How can AI, digitalisation, and greening ensure smart and sustainable growth for EU regions and cities?

The experience with Smart Specialization Strategies in Andalusia: S4Andalucia 2021-2027

Naples, 26 november 2024











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S4 ANDALUCIA

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The Andalusian experience addressing Sustainability, Digitalisation and Regional Challenges through the design of smart specialisation strategies: from RIS3Andalucia 2014-2024 to S4Andalucia 2021-2027 03

How the Andalusian
Structure of Specialization
and its operational
Programming facilitate the
ways to a sustainable
regional growth

04

Advancing on Sustainability and Digitalization implementation. The S4Andalusian stakeholders and regional Innovation ecosystem, protagonists of the change in the territory. Alliances and Interregional Collaboration in practice

Junta de Andalucía





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01

The Andalusia Region and the role of Andalusian Agency for Economic Transformation and Development: Andalucía TRADE





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ANDALUSIA IN THE EU: a "region-country"

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

- ✓ Region of Borders
- ✓ Large coastal and marine ecosystems: 945 km of coastline
- ✓ Mediterranean and Atlantic sea sides
- ✓ Valuable Natural Capital
- ✓ Great wealth in its seabed



ANDALUSIA: A LESS DEVELOPED REGION

Country/region	Km ²	
Hungary	93.011	
Portugal	92.226	
Andalusia	87.597	
Andalusia Austria	87.597 83.879	



RIS 2023: Moderate innovator -

Country/region	Inhabitants 10.374.822	
Portugal		
Sweden	9.747.355	
Austria	8.576.261	
Andalusia	8.600.224	
Bulgaria	7.202.198	





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About us

Andalucía TRADE brings together all enterprise support activity in Andalusia



Objectives

- ✓ Foster economic growth
- Promote investments and internationalisation
- ✓ Committed to innovation and R&D.
- √ Focus on knowledge transfer
- → Flagship project of the Andalusian Government
- → Firm and ambitious commitment to enterprise
- → Effective and efficient one-stop shop
- → Spain: 11 offices
- → International: 42 offices (services in 70 markets)

One-stop shop









360° service



SMEs



Major companies



Sole traders



Start-ups



Projects of Strategic
Interest



Investors



Investment funds

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5





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What we offer

Business Development

- Knowledge transfer
- Business intelligence
- Strategic sectors
- Production spaces and clusters
- Advanced services
- Public-private partnership

Enterprise finance

- Direct grants
- Financial instruments
- Public innovation procurement

Internationalisation

- Enterprise internationalisation
- Market development
- Attraction of investments
- Consultancy

What public resources do we provide?

Direct grants

- Industrial development
- Enterprise R&D + innovation
- Internationalisation

Financial instruments

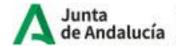
- Loans
- Guarantees
- Sureties
- Equity investment
- Reimbursable hybrids

Public Innovation Procurement

€900M+ AVAILABLE TO REGIONAL BUSINESSES







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Internationalisation

GOALS

- Implement a market and product expansion strategy
- Increase the number of exporters
- Permanent export activity
- Biggest companies and financial muscle

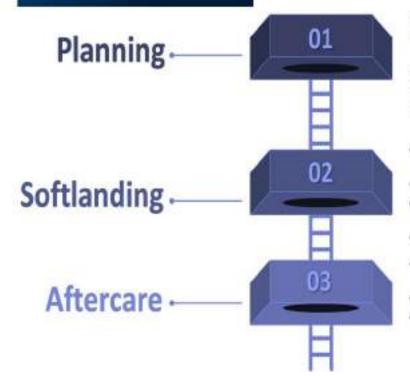
SERVICES

- Group promotion
- Individual promotion
- International trade fairs
- Direct trade missions
- Reverse trade missions
- Business intelligence tools
- Specialized training

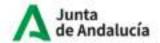


Investments services

- Information on sectorial regulation, industry situation and market
- · Search for the best location
- Scheduling personalised visits to locations and meetings with institutions and potential partners.
- · Information on business opportunities
- · Information about grants and financing sources
- Information on available workforce and operational costs
- Information on available workforce, employment and operational costs and procedures for work and residence permits
- · Assistance through national and regional institutions
- Information and follow-up on permits and administrative procedures required to commence professional activities
- Information about potential local providers
- Personalised service of project monitoring established in Andalusia
- · Tailored proposals for perent companies
- · Support on potential expansion plans







Leading the Task Forces facilitating the Technical Secretariat that gives support to several regional planning and Strategies

KEY REGIONAL ACTOR



RIS3 Andalusia, Andalusian Innovation Strategy 2014-2020



Andalusian Industrial Strategy 2020



Actively participating in the design of the Andalusian ERDF OP (2021-2027) led by the European Funds DG of Andalusian Government



Andalusian Aerospatiale Strategy 2021-2027



S4Andalusia, Smart Specialization Strategy for Sustainability 2021-2027





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02

The Andalusian experience addressing Sustainability, Digitalisation and Regional Challenges through the design of smart specialisation strategies: from RIS3Andalucia 2014-2024 to S4Andalucia 2021-2027



RIS3Andalucia 2014-2020

Research and Innovation Smart Specialization Strategy of Andalusia

8 SPECIALIZATION PRIORITIES 8 TRANSVERSAL DIMENSIONS



PROMOTION AND DEVELOPMENT OF MOBILITY AND LOGISTICS



ADVANCED INDUSTRY LINKED TO TRANSPORT



SUSTAINABLE USE OF TERRITORIAL-BASED ENDOGENOUS RESOURCES



ANDALUSIA, A TOURIST, CULTURAL AND LEISURE DESTINATION



PROMOTION OF HEALTH AND SOCIAL WELFARE SYSTEMS



RESEARCH AND INNOVATION IN AGRO-INDUSTRY AND HEALTHY FOOD



RENEWABLE
ENERGIES,
ENERGY
EFFICIENCY AND
SUSTAINABLE
BUILDING



PROMOTION OF ICT AND DIGITAL ECONOMY

Dimensions





SOCIAL INNOVATION



KEY ENABLING TECHNOLOGIES



SMES GENERATING EMPLOYMENT



EXTERNAL ACTION



EDUCATION, TALENT AND CREATIVE ENVIRONMENTS





INFRASTRUCTURES FOR COMPETITIVENESS AND EXCELLENCE

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.0

RIS3Andalucia BIG NUMBERS MONITORING REPORT 2014-2022

RIS3Andalucia implementation 198 8 3.000 Million € 11 Actions developed Priorities 98% of the total budget Regional Strategies involved



Budget and actions developed, by priorities				
67%	25%	11%	17%	15%
of the total budget for actions focused on more than one priority	of the budget for ICT (PB), Energy (P7) and Agribusiness (P6)	of the budget for Energy (P7) actions	of all the actions focused on ICT	of all the actions related to Health



Compliance.RIS3Andalucia and SDGs

Sustainable Development

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

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Smart Specialisation
Strategy for Sustainability
of Andalusia, S4Andalucia
2021-2027

Approved by the
Agreement of the
Andalusian Council of
Government on 18th
July 2023

BOJA

Boletín Oficial de la Junta de Andalucia

Múmero (36 - Viorent, 25 de julio de 38

redelices with the little

1. Disposiciones generales

CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INVOVACIÓN

Accento de 19 as juio de 2022, del Consejo de Gobieros, por el que se apriveta la Estategia de Especialización inteligente para la Socientificidad de Andescia 2021-2027, SAANDALOCIA.

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Establishes **priorities at a regional scale**, based on the competitive advantages of the region



Develops strengths in research and innovation and their correspondence with business needs and necessary capabilities



Participatory governance





Sustainability, European Green Deal and SDGs



Industrial Transition joins the twin digital and green transition



Entrepreneurial
Discovery Process
(EDP): continuous,
effective and efficient

02What is S4Andalucia?

• The Smart Specialization Strategy for the Sustainability of Andalusia, S4Andalucia 2021-2027, is the Andalusian regional instrument for planning, execution, development and evaluation of public actions in the field of research, innovation and industrial transition, digitalization, training, entrepreneurship and cooperation for specialization with a transversal perspective of sustainability and the fight against Climate Change in the European Cohesion Framework 2021-2027.





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Increasing spending on R&D&i in the regional economy and the productive specialization



Higher levels of transfer and application of knowledge and technologies



Facing the industrial and digital transition successfully



Rising
circularity
and
sustainability
of
Andalusian
productive
activity



Increasing publicprivate collaboration and territorial cooperation (interregional and international), with business and key innovation agents



Training the regional innovation system agents for the successful implementation of S4Andalucia



Fighting gender gaps in R&D&I taking advantage of it to eliminate some other social gaps



Promoting the effective changes from the public sector, based on the "good governance"

THE S4ANDALUCIA CHALLENGES

- Towards a more specialized, intelligent, sustainable, responsible, green and competitive economy
- Overcoming barriers to the diffusion of innovation and digitalization
- Contributing to reduce gender gaps in R&D&I

STRATEGIC OBJECTIVES



Increase research and innovation



Raise the levels of transfer and application/generation of knowledge and technologies



Expand integration in the digital economy

Aiming to:

- Give the adequate response to the identified challenges
- Advance into R&D&I, the industrial transition and the digital transformation
- Gain a great specialization
- Towards the Good Governance



Accelerate and expand the Industrial Transition



Increase sustainability
and circularity of
production, distribution
and consumption through
innovation



Increase capacity building and innovative entrepreneurship



Increase collaboration and cooperation for innovation



Reduction of gender gaps and other social gaps in innovation





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03

How the Andalusian Structure of Specialization and its operational Programming facilitate the ways to a sustainable regional growth



5 ENVIRONMENTS
OF SPECIALIZATION
classified into 11
SUBENVIRONMENTS



Crossed by 7 AXES OF TRANSVERSAL SUPPORT



7 THEMATIC LINES framing the S4ANDALUCIA implementation



POLICY INSTRUMENTS for the implementation of Thematic Lines



ENVIRONMENTS OF SPECIALISATION

Areas identifying the future opportunities in the region:

sectoral value chains for which Andalusia has a differential development potential due to its availability of material resources (raw materials, infrastructure, equipment...), human resources (entrepreneurs, researchers, qualified labor,...) and business fabric



E1. Intelligent, resilient and healthy society

E1.S1. Health and social well-being

E1.S2. Tourism and culture

E1.S3. ICT sector



E2. Agrotechnology

E2.S1. Green and blue economy

E2.S2. Agri-Food Industry – Functional Food



E3. Natural Resources: Mining and Water Cycle

E3.S1. Mining resources

E3.S2. The water cycle



E4. Driving Industries

E4.S1. Advanced transport and mobility systems industry

E4.S2. Industrialized Building



E5. Ecological Transition

E5.S1. Energy Transition

E5.S2. Industries linked to mitigation and adaptation to climate change

AXIS OF TRANSVERSAL SUPPORT



Drivers towards a more innovative and equal society



Generation and Transfer of knowledge



Digital Transformation



Industrial Transition



Sustainability and circularity



Training and entrepreneurship



Public-private collaboration



Gender equality and reduction of inequalities



In response to the multisectoral challenges that the Regional Innovation System must overcome



Informing the Strategy from a horizontal approach



They serve to guide and set trends for innovative actions to be incorporated into the Strategy

The PROGRAMMING STRUCTURE: THEMATIC LINES



They are the framework where the actions of S4Andalucia take place





LT.1. R&D&i



L.T.2. Transfer and generation of knowledge



LT.3. Digital transformation



L.T.4. Industrial Transition



LT.5. Training and Entrepreneurship



L.T.6. Sustainability



LT.7. Collaboration and Cooperation



Aiming to give an answer to each one of the Strategic Objectives, from the perspective of an integrated approach of gender and equity

POLICY INSTRUMENTS

Type of instruments



Financial instruments



Fiscal instruments



Advanced services



Training and Education



Equipment for innovation and entrepreneurs hip



Innovative Public Procurement



Procedures



Regulatory development





Consejería de Presidencia, Consejería Interior, Diálogo Social y Hacienda Simplificación Administrativa Europeos

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04

Advancing on Sustainability and Digitalisation implementation. The S4Andalusian stakeholders and regional Innovation ecosystem, protagonists of the change in the territory. Alliances and Interregional Collaboration in practice





PROJECTS AND ACTIVITIES ADDRESSING the SUSTAINABLE DEVELOPEMENT GOALS



Focusing the TRIPLE DIMENSION OF SUSTAINABILITY social, economic and environmental

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**



1 100

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POWER4BIO. Empower regional actors to harness the full potential of the European bioeconomy

The POWER4BIO project aims to increase the capacity of regional and local policy makers



INFACT: Innovative, Non-invasive and Fully Acceptable Scanning Technologies

Innovation and research action aimed at the use of non-invasive mining exploration technologies, transported by drones.







INDUPYMES 4.0: Digital Factory for Industrial SMEs

Its objective is to improve the participation of the business fabric in innovation processes and in R + D + i activities closest to the market.



RELIEF: Recover vital well-being through pain self-management techniques with ICT

RELIEF will promote and accelerate market access for innovative solutions, in compliance with public procurement directives.



REINWASTE - REmanufacture the food supply chain by testing INNovative solutions for zero inorganic WASTE

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STRATEGIES





S4 ANDALUCÍA

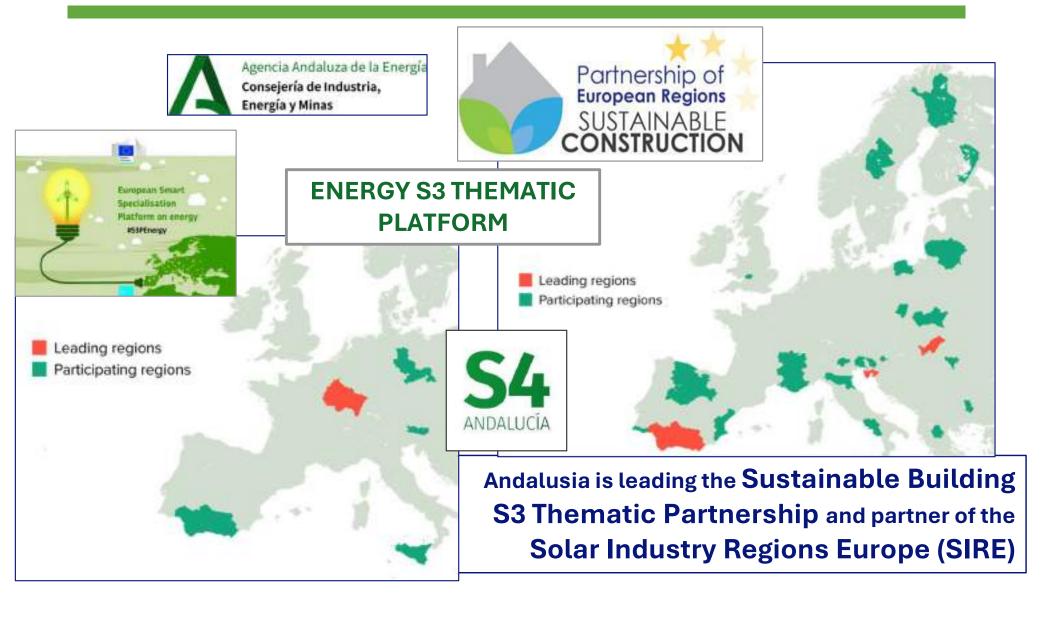
HIBA+

HIBA+ is a project aimed at consolidating the achievements and experiences of the network created in Hub Iberia Agrotech, a multi-regional ecosystem aimed at the digitalisation of the agri-food sector through DIHs.

INTERNATIONAL NETWORKS AND PROJECTS









ANDALUCÍA

Andalusia is leading the Advanced Materials for Batteries for Electromobility and Stationary Energy Storage S3 Thematic Partnership

Consejería de Industria,

Energía y Minas

Junta de Andalucía

Participating regions

Andalusian leadership of the **Digitalisation and Safety for Tourism S3 Thematic Partnership**







test, pave the way and maintain a selfsustainable European Competence Centre to support tourism destinations and their ecosystem (with special focus on SMEs) in their data-driven green and digital transition, as well as to increase collaboration and knowledge transfer between tourism stakeholders and tourism destinations.



European Regions for Competitive and Sustainable Tourism





OD4GROWTH



The Interreg OD4GROWTH project focused on Open Data for Growth includes S4Andalucia on its map of regional





O brismey fluridge | Approved to ments | OD45ROWTH

OD4GROWTH

Strengthening the availability and processing of Open Data to support local growth and urban transformation











stakeholders

Thank you for your attention!

The experience with Smart Specialization Strategies in Andalusia: S4Andalucia 2021-2027

Naples, 26th November 2024

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