

IISPV – Accreditation ISCIII

IISPV Strategic Plan 2021-2025

Barcelona, May 2022



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00 Introduction

Pere Virgili Institute for Health Research (IISPV)



Pere Virgili Institute for Health Research (IISPV) is a multidisciplinary and translational biomedical research centre focused on basic, clinical, epidemiological and health services research. It is the result of a partnership between groups from Hospital Universitari Sant Joan de Reus, Hospital Universitari Joan XXIII de Tarragona, Grup Pere Mata, Hospital de Tortosa Verge de la Cinta and Universitat Rovira i Virgili (URV).



HJ23

Hospital Universitari **Joan XXIII**
ICS Camp de Tarragona



Scientific structure of the IISPV, Areas and Groups (1/4)

IISPV Scientific Structure::

IISPV currently has 4 Areas: **Nutrition and Metabolism, Health and Environment, Neurosciences and Mental Health and Clinical Groups**. These areas include several research groups.



Nutrition & Metabolism



Neurosciences & Mental Health



Health & Environment



Clinical Groups

Area 1. Nutrition & Metabolism

Grupo de investigación en enfermedades inflamatorias intestinales

- IBODI

Responsable
Carolina Serena Perelló
EMERGING GROUP

OBESITY. Obesity and Metabolic Surgery Research Group

Responsable
Daniel Del Castillo Déjardin
CONSOLIDATED

Cardiology Research Group - RISCAT

Responsable
Alfredo Bardají
CONSOLIDATED

DIAMET. Diabetes and metabolic associated diseases research group

Responsable
Sonia Fernández-Veledo, Joan Josep Vendrell Ortega
CONSOLIDATED

NFOC-health: Research Group on Functional Nutrition, Oxidation and Cardiovascular Diseases

Responsable
Rosa Solà Alberich
CONSOLIDATED

Unitat de nutrició humana: Prevenció i Epigenètica

Responsable
Jordi SALAS-SALVADÓ, Nancy BABIO SÁNCHEZ
CONSOLIDATED

MoBioFood

Responsable
Maria Teresa Blay Olivé
ASSOCIATED

SMHEALTH. Smart Health Research Group

Responsable
Solanas Gómez, Agustín
ASSOCIATED



Scientific structure of the IISPV, Areas and Groups (2/4)

Area 1. Nutrition & Metabolism

Pediatrics, Nutrition and Human Development Research Unit (PNHDRU)

Responsible
Joaquín Escribano Subías

CONSOLIDATED

Metabolomics Interdisciplinary Lab (MiL@b)

Responsible
Xavier Correig Blanchar

CONSOLIDATED

Nutrigenomics Group

Responsible
Begoña Muguerra

ASSOCIATED

Nutrition and Mental Health Group – NUTRISAM

Responsible
Victoria Arijá Val, Josefa Canals Sans

CONSOLIDATED

Biomedical Research Unit (BRU)

Responsible
Jorge Joven Maried, Jordi Camps Andreu

CONSOLIDATED

Lipid and Arteriosclerosis Research Unit (LARU), and Vascular Medicine and Metabolism Unit (VMMU)

Responsible
Lluís Masana Marín

CONSOLIDATED

Ophthalmology Research Group - RETIPROGRAM

Responsible
Pere Romero Aroca, Domènec Puig Savi

EMERGING GROUP

Disease Biomarker and Molecular Mechanism Grup (DIBIOMECH)

Responsible
Matilde Rodríguez Chacón

CONSOLIDATED

Transversal Lifestyle and Disease Prevention Program

Responsible
Francisco Martín Luján

ASSOCIATED



Scientific structure of the IISPV, Areas and Groups (3/4)

Area 2. Health & Environment

Emergency Research
Group

Responsible
Youcef Azeli

EMERGING GROUP

TECNATOX. Center for
Environmental, Food and
Toxicological Technology

Responsible
Josep Lluís Domingo, Marta
Schuhmacher
CONSOLIDATED

ECOMMFIT - Experiments,
Computing and Modeling
in Fluid Mechanics and
Turbulence

Responsible
Jordi Pallarès Curto
ASSOCIATED

SIS. Sepsis, Inflammation
and Critical Patient Safety

Responsible
María Bodí, Alejandro Rodriguez
Oviedo
CONSOLIDATED

Mycology and
Environmental
Microbiology -
MYCOLOGY

Responsible
Josep Guarro Artigas
ASSOCIATED

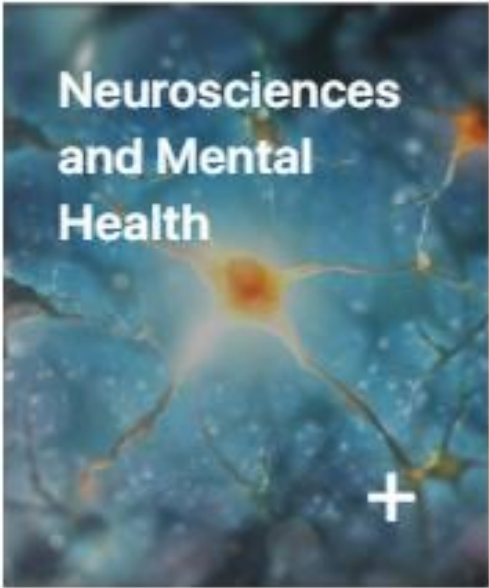
INIM. Infection and
immunity

Responsible
Francesc Vidal Marsal
CONSOLIDATED

Area 3. Neurosciences & Mental Health

GAP. Genetics and
environment in Psychiatry

Responsible
Elisabet Vilella Cuadrada
CONSOLIDATED



Scientific structure of the IISPV, Areas and Groups (4/4)

Area 4. Clinical Groups

Oncology, Translational, Epidemiological and Clinical Research Group (GIOTEC)

Responsible

Joan Lluís Borràs Balada, Josep Gumà Padró

ASSOCIATED

Radiotherapy Oncology Research Group

Responsible

Meritxell Arenas Prat

ASSOCIATED

Otorhinolaryngological disease research group

Responsible

Enric Figuerola Massana

ASSOCIATED

Research group on Autoimmunity, Inflammation and Infection

Responsible

Antoni Castro Salomó

ASSOCIATED

Research in Oncological Pathology and Bioinformatics (PO&B)

Responsible

Marylène Lejeune, Carlos López Pablo

ASSOCIATED

Allergology. University Hospital of Tarragona Joan XXIII

Responsible

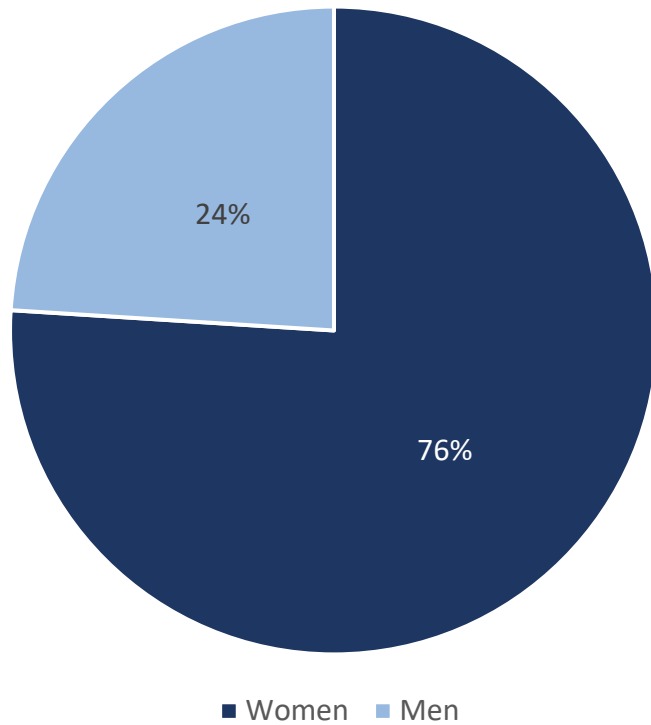
Pere Gaig Jané

ASSOCIATED



Material and human resources of IISPV (1/4)

132 Hired personnel



410 People involved in IISPV research

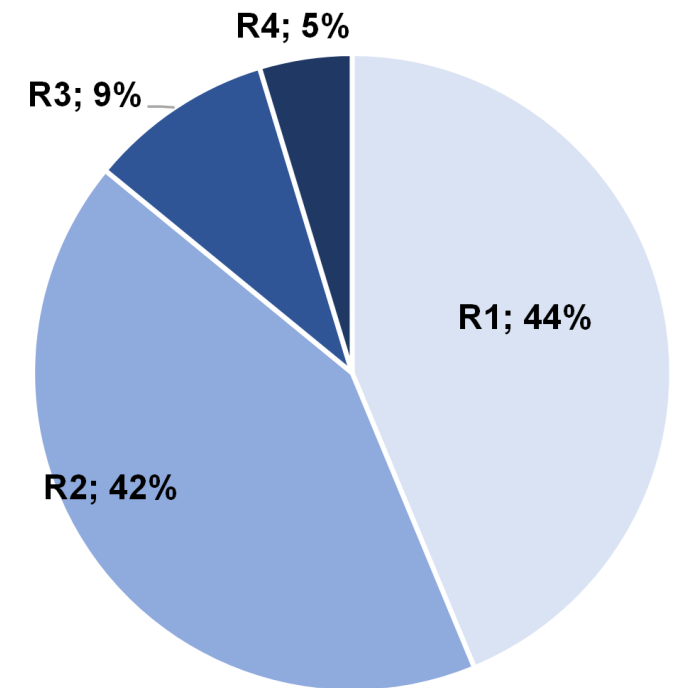


30 Research Groups

15 Consolidated
3 Emerging Groups
12 Associated

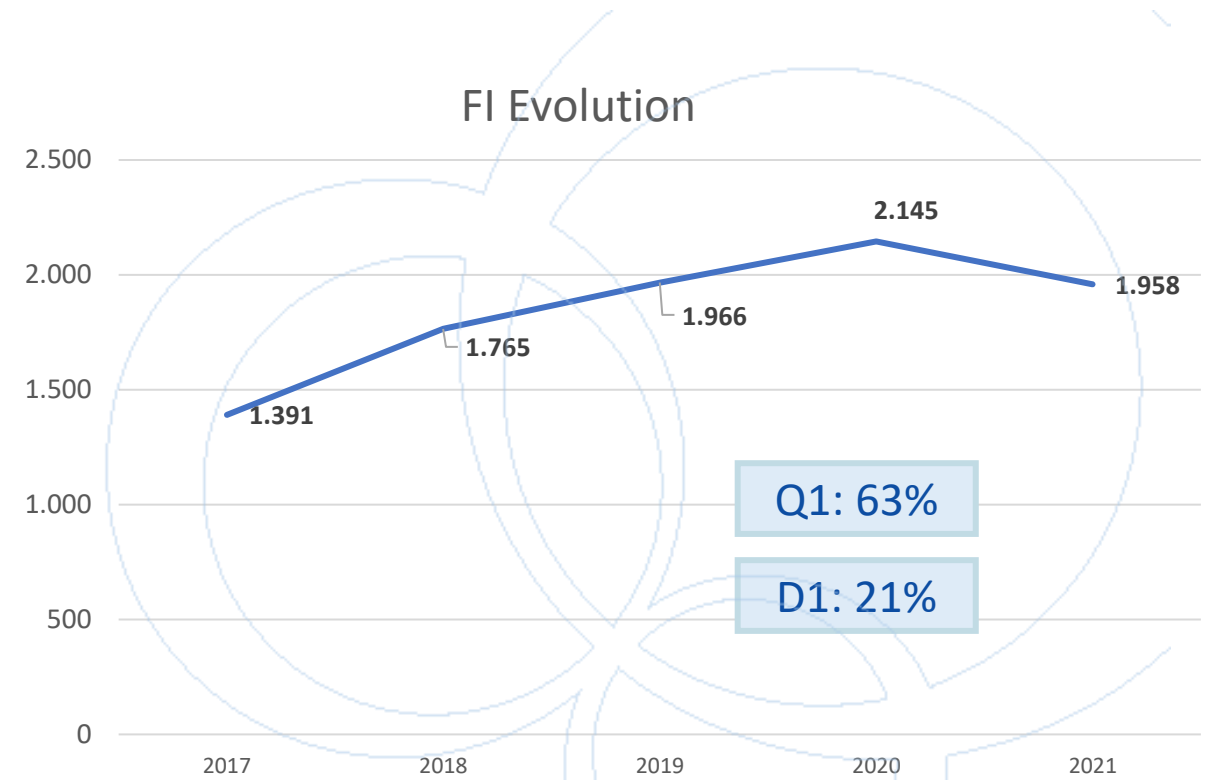
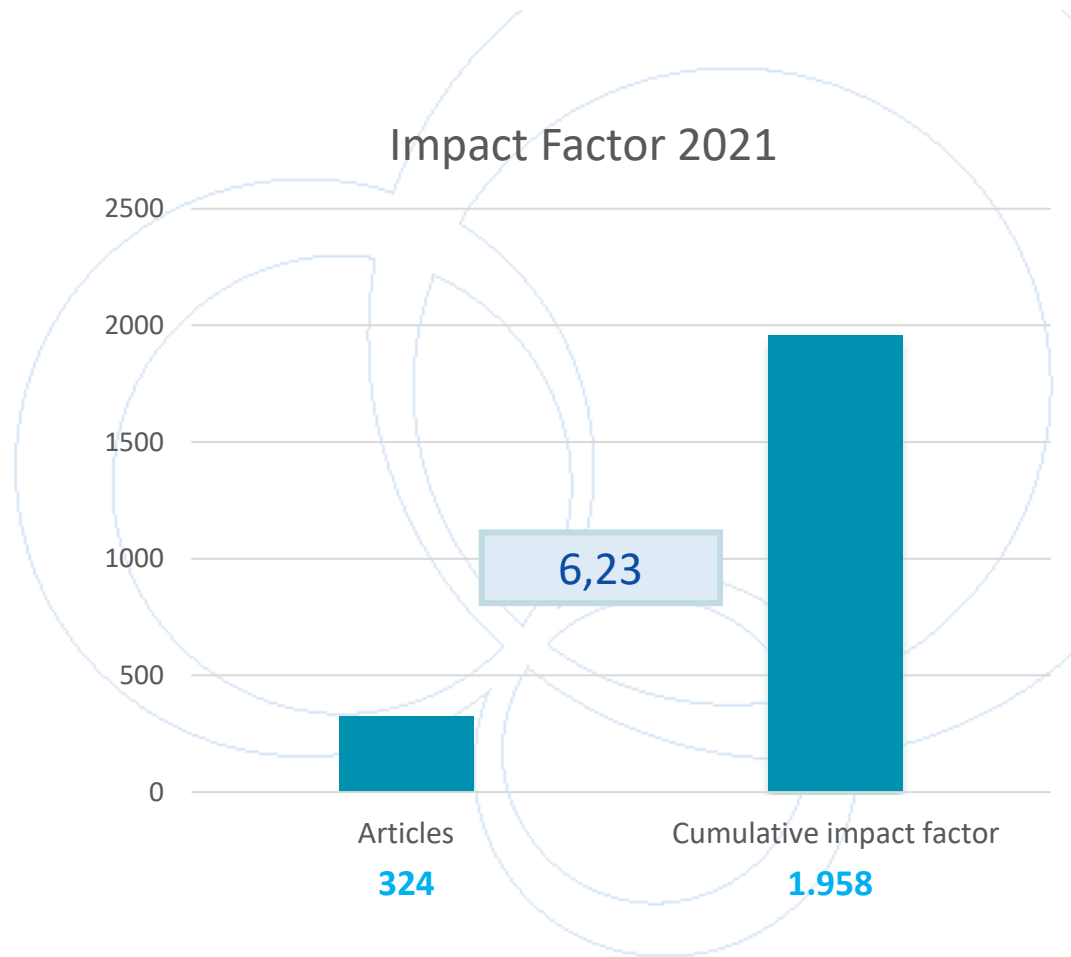


Research Staff –Euraxess Rating– HS4R: 64



IISPV has spaces dedicated to R&D in the two potential core hospitals of the Institute (JXXIII and HUSJR). There are 3,207 m² of surface area (including 260 m² for management).

Material and human resources of IISPV (2/4)



Scientific Report 2021 (provisional)

Material and human resources of IISPV (3/4)



Innovation

101 Active Projects

26 Awarded Projects

74 Active Clinical Trials

1 ISCIII Platform

6 CIBER Groups

14 Clinical practice Groups

1 Generated Innovation

1 Granted Patents

1 Created Spin-Off



Education & Communication

8 Organised Conferences and Seminars

38 Press Releases

Material and human resources of IISPV (4/4)



IISPV – Platforms for Research Support



Biobank IISPV



Clinical Studies
Unit (CSU)



Bioinformatics



Metabolomics Platform



Histological, cytological
and digitalization studies



Mental health
assessment (PESaM)



Cytometry unit and cell
sorting

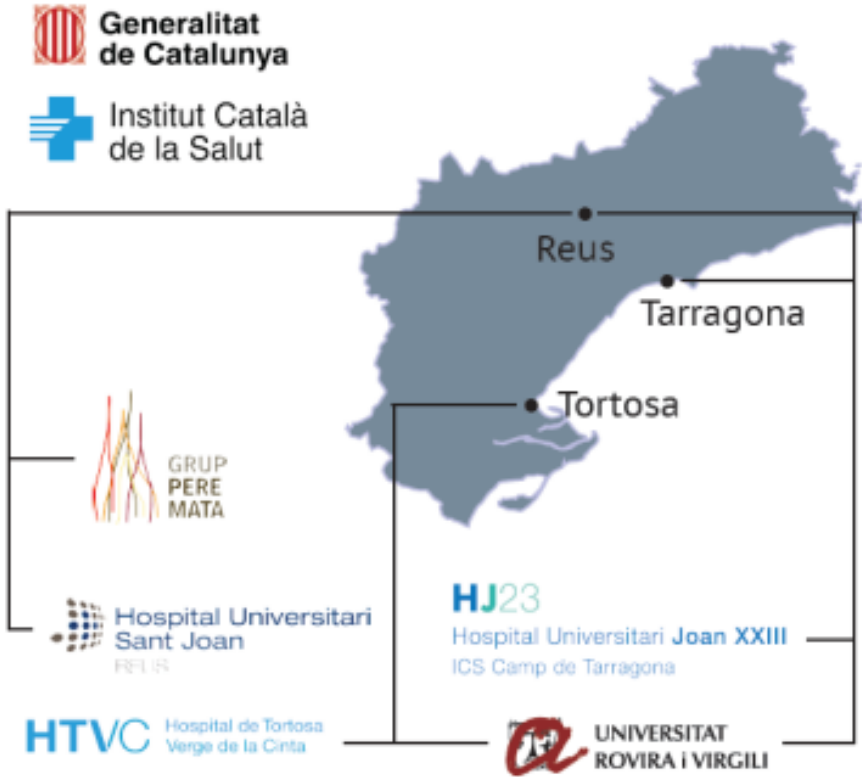


Statistical support
platform



Animal Experimentation
Unit

Interrelation of research with training and Clinical Practice in Integrated the Centres



01 Internal and External Analysis - SWOT

02 CAME Analysis

03 Vision

04 Strategic Map

Internal and External Analysis

In order to perform the internal and external analysis, two on-line sessions were held on April 15th and June 10th, 2021

- For the **Internal Analysis**, the current strengths and weaknesses of the Institute were discussed. For the **External Analysis**, threats and opportunities were discussed.
- 44 multidisciplinary professionals participated in the first session and 56 in the second one, 52% from the first session and 48% as representatives of relevant stakeholders of the institute.
- During these sessions the addressed topics were **Organization, Management, Professionals, Resources, Activities, Processes, Brand, Prestige, Leadership, Markets, Policies & Regulations**, new lines of action and new initiatives.
- **The SWOT summarizes the main Threats, Opportunities, Weaknesses and Strengths identified.**

Consolidation of Internal and External analysis

Strengths

1. IISPV is a transversal and multidisciplinary institution with motivated and passionate personnel.
2. IISPV is a centre that promotes synergies in biomedical research and biomedical transfer at the service of society.
3. Micro-Cluster with high health knowledge and access to platforms.
4. IISPV is an institution open to change and new opportunities.
5. The collaboration with URV allows to maximize research activities of IISPV.
6. High capacity for the management of biomedical research and innovation.
7. High rate of national and international competitive public funds raised.
8. IISPV as unique biomedical research hub in Tarragona area accredited by CERCA and HRS4R.

Weaknesses

1. Low sense of belonging to IISPV among some of its members.
2. Lack of both structural and financial resources.
3. Limited activity in promoting transfer and innovation.
4. Insufficient degree of internationalization of IISPV.
5. Absence of effective internal and external communication.
6. Lack of specific support for emerging groups.
7. Need to establish a professional career model.
8. Low presence of patients and civil society in the institute's activities.

Opportunities

1. Existence of national and international stakeholders from the health sector with whom IISPV can collaborate and learn from.
2. Increased interest in innovation and technology transfer by industry and private investors in health.
3. Increased public funding at both national and European level.
4. ISCIII accreditation as a national reference in health research.
5. Increased interest in digital transformation in the Health sector.
6. IRISCAT and ITEMAS as great opportunities for the establishment of alliances.
7. Increment of interest in R&D&I by the society due to the pandemic.

Threats

1. Low perception of IISPV Brand by the Health sector and society.
2. High density of other highly competitive biomedical research centres in the health field.
3. Insufficient R&D&I financing in Spain compared to other European countries.
4. The new labour regulations are not adapted to the specificities of the research field.
5. Uncertainty and economic crisis due to pandemic and war conflicts.
6. Existence of other centres with higher capacity of talent retention and attraction.
7. Geographical distance from the health ecosystem epicentre.

CAME Analysis: Strategic Axes

	Threats	Opportunities
Strengths	<u>Adapt</u> Achievement of a good management model in all processes and activities of the institute. Enhancement of talent attraction and retention, considering the principles of gender equality and generational turnover.	<u>Explore</u> Promotion of a translational research model with an impact on the ecosystem and stakeholders in the health sector, patients and society. Dynamization of digital transformation within the institution.
Weakness	<u>Correct</u> Creation of an atmosphere of cooperation and cohesion between the IISPV member institutions and their professionals. Provide of key tools for the development of skills and talent. Strengthen internal and external communication.	<u>Maintain</u> Boost IISPV internationalization. Promotion of innovation, and technological and knowledge transfer. Increase resources for IISPV through public and private funding.

IISPV's strategic plan is structured into 10 strategic axes, 22 strategic objectives and 79 activities. The definition of the strategic axes has been agreed by the members of all entities that are part from IISPV and is intended to reflect the fundamental pillars of the institute.

Vision of the IISPV Strategic Plan

VISION

To be a centre of reference in research, innovation and biomedical transfer at national and international level, through an efficient and sustainable model to contribute to improvements of the quality of life of patients and society.

04 Strategy Map: Strategic Axes

Key Results

Which results do we expect to achieve?

To be a reference centre for research, innovation and biomedical transfer at national and international level.

To follow an efficient and sustainable model

To contribute to the improvement of the quality of life of patients and society.

Clients

Which value proposal do we offer our customers?

IISPV member groups

Promote research and knowledge among IISPV member institutions.

Health Ecosystem

To position itself as a benchmark IIS in the sector.

Companies and Investors

To become an institute that fosters the transfer of high-potential innovations and knowledge

Patients and Society

Proposing disruptive innovations for unmet needs

Internal processes

In which processes do we need to be excellent at to satisfy these needs?

6

Promotion of a translational research model

7

Boost IISPV Internationalization

8

Promotion of innovation, technological and knowledge transfer

9

Strengthen internal and external communication

10

Creation of an atmosphere of cooperation and cohesion between IISPV members.

5

Achievement of a good management model in all processes and activities of IISPV

Organization

What is critical for the future?

1

Increase resources through public and private finance

2

Enhancement of talent attraction and retention

3

Dynamization of IISPV digital transformation

4

Provide of key tools for the development of skills and talent

04 Strategy Map: Strategic Objectives

Key Results

Which results do we expect to achieve?

To be a reference centre for research, innovation and biomedical transfer at national and international level.

To follow an efficient and sustainable model

To contribute to the improvement of the quality of life of patients and society.

Clients

Which value proposal do we offer our customers?

IISPV member groups

Promote research and knowledge among IISPV member institutions.

Health Ecosystem

To position itself as a benchmark IIS in the sector.

Companies and Investors

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Patients and Society

Proposing disruptive innovations for unmet needs

Internal processes

In which processes do we need to be excellent at to satisfy these needs?

Translational Research Model

12 Define and implement translational research programmes.

13 Implement the Shared Scientific Project based on a patient-centred research model.

Internationalization

14 To increase the positioning of IISPV at national and international level.

15 Increase participation in international networks, funding and collaborations.

Innovation and Transfer

16 Improve the culture of innovation and transfer.

17 Fostering new business opportunities.

18 Strengthen the role of IISPV in streamlining the transfer process.

Internal and External communication

19 Define an internal and external communication strategy.

20 Consolidate IISPV brand.

Cooperation and cohesion

21 Design and implement a series of actions to increase the atmosphere of cooperation and cohesion.

22 Promote synergies between IISPV member institutions and their professionals.

Management Model

9 Develop a process management model for the continuous improvement in the Institute.

10 Preparing for ISCIII accreditation and CERCA reaccreditation, as well as its continuous monitoring.

11 Implement the Institute's Quality System.

Organization

What is critical for the future?

Increase resources

1 Identify and exploit new sources of funding.

2 Promote institutional campaigns to raise funds for research.

Talent attraction and retention

3 Design and implement a Professional Development Model to attract and retain talent.

4 Ensure compliance with HRS4R standards.

Digital Transformation

5 Consolidate the use of IT throughout the organization to strengthen and transform it.

6 Provide all staff with tools for such integration.

Key Tools

7 Promotion of specific and continuous training for all IISPV professionals.

8 Define a teaching offer focused on innovation and research.