







Innovation through Smart Specialisation in MENA Countries

Tanja Woronowicz - Innovation Capability Center

Safe and Ethical Cyberspace, digital assets and risks:

How to assess the intangible impacts of a growing phenomenon?

The World Conference on Intellectual Capital for Communities

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Agenda

- ➤ European approach of Smart Specialization
- The French example: Region Nouvelle Aquitaine (INTERREG project P2L2)
- ➤ German initiative INSIGHT MENA
- ➤ Geodata for cross-sectoral innovation



EU approach: Research & Innovation Smart Specialization Strategies

Smart specialisation is all about learning what a country or region does best.

©European regional Development Fund: http://www.interreg4c.eu/focus-on-smart-specialisation

The Smart specialisation' approach combines industrial, educational and innovation policies to suggest that countries or regions identify and select a limited number of priority areas for knowledge-based investments, focusing on their strengths and comparative advantages.

©OECD: http://www.oecd.org/sti/inno/smartspecialisation.htm



How is specialization inserted in a global perspective?

Search of the differentiating elements that, given the window of opportunity in the global context constitutes a **comparative advantage.**

Specialization

What Specialization characterize the region?

Those activities and/or technology domains to prioritize as part of the bet to reach a **competitive advantage**



Specialized Diversification

through
Research &
Innovation

Smart Specialization

As a continuous process generator of **employment** and **wealth** for the regions

What is the range of Smart Specialization in a region?

The areas of specialization mean a related variety which intersection may cause innovative discoveries



The Mechanism of the Specialized Diversification

How do research and innovation contribute to the process of smart specialization?

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<u>2008 – Survey and opportunity study « chemicals and composites</u> industry »

2009 - Adoption of a regional strategic roadmap

Composites and Advanced Materials as a KET

2009-2013 – Action plan in 3 main directions

- · Public and private research and development
- SME's and larger companies (technologies or products development)
- Training

2016 - the new deal of the french « NoTRE » law

- A new balance and relationships between economic development and territorial development
- Regions reinforced as main players of the economic development
- EPCI (agglomerations) as main partners

2016 - A New regional scheme for economic development : SRDEII

 Sectorial and thematic specialization strategies selected as one of the 9 strategic guidelines

2017 and after - A roadmapping process to be renewed at the new region scale

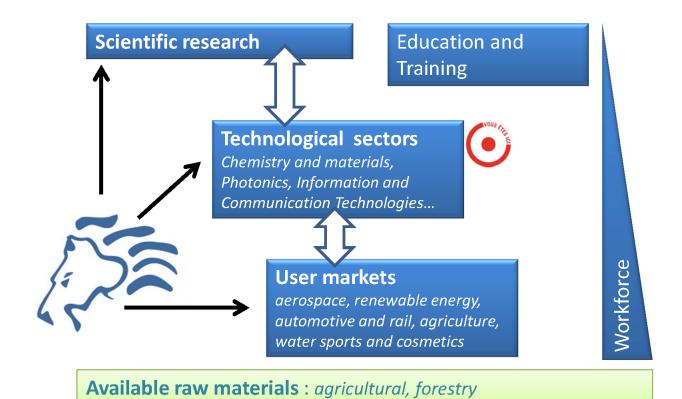
- An opportunty to merge the 3 former RIS3 within the framework of the SRDEII
- A challenge: integrate the RIS3 requierments in terms of gouvernance and monitoring







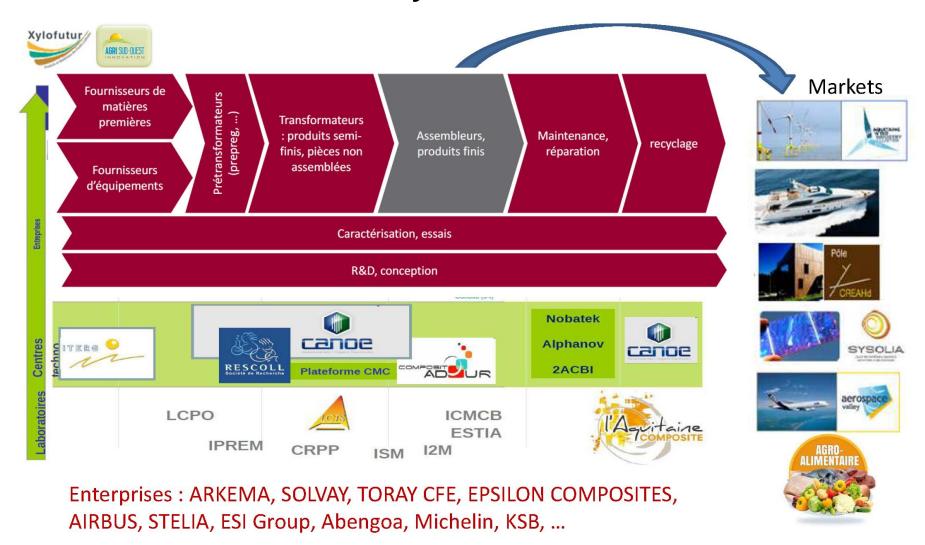
The strategic choice to consider chemistry and advanced materials as key enabling technologies for Smart Specialization



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Economy

Value Chain Analysis - Stakeholder







The roadmapping process

Objective 1 – Structure a center of academic and industrial excellence

Create instruments like technology platforms on innovative materials

Federate and enhance academic and industrial research on five key technologies: nanostructured materials, organic composites, thermostructural composites, recycling, maintenance

Objective 2 – Generate innovation throug technologies of composite materials

Develop the offer of regional SMEs

Help SMEs which can be potential users to appropriate those technologies

Objective 3 – Organize a training offer for jobs related to composites and advance

Federate a complete training offer (initial, continuing, apprenticeship)

Adapt and enhance the training offer for new jobs Articulate the training offer with academic research and technology platforms



INSIGHT MENA

- Results of research are expected to impact society and economy.
- ➤ Investments in public funded R&I shall contribute solving national challenges.
- Smart development is
 - involving multiple stakeholders with divergent professional cultures and targets
 - bound to complex activities
 - a creative process
- Current quantitative input / output measures are insufficient mechanisms to manage and improve innovation ecosystems stakeholders' contribution.

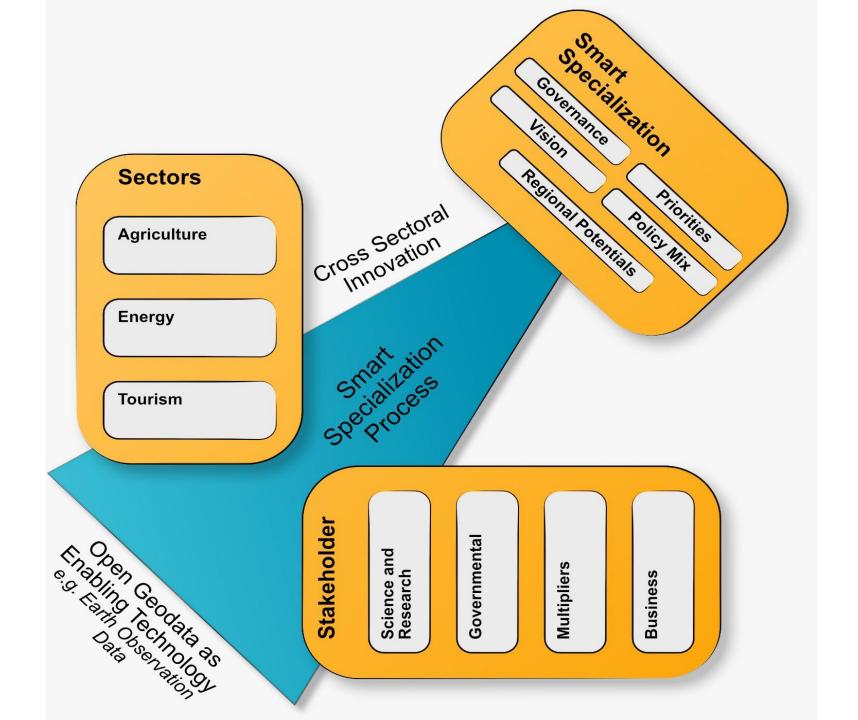
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- ➤ German BMBF funding from 2018 2022
- > supporting Tunisian and Moroccoan innovation ecosystem-development
- > inter-ministerial cooperation and alignment of measures
- > improved framework conditions for innovation
- piloting open access georeferenced data as enabler for cross-sectoral value creation
- considering responsible research & innovation principles in the context of digitalization









INSIGHT – develop differentiated capabilites

- ➤ hard capabilities: infrastructure, technologies, public authorities, budget
- ➤ soft capabilities: knowledge, management skills like communication, interaction, delegation, cooperation, process controlling/monitoring
- ➤ operational capabilities: values and competencies to accomplish defined tasks and duties, to solve problems, to define smart goals, to develop stakeholder relations etc.
- >adaptive capabilities: ways to deal with change