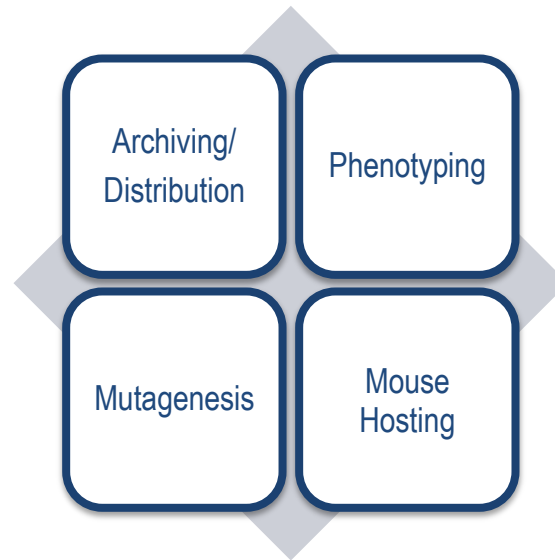


Infrafrontier-GR/Phenotypos

The Greek Research Infrastructure for Molecular and Behavioral Phenotyping of biological model organisms for chronic degenerative diseases



www.infrafrontier.gr



Infrafrontier-GR/Phenotypos Objectives

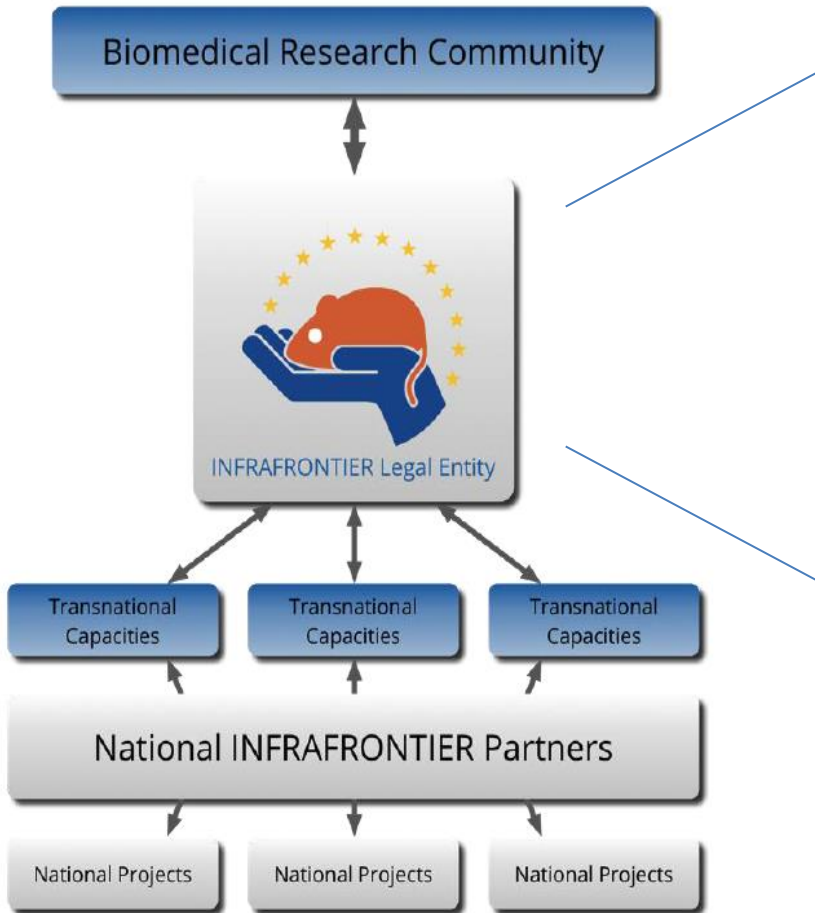
Develop a **comprehensive discovery pipeline** for disease-oriented phenotyping, archiving and distribution of mouse models of human disease

Provide high end, open access services to academic and industrial R&D users to develop their scientific and innovation portfolios.

Liase with pre-clinical and translational programs and **outreach to regional research communities**

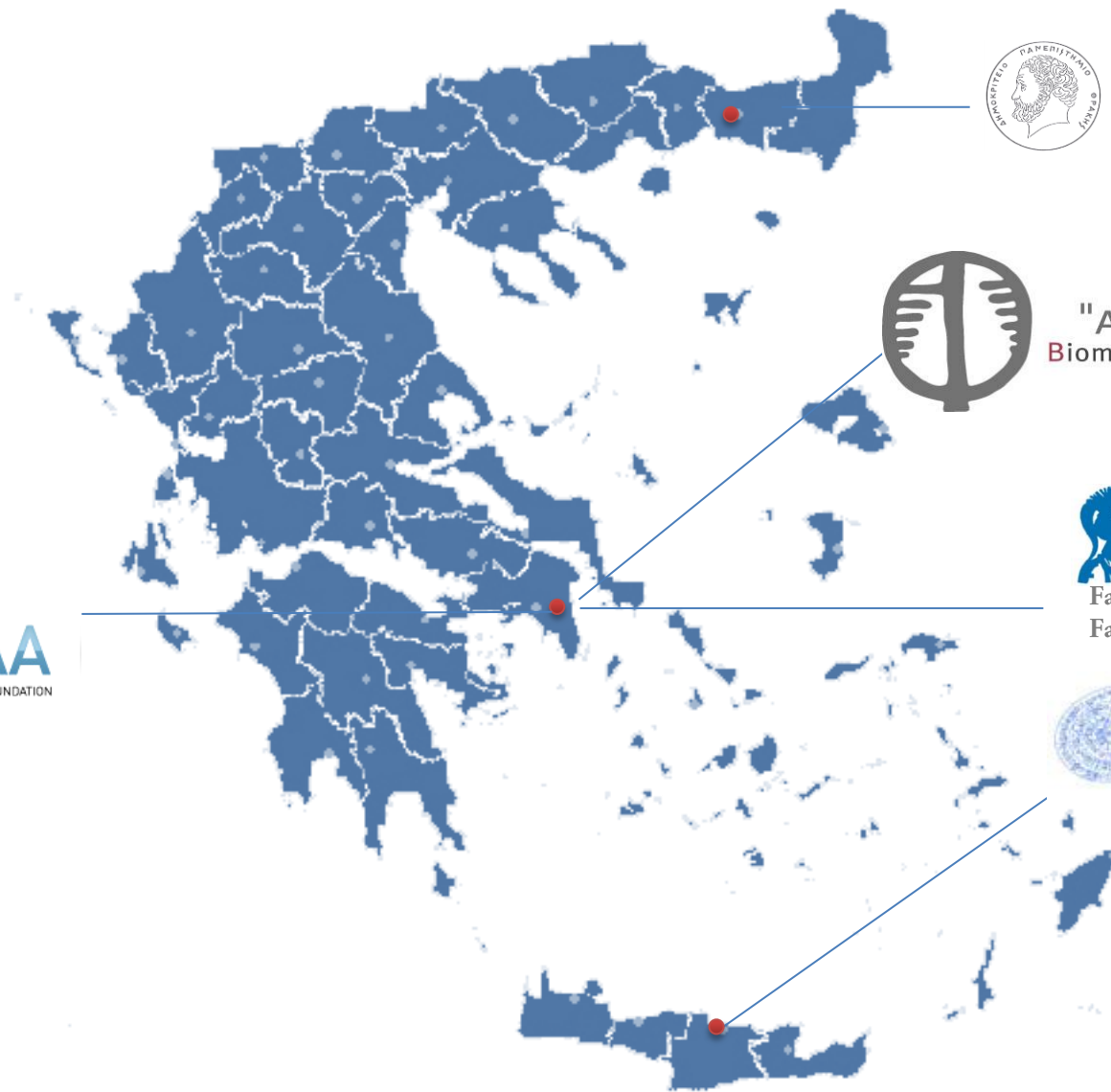


Infrafrontier GmbH Founding members





Current InfrafrontierGR/Phenotypos network



Democritus University of Thrace



"ALEXANDER FLEMING"
Biomedical Sciences Research Center



National and Kapodistrian
UNIVERSITY OF ATHENS

Faculty of Medicine
Faculty of Nursing



FORTH
Institute of Molecular Biology
and Biotechnology





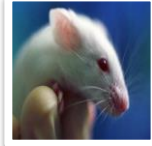
Infrafrontier-GR/Phenotypos services



Archiving/distribution/hosting

- Sperm & embryo cryopreservation
- Live mouse generation
- Embryo generation
- Long term storage
- Mouse hosting and distribution

- Import of mice
- Mouse breeding
- Health report screening



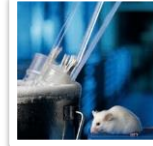
Phenotyping

- Mouse modeling
- In vivo phenotyping
- Tissue Phenotyping
- Molecular phenotyping
 - Genomics
 - Proteomics

- **System/disease specific:**
- Inflammatory/Autoimmune
- Cancer

Infrafrontier-GR / Phenotypos:

- Behavioral
- Metabolic



Mutagenesis/Transgenesis

- Pronuclear injection
- Founder Generation
- Embryonic Stem Cell Gene Targeting
- Blastocyst Injection
- Chimera Production
- Germline transmission



3.64MEuros,
2012-2015

Full list of services at www.infrafrontier.gr



National and Kapodistrian
UNIVERSITY OF ATHENS



Faculty of Medicine
Faculty of Nursing Democritus University of Thrace



Funding from Structural Funds

Preparatory Phase (Feasibility Study, participation in INFRAFRONTIER-EUROPE)

Start: 01/2010

End: 03/2011

Budget: €125,000

Construction Phase (procurement of equipment, salaries)

Start: 06/2012

End: 12/2015

Budget: €3,641,000



Infrafrontier-GR at a glance

- ✓ **17 new positions** for highly skilled personnel (of which 9 PhD level, 4 MSc level and 1 DMV)
- ✓ **3 new technology units** (Advanced imaging, microCT, Hybrid γ -ray imaging system)
- ✓ **7 upgraded facilities** (Transgenesis and cryopreservation, animal house units, histopathology, FACS, genomics, proteomics units)
- ✓ Service provision to academic and industrial users in Greece and abroad, including **transnational access services** (Infrafrontier I3).
- ✓ **Strategic participation in ESFRI Infrafrontier** – Founding member of Infrafrontier GmbH
- ✓ **Open access services** to the scientific community, enhancing research competitiveness
- ✓ Support of **high impact publications** and **competitive research programs** (including ERC grants, Marie-Curie actions, collaborative FP7, H2020 and IMI projects, industrial R&D projects)
- ✓ **Hands-on training** to new personnel on state-of-the-art technologies
- ✓ **Centralised web portal** for service requests - www.infrafrontier.gr

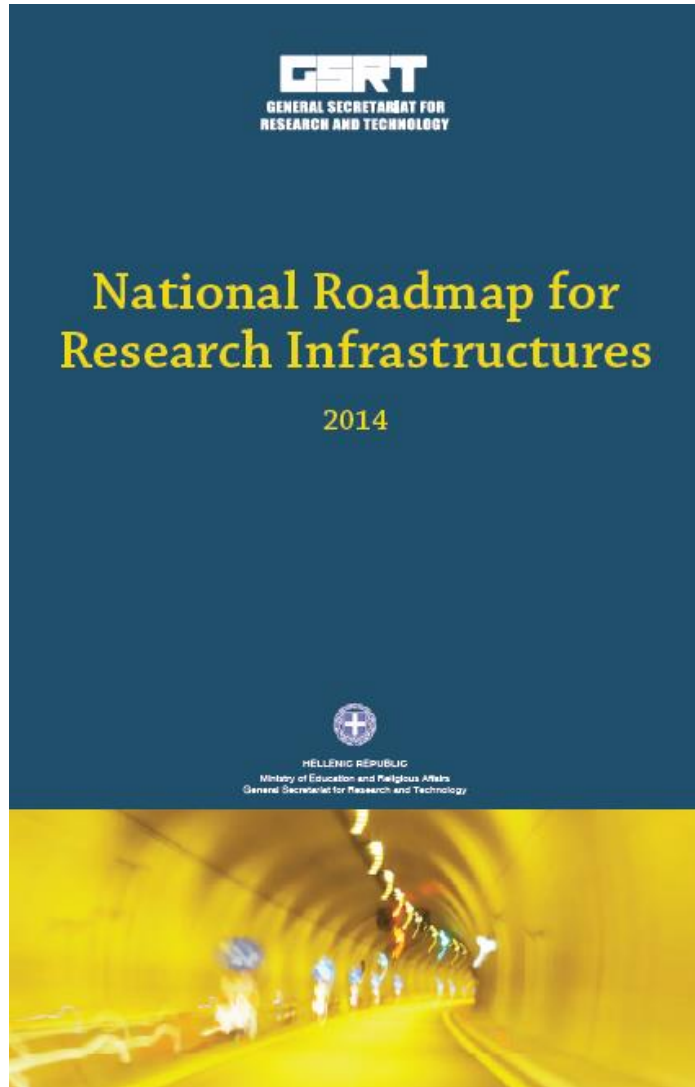


SF funding for RI's

- Bureaucracy
- Gaps in funding between SF cycles



InfrafrontierGR/Phenotypos in the national Roadmap for research infrastructures



Annex I - National Roadmap RIs

Annex I - National Roadmap RIs

Social Sciences and Humanities				
No	Acronym	Title	ESFRI relation	RIS3 & societal relevance
1.	CESSRI *	Greek Research Infrastructure for Social Sciences	CESSDA, ESS	Evidence base for RIS3, skills, demographic change
2.	GR-SHARE-ERIC *	Greece in SHARE-ERIC	SHARE	Health & Ageing
3.	APOLLONIS *	Greek Infrastructure for Digital Arts, Humanities and Language Research and Innovation	CLARIN, DARIAH	Culture, Tourism, ICT
e-infrastructures				
No	Acronym	Title	ESFRI relation	RIS3 & societal relevance
4.	HELIX *	National Digital Infrastructures for Research	PRACE	ICT
5.	ELIXIR-GR	Managing and analyzing biological data	ELIXIR	Health, ICT
Energy				
No	Acronym	Title	ESFRI relation	RIS3 & societal relevance
6.	PROMETHEUS	A Research Infrastructure for the Integrated Energy Chain	ECCSEL / EU-SOLARIS	Energy, Environment & Sustainable Development
7.	FUVEP	Centre of Excellence for Future Vehicle Environmental Performance		Energy, Environment & Sustainable Development, Transport
Biological and Medical Sciences				
No	Acronym	Title	ESFRI relation	RIS3 & societal relevance
8.	INFRAFRONTIER-GR / Phenotypos *	The Greek Research Infrastructure for Molecular and Behavioural Phenotyping of biological model organisms for chronic degenerative diseases	INFRAFRONTIER	Health & Pharmaceuticals
9.	INTEGRA-Biomed *	Integrated Greek Infrastructure for Biomedical research	BBMRI - EATRIS	Health & Pharmaceuticals
10.	Bioimaging-GR	A Greek Research Infrastructure for visualizing and monitoring fundamental biological processes	EURO-Bioimaging	Health & Pharmaceuticals, ICT
11.	INSPIRED	The National RIs on Integrated Structural Biology, Drug Screening Efforts and Drug - target functional characterization	INSTRUCT	Health & Pharmaceuticals
12.	Openscreen-GR	An Open Access Research Infrastructure of Chemical Biology and Target Based Screening Technologies for Human and Animal Health, Agriculture and the Environment	EU OpenSCREEN	Health & Pharmaceuticals
13.	pMED-GR	The Greek Research Infrastructure for Personalised Medicine Towards more accurate and cost-effective health management for the Greek citizen		Health & Pharmaceuticals, Personalised Medicine

* Research Infrastructures (or part of them) that already have a funding commitment are designated Category I. The remaining RIs of the roadmap are designated Category II.