

S4Andalusia, Smart Specialization Strategy for Sustainability: prioritisation and new horizons for 2021-2027

Launching Event: EIT Raw Materials RIS HUB Regional Center Southern Spain

Casa de la Ciencia. Seville, 5th October 2021

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Junta de Andalucía



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

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**SMART SPECIALISATION STRATEGIES IN THE EU
COHESION POLICY
WHY AND WHAT FOR?**

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



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/regionalspec>

COHESION POLICY

5 POLICY OBJECTIVES supporting growth for the period 2021-2027

1. A more **competitive** and **smarter** Europe: smart and innovative economic transformation

373.000 M€

2. A **greener**, low-carbon transitioning towards a net zero carbon economy

4. A more **social** and inclusive Europe

3. A more **connected** Europe by enhancing mobility

5. Europe closer to **citizens** by fostering the sustainable and integrated development of all types of territories

ANDALUSIA: A LESS DEVELOPED REGION



“Cohesion combines the strategy, the financial muscle and the method for Europe to recover in a fair and territorially balanced way and steering regional economies towards future-proof growth based on the dual digital and ecological transition. Cohesion policy remains the heart of European solidarity”

Elisa Ferrerira.

European Commissioner for Cohesion and Reforms

OBJECTIVE 1 ERDF



1. a more **competitive** and **smarter** Europe by promoting innovative and smart **economic transformation** and **regional ICT connectivity** by:

(i) developing and enhancing research and innovation capacities and the uptake of advanced technologies

(ii) reaping the benefits of digitisation for citizens, companies, research organisations and public authorities

(iii) enhancing sustainable growth and competitiveness of SMEs and job creation in SMEs, including by productive investments

(iv) developing skills for smart specialisation, industrial transition and entrepreneurship

(v) enhancing digital connectivity

7 CRITERIA REQUIRED for **S4** in order to FULFIL THE ENABLING CONDITION

ANDALUCÍA



THE UPDATED ANALYSIS OF CHALLENGES FOR THE DISSEMINATION OF INNOVATION, INCLUDING DIGITALIZATION

THE EXISTENCE OF A COMPETENT NATIONAL OR REGIONAL INSTITUTION OR ORGANISM, IN CHARGE OF THE INTELLIGENT SPECIALIZATION STRATEGY

MONITORING AND EVALUATION INSTRUMENTS TO MEASURE RESULTS WITH REGARD TO THE OBJECTIVES OF THE STRATEGY

EFFECTIVE OPERATION OF THE BUSINESS OPPORTUNITY DISCOVERY PROCESS

ACTIONS NEEDED TO IMPROVE REGIONAL OR NATIONAL RESEARCH AND INNOVATION SYSTEMS

MEASURES TO STRENGTHEN COOPERATION WITH PARTNERS FROM OUTSIDE A DETERMINED MEMBER STATE IN PRIORITY AREAS SUPPORTED BY THE INTELLIGENT SPECIALIZATION STRATEGY

ACTIONS TO MANAGE THE INDUSTRIAL TRANSITION

BACKGROUND

RIS3ANDALUCIA 2014-2021

**SOME RESULTS FROM 2014-2020 PRIORITISATION
RELATED TO EIT RAW MATERIAL HUB CONCERNS**

RIS3Andalucia 2014-2020

PRIORITIES

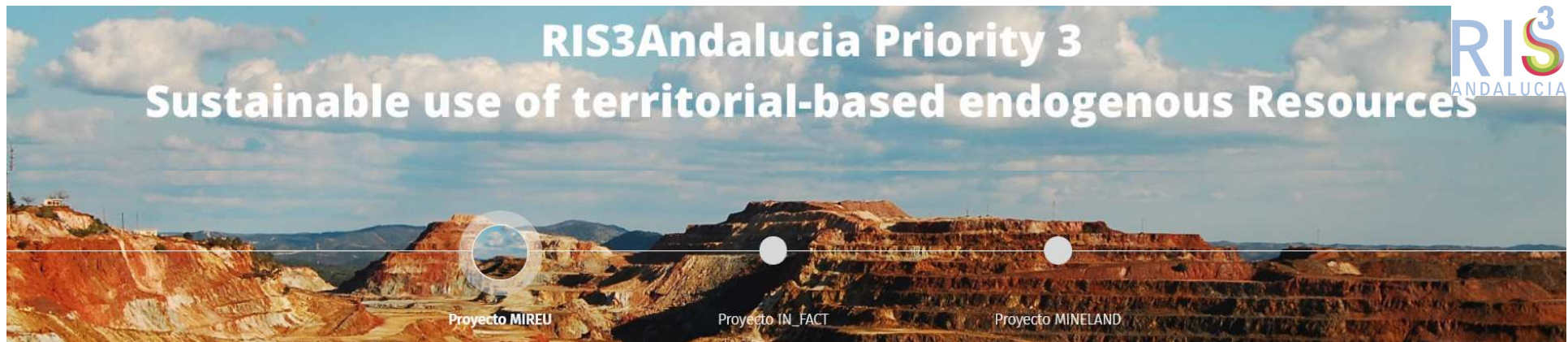


Dimensions



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
- ✓ World reference projects, such as LifeWatch
- ✓ High mining potential and geodiversity, wide variety of mineral raw material deposits and a resurgent metal mining sector
- ✓ Heritage uniqueness

P3. Lines of action

1. R&I on the management of natural resources and cultural heritage
2. New processes and products for the use of agricultural resources
3. Mining integrated in the territory
4. Innovation for the adaptation of territories to climate change
5. Maintenance of the sustained flow of ecosystem services.

Enhancing some results: RIS3Andalucía Priority 3 implementation (2014-2019)

- 96 R&D projects (13%) approved (call for proposals for Andalusian knowledge agents)
- 14 M€ (13%) : incentive financed from EP1 ERDF OP Andalucía 2014-2020

- 67 business R&D&I projects (13%) applied to the correspondent IDEA Agency call for proposals
- 8,8 M€ (7%): incentive financed from EP1 OP ERDF Andalucía 2014-2020

25 (8%) International Technology Transfer Agreements (CESEAND)

3 (1%) National patent applications (CITPIA-IDEA Services)

142 (2%) participation in different International Trade Missions (Extenda)

Participation in projects focusing in Mining sector: MIREU, INFACT (H2020), MINELAND

RIS3Andalucia implementation

188	8	2.686 Million €	11
Actions developed	Priorities	98% of the total budget	Regional Strategies involved

Budget and actions developed, by priorities

51%

of the total budget for actions focused on more than one priority

40%

of the budget for ICT (P8), Energy (P7) and Agroindustry (P6)

16%

of actions related to Health

13%

of the budget for Energy actions

15%

of the budget for ICT actions

- ✓ **Andalusian Mining Strategy 2020**
- ✓ **Andalusian Industrial Strategy 2020**
- ✓ **Andalusian Energy Strategy**

MONITORING REPORT RIS3ANDALUCÍA (2014-2020). Evolution of Indicators regarding Final Objectives

FINAL OBJECTIVES INDICATORS	Base Reference	2017 objective	2020 objective	2019	Progress
R&D&I expenditure with regard to GDP (%)	1,03	1,49	2,2	0,89	Negative
Private sector participation in R&D&I (%)	36,25	41,8	50	36,53	Stable
Innovation intensity in innovative companies (%)	2,44	2,6	2,9	2,31	Negative
People dedicated to Research (number)	24.647	26.619	29.576	24.870	Stable
Innovative companies (number)	4.989	6.984	9.978	4.214	Negative
Spending on innovation (thousands euros)	867.280	1.214.192	1.734.560	1.227.046	Positive
Patents applied for (number) **	468	538	702	200	Negative
GVA of medium and high technology manufactures (thousands euros) *	2.313.283,02	2.775.940	3.469.925	2.836.830	Positive
Exports of medium and high technology activities (thousands euros) **	4.269.242,60	5.293.860	6.830.788	5.326.546	Positive
Fast broadband coverage (%) **	66	79,5	100	95	Positive
Households with connections above 100 Mbps (%)	36,5	41,9	50	82,23	Positive
Andalusian companies incorporated into the digital market (%) (10 or more employees) **	19	27,8	40	18	Stable
Population regularly using Internet (%) **	67	70,2	85	92	Positive
Companies interacting with the Administration through Internet (%) (10 or more salaried) **	82	94,8	100	94	Positive
Population interacting with the Administration through Internet (%) **	30	33,8	40	50	Positive
Source: IECA, System of Indicators of RIS3 Andalusia (data regarding 2018, *, 2019, 2020,**)					

ALLIANCES AND INTERREGIONAL COLLABORATION

Andalucía is leading 4 S3 Thematic Platforms, promoted by the European Commission through the S3 Platform, based in DG JRC in Seville



PLATAFORMA S3 DE ENERGÍA

Leading: European Network of Regions for Sustainable Building



Junta de Andalucía

INDUSTRIAL MODERNISATION S3 PLATFORM

Leading:

- ✓ Digitalization and Security in the Tourism Sector
- ✓ Advanced Materials for Batteries



S3 PLATFORM Working Group

Industrial Transition in Lagging Regions



AGRO-FOOD S3 PLATFORM

Leading: Traceability and Big Data in Agro-food



Andalucía Agrotech Digital Innovation Hub

RIS³
ANDALUCÍA

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2014-2020

2021-2027

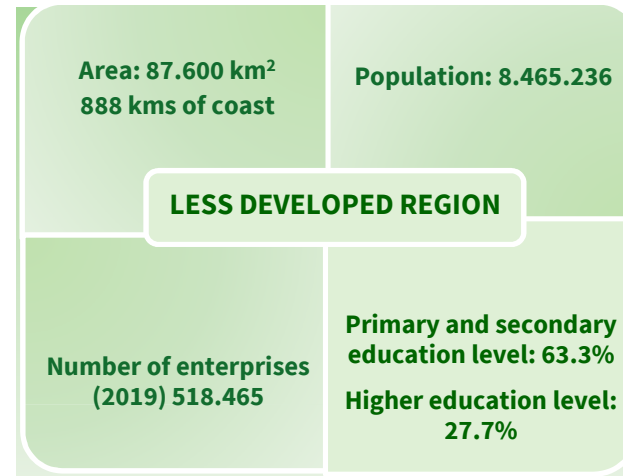
MOVING FORWARD

Andalusia in Europe and the world



- ✓ The 2nd largest region in Europe
- ✓ The most populated region in Spain
- ✓ Region of borders
- ✓ Highly urbanized
- ✓ With a large cultural and natural heritage
- ✓ Strategic location: access area to Africa and Latin America

Andalusia: main facts and figures

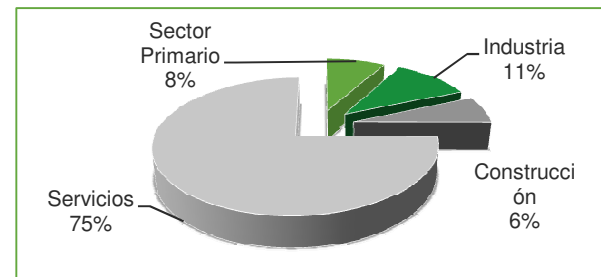


14.347
Researchers

358 Patents
applied

Total Expenses
R&D/GDP
0,9%
Private Sector :
37,3 %

GDP 19.633 € pc
68% pps EU 27 (2020)



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

S4ANDALUCIA.

Andalusian Smart Specialization Strategy for Sustainability 2021-2027



- ✓ Establishes priorities at the regional level
- ✓ Based on the competitive advantages of the region
- ✓ Develops strengths in research and innovation and their correspondence with business needs and necessary skills
- ✓ Governance
- ✓ Entrepreneur Discovery Process (EDP)
- ✓ Industrial transition

S4
ANDALUCÍA

**Enabling Condition
Andalusia ERDF and ESF
OP 2021-2027**

EDP

- ❖ Process through which the quadruple helix agents: business, in particular industrial, educational and research organizations, public administrations and civil society, identify the most promising areas for sustainable economic development in each region
- ❖ Continuous in time

S4 ANDALUCIA DESIGN PROCESS

KEY CONTENTS

Agreement of the Andalusian Governing Council
approving the formulation of the Smart Specialization
Strategy for Sustainability of Andalusia 2021-2027,
S4Andalucía (BOJA n.19, 29th January 2021)

Formulation Agreement

S4Andalucía 2021-2027



Governance: simpler, more agile and effective



Reaching deeper into **smart specialization**



A live **Entrepreneurial Discovery Process**



Committed Technical Team driving the elaboration process



Contents

S4Andalucia will establish the general objectives, the elaboration period, the mechanisms, procedures and methodologies for the implementation of its actions, as well as the basic instruments for evaluation and monitoring:

-  **Diagnosis, SWOT** identifying problems, needs and challenges, based on verifiable indicators, taking into account an integrated gender perspective and causal analysis.
-  **Logic of the intervention**, strategic and specific objectives with their goals in coherence with the economic, social and environmental planning of the Andalusian Government.
-  **Definition of strategic lines, programs, measures and instruments** required to achieve the proposed objectives, improve the regional R&I system, manage the industrial transition and promote international collaboration with the assignment of competences.
-  **Participatory governance system** integrating representatives of companies, research organizations, Public Administration, civil society and market, within the framework of a continuous, effective and efficient Entrepreneurial Discovery Process (EDP).
-  **Evaluation and Monitoring System:** panel of indicators, scorecard, calendar and the correspondent estimated budget.



GOVERNANCE Formulation Agreement

S4Andalucía 2021-2027

The **MINISTRY OF ECONOMIC TRANSFORMATION, INDUSTRY, KNOWLEDGE AND UNIVERSITIES** CHAIRS and PROMOTES the elaboration process of the Strategy, with the assistance of the S4 Andalusia 2021-2027 **HIGH LEVEL WORKING GROUP** and the support of the **TECHNICAL OFFICE** (IDEA Agency)

Agents of the Governance: S4Andalucía Design

The governance model will guarantee the real and effective participation of the quadruple helix, facilitating the partaking and contributions of all interested regional actors involved with Andalusian R&D&I ecosystem:

- ❑ Agents of the **Andalusian Knowledge System**: Universities, public research organizations, science-technology parks, research and technology centers, technology transfer entities and organizations.
- ❑ Economic and social agents, as well as citizens.
- ❑ Public administrations involved.

Constitution of the High Level Working Group (Junta de Andalucía and JRC) 18th March 2021



Constitution of the Technical Team

(technical representatives of the Andalusian Government Departments) 28th May 2021



Sharing the advances of S4 design process works:
Opening the process to the public participation

S4 ANDALUCÍA **Community**

#somosS4Andalucia

#weareS4Andalucia

WEBINAR: S4ANDALUCIA OPEN PRESENTATION

15th July 2021

✓ 460 people registered
✓ 369 attendees



Presentación Del Proceso S4 ANDALUCÍA

Sevilla, 15 de julio de 2021
Webinario de Presentación de la

Presentación del Diagnóstico en curso

Sevilla, 15 de julio de 2021
Webinario de Presentación de la S4Andalucía
#SomosS4Andalucia

Pablo Cortés Achedad
Secretario General de Empresa, Innovación y En
Consejería de Transformación Económica, Indus
Universidades, Junta de Andalucía

Webinario de Presentación S4 ANDALUCÍA 2021-27 15 de julio 11:00

 Rogelio Velasco Consejero de Transformación Económica, Industria, Comercio y Universidades, Junta de Andalucía	 Mikel Landabaso Director General para Research Center, Comisión Europea	 Pablo Cortés Secretario General de Empresa, Innovación y Empleo, Junta de Andalucía
 Marcos Pérez Secretario Grupo Trabajo S4Andalucía, SG Empresa, Innovación y Emprendimiento	 Carmen Sillero Coordinadora Oficina técnica S4Andalucía, Área de Estrategia y Programas, Agencia IDEA	

#SomosS4Andalucia



<https://www.youtube.com/watch?v=2lktSvXghJo>

JULY 2021

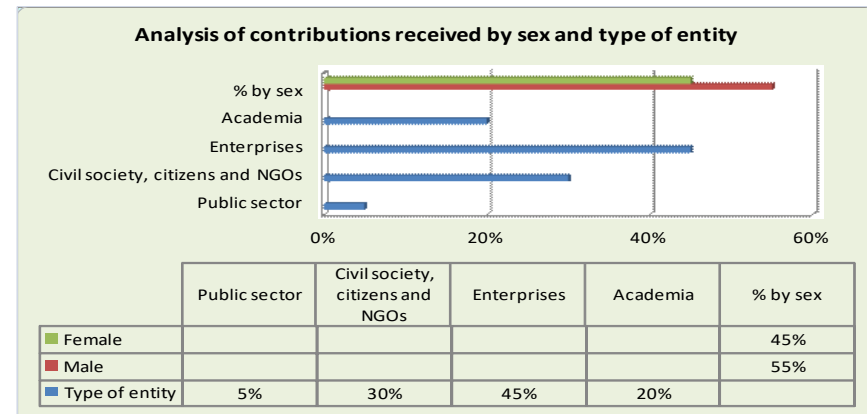
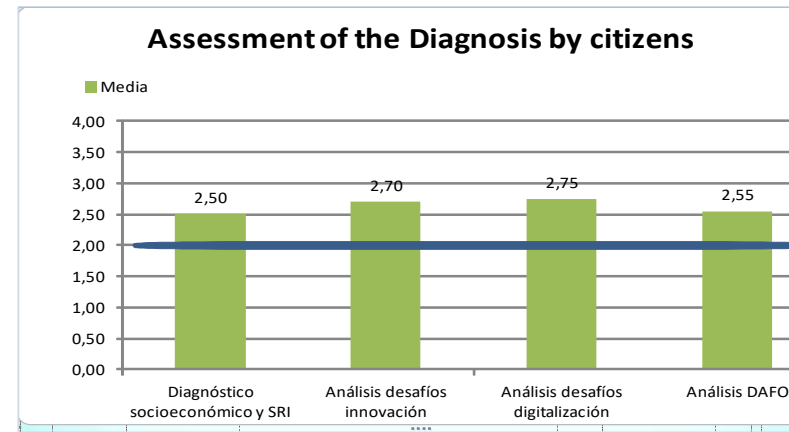
SEPTEMBER 2021

Open public consultation on the “*Diagnosis of the Andalusian Innovation System, SWOT and Challenges for innovation and digitization*”

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

The screenshot shows the website interface for the public consultation. At the top, there are logos for the Junta de Andalucía, RIS, S4 Andalucía, and the European Union. A red circle highlights the 'Participación abierta S4ANDALUCÍA' button. Below the navigation bar, there is a banner for 'Cambio del modelo económico' and a section titled 'Participación abierta S4ANDALUCÍA: Diagnóstico del Sistema de Innovación de Andalucía, DAFO y Desafíos para la innovación y la digitalización'. The form includes fields for name, email, and phone number, and a 'Enviar opinión' button. A green arrow points from the button to the results chart on the right.

Online Public Consultation RESULTS



After WEBINAR

Reception of contributions from the open public participation process

#	DAFO - Tipo	DAFO - Debilidades	DAFO - Acción	DAFO - Ji
4390	debilidad	17. Incorporar una nueva Debilidad	incorporar	
4374	debilidad	13. Escasa concienciación sobre la importancia de la innovación y la digitalización así como carencias formativas y de capacitación, tanto en las empresas como en la administración pública, de nivel experto, en digitalización como en gestión de la innovación.	incorporar	
4347	debilidad	17. Incorporar una nueva Debilidad	incorporar	
4243	debilidad	conocimiento y las empresas deb	modificar	Reducido interfaz y

Participation of the EIT RM HUB - Regional Centre Southern Spain

Support from the Technical Team to encourage open public participation → S4Andalucía Community

Updating the diagnosis, SWOT and challenges for innovation and digitalisation schemes

DIAGNÓSTICO SOCIO ECONÓMICO Y DEL SISTEMA DE INNOVACIÓN DE ANDALUCÍA

Estrategia de Especialización Inteligente para la Sostenibilidad de Andalucía, S4Andalucía 2021-2027

Documento en Curso

Versión tras consulta pública fase 1 (julio 2021)

Junta de Andalucía

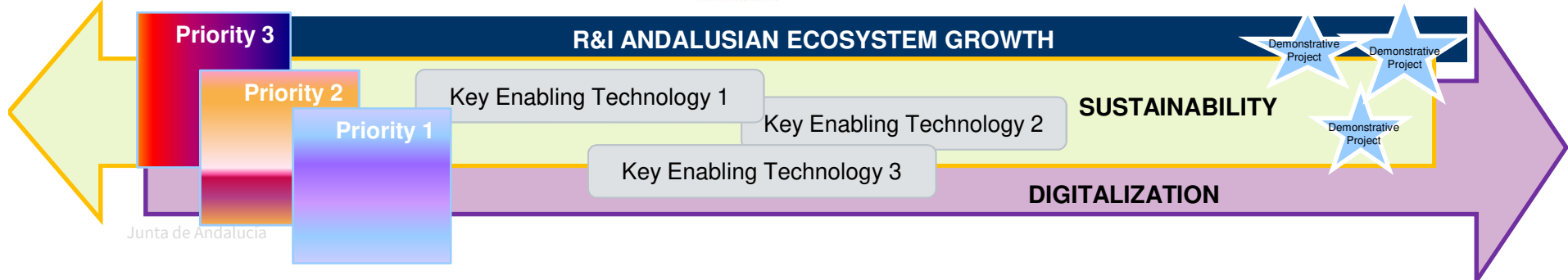
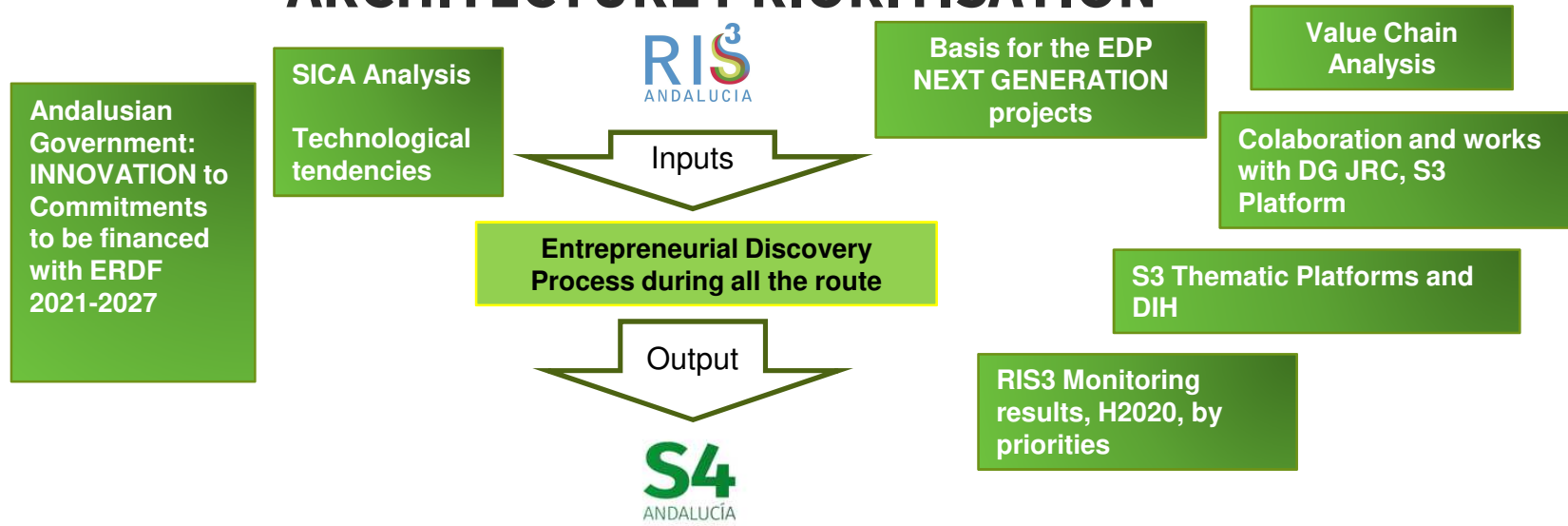
Consejería de Transformación Económica, Industria, Conocimiento y Universidades
Agencia de Innovación y Desarrollo de Andalucía IDEA

VIII.- Matriz FODA (DAFO) S4 Andalucía 2021-2027

REF	FORTALEZAS S4 ANDALUCÍA (*)
1	Las lecciones aprendidas en la implantación de la RIS3Andalucía, incluidas el procedimiento de descubrimiento emprendedor llevado a cabo, así como en su seguimiento y evaluación y la nueva formulación de la S4.
2	La participación de instituciones andaluzas en 8 plataformas temáticas S3 de la CE y el liderazgo en 4, el RIS Hub Raw Materials y el impulso a la cooperación internacional a través los 6 campus de excelencia internacional, de Ceseand, Interreg, Horizonte Europa y otros programas.



ARCHITECTURE PRIORITISATION



Planning Process. Next steps Calendar & Main Activities



APRIL MAY JUN JULY AUGUST SEPTEMBER OCTOBER NOVEMBER DECEMBER

2021

**1st Meeting High Level
Working Group 18/03/2021**

**2nd Meeting High Level
Working Group 22/07/2021**

3rd Meeting High Level Working Group

4th Meeting High Level Working Group

1



2



3



First Draft submission to the:

- ✓ **Managing Authority**
- ✓ **European Commission**

Diagnosys	Technical Office
Bottlenecks validation	
SWOT Validation	
Governance design Proposal	
Preparing the EDP design	
Integration of the Industria Crece Plan	Technical Team

Launching Webinar	Working Group
Methodological design	Technical Office and JRC
Pre-EDP process	Technical Team
Evaluability System in collaboration with IAAP (Andalusian Institute of Public Administration)	Technical Office

Development of EDP	S4ANdaluca Community
Strategical Planning	Technical Office and Technical Team
Integration of works with ERDF	Technical Office and Technical Team

CONSIDERATIONS TOWARDS **S4** ANDALUCÍA PRIORITISATION

Towards S4Andalucia prioritisation

- ❑ Raw Material is a relevant sector for our region: Andalusia counts with high mining potential and geodiversity, wide variety of mineral raw material deposits and a resurgent metal mining sector
- ❑ Raw Materials and Mining have been incorporated into our regional planning, and the Andalusian quadruple helix agents involved with this sector (industry, research, academia, policymakers, public authorities, entrepreneurs and students) will be relevant actors of the **Entrepreneurial Discovery** within **Smart Specialization Strategies**
- ❑ The Raw Material Hub Regional Center Southern Spain opens a window of new opportunities for the Andalusian enterprises and entities involved with sector in terms of cooperation and participation in specific programs and calls.
- ❑ **S4Andalusia will contribute to encourage the connectivity** between Andalusian entities and enterprises of the sector and EIT RM Hub within the objective of networking and mutual support relationships
- ❑ S4Andalusia is betting on the sustainable access to critical resources for a green and digital Andalusia., considering circular economy to obtain metals and critical raw materials.

Towards S4Andalucia prioritisation

- ❑ The concerned departments of the Andalusian Government departments are committed with the sector, with the objective of **improve the innovation capacity of SMEs**, willing to facilitate the access to different support instruments, including financing for innovation and advanced services and funding to boost innovation from ideas to commercialization
- ❑ The Andalusian Government, through the accompaniment of S4Andalucia, is willing to promote and support the **Andalusian Cluster on the mining value chain, as potential partner of the Raw Material Hub Regional Center Southern Spain and facilitator for interregional Cooperation (S3P Mining Industry Platform)**
- ❑ S4Andalucia will endorse the participation in EU networking serving Entrepreneurial Raw Material innovation through the cooperation with Andalusian instruments such as **CESEAND**, the Andalusian node EEN, the Enterprise Europe Network
- ❑ S4Andalucia will be eager to actively participate and collaborate with Raw Material Hub Regional Center Southern Spain, CSIC as its leader, and the rest of EU partners involved

Thank you for your attention!

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



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