



The European landscape of Research Infrastructures for the promotion of health: integration without overlapping

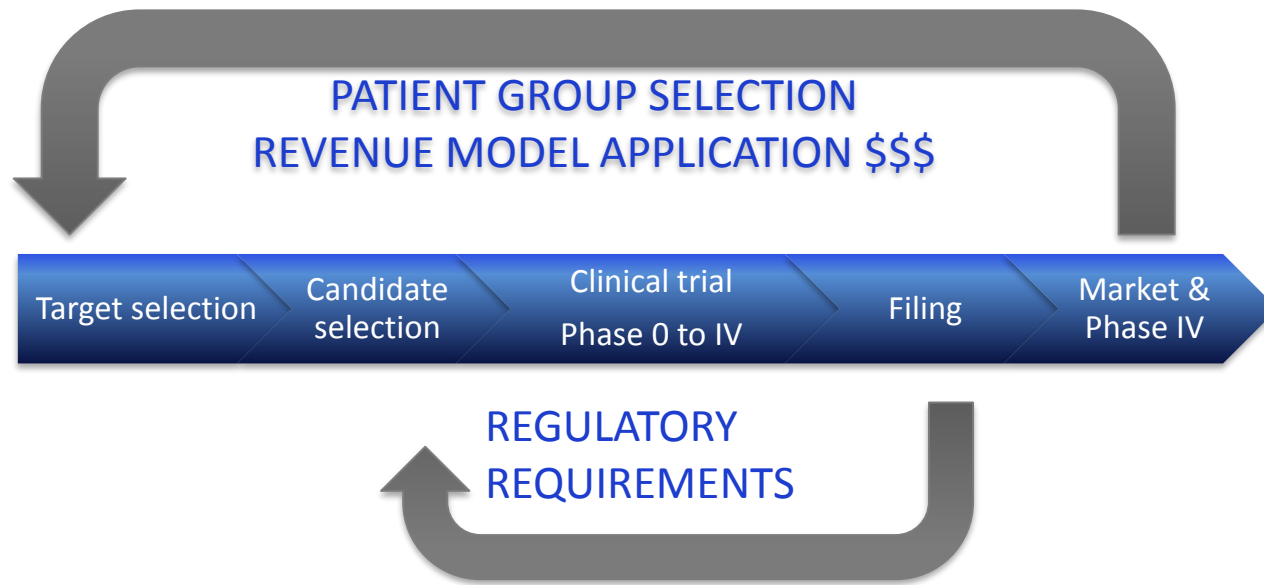
(G. Migliaccio, ISS, EATRIS-ERIC)

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DEVELOPMENT PIPELINE for novel drug



Academic driven translational medicine

- Intensive development by academia of new-in-class drugs
- Progressive shifting from discovery to clinical proof of concepts
- Especially active in marginal markets
 - Rare diseases
 - Paediatric diseases of genetic origin

ESFRI Road Map

- Research Infrastructures of Pan-European design and interest are included in the Road Map document by the ESFRI committee.
- Development and Design are financed by dedicated EU funds (INFRA calls)
- They are maintained and controlled by the interested Member States.

Why European Research infrastructures?

The term 'research infrastructures' refers to **facilities, resources and related services** used by the scientific community to conduct top-level research in their respective fields

- ❑ Research infrastructures should :
 - ❖ have a pan-European interest
 - ❖ correspond to the long term needs of the European research communities
 - ❖ cover all scientific areas

An European Research Infrastructure seems to be an ideal research instrument for facilitating the joint establishment and operation in case of **complex and multidisciplinary** research activities.

BIO-MEDICAL SCIENCE RESEARCH INFRASTRUCTURES



- *biobanks*



- *data*



- *marine organisms*



- *systems biology*



- *translational research*



- *mouse disease models*



- *small molecules*



- *microorganisms*



- *clinical trials*



- *structural biology*



- *biomedical imaging*



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BIO-MEDICAL SCIENCE RESEARCH INFRASTRUCTURES: ACCESSIBLE VIA CORBEL INNOVATION



- *biobanks*

eatris

- *translational research*



- *clinical trials*



- *data*



- *marine organisms*



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eatris

European infrastructure
for translational medicine

OUR PURPOSE

EATRIS is a permanent EU biomedical research infrastructure. Our purpose is to accelerate translation of science into medical products that benefit patients and improve human health.

OUR AIMS

1. Improving access to academic expertise
2. Increasing utilisation of academic infrastructure
3. Developing and validating tools that improve drug pipeline output
4. Facilitating public-private partnership in drug research

OUR SCOPE

- Preclinical discovery to clinical proof of concept
- Product platforms: Advanced Therapy Medicinal Products, Small Molecules, Vaccines
- Enabling platforms: Biomarkers, Imaging & Tracing

Disease and patient sex or age agnostic

ECRIN

- ECRIN is a public, non-profit organisation that links scientific partners and networks across Europe to facilitate multinational clinical research. It provide sponsors and investigators with advice, management services and tools to overcome hurdles to multinational trials and enhance collaboration.

PEDCRIN

- PedCRIN is a four-year INFRADEV3 project funded by the European Union's Horizon 2020 programme, launched on the 1st January 2017 (grant agreement number 731046) coordinated by ECRIN.
- <http://www.ecrin.org/projects/pedcrin>

BBMRI ERIC

- **Biobanking and BioMolecular resources Research Infrastructure - European Research Infrastructure Consortium.**
- BBMRI-ERIC shall establish, operate and develop a pan-European distributed research infrastructure of biobanks and biomolecular resources in order to facilitate the access to resources as well as facilities and to support high quality biomolecular and medical research.

EPTRI – European Paediatric Translational Research Infrastructure

TOPIC : Design Studies

Topic identifier:	INFRADEV-01-2017
Publication date:	14 October 2015
Types of action:	RIA Research and Innovation action
DeadlineModel:	single-stage
Opening date:	08 December 2016

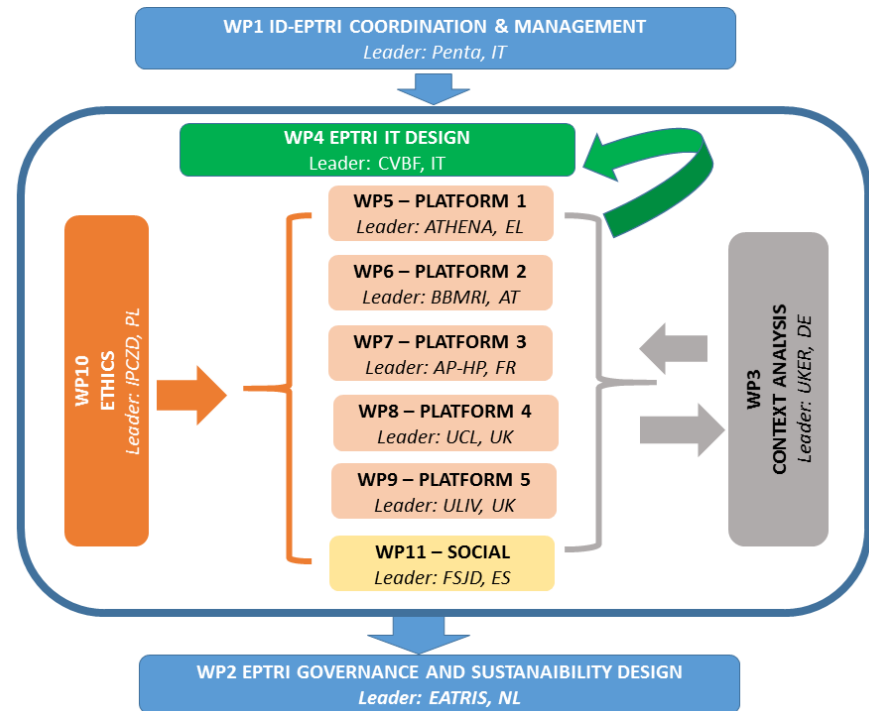
A feasibility study for the creation of an infrastructure dedicated to paediatric diseases

What is the scope for an Infrastructure dedicated solely to paediatric diseases ?

- Regulatory request for safety studies in paediatric patients PIP
- Support for drug development directed to treat pediatric diseases
- Better understanding of the human development biology and pathophysiology
 - In utero
 - Neonatal
 - Juvenile

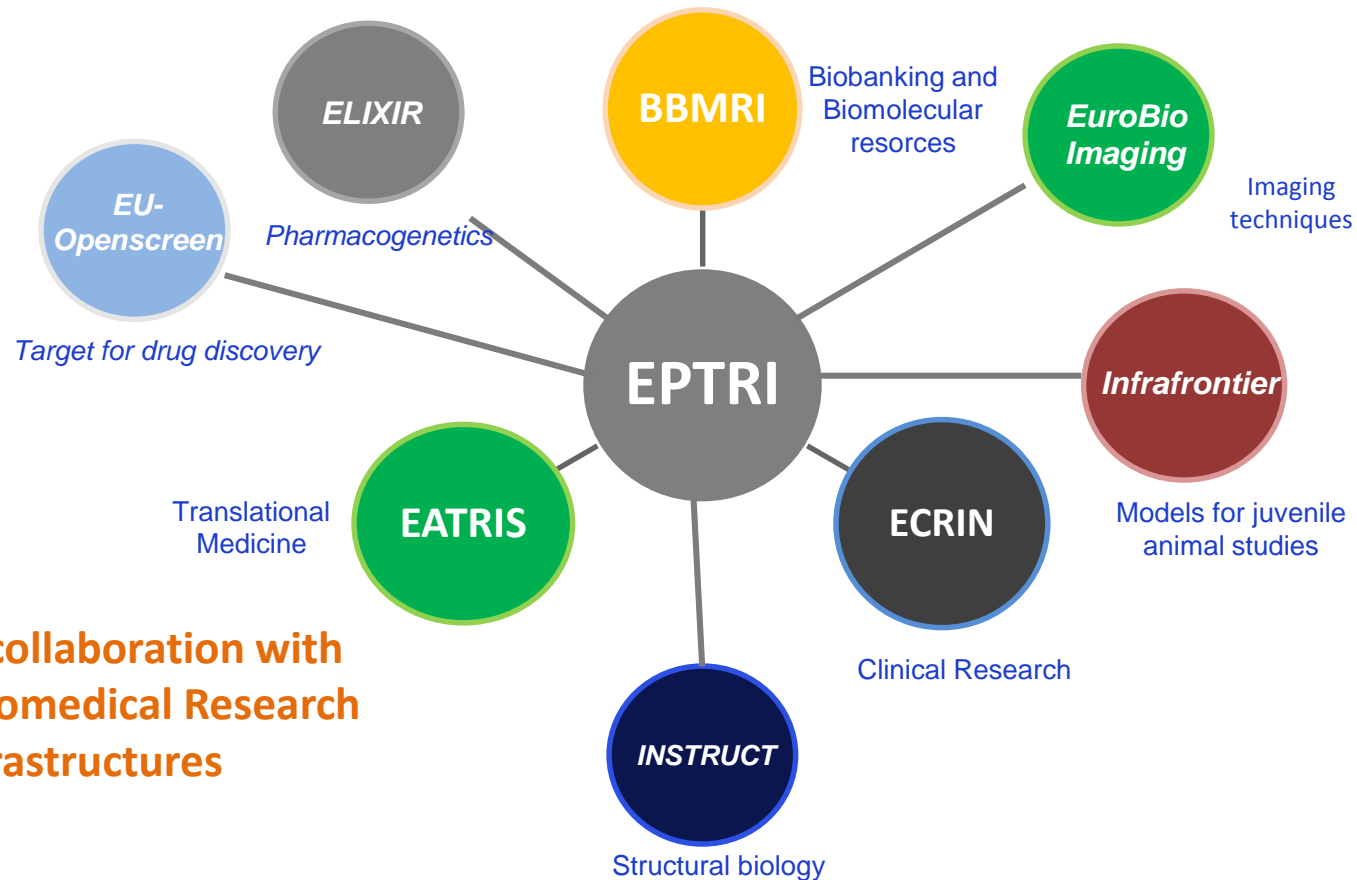
Conceptual Design Report (CDR): *three phases*

- 1- **Context Analysis phase:** to estimate the possible gaps to be covered
- 2- **Operational phase:** to organize the different components of the new RI
- 3- **Feasibility phase:** to develop virtual exercises simulating the operations of the new RI.



The final result of the project will be the
CDR to realize EPTRI

EPTRI in the RIs landscape: no duplication but cooperation



**Areas of collaboration with
existing biomedical Research
Infrastructures**

