

HORIZON 2020

IL NUOVO FRAMEWORK IN RICERCA E INNOVAZIONE

Università di Pisa, 15 novembre 2013

Aula Magna – Polo Fibonacci

Largo Pontecorvo 3

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Coordinatore Progetto **TRIMAGE**

(Health - Cooperation)



The genesis of a successful FP7 project



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Oggetto: **New FP7Health call**

Data: 10 febbraio 2012 13.11.14 GMT+01.00

A: George Loudos , Hans HERZOG , 6-TUM Sibylle Ziegler

- *The next FP7 health call has some interesting topics for us. I was particularly interested in this one:*
- HEALTH.2013.2.2.1-2: Development of **effective imaging tools** for diagnosis, monitoring and management of mental disorders.
- This topic invites researchers, industry and SMEs to **develop new or optimise existing imaging technologies, and validate their application to mental disorders by integrating imaging data with complementary knowledge** resulting from e.g. genomics, biomarkers, bioinformatics and **clinical data**.
- The goal is to increase our understanding of the patho-physiology of such disorders as well as to allow their **diagnosis at the pre-symptomatic stage or early during development, more accurate patient stratification and better measurement of disease progression**.
- Recently, the emerging field of molecular imaging, in which the tools of molecular and cell biology are being combined with state-of-the-art technology for non-invasive imaging, as well as several technical advances on other imaging technologies (such as advanced contrast agents and tracers) have opened new avenues for studying biological processes in the brain, as well as **diagnosing, monitoring and managing psychiatric diseases.**



The genesis of a successful FP7 project

- Funding scheme: **Collaborative Project** (small or medium-scale focused research project)
- **One or more proposals can be selected.**
- The requested EU contribution per project shall not exceed EUR 6 000 000
- Projects will only be selected for funding on the condition that the estimated EU contribution **going to industry including SME(s) is 30% or more** of the total estimated EU contribution for the project.
- **This topic is targeted to industry and SMEs as it demands a high level of industrial technology and technical expertise.** Such key expertise is well present in Europe, from large global corporations to small and medium-sized companies. The rationale behind the focus on psychiatric disorders is twofold: 1) to complete the **coverage of psychiatric disorders** that was started in earlier calls and 2) **to support the European Pact for Mental Health**. It should also be considered that neurological disorders have already been extensively covered in the past FP7 calls.
- **February 10, 2012**

BUILDING a consortium

Organize a Conference in a nice place...



PSMR 2012 - PET/MR and SPECT/MR: New Paradigms for Combined Modalities in Molecular Imaging

Make people relax and talk to each other...



COST meeting, May 30, 2012



BUILDING a consortium



- Department of Physics University of Pisa *



- Technological Educational Institute of Athens *



- Forschungszentrum Juelich GmbH *



- Technische Universität München *

Technology
(but not only...)

“Bringing together, not only knowledge but a complete research environment”

Clinical
experience



- JARA BRAIN, Department of Psychiatry, Psychotherapy and Psychosomatics, RWTH, Aachen



- Department of General and Social Psychiatry, University of Zurich

BUILDING a consortium



-Istituto Nazionale di Fisica Nucleare
-Sez. di Torino

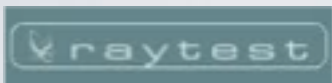


- AdvanSiD*

*COST members



- WeeROC



- Raytest GmbH



- RS2D

11 Partners

1 Coord Italy

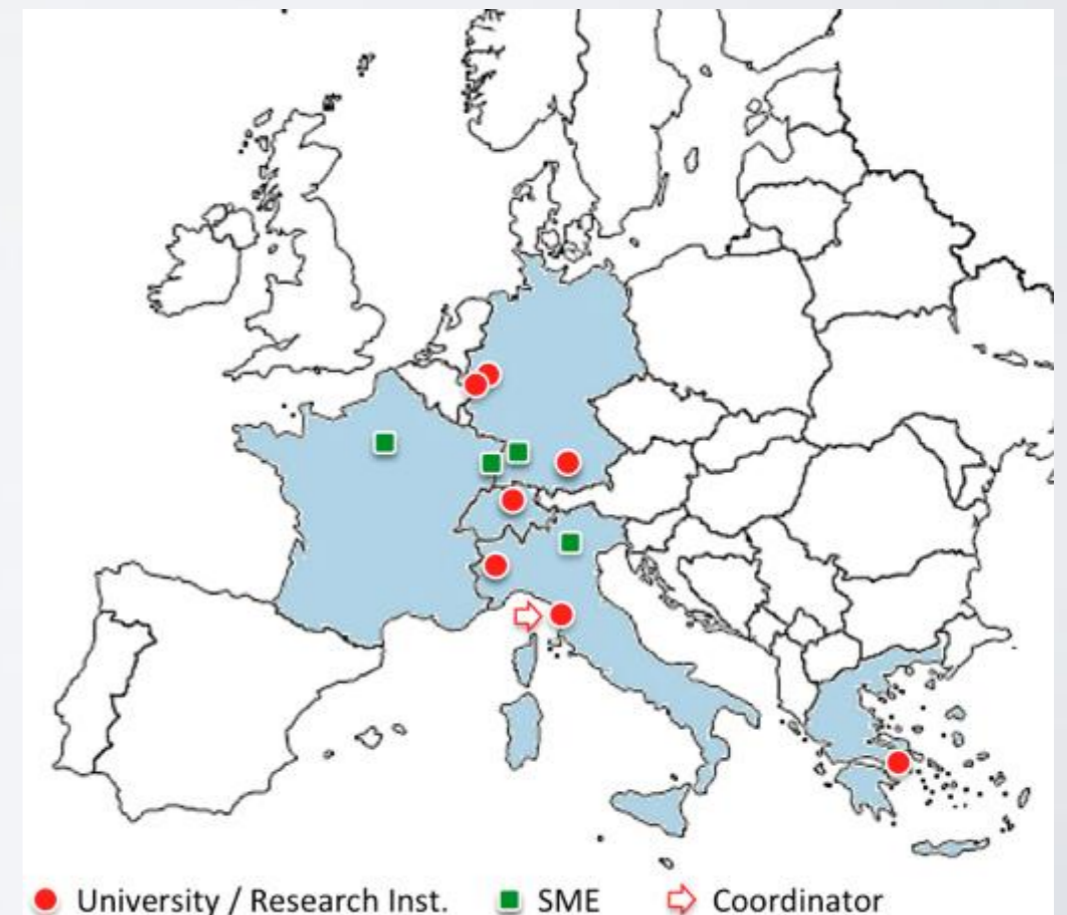
2 Italy

4 Germany

2 France

1 Greece

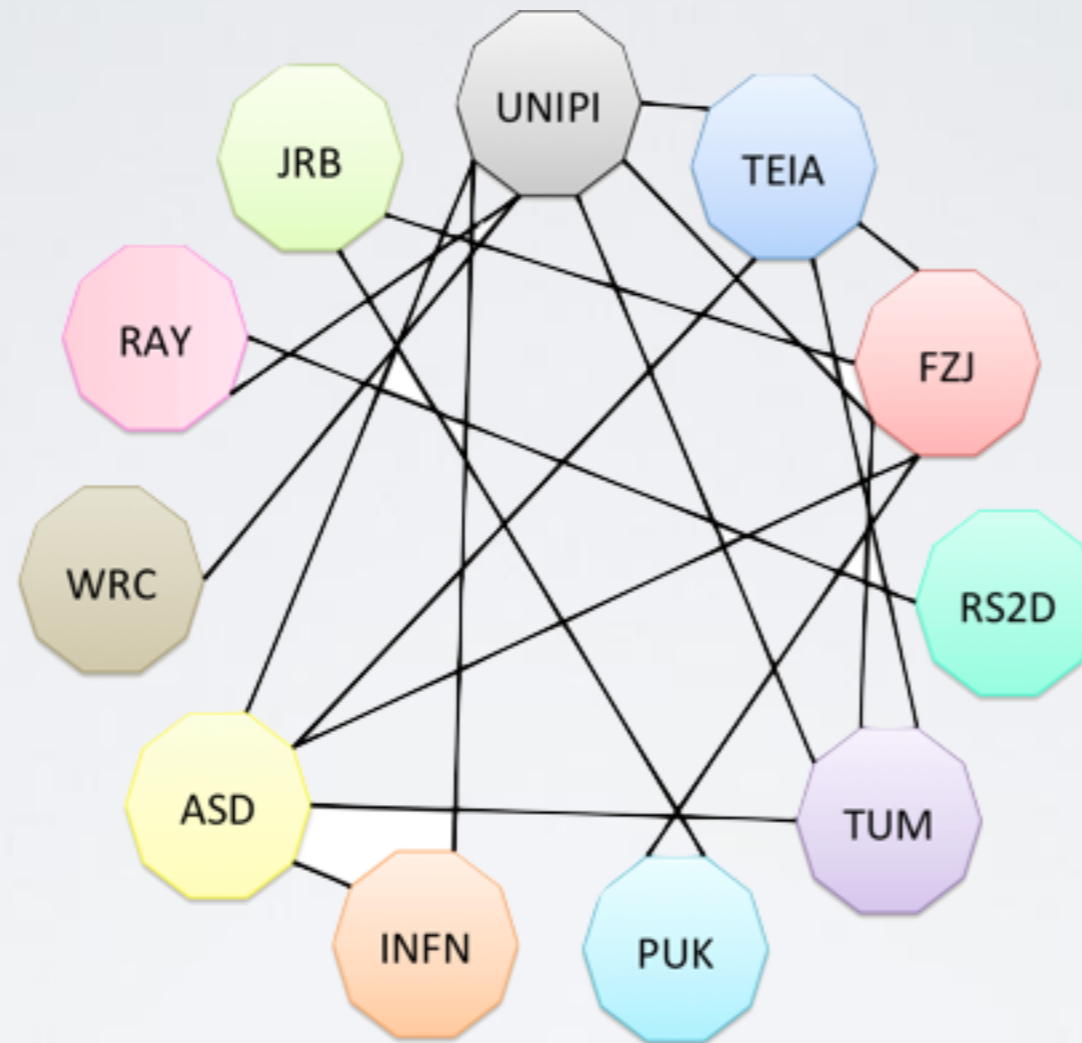
1 Switzerland



The Eleven Beneficiaries

1. UNIVERSITA' DI PISA (the Coordinator) (in short **UNIPI**)
2. TECHNOLOGICAL EDUCATIONAL INSTITUTION OF ATHENS (in short **TEIA**)
3. FORSCHUNGSZENTRUM JUELICH GMBH (in short **JÜLICH**)
4. UNIVERSITAETSKLINIKUM AACHEN (in short **AACHEN**)
5. KLINIKUM RECHTS DER ISAR DER TECHNISCHEM UNIVERSITAT MUNCHEN
(in short **TUM**)
6. UNIVERSITAET ZUERICH (in short **UZH**)
7. ISTITUTO NAZIONALE DI FISICA NUCLEARE (in short **INFN**)
8. Advansid SRL (in short **Advansid**)
9. WEEROC SAS (in short **Weeroc**)
10. raytest Isoopenmessgeraete GmbH (in short **raytest**)
11. RS2D (in short **RS2D**)

BUILDING a consortium



Aim of the project TRIMAGE

An optimised trimodality (PET/MR/EEG) imaging tool for schizophrenia

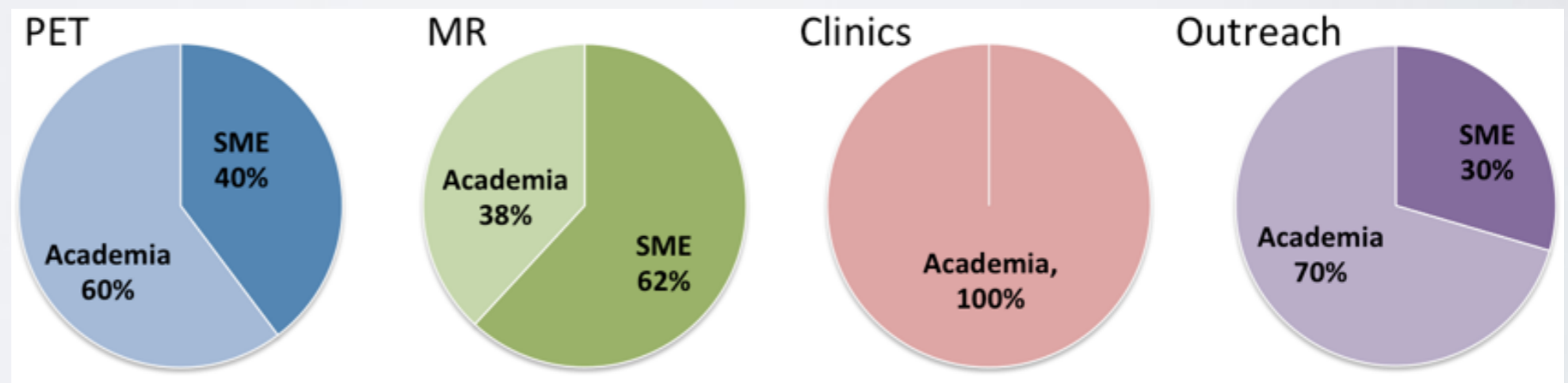
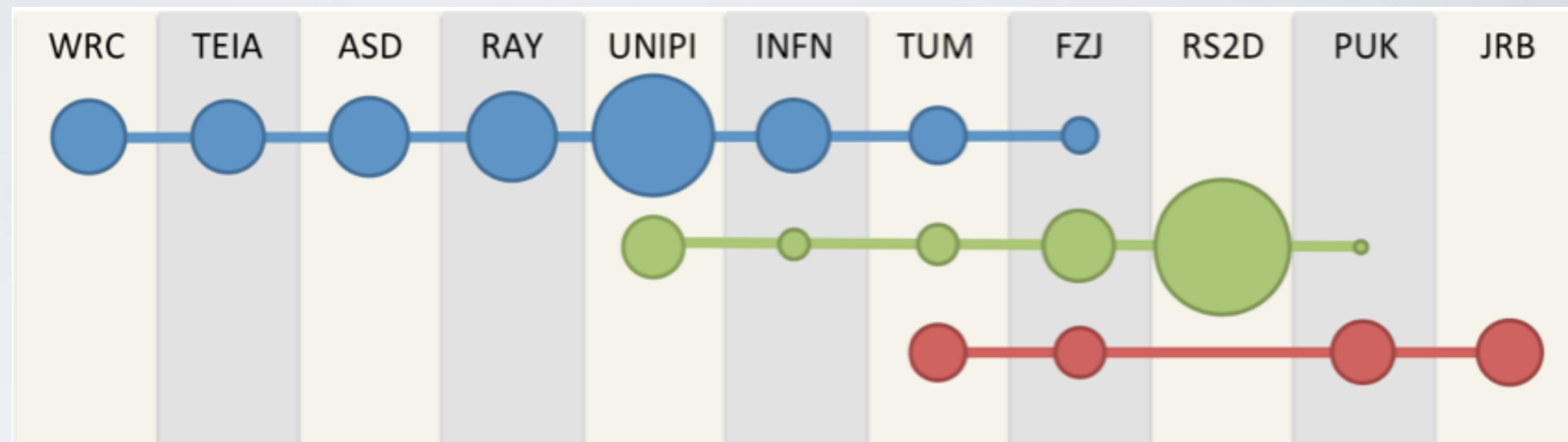
TRIMAGE aims to create a trimodal, cost-effective imaging tool consisting of PET/MR/EEG using cutting edge technology with performance beyond the state of the art.

The tool is intended for broad distribution and will enable effective early diagnosis of schizophrenia and possibly other mental health disorders.

Sharing competences and balance expertise

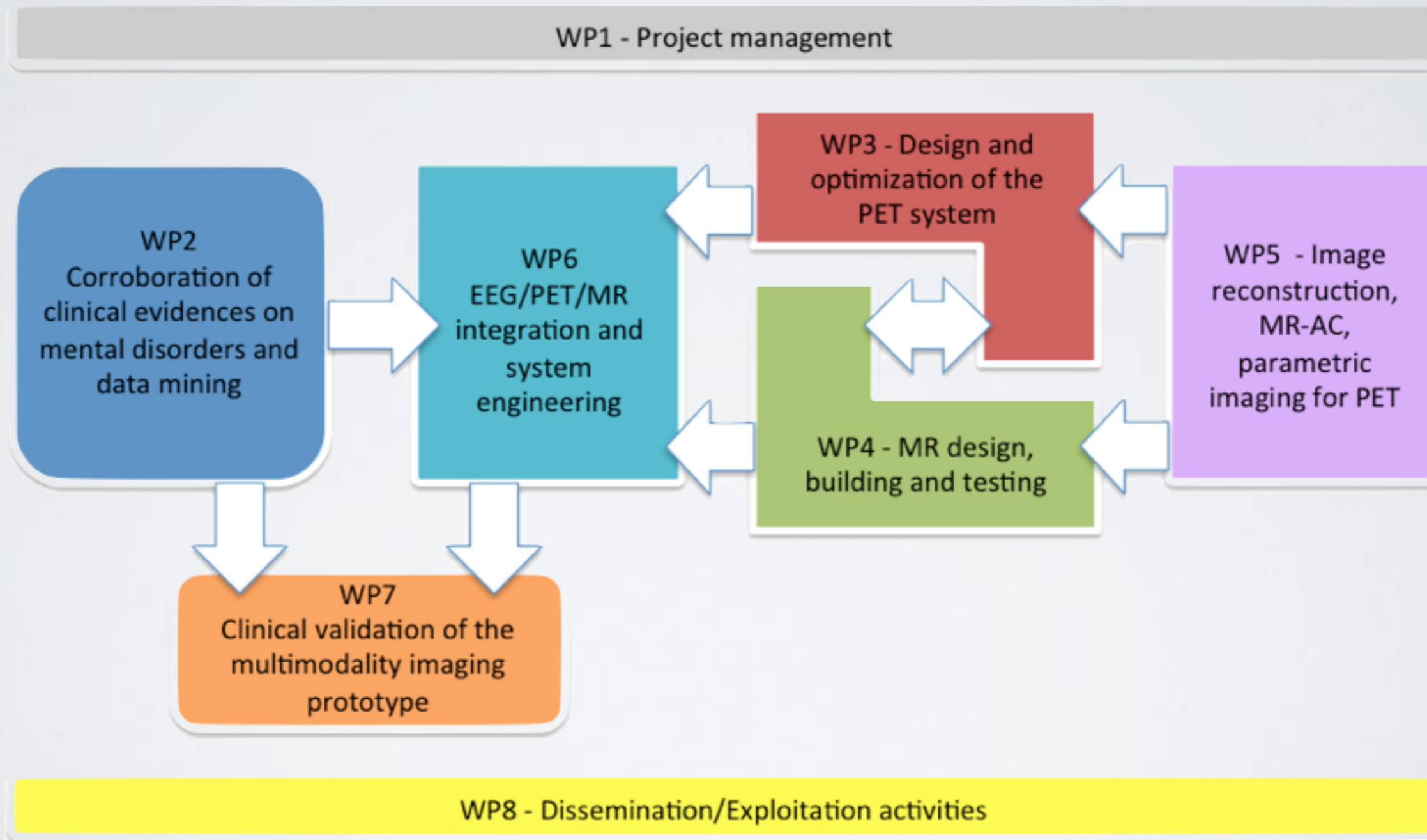


PET
MR
CLINICS



February 6, 2013 after passing the first stage of evaluation the project was submitted (**1 year of preparation**)

WPs entanglement



**WAITING FOR THE
RESPONSE.....**



After 2 months and ½ !!

E-mail of approval of the project: received April 23, 2013

Negotiation completed: July 2013

**Grant agreement signed by Commission:
3 September 2013**

Beginning of the project : **1 december 2013**

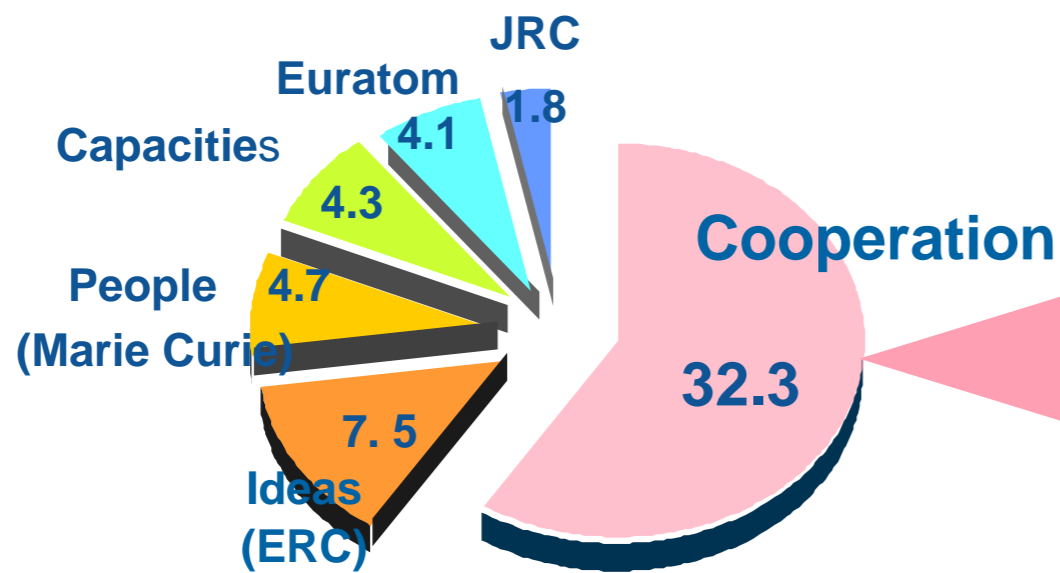
Kick-off meeting: **10-11 december 2013**

Duration: **4 years**

**A PRIORI
information
(partially known)**

Current EC health research activities

Total FP7 budget:
€ 54.6 billion
Health Priority in Cooperation:
€ 6.1 billion

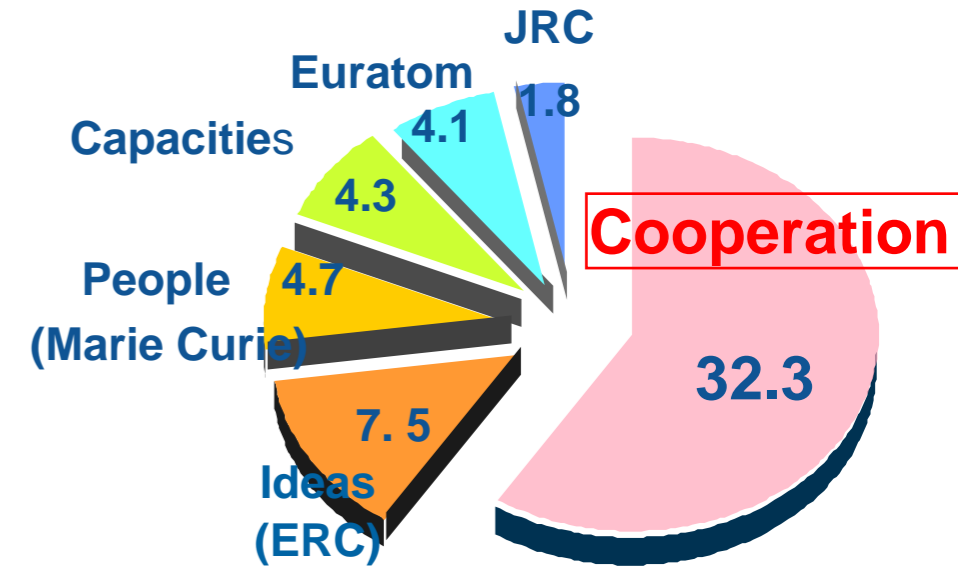
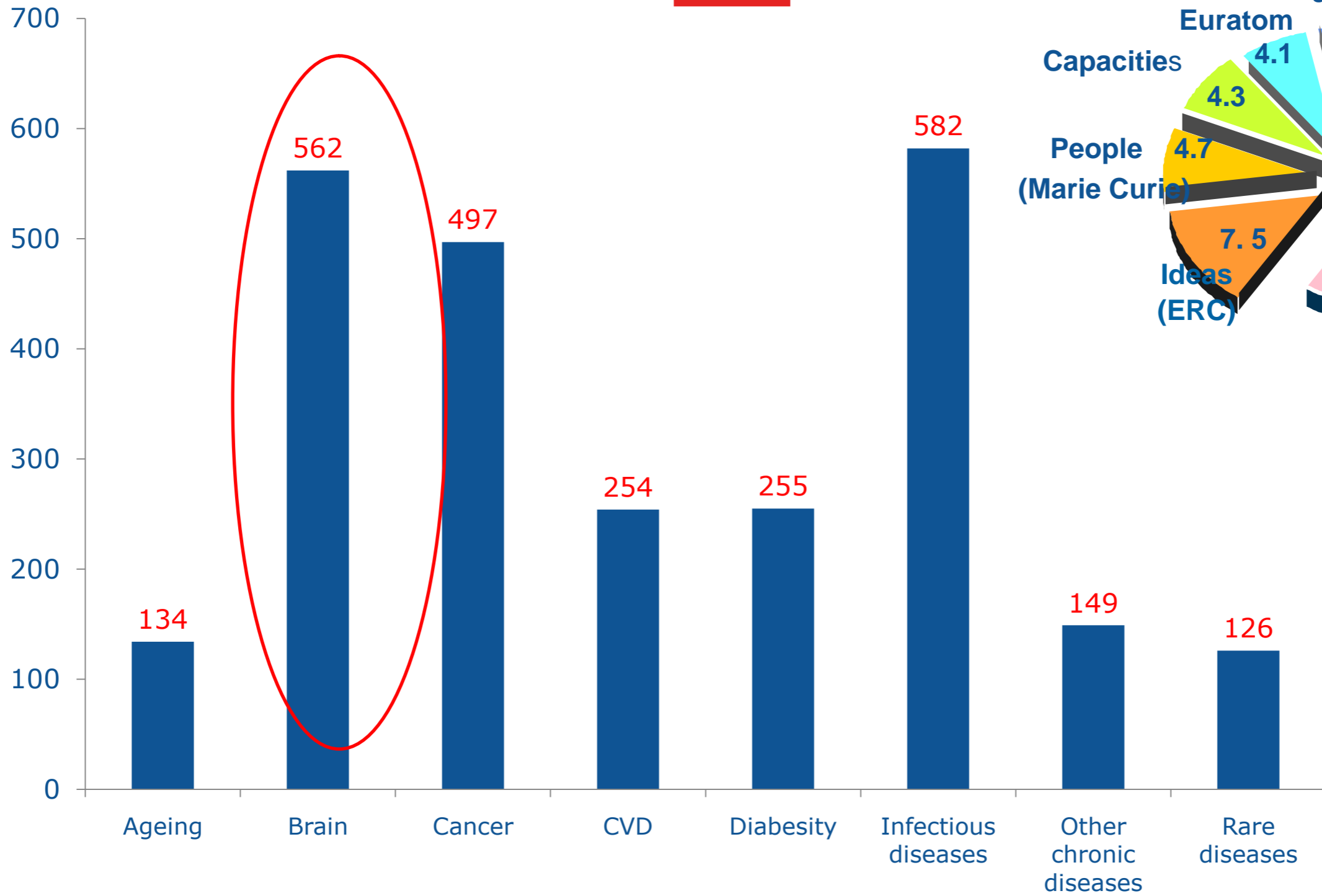



- Medical Research
- Large scale data gathering & Systems Biology
- Infectious Diseases
- Biotechnology, Tools and Technologies
- Public Health
- Innovative Medicines Initiative



Brain research supported by the European Union

What type of disease?



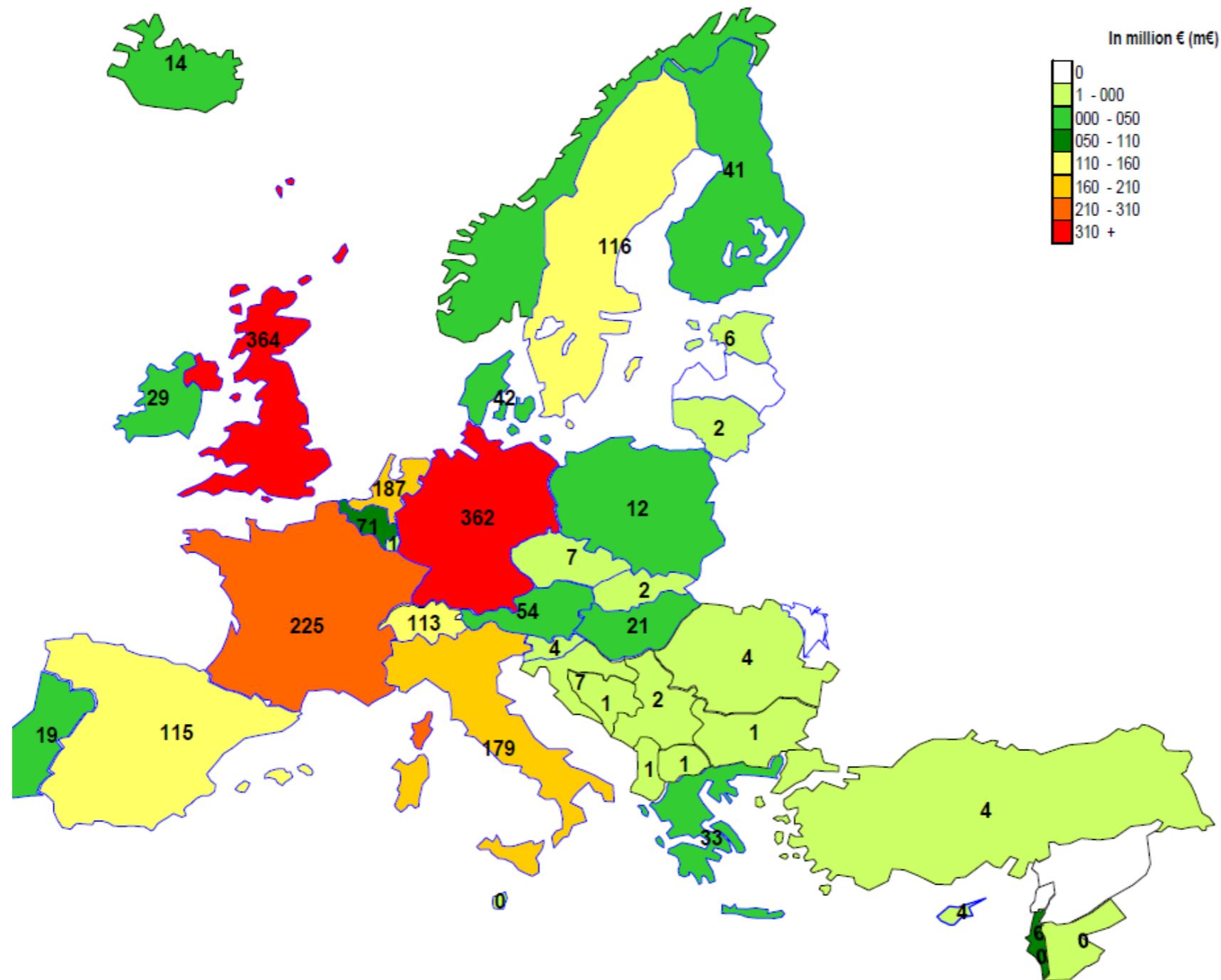
2,5 Billion Euro

Research and Innovation

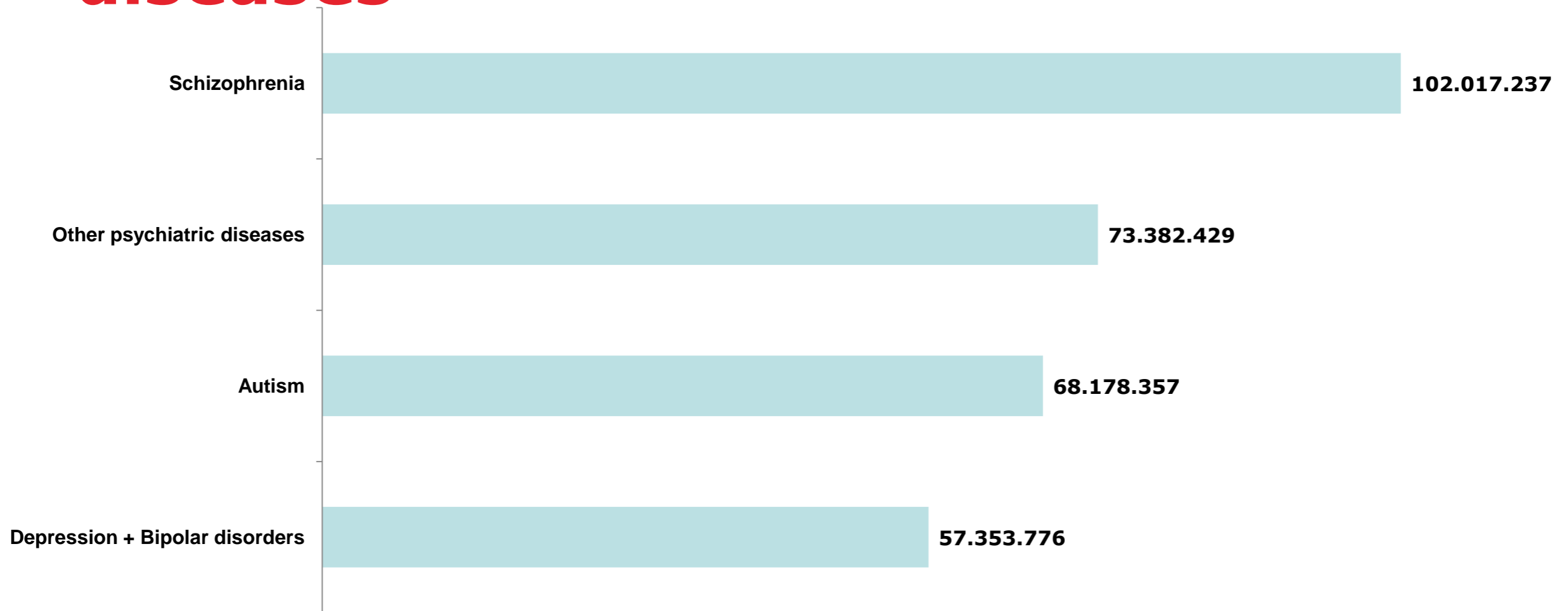


European
Commission

Contribution to EU27 and Associated countries



Overall FP7 funding support for research on neuropsychiatric diseases



A Posteriori Information

51 PROJECTS SUBMITTED

19 PROJECTS PASSED THE FIRST STAGE

7 PROJECTS APPROVED

TOTALE 40 MEURO

PRONIA - Personalised Prognostic Tools for Early Psychosis Management

BRAINTRAIN –IMAGING INTO THE THERAPEUTIC DOMAIN:

SELF-REGULATION OF BRAIN SYSTEMS FOR MENTAL DISORDERS

IMAGEMEND - IMAGING GENETICS FOR MENTAL DISORDERS

MINDVIEW - MULTIMODAL IMAGING OF NEUROLOGICAL DISORDERS

PSYSCAN - Translating neuroimaging findings from research
into clinical practice

METSY - NEUROIMAGING PLATFORM FOR CHARACTERISATION OF
METABOLIC CO-MORBIDITIES IN PSYCHOTIC DISORDERS

TRIMAGE - An optimised trimodality (PET/MR/EEG) imaging
tool for schizophrenia

EVALUATOR #1

- **At home – I level**

(original filter: one learns what to write and how to write)

- **At the consensus meeting –II level**

(real filter: one learns what parts of the proposal are the most-effective in the open discussion)

- **At the panel meeting - III and final level**

(trimming the decisions of the panel: no experience)

EVALUATOR#2

- Lobbying is important
- If you are known to the PO is relevant
- If you are known to the panel is relevant
- If you are shy and dont speak fluent English is.. useless to go
- Ethics of the evaluator is a must!
- **Number of submission necessary to learn?**