

CYPRUS:

Prioritisation, Entrepreneurial Discovery and Policy mix in the RIS3 process



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Which issues would you like to discuss and why?



- Main bottlenecks in RIS3 development and implementation.
 - the need for a synthesis of an ***integrated Vision and the identification of Priorities***, taking into consideration the fact that until recently the national RTDI programmes had a purely **horizontal nature** and, as such, they were allowing the utilization of resources in any research direction.
 - the **rationalised choice between “contrasting” or/and “competitive” priorities, philosophies, expectations or desires** of various groups/sections of the research and business communities.
 - **Budget Limitations**

Which issues would you like to discuss and why?



- Questions :

1. How to develop S³Cy monitoring system? Who should be in charge?
2. How to develop result indicators (in relation to the indicators of the Ops)?
3. How to attract private investments and the participation wider community to S³Cy implementation phase?
4. How to make sure that S³Cy Action Plan will fulfil the strategic goals if the available resources are very limited due to the economic crisis?

S³Cy - Vision and Priorities



Vision:

The emergence of Research, Technological Development and Innovation (RTDI) as:

- a tool for the **amplification and enhancement** of the efforts initiated for overcoming the current economic crisis – **SMART GROWTH**
- as an important **diachronic agent for the restructuring and post evolution** of the Cyprus economy and society according to the principles set out by the strategic framework “Europe 2020” – **SUSTAINABLE SYSTEM.**

It aims –within a medium to long term time horizon – a “smart”, “sustainable” and “inclusive” growth which will rely on knowledge and innovation, the rational use of the available resources and on high employment rates through the enhancement of economic and social development and cohesion.

S³Cy - Primary Aim



- The primary aim of S3Cy is the enhancement of the **effectiveness** of the RTDI system and its **targeted interconnection** with the production base in order to enhance the **competitiveness of the economy and quality of life** in Cyprus.
- It attempts to support the **reformation** of the **priority sectors**, their **modernization**, their **technological diversification**, the **utilization of new forms of innovation** and the **penetration into new markets**.

S³Cy - Primary Objectives



- Promotion of **holistic, integrated, complex and multi-parameter solutions** that will enhance the competitiveness of the priority sectors.
- Development of new and support further existing **competitive infrastructures** and **centres of excellence**
- **Intensification of the participation of small and medium enterprises** in RTDI-related activities and increase of the **contribution of the private sector** in RTDI investments.
- Expansion of the ability of the RTDI system to produce results of **high standards** and utilize them for the benefit of the **competitiveness of the economy** and **social advancement/progress**.

S³Cy - Primary Objectives



- Development of a **critical mass of researchers** and **job opportunities** contributing in this way towards the employment of **new scientists**.
- Development of **substantial/valid links and synergies** between the elements of the **quadruple helix**, that is the research centers, the institutions of higher education, enterprises , policy makers and other stakeholders from the wider society
- Enhancement of **extroversion of the Cyprus RTDI** system in a way that will contribute in an active and efficient way towards the integration of the European Research Area, through the strengthening of the participation in European programmes and initiatives and also through the connection with the international chain of development and utilization of RTDI results.

Main successes achieved so far in RIS3 development and implementation



Bail-in / collapse of the financial sector

•Governance:

- formation of a National RIS3 Governing Board
- Active inclusion and engagement of all stakeholders (quadruple helix) in the process of developing the S3Cy.

•Process:

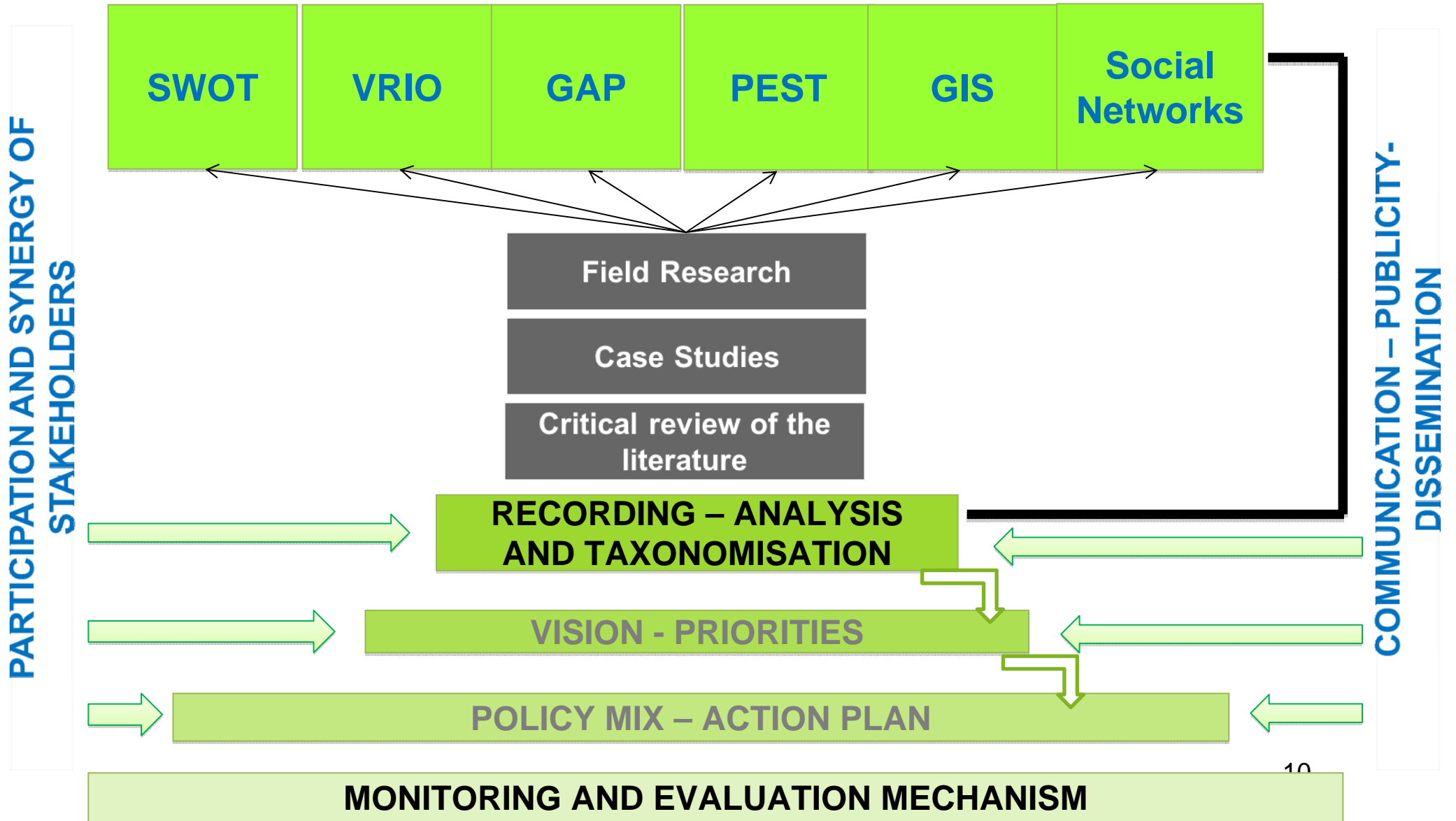
- Endorsement of a multi-method approach
- Raising awareness about S3Cy among key actors
- **Entrepreneurial discovery**
- Active dissemination and promotional activities
- Thematic workshops (focus groups) for in depth and thorough discussion and identification of the sectoral priorities and the funding instruments
- Renewed debates among policy makers and stakeholders

Main bottlenecks in RIS3 development and implementation



- The novel framework of SS presents **theoretical** as well as **methodological shortcomings** with regards to the optimal process of entrepreneurial discovery.
- **Reactions/objections** from stakeholders from non selected sectors
- Reduced to non existent interest/willingness for **private R&I investment and funding**
- **Methodological gap** as to how the implementation of the Smart Specialisation strategy can be **measured**.

RIS3 approach (design)



RIS3 approach (implementation)



I . Desk Research

- Critical Review of the Literature
- Case studies
- National and International reports on the economy and RTDI systems
- Evaluation of RTDI programmes
- Evaluation of participation in international programmes
- Statistical data for Cyprus and EU
- Sectoral Analyses

II . Field Research

- Quantitative data:
Questionnaires to enterprises
- Qualitative data:
interviews with opinion leaders and focus groups

III . Public consultation

- Government bodies, universities, enterprises, wider public
- Governing Board
- Open Workshop
- Special Thematic workshops
- Publicity

Priority Sectors



Tourism: sustainable tourism, alternative forms of tourism, digital tourism applications, management and promotion of tourism product

Energy: renewable forms of energy, solar energy, Solar-thermal technology Solar Photovoltaic, Technologies for Solar Heating and Cooling, energy storage and transfer.

Agriculture –Food Industry: Agricultural and livestock production, Agriculture, Food Security and Climate Change.

Construction Industry: Sustainable Urban Development, Sustainable Construction, Existing Building Stock, Innovative and Intelligent Materials and Reuse of Building Materials, Cultural Heritage.

Transportation: Marine, Shipping, Intelligent Transport Systems, road freight.

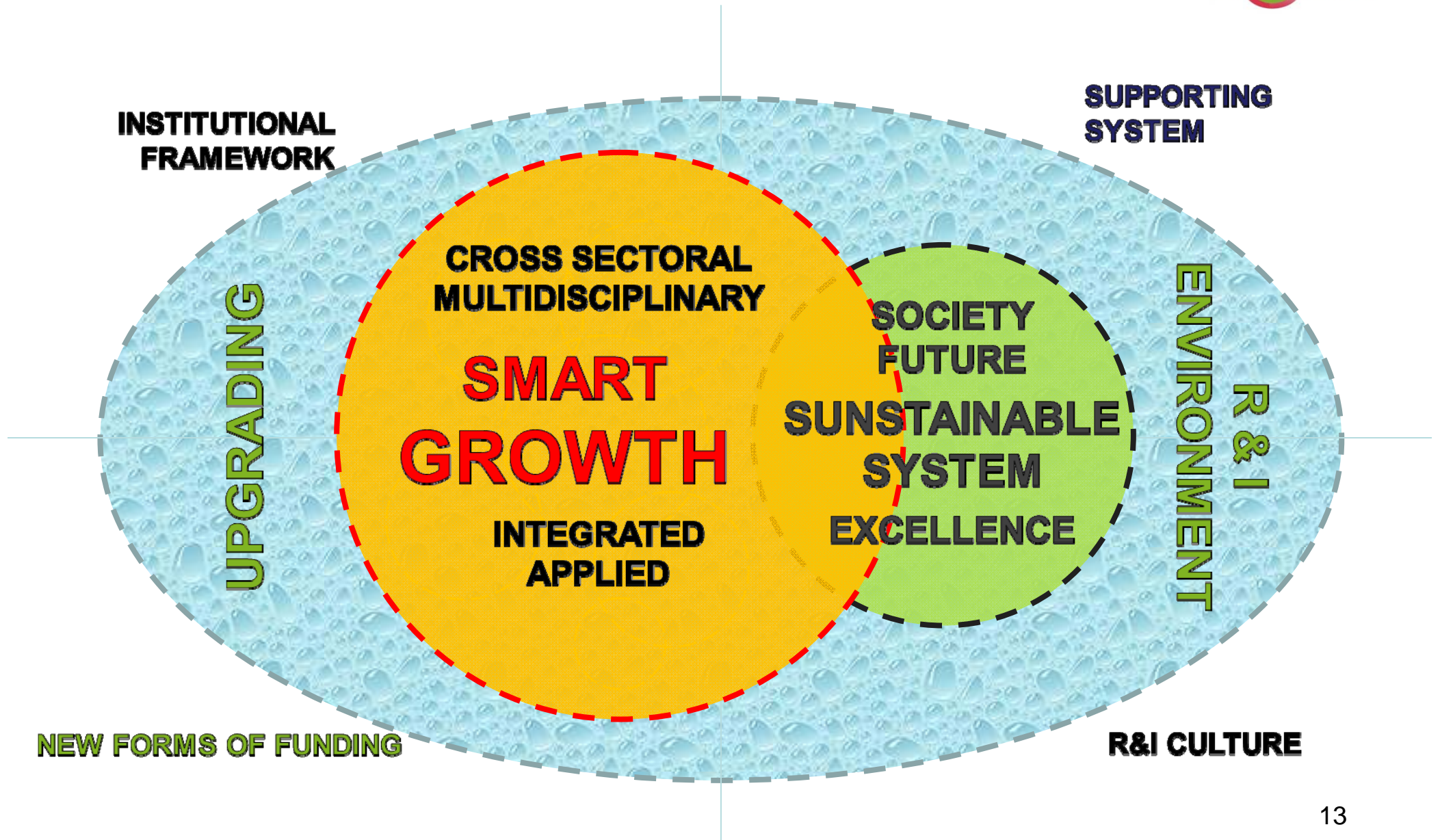
Health: e-health, prognosis - prevention and treatment of diseases, health pharmaceutical industry.

Environment and the ICT were defined as important sectors of horizontal character.

Environment: Climate Change, pollution, Eco Systems, Eco – Innovation, Water Resources

ICT: ICT Application, Future Technologies

Policy Mix



Policy Mix – Pillar 1 :Smart Growth

- **“Smart Growth”** concerns the implementation of the primary aim of S³Cy for the enhancement of the mechanisms responsible for **facing modern development challenges and prospects** in the priority sectors selected.
- Within the framework of «Smart Growth», where most of the resources will be allocated, actions will be supported which are related/concern the following:
- **Implementation of large/wide range transversal and interdisciplinary character projects** from polymorphic consortia which will aim the implementation of an integrated RTDI strategic framework in the priority areas.
- **Development, from young/promising researchers of high caliber** – researchers with international recognition in their area, of new research infrastructure and RTDI units that will provide the capability to implement research projects of top level.

Policy Mix – Pillar 1: Smart Growth

- Design, development and implementation of research projects in the areas of priority sectors, for the development of **quality of life and competitiveness of the economy of Cyprus through the participation of Cyprus in pan-European** initiatives of joint programming.
- Promotion of **extroversion, collaboration and networking** of research organisations and enterprises of Cyprus with similar entities and institutions from other countries.

Policy Mix – Pillar 2: Sustainable R&I System



- The second pillar “Sustainable R&I System” concerns the **safeguarding of the development of a diachronic and dynamic RTDI** system which will be capable contributing to the restructuring and **post-evolution of the Cyprus Economy** as well towards the enhancements of the ability to face/tackle social challenges.

Policy Mix – Pillar 2: Sustainable R&I System



Within the framework of this pillar bottom up actions will be implemented which concern the:

- **Promotion of research excellence** through funding of research and innovative research ideas in **cutting edge areas**.
- **Utilisation, enhancement and mobility of human resources** of high specialization and abilities and more specifically young and unemployed researchers and scientists.
- **Development of new products/services/production methods of high added value** that can be immediately adopted and utilized by enterprises in Cyprus.

Policy Mix – Pillar 3: Support R&I System



The third pillar “Support R&I System” relates to the **enhancement of the framework, mechanisms and operational structures of the RTDI system** in a way that will facilitate and enhance the more efficient and effective development, utilization and promotion of its outputs and results.

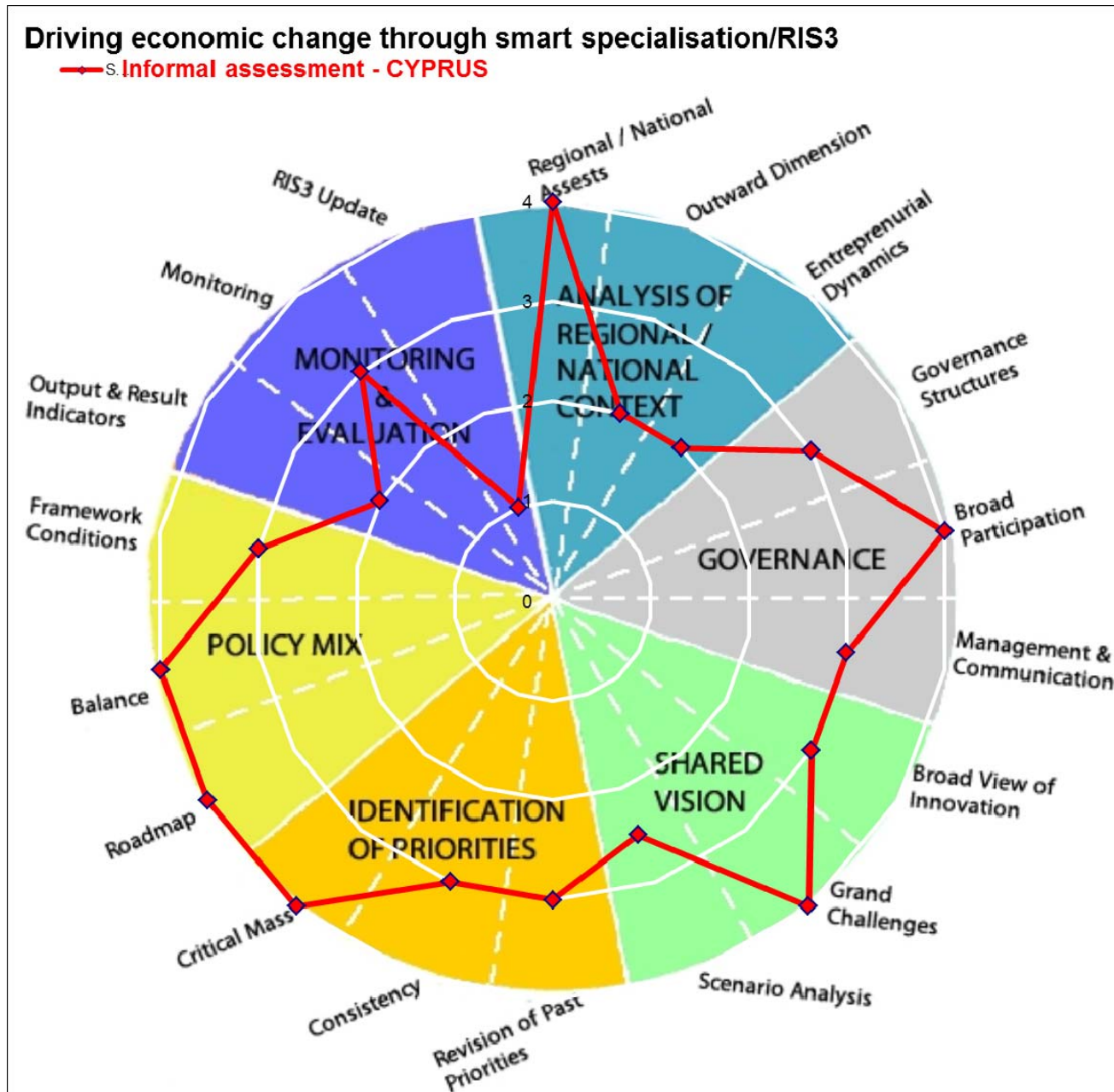
Policy Mix – Pillar 3: Support R&I System



Within the framework of this pillar actions of **complimentary character to research, development and innovation activities**, will be supported. These will concern the:

- Modernization of the institutional framework with new provisions/arrangements
- Upgrading of the mechanisms that support the RTDI system
- Enrichment of the RTDI funding mechanisms
- Development of research and innovation culture to young researchers and scientists, enterprises and the wider society.

Overall S3 self-assessment



Next steps

- **Action plan – implementation phase**
- **Connection with the Operational Programmes**
- **Monitoring and Evaluation System**



4 Questions

Questions



- **How to develop S3Cy monitoring system?
Who should be in charge?**
- *Why:* A monitoring system is required for evaluating the S3Cy implementation process
- *What has been done:* A thorough and critical review of the literature has been initiated, however there is still a theoretical and methodological gap as to how the process has to be evaluated and monitored

Questions



- **How to develop result indicators (in relation to the indicators of the OPs)?**
 - *Why:* It is important to have clear and quantifiable indicators to enable formal and objective assessment of the implementation process
 - *What has been done:* A methodology has been adopted by the Cyprus team utilising Social Network Analysis methodology. Yet, it remains to be empirically tested.

Questions



- **How to attract private investments and the participation wider community to S³Cy implementation phase?**
 - *Why: In an era of severe economic crisis, private investment is critical for fostering further innovation and growth.*
 - *What has been done: Dissemination activities and workshops have been initiated.*
 - *What worked: ????? Still a question mark!*
 - *What did not work: The process of convincing investors*

Questions



- **How to make sure that S³Cy Action Plan will fulfil the strategic goals if the available resources are very limited due to the economic crisis?**
 - *Why:* Limited budget implies wider exclusion, less interest and disappointment
 - *What has been done:* Dissemination of the rationale of the forthcoming research programme