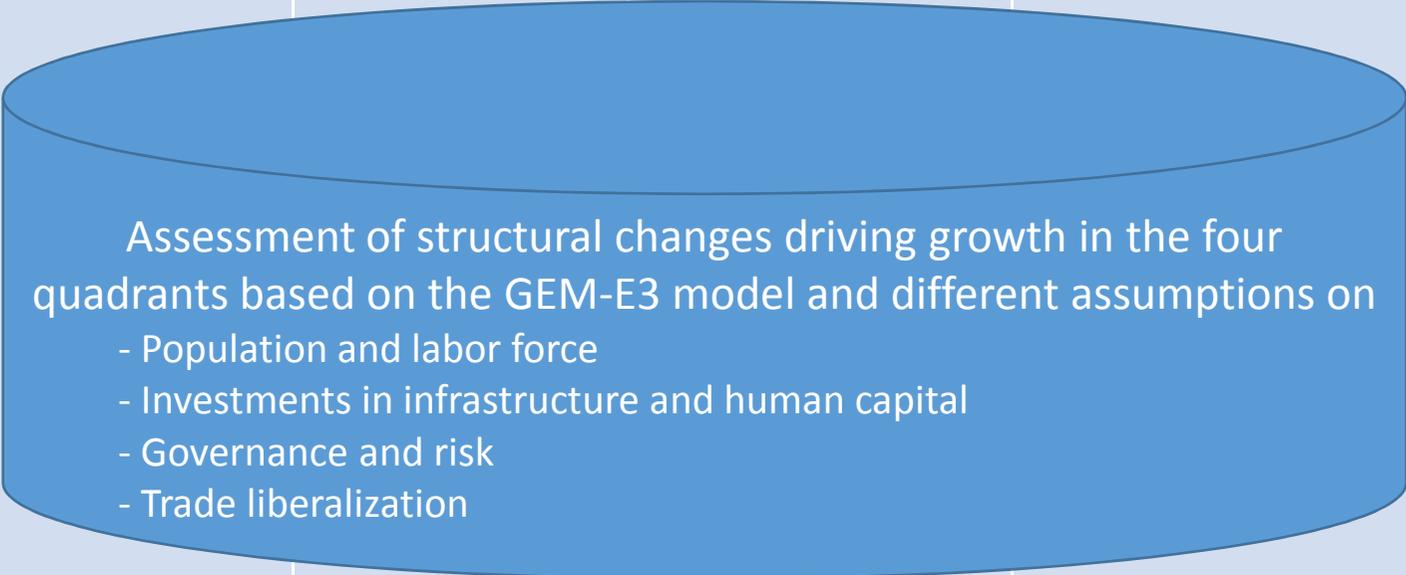


MEDPRO SCENARIO FRAMEWORK





MEDPRO scenarios to 2030 (Quantitative Assessment)

<i>Dimensions</i>	<i>Quadrant I Reference Scenario</i>	<i>Quadrant II Enlarged Euro-Med Union</i>	<i>Quadrant III Co-development of EU and MED- 11 regions</i>	<i>Quadrant IV Euro-Mediterranean area under threats</i>
Governance Demography Economy Energy Environment & Climate Change	 <p>Assessment of structural changes driving growth in the four quadrants based on the GEM-E3 model and different assumptions on</p> <ul style="list-style-type: none"> - Population and labor force - Investments in infrastructure and human capital - Governance and risk - Trade liberalization 			



Towards a Comprehensive Long-Term Euro-Mediterranean Policy Agenda/1

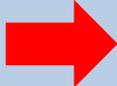


	 RED TRANSITION	 BLUE TRANSITION	 GREEN TRANSITION
Rationale	<p>The EU will assist SMECs countries in their political transitions towards fully democratic regimes</p> <p>The critical period to deliver the package is since now</p>	<p>The EU will assist SMECs countries in their own economic and social modernization processes, and help them to build regional (South-South) linkages, trade and cooperation schemes.</p> <p>The critical period to deliver the package is until 2020, to prepare for a more balanced cooperation/partnership with the EU up to 2030</p>	<p>To build enhanced Euro-Mediterranean partnership schemes in energy, environment and socio-economic areas.</p> <p>The critical period to deliver the package is until 2030, which is the time for large programs and infrastructure investments in energy, transport, ICT, water and environment (including adaptation to climate change) to be implemented and produce their effects.</p>



Towards a Comprehensive Long-Term Euro-Mediterranean Policy Agenda/2



	 RED TRANSITION	 BLUE TRANSITION	 GREEN TRANSITION
New approaches	<p>For the EU to provide a strong political message of a vision for the Euro-Mediterranean towards more sustainable transitions (blue and green) with short and long term actions</p>	<p>Comprehensive socio-economic agreements will be mutually agreed towards a sustainable future that is agreed by the EU and the partner country (and/or region)</p> <p>Regional economic and financial integration, human development programmes and targeted mobility partnerships should be encouraged</p>	<p>Progressive completion of the Euro-Med Economic Area</p> <p>Focus on:</p> <p>A Euro-Mediterranean energy transition strategy</p> <p>A Euro-Mediterranean environment adaptation strategy</p>

THANK YOU FOR YOUR ATTENTION !



FLAGSHIP <http://flagship-project.eu/>

MEDPRO <http://www.medpro-foresight.eu/>