

S4Andalucía 2021-2027: Blue approach and proposals

*Blue Innovation Forum
Cádiz, 15th September 2022*



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S4Andalucía Technical Office
Agency of Innovation and Development of Andalusia IDEA
Andalusian Regional Government



Junta de Andalucía
Consejería de Transformación Económica,
Industria, Conocimiento y Universidades
Agencia de Innovación y Desarrollo
de Andalucía IDEA

ANDALUSIA IN THE EU

- Region of Borders
- Large coastal and marine ecosystems
- Mediterranean and Atlantic sea sides
- Valuable Natural Capital
- Great wealth in its seabed

- ➡ The 2nd largest region in Europe
- ➡ The most populated region in Spain



Area: 87.600 km²
945 km of coastline

Population:
8.465.236

LESS DEVELOPED REGION
EU Cohesion Policy 21-27

Number of enterprises (2020)
518.465

Primary and secondary education level: 63.3%
Higher education level: 27.7%

ANDALUSIA R&D&I ECOSYSTEM

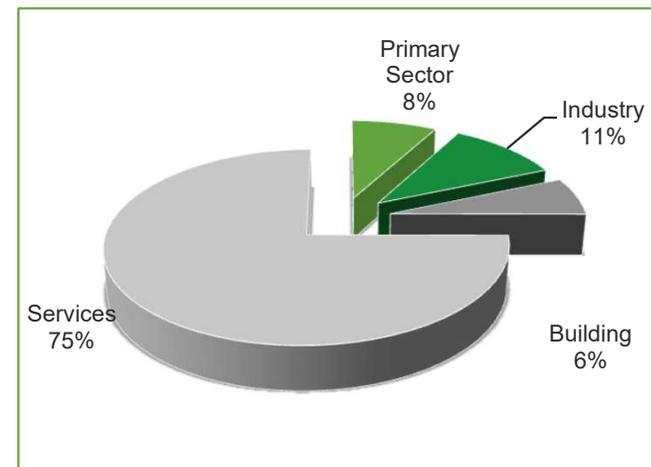


Total Expenses R&D/GDP: 1,08%
Private Sector : 36,47 %

GDP 19.991 € pc (2021)
68% pps EU 27 (2020)

15.093 Researchers
(INE: 2020)

358
Patents applied



Sources: IECA (Instituto de Estadística y Cartografía de Andalucía). Eurostat. Regional Innovation Monitor Plus [Andalusia Regional profile](#)

ANDALUSIA in BLUE: some BLUE ECONOMY relevant evidences identified in the region



- ❖ It generates **more than 300,000 jobs** (10% of the total employment)
- ❖ It contributes with 17,000 M€ to Andalusian economy
→ **10.5% of regional GDP**
- ❖ **13 Ports: more than 86.000 jobs.** 162 million tons (2018). 28.75% of the national total
- ❖ Important leading facilities regarding building and maritime equipment
- ❖ **Fishing and Aquaculture: 20.790 jobs**
- ❖ **Blue Tourism: 17.8 million tourists (57.5% of total)**
- ❖ Blue Biotechnology: great job creation possibilities
- ❖ **6.000 enterprises, specialized universities** and numerous **research groups**
- ❖ **Marine energy:** Andalusia is expected to produce in 2030 12.000 MW (21% of the national total)

RIS3: Research and Innovation Smart Specialization Strategies



Strategies for Research and Innovation-driven growth

The European Commission introduced the S3 concept in the EU **Cohesion Policy 2014-2020** as an 'ex-ante conditionality' for European regions to obtain funding for research and innovation from the European Regional Development Fund

RIS3Andalucia implementation			
197	8	3.076 Million €	11
Actions developed	Priorities	Implemented budget	Regional Strategies involved

RIS3Andalucia Monitoring Report 2014-2020: www.s4andalucia.es

Budget and actions developed, by priorities				
67%	25%	11%	17%	15%
del presupuesto total para actuaciones enfocadas en más de una prioridad	del presupuesto para TIC (P8), Energía (P7) y Agroindustria (P6)	del presupuesto para actuaciones de Energía	del total de actuaciones dirigidas a TIC	de actuaciones relativas a Salud

R&I Strategies for Smart Specialisation (RIS3)
= place-based economic transformation agendas

- 1) Focus policy support and investments on key national/regional priorities, challenges and needs for knowledge-based development (= tough choices)
- 2) Build on each country's/region's strengths, competitive advantages and potential for excellence (= critical mass, differentiation)
- 3) Support all forms of innovation
- 4) Get stakeholders fully involved and encourage experimentation and private sector investment
- 5) Evidence-based and include sound monitoring and evaluation systems

http://ec.europa.eu/regional_policy/sources/docgener/informat/2014/smart-specialisation_en.pdf

80% of the Andalusian Administration departments committed

- ➔ Andalusian Circular Bioeconomy Strategy 2030
- ➔ Andalusian Strategy for Sustainable Development 2030
- ➔ Andalusian Industrial Strategy 2020
- ➔ Andalusian Energy Strategy

RIS3Andalucia 2014-2020 PRIORITIZATION REFERENCES RELATED TO BLUE ECONOMY

Blue Economy was tackled by some **innovation priorities and trajectories**, particularly within **P3** and **P6**

RIS3Andalucia Priority 3

Sustainable use of territorial-based endogenous Resources



Comparative and competitive advantages. Andalusia is the EU region with:

- ✓ High number of protected spaces and areas
- ✓ Coastal and marine ecosystems with new substances resources and reserves for new developments in health, tourism, food and energy

P3. Lines of action

- L31. R&I on the management of natural resources and cultural heritage
- L34. Innovation for the adaptation of territories to climate change
- L35. Maintenance of the sustained flow of ecosystem services.

RIS3Andalucia Priority 6

Research and Innovation in Agroindustry and Healthy Food



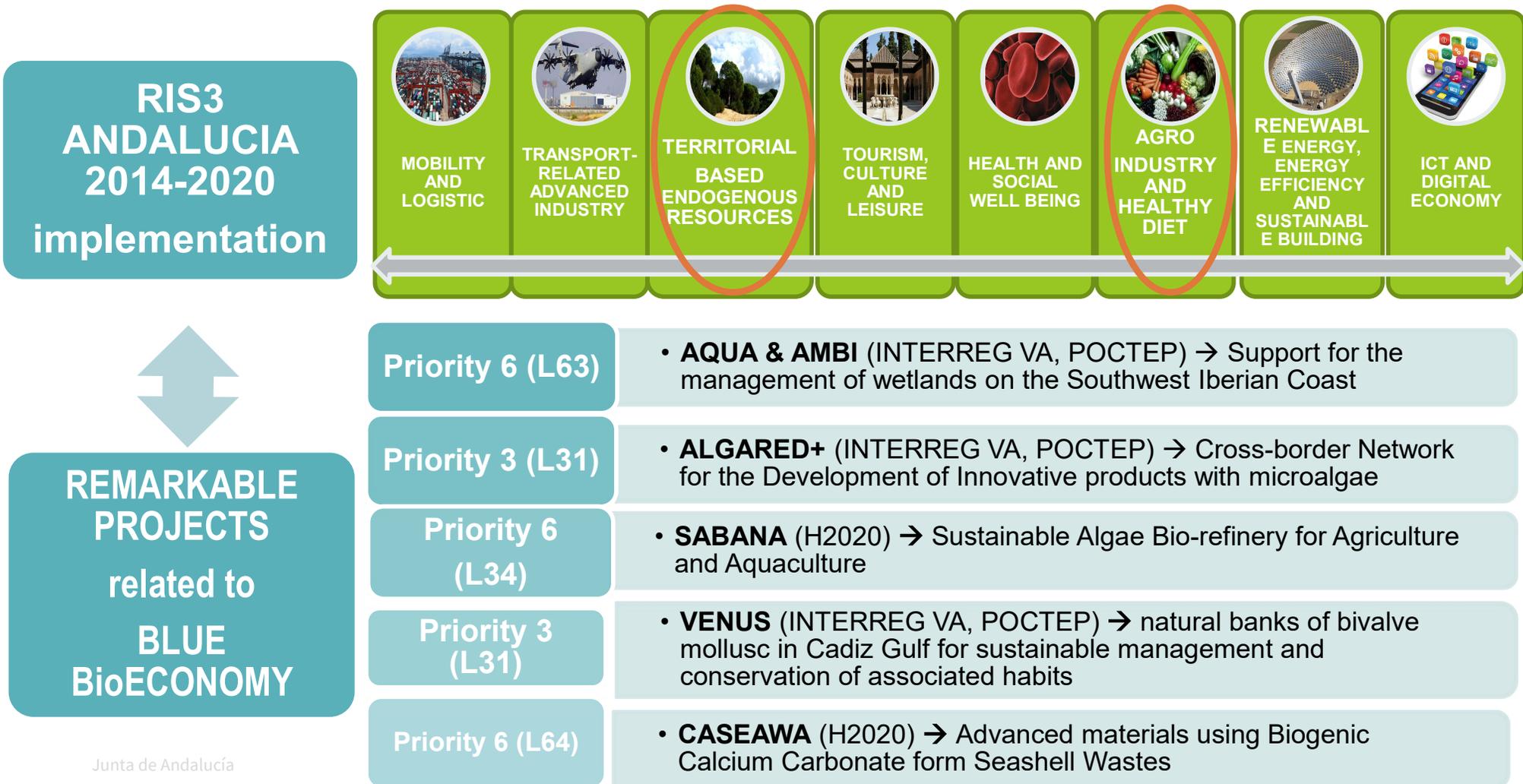
Comparative and competitive advantages. Andalusia has :

- ✓ Andalusian seas as a source of new substances and varied foods
- ✓ An agri-food transformation industry with a relevant weight in regional production and exports able to increase the added value of productions through R & D & I and ICT in its processes

P3. Lines of action

- L63. Take advantage of new opportunities in the blue economy and the green economy
- L64. Innovation in processes and products of the food industries.

RIS3Andalucia BLUE BIOECONOMY MAPPING: RELATED PRIORITIES

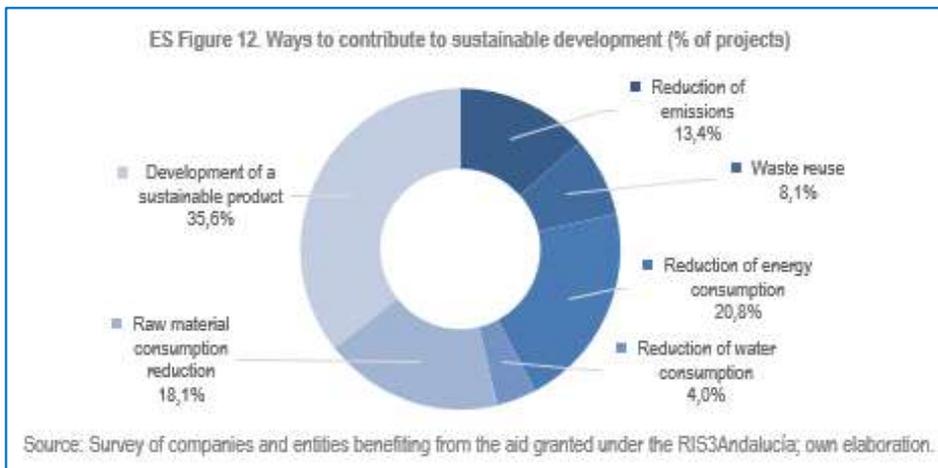


Compliance. RIS3Andalucia and SDGs Sustainable Development

RIS3Andalucia action lines and the specialisation priorities focused on the objective to **move towards a Sustainable Andalusia**, this was particularly an evidence with regards to the priorities addressing **Renewable energies, energy efficiency, sustainable building** and **Sustainable use of Territorial-based Endogenous Resources**



RIS3 INTERMEDIATE PROGRESS EVALUATION 2014-2019



The Intermediate Evaluation was carried out based on the definition of 15 **evaluation criteria, among them: equal opportunities and sustainable development, in close relationship with some specific SDGs.**

According to the results, **the contribution of RIS3Andalucia to sustainable development was high, since most of the Andalusian Regional Government departments implemented actions fostering it and many of the projects supported were oriented towards these objectives**, particularly through the development of more sustainable products, saving energy and raw materials.



2014-2020

2021-2027

MOVING FORWARD



**EU Cohesion Policy
2021-2027**

ANDALUSIA: A LESS DEVELOPED REGION



COHESION POLICY 2021-2027: A NEW GENERATION OF SMART SPECIALISATION STRATEGIES

S3 develops a new thematic enabling condition, focusing on "Good governance of national or regional smart specialisation strategy"

Objective 1. ERDF

A more **competitive** and **smarter** Europe by promoting innovative and smart **economic transformation** and **regional ICT connectivity**

The new generation of Smart Specialization Strategies offers the opportunity to embed the New European industrial policy orienting growth policy to the European Green Deal in line with the UN Sustainable Development Goals

"An intervention-logic approach for the design and implementation of S3 strategies , JRC Science for Policy Report, 2021"

Formulation Agreement

Smart Specialization Strategy for Sustainability of Andalusia

S4Andalucia 2021-2027

Approved by the Andalusian Governing Council of (BOJA n.19, 29th January 2021)



-  **Governance:** simpler, more agile and effective
-  **Reaching deeper** into **smart specialization**
-  Alive and continuous **Entrepreneurial Discovery Process**
-  **Committed Technical Team** driving the elaboration process

A new regional strategy contributing to SDGs established by Agenda 2030 through the promotion of regional innovation and its productive ecosystem.

Common commitment to engage the quadruple helix in achieving the SDGs for **economic, social and environmental sustainability**

S4Andalucia particularly addresses **SDGs 5, 6, 7, 8, 9, 13, 14, 15**



JULY 2021

DECEMBER 2021

FEBRUARY 2022

FIRST VERSION: APRIL 2022

Two Open public consultations

On the “*Diagnosis of the Andalusian Innovation System, SWOT and Challenges for innovation and digitization*”, “*Specialisation and Programming Scheme*” preliminary versions

Invitation to general public and stakeholders interested to contribute with their opinion through a form on the web: www.s4andalucia.es



EDP: Entrepreneurial Discovery Process

quadruple helix participation

S4-EDP Technical Team
Public Administrations involved

S4Andalucía Group of Experts:
200 individuals representing Academia, companies, civil associations and organisations

S4Andalucía Community: reaching citizens and civil society

Economic and social agents



Webinars: S4Andalucía Open Presentations

- 15th July 2021: 460 people registered; 369 attendees
- 16th February 2022: 402 people registered; 356 attendees



The **Governance of S4Andalucía** will continue opened to the participation of the **Blue Economy Andalusian stakeholders** through its **EDP** structured participatory process

→ a **DRIVER** for the **Andalusian Sustainable Blue Growth** and its actors

Smart Specialisation Strategies can act as a **leverage for drive change for enterprises, researchers and stakeholders involved** with the Andalusian Sustainable Blue Growth, **encouraging their connectivity and alliances.**

Andalusia is a region **with strategic sectors closely linked to Blue Economy that are concerned by S4Andalucia;** shipbuilding and 'offshore', ports, logistics and transport, tourism linked to the sea, marine bioproducts, marine renewable energies and fisheries, aquaculture and transforming industry.

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TECHNOLOGICAL INFRASTRUCTURES

- AGAPA. IFAPA
- CTAQUA
- Spanish Oceanographic Institute (IEO)
- Marine Hydrographical Institute

KNOWLEDGE AGENTS

- UNIVERSITIES
CACYTMAR
ICMAN
- CEI-MAR
- MARITIME
NAVAL
CLUSTER
- TECNOBA
HÍA
- MARITIME-
MARINE
CLUSTER
- LIFEWATCH

Andalusia is a region participating at the **Marine Renewable Energy (MRE) S3 Thematic Partnership**

S4 ANDALUCIA 2021-2027 *(Preliminary Version. April 2022)*

PRESENTATION

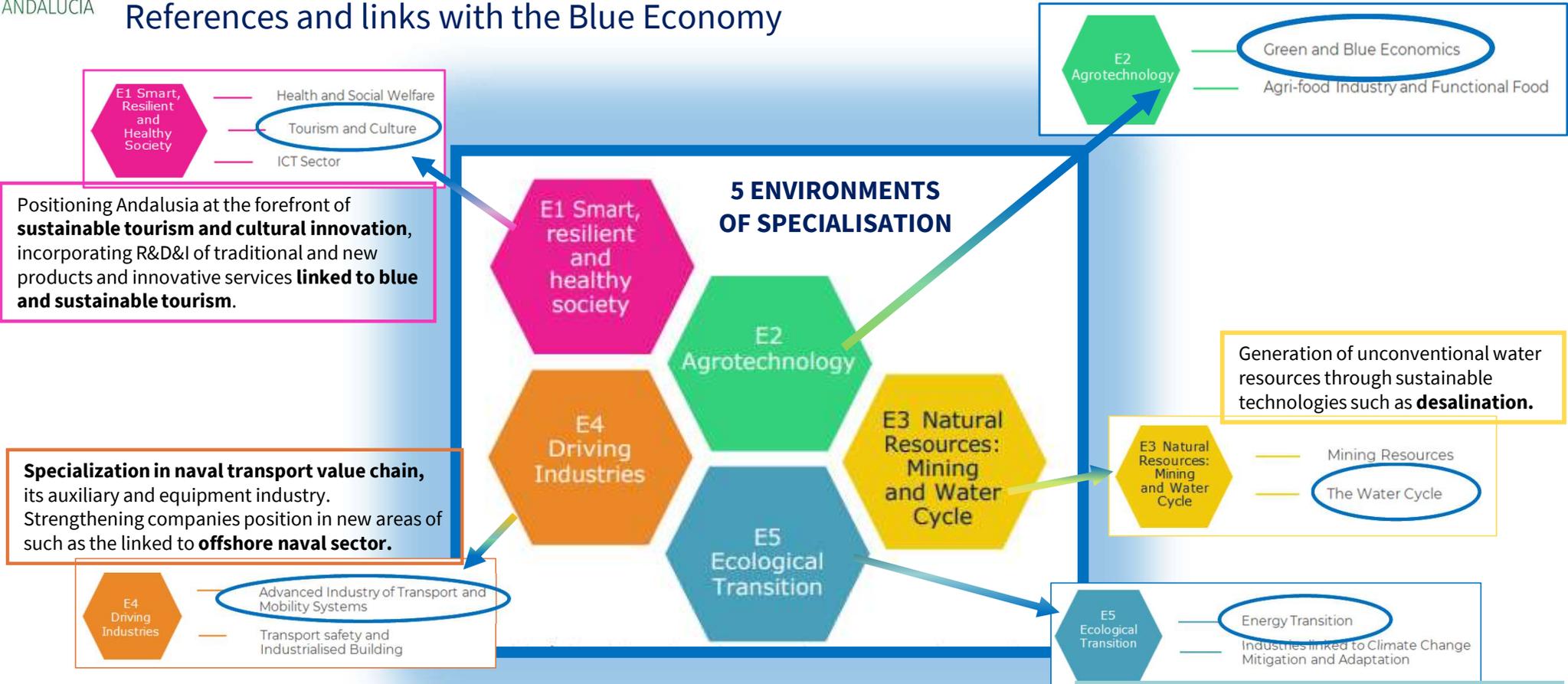
- A. INTRODUCTION: CONTEXT. REFERENCE FRAMEWORK
- B. SOCIO ECONOMIC DIAGNOSYS OF THE ANDALUSIAN INNOVATION SYSTEM
- C. INTERVENTION LOGIC FRAMEWORK** →
- D. SYNERGIES WITH OTHER INNOVATION ELEMENTS
- E. GOVERNANCE. ENTREPRENEURIAL DISCOVERY PROCESS (EDP)
- F. MONITORING AND EVALUATION SYSTEM
- G. DESIGN AND FORMULATION PROCESS
- H. ANNEXES
 - H.1. Socioeconomic Diagnosis of the Andalusian Innovation System
 - H.2. Catalogues: Opportunity Areas and battery of Demonstrative Projects
 - H.3. Monitoring and Evaluation System

- C.1. Specialization Structure: prioritized environments**
- C.2. Objectives
- C.3. Programming Structure: Thematic Lines
- C.4. Traceability between strategic objectives and the Programming structure
- C.5. Intervention instruments
- C.6. Budget framework

All documents available at: www.s4andalucia.es



Environments for Specialisation prioritised by S4Andalucia: References and links with the Blue Economy



Positioning Andalusia at the forefront of **sustainable tourism and cultural innovation**, incorporating R&D&I of traditional and new products and innovative services **linked to blue and sustainable tourism**.

Specialization in naval transport value chain, its auxiliary and equipment industry. Strengthening companies position in new areas of such as the linked to **offshore naval sector**.

Generation of unconventional water resources through sustainable technologies such as **desalination**.

Generation, storage and distribution of unique **renewable energies**, including the **most innovative: marine**, contributing to EU Green Deal objectives.

Institutional engagement with Blue Growth:
identified as a **strategic vector for the regional economy transformation**

S4Andalucia considers BLUE ECONOMY as a specific Sub-ENVIRONMENT for SPECIALISATION

With regards to the Blue Economy, this **Sub-Environment** for Specialisation **prioritizes the activities:**



- based on the **use of marine resources, especially in fisheries and aquaculture**, attending to increase the awareness of producers and consumers about the importance of these productions as ecosystem services, as well as new foods such as protein sources and activities to develop the business fabric linked to the food bioeconomy.
- focused on the **incorporation of the R&I developed on bioeconomy in the fishing systems**, circular and carbon neutral economy
- promoting the development of the **business fabric linked to the bio sectors** and supporting the **development of new products and services related with blue, circular economy and life sciences (biochemistry, biotechnology, bio health)** through public-private collaboration
- **fostering relationships between the different agents and clusters of the ecosystem** in biochemistry, biotechnology and health to achieve a greater impact regarding the transfer of research results
- creating and improving **spaces of excellence in life sciences and biotechnology** for these sectors and managers, as well as **training** activities for all agents
- generating a **brand image** with a national and international impact, for the **consolidation and attraction of talent and companies** to strengthen this regional innovation ecosystem.

Thank you for your attention!

www.s4andalucia.es
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[#somosS4Andalucia](https://twitter.com/somosS4Andalucia)

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