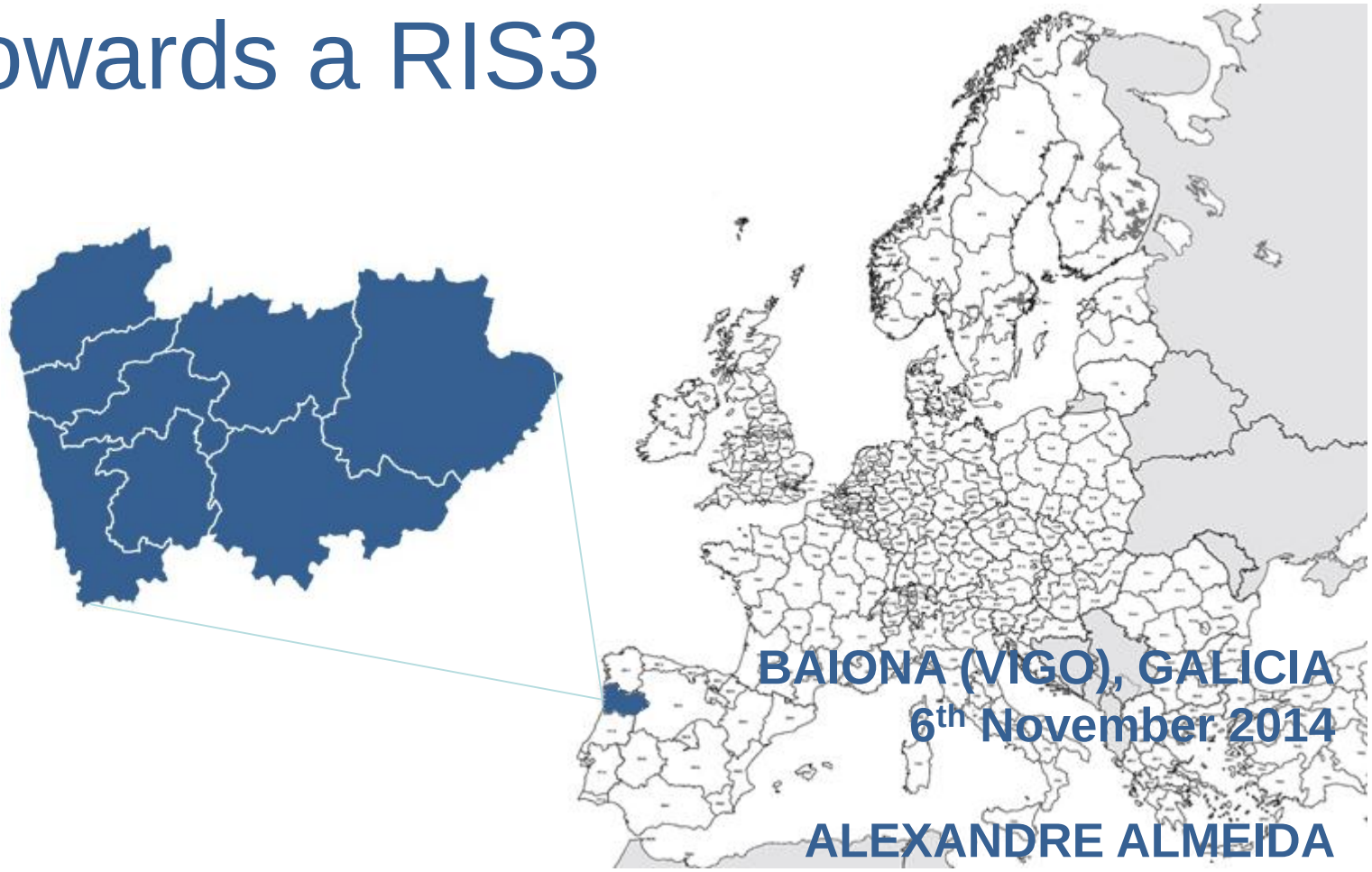
Towards a RIS3



BAIONA (VIGO), GALICIA
6th November 2014

ALEXANDRE ALMEIDA

Questions for discussion

1. What should be the methodology to evaluate a project's alignment with the RIS3 in operational terms?
2. How to deal with moral hazard?
3. How to stimulate active participation and deep involvement of stakeholders?
4. How to deal with crowding-out effects and the "picking winners syndrome"?

Facts and Figures

SMART SPECIALISATION PLATFORM

ECONOMIC STRUCTURE / INOVATION

Fashion Industries
Machinery and Equipment
Basic Metals and Fabricated Metal Products
Rubber and Plastic Products
Automobile
Food Industry
Tourism
Construction

RESOURCES & ASSETS

Well developed system of research units

Higher Education Students – 124k
STEM: 7k graduates/year - 1.500 PhD last 10 years
HEALTH: 7k graduates/year – 965 PhD last 10 years
SEA: 2,5k graduates/year – 571 PhD last 10 years

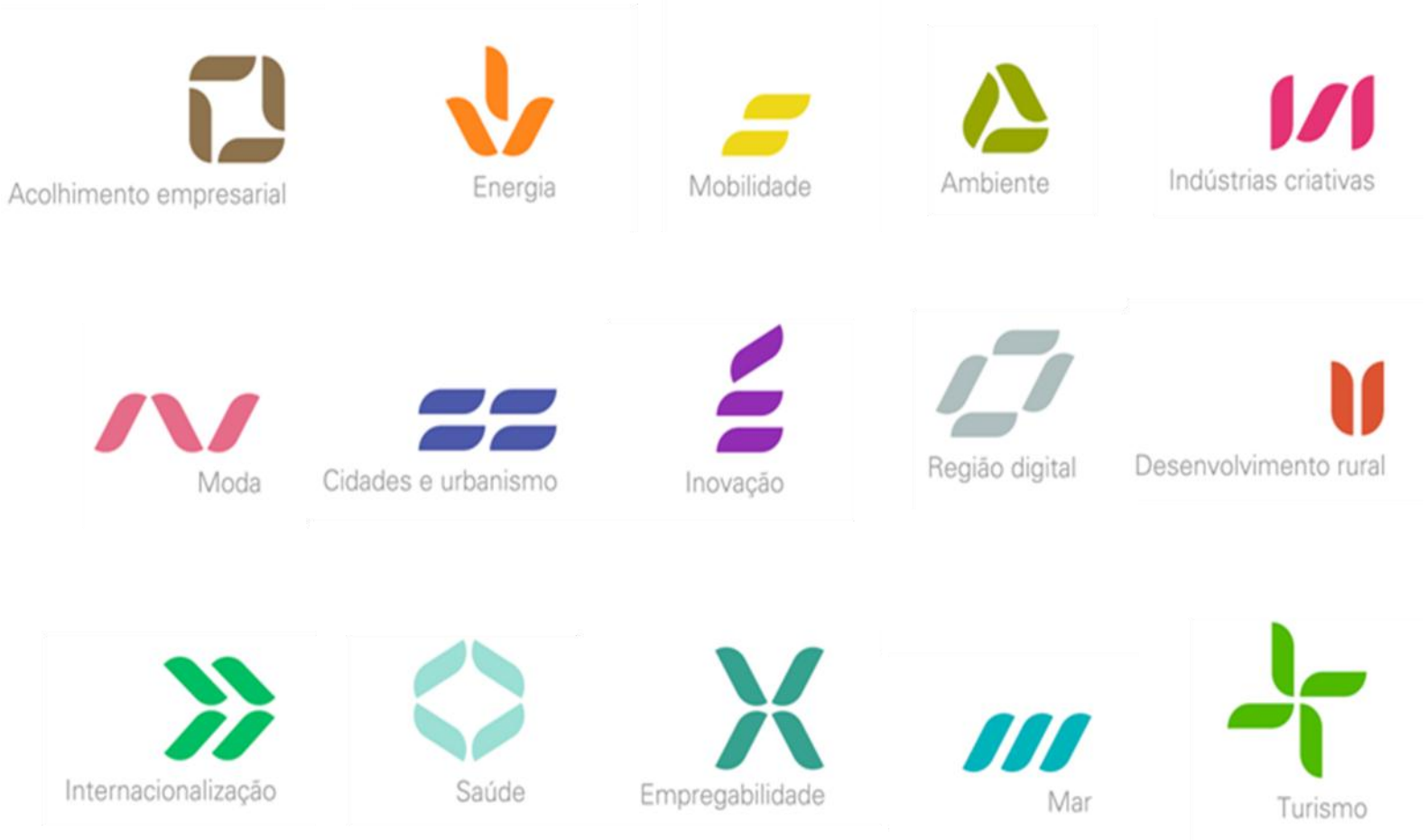
Natural Resources and Cultural Assets:
Sea, 4 UNESCO World Heritage Sites (e.g. DOURO)

NORTE REGION – SOME NUMBERS

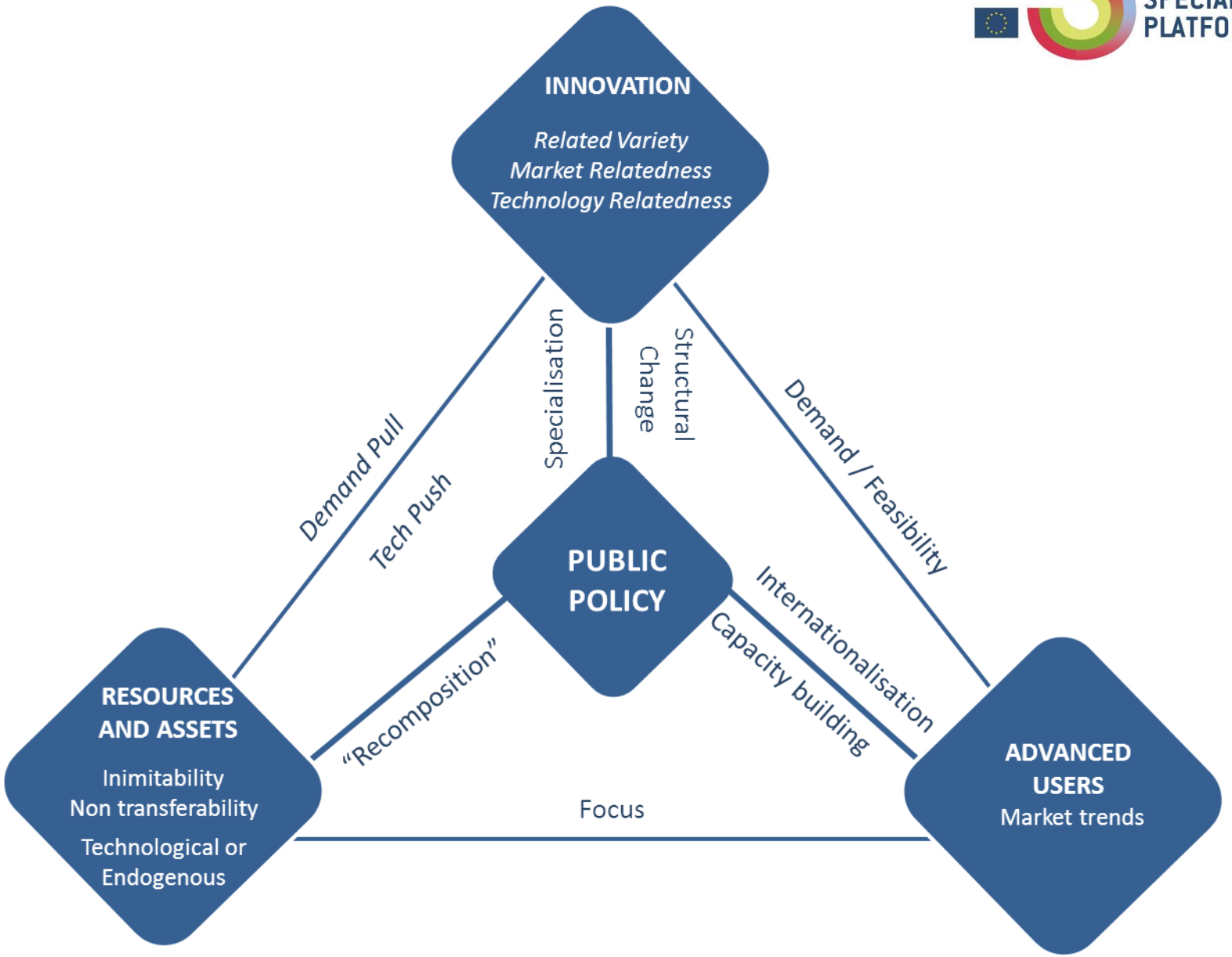
Population (2011): 3.689.682
GDP/cap (2011): 12.928 euro
Exports (2012): 16.800 M euro
Share industry in GVA (2011): 32%
Employment industry (2010): 574.248
GERD/gdp (2011): 1,58%
BERD/gdp (2011): 0,70%
MODERATE INNOVATOR

From RIS to RIS3

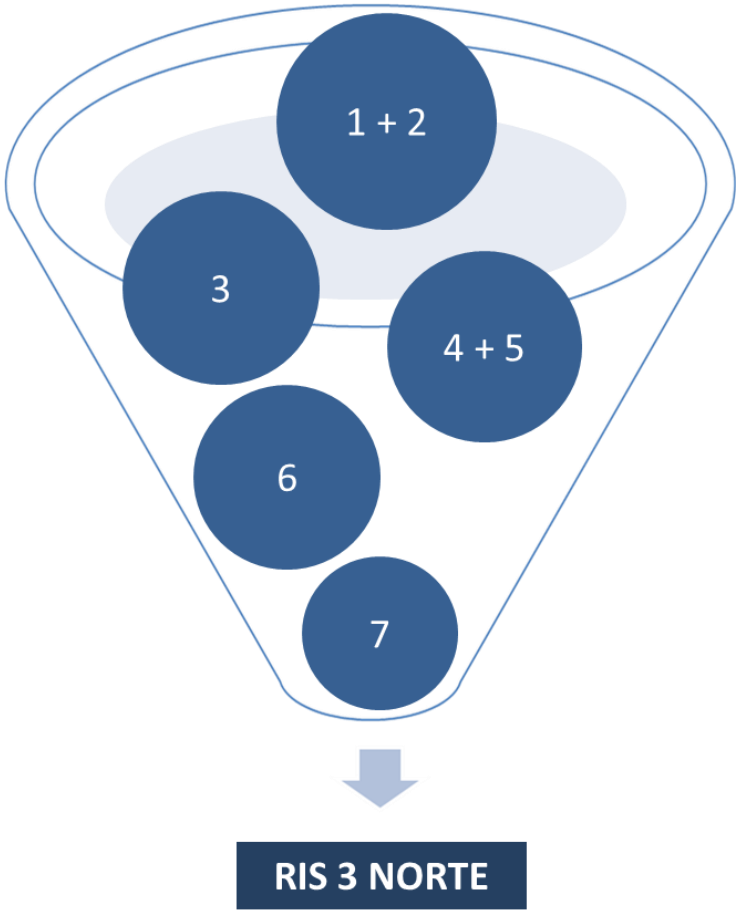
NORTE 2015 – 15 Thematic Action Plans



Conceptual approach to RIS3



Operational methodology



1. Quantitative analysis of resources and assets and of the economic structure;
2. Identification of non-technological endogenous assets;
3. Evaluation of “technology relatedness” and “market relatedness” (identification of 8 priority domains);
4. In-depth characterization of each domain;
5. Prospective analysis (proximity demand and market trends);
6. Thematic workshops;
7. Oriented Questionnaires: “fine tuning” and “follow-up”.

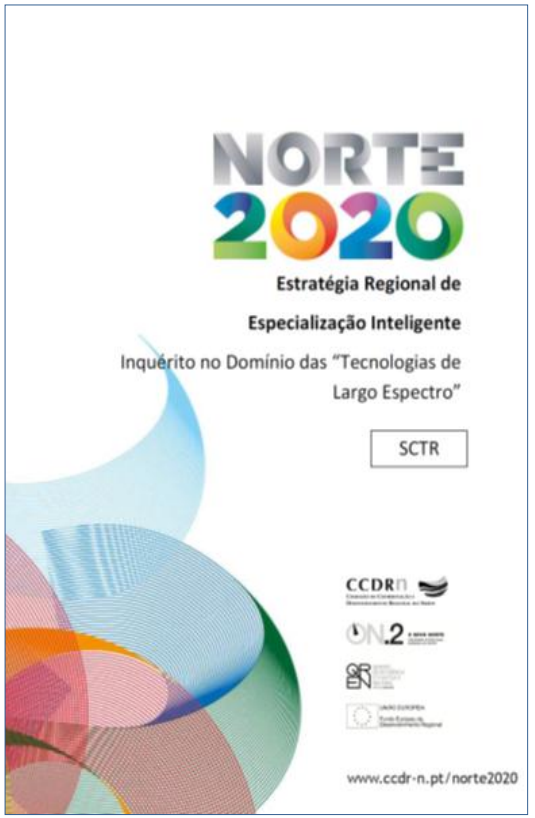
Operational methodology

Setor da Economia	Área Científica %	Ciências Agrárias 2,1	Ciências da Terra da Vida e Ambiente 6,0	Engenharia Civil 4,3	Criativas 5,5	Energia 0,4	Física e Matemática 2,3	Ind. Aliment. 0,5	Moda 0,4	Materiais 0,6	Metalurgia e Mecanica 3,8	Química 3,9	Saúde 15,8	TICE 8,5
Agricultura e Pesca	0,9	Alta	Alta			Baixa		Alta					Alta	Baixa
Ind. Aliment.	3,8	Alta	Alta			Baixa		Alta			Baixa		Alta	Baixa
Moda	8.6				Alta	Baixa			Alta	Média	Baixa		Baixa	Baixa
Indústrias Florestais	2,4	Alta	Alta	Média		Baixa								Baixa
Fab. Químicos	0,8					Baixa						Alta		Baixa
Borracha e Plásticos	2,1					Baixa				Alta		Alta		Baixa
Minerais não metálicos	1,3			Alta		Baixa								Baixa
Metalúrgicas e Prod. Metal	4,3			Alta		Baixa					Alta			Baixa
Máquinas e Equipamentos (incluindo Eléctricos e Inf.)	3,8					Alta	Alta			Alta	Alta			Alta
Automóveis e Componentes	1,6					Baixa	Alta			Alta	Alta	Alta		Média
Mobiliário e colchões	1,2				Alta	Baixa				Baixa	Baixa		Baixa	Baixa
Energia	3,6		Baixa	Média		Alta	Alta				Média	Alta		Média
Construção e Imob.	15,6			Alta	Alta	Alta				Alta	Média			Baixa
Ativ. de inf. e de comunicação	2,1				Alta	Baixa	Alta							Alta
Ativ. de consult e cient.	4,9					Baixa	Alta							Alta
Ativ. administrativas	4,3					Baixa								Alta
Saúde e dispositivos Med	7,8					Baixa		Média	Baixa	Média			Alta	Média
Atividades Criativas	1,8				Alta	Baixa			Alta					Alta

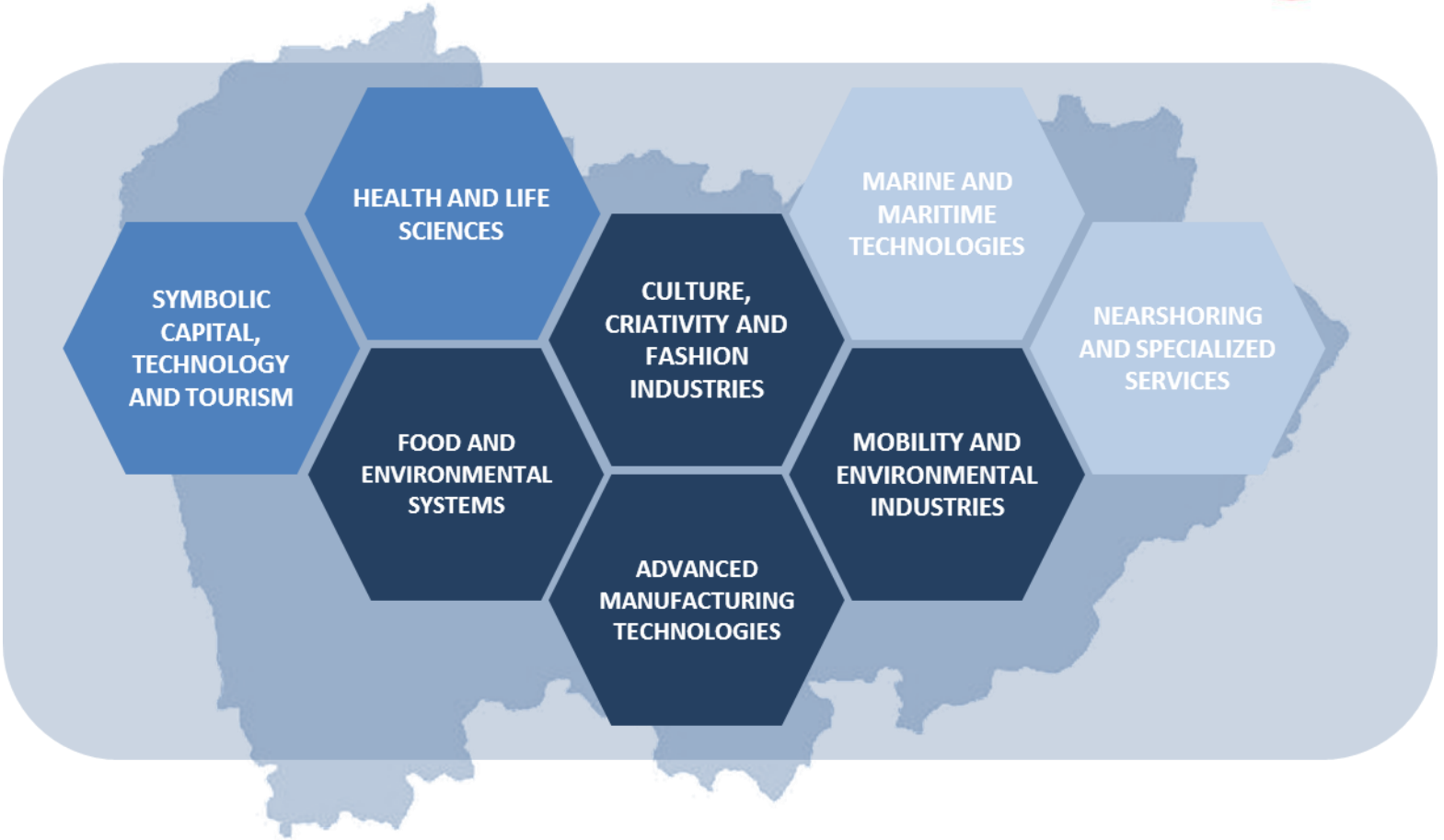
Intensidade de articulação: Alta Média Baixa

Operational methodology

Workshops	Date
Health and Life Sciences	10-05-2013
Marine and Maritime Technologies	24-05-2013
Symbolyc Capital, Technology and Tourism	30-05-2013
Nearshoring of Specialised Services	31-05-2013
Culture, Creativity and Fashion Industries	04-06-2013
Advanced Manufacturing Technologies	04-06-2013
Mobility and Environmental Industries	05-06-2013
Food and Environmental Systems	19-06-2013



Priorities



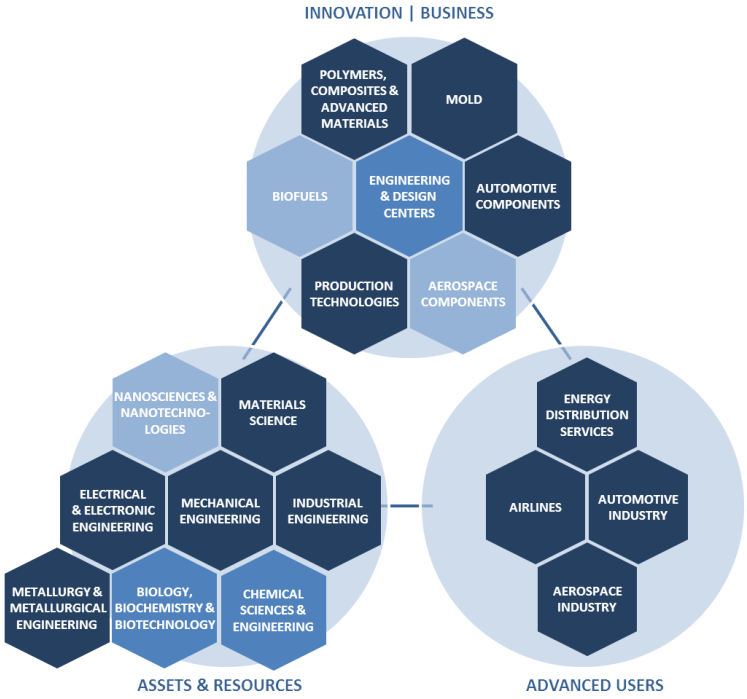
Multisectoral domains based on related variety of knowledge and productive basis in order to obtain synergies and mutually reinforce competitive advantages.

Priorities - core

Mobility and Environmental Industries

RATIONAL

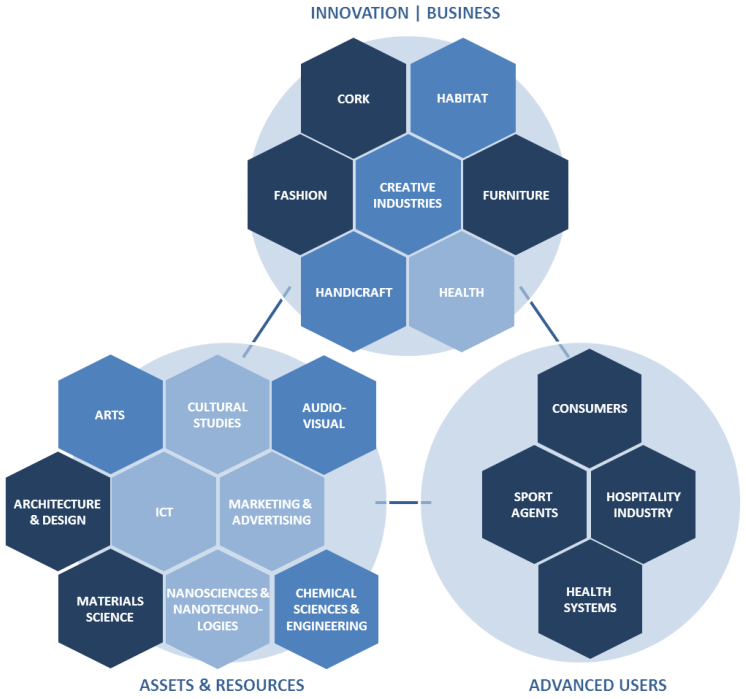
Creating value from accumulated scientific expertise in the areas of automotive, mold and new materials manufacturing, underpinned by recent investments and supply agreements with Airbus and Embraer, upgrading automotive components and moulds industries to supply more sophisticated client, particularly in the field of aeronautics.



Culture, Creativity and Fashion Industries

RATIONAL

Using symbolic knowledge (especially, architecture and design) to lever innovation in traditional industries and simultaneously support the consolidation of creative industries, aligned with the market trends for design based consumer goods.

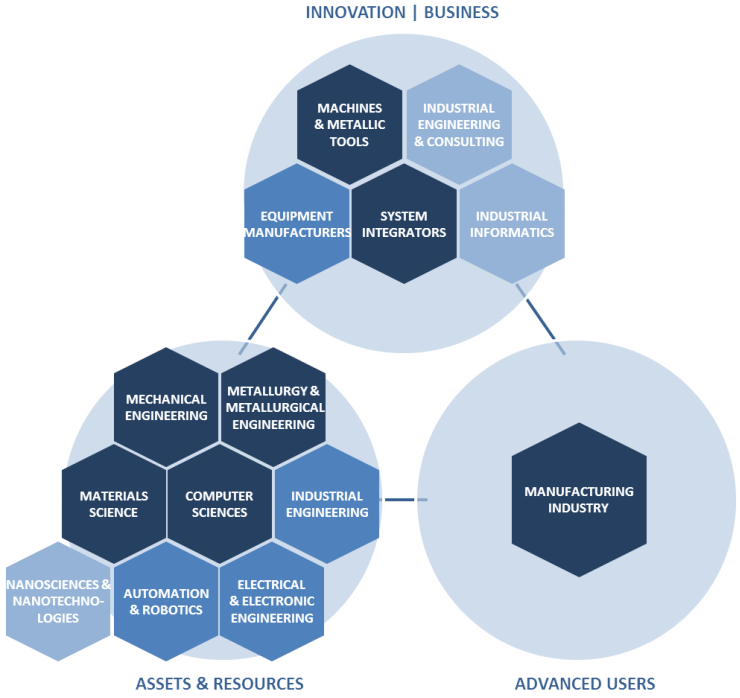


Priorities - core

Advanced Manufacturing Technologies

RATIONAL

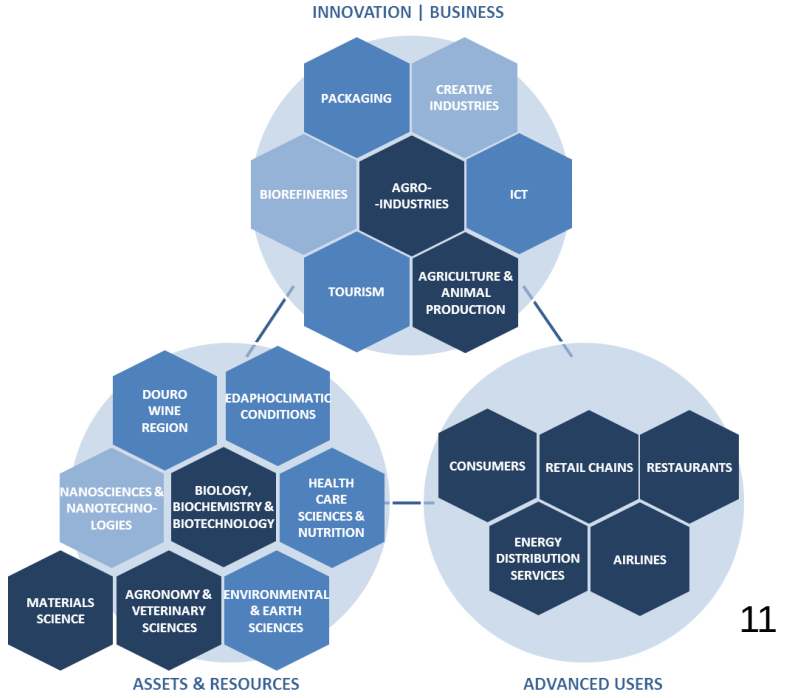
Development of clusters associated with Broad Spectrum Technologies (Key Enabling Technologies), and in particular with Advanced Manufacturing Systems, Nanotechnologies and ICT, combining the existence of distinctive scientific and productive capabilities and the presence of advanced users, strengthening the existing business structure (in the case of production technologies and ICT) or promoting the creation of new companies (particularly in the area of nanotechnology and new materials).



Food and Environmental Systems

RATIONAL

Linking the regional agricultural potential in high value-added products (wine, olive oil, chestnuts, etc) to scientific knowledge (enology, engineering, biology, biotechnology, etc.) to develop precision agriculture and supportive technologies, as well as to expand agri-food industries (dairy products, winemaking, etc), also exploring the possibility of co-location of other symbiotic economic activities such as tourism.

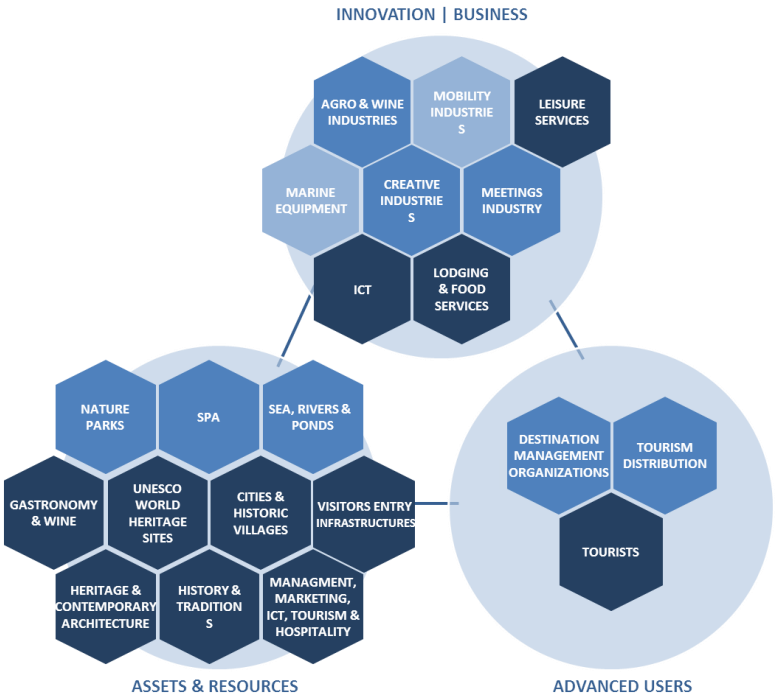


Priorities - emergent

Symbolic Capital, Technology and Tourism

RATIONAL

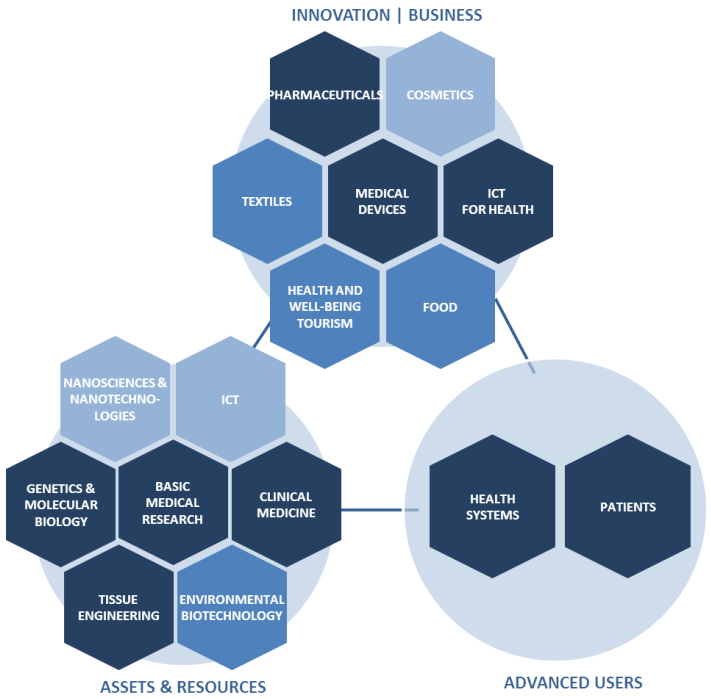
Creating value from symbolic capital and territorial intensive resources, taking advantage of high quality human capital and of R&DT capabilities, especially in ICT, to promote a wide related variety of economic activities, anchored around tourism.



Health and Life Sciences

RATIONAL

Consolidate and promote interactions between the accumulated research capabilities (namely, on tissue engineering, cancer, neurosciences and surgical techniques) and a related variety of firms (pharma, medical devices, health tourism, Health Care, Digital ICT), driving the co-construction of competitive advantages.

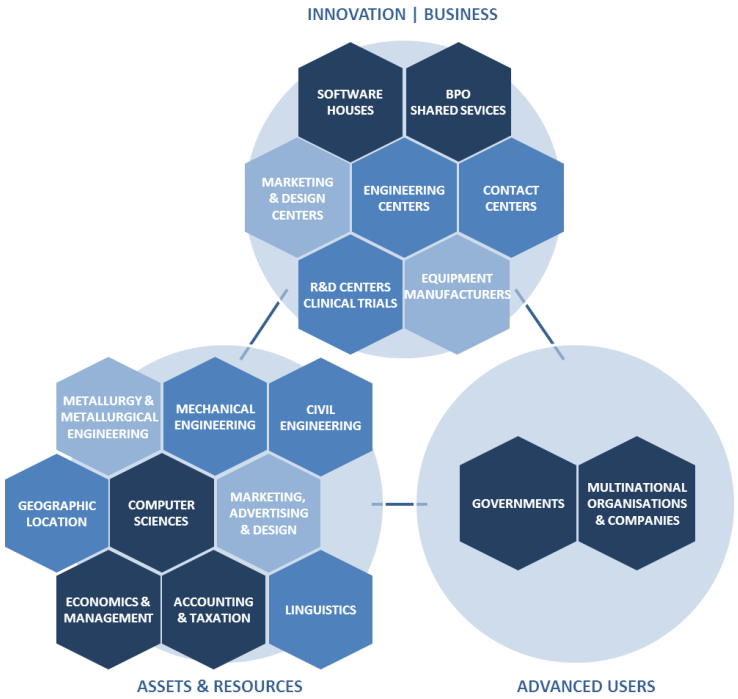


Priorities - wildcard

Nearshoring of Specialised Services

RATIONAL

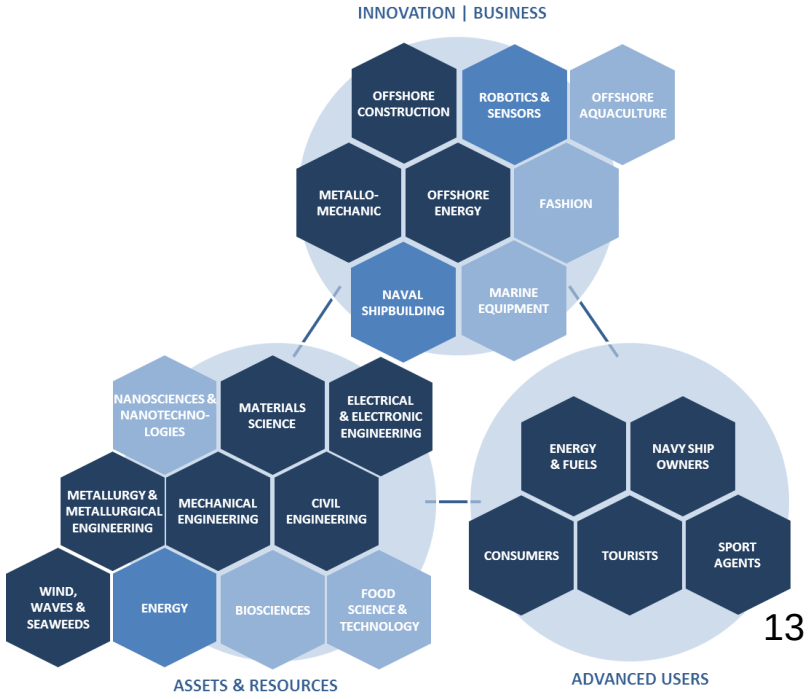
Exploiting international trends of nearshoring business and knowledge process outsourcing services to valorize and promote the adaptation of human capital. This provides opportunity to retain talent, as well as to convert human capital which competencies are not adequate to the prospective demand.



Marine and Maritime Technologies

RATIONAL

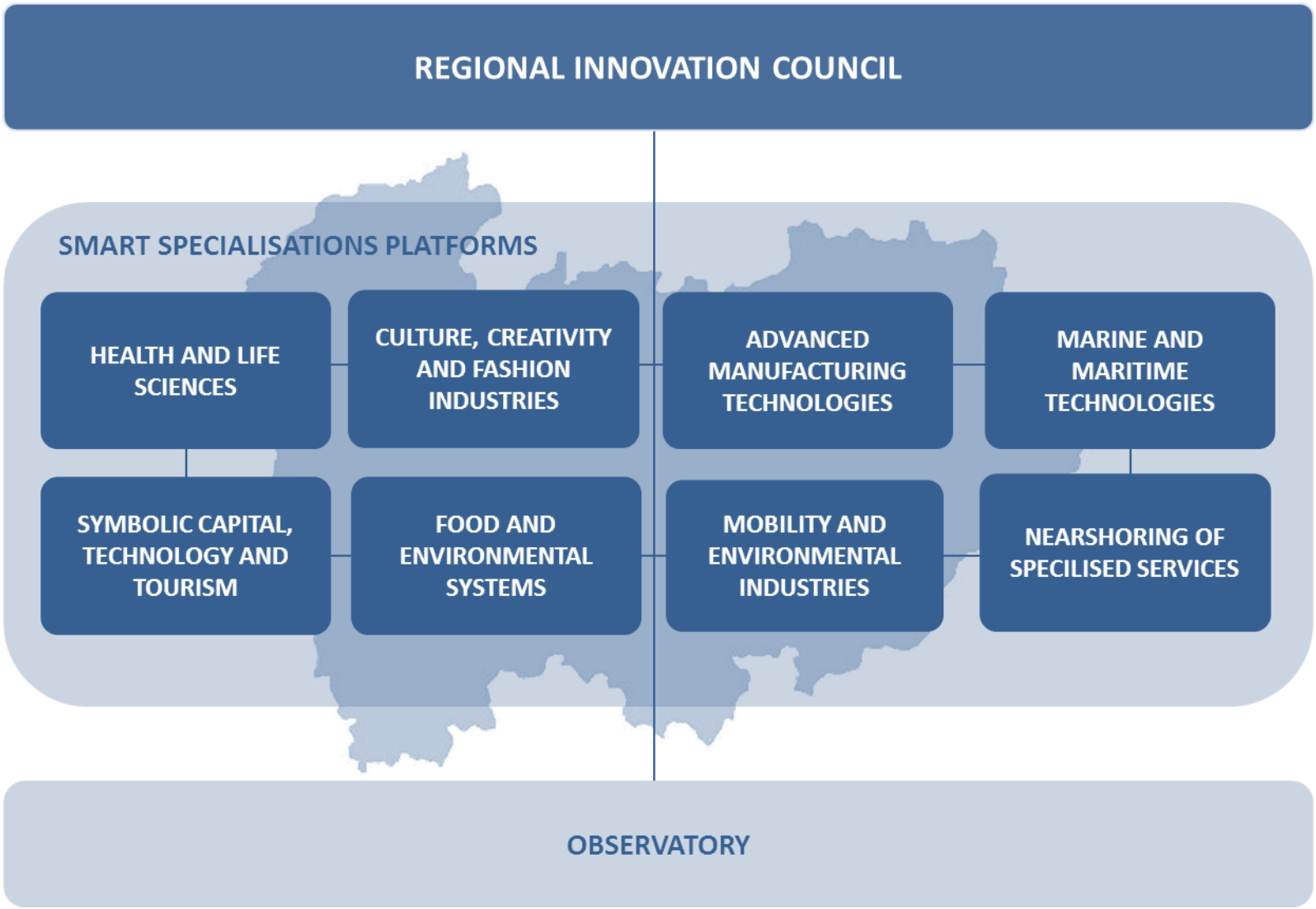
Developing a sea technologies cluster which innovation focus lays on the combination of engineering knowledge (civil, mechanics, naval, robotics, energy, life sciences, ICT, New Materials), natural resources (wind, waves, algae, beaches) and existing or emerging economic activities (shipbuilding, offshore construction, nautical tourism, fishing and aquiculture, biofuels e, etc).



The vision

By 2020, Norte Region will be a beacon of industrial competitiveness founded on continuous innovation and on dynamic capabilities and drawing a new trajectory of fast growth.

Governance


REGIONAL INNOVATION COUNCIL
SMART SPECIALISATIONS PLATFORMS
HEALTH AND LIFE SCIENCES
CULTURE, CREATIVITY AND FASHION INDUSTRIES
ADVANCED MANUFACTURING TECHNOLOGIES
MARINE AND MARITIME TECHNOLOGIES
SYMBOLIC CAPITAL, TECHNOLOGY AND TOURISM
FOOD AND ENVIRONMENTAL SYSTEMS
MOBILITY AND ENVIRONMENTAL INDUSTRIES
NEARSHORING OF SPECILISED SERVICES
OBSERVATORY

Governance

- Multi-level RIS3: articulation between national and regional priorities
- A methodology is underdevelopment to identify, in operational terms, whether a project is aligned with the RIS3 or not.
- Stakeholders must validate it and be involved in policymaking.
- Monitoring will be crucial to evaluate progress and reconsider priorities' focus

Implementation and budget

- We take RIS3 seriously!

  Almost 1 600M Euros allocated

- CCDR-N will coordinate RIS3, using the operational programme as the main instrument;

- However, funding synergies are central to regional policymaking, as well as interregional cooperation (e.g. Vanguard Initiative)

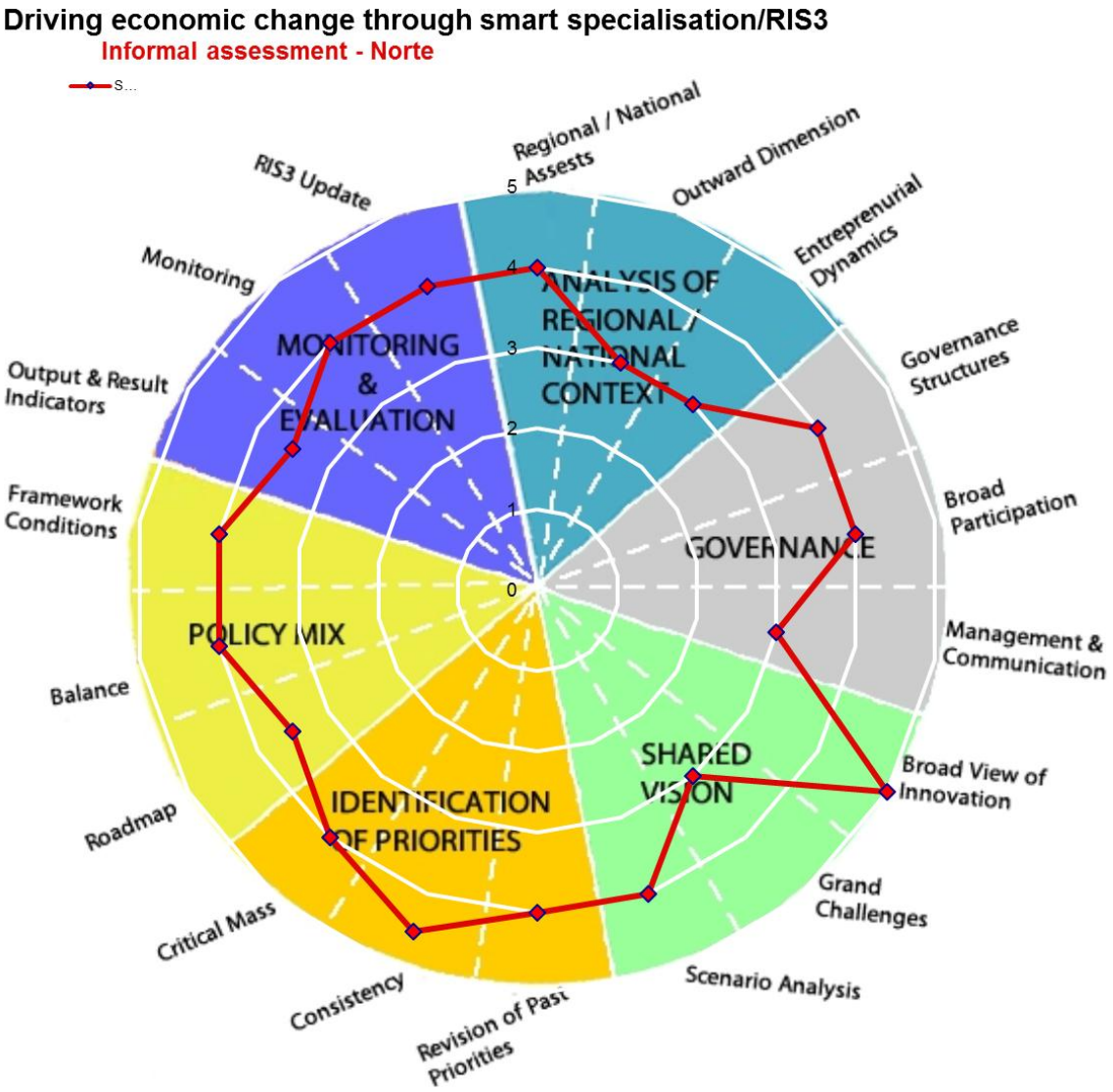
- Platforms involve stakeholders in the decisions, creating the framework for fine tuning policies and also regional responsibility.

Policy	Budget
Human Capital	86
R&D	346
Entrepreneurship	94
Innovation	499
Internationalization	217
Context	353
TOTAL	1.595

Measuring progress

- Combination of quantitative and qualitative analysis
- Indicators of OP
- Macro indicators (be careful that innovation policy is structural, not conjunctural)
- Qualitative analysis of progress, cooperation level and opportunities/threats

Self-assessment



Source: S3 Platform/EURADA

Summary and next steps

- **Challenges:**
  - **Engagement and mobilization of stakeholders for an active involvement in policy-making and implementing**
  - **Delivering adequate policies and mobilizing adequate resources towards implementation**
  - **Aproving projects effectively commited to the strategy**
  - **Dealing with moral hazard**
  - **Ongoing evaluations and adjustments to the strategy**