



## Esempi di progetti finanziati nell'ambito del PCP: «Progetto NYMPHA°»

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*Provincia autonoma di Trento*

*Direttore dei lavori/Implementation manager progetto NYMPHA*





Provincia  
Autonoma  
di Trento



*Next generation Mobile  
Platforms for HeAlth,  
in Mental Disorders.*



*Azienda Provinciale  
per i Servizi Sanitari  
Provincia Autonoma di Trento*



FONDAZIONE  
BRUNO KESSLER

**Objective ICT-2013.5.1 Personalised health, active ageing and independent living.  
d2) PCP on development of mobile eHealth services to empower patients and enable  
patient-centric care, using mobile devices and converging software platforms.**

# NYMPHA PROJECT CONCEPT





## NYPHA-MD

Project ID: 610462  
Funded under: FP7-ICT

### Next Generation Mobile Platforms for HeAlth, in Mental Disorders

From 2014-01-01 to 2017-09-30, ongoing project

#### Project details

**Total cost:**

EUR 2 570 168

**EU contribution:**

EUR 1 884 000

**Coordinated in:**

Italy

**Topic(s):**

ICT-2013.5.1 - Personalised health, active ageing, and independent living

**Call for proposal:**

FP7-ICT-2013-10 [See other projects for this call](#)

**Funding scheme:**

CPCSA - Combined Collaborative Project and Coordination and Support Action

#### Objective

NyMPHA project will define the framework of pre-commercial procurement for the provisioning of next generation services advocated for mental health treatment with a special focus on bipolar disorder based on the use of new technologies, open standards and open platforms. In particular, NyMPHA will focus on a first instance in identifying the different requirements involved in the structuring of mental health services with a focus on bipolar disorder treatment including medical, technological, patients, legal, ethical, policy, risk management and business-orientation needs in order to construct a reference model of service provisioning useful in different European contexts. This model will be utilized to produce a Call for Tender for the PCP aiming to provide a set of pilot experimentations implementing mobile ehealth services for bipolar disorder treatment in a real-world context.

#### Coordinator

CREATE-NET (CENTER FOR RESEARCH AND TELECOMMUNICATION EXPERIMENTATION FOR NETWORKED COMMUNITIES) Italy  
VIA ALLA CASCATA 56 D  
38100 TRENTO  
Italy  
**EU contribution:** EUR 185 241

REGION HOVEDSTADEN  
KONGENS VAENGE 2  
3400 HILLEROD  
Denmark

Denmark

**EU contribution:** EUR 171 307

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Administrative contact:** Lars Vedel Kessing  
Tel.: +45 38647081  
[E-mail](#)

CORPORACIO SANITARIA PARC TAULI  
Parc Tauli s/n  
08208 SABADELL  
Spain

Spain

**EU contribution:** EUR 136 115

**Activity type:** Research Organisations

**Administrative contact:** Anna Aguilar  
Tel.: +34937458489  
[E-mail](#)

PROVINCIA AUTONOMA DI TRENTO  
Piazza Dante 15  
38122 TRENTO  
Italy

Italy

**EU contribution:** EUR 1 374 420

**Activity type:** Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

**Administrative contact:** Diego Conforti  
Tel.: +0039 0461494064  
Fax: +0039 0461494159  
[E-mail](#)

FUNDACIO PARC TAULI  
PARC TAULI 1  
08208 SABADELL  
Spain

Spain

**EU contribution:** EUR 16 917

**Activity type:** Other

**Administrative contact:** Miriam Ors Giera  
Tel.: +34937458489  
[E-mail](#)

# HOW CAN INNOVATIVE MOBILE HEALTH SOLUTIONS MAY IMPROVE MANAGEMENT OF BIPOLAR DISORDER?



# GENERAL OVERVIEW — PROJECT MOTIVATION

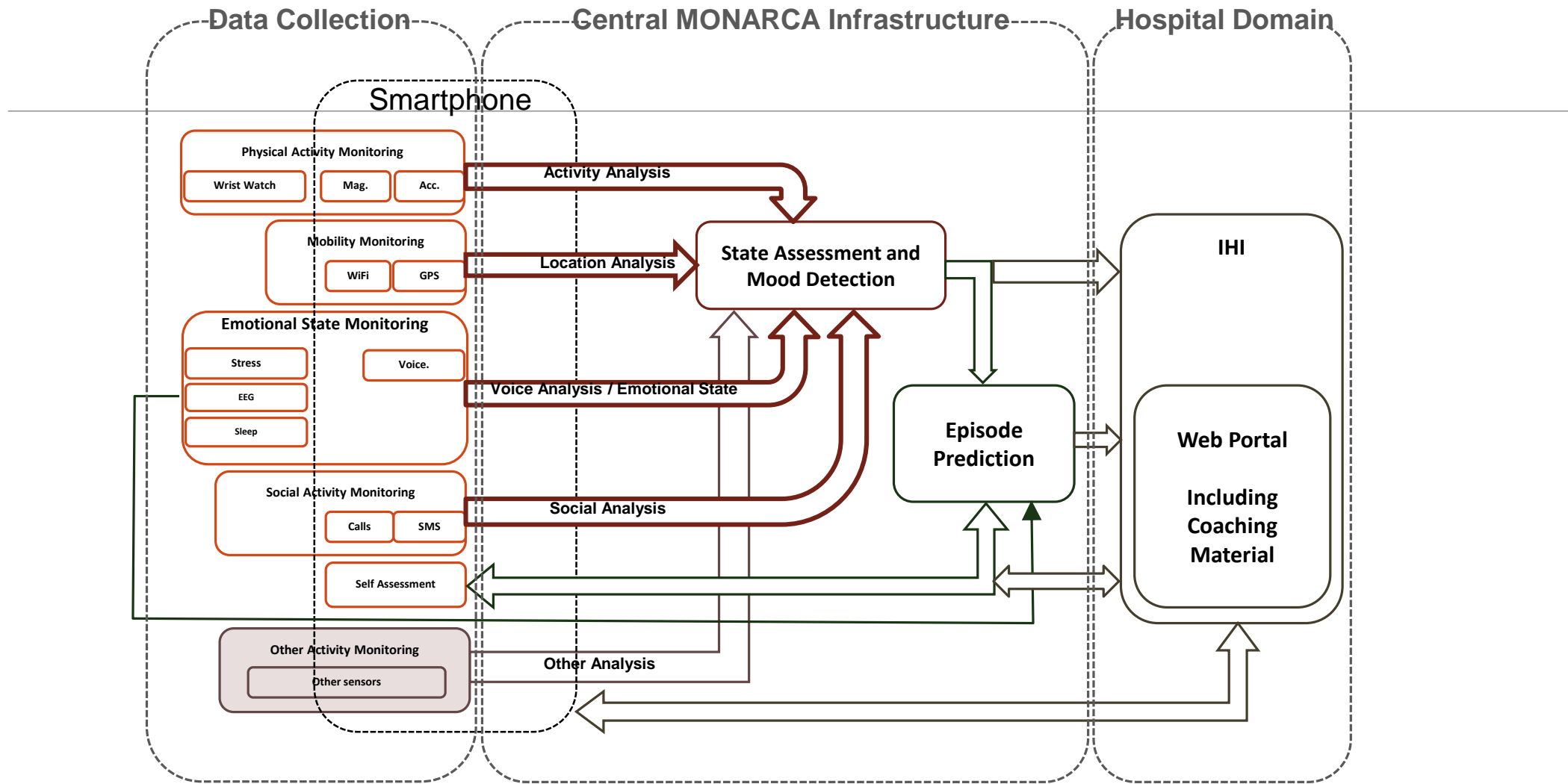
- Mental Health Facts and Challenge
  - Depression is leading cause of disability worldwide (2<sup>nd</sup> cause of disease burden of Disability Adjusted Life Years)
  - Bipolar Disorder incidence between 1-2% of population and 3<sup>rd</sup> among mental health diseases
  - Clear Social and Economic Impact in Market Economies Opportunity for EU Strategic Positioning on Mobile Health

*How can innovative mobile health solutions may improve management of bipolar disorder?*

# MOBILE HEALTH FACTS

- Studies on mobile phone applications in mental health have shown promising results;
- In the last few years, the **electronic self-monitoring** of the affective symptoms of bipolar patients, which involved the use of cell phones to prompt patients to respond to weekly text messages, was proposed as an easy and inexpensive way to monitor and **identify early signs of emerging affective episodes** so that providers could intervene shortly after the prodromal symptoms appeared;
- The number of electronic **platforms for monitoring of behavioural and physiological information (i.e. mood irritability, sleep, speech, and physical activity)** in the area of mental health, including bipolar disorder, is rapidly increasing.

# MONARCA SYSTEM ARCHITECTURE

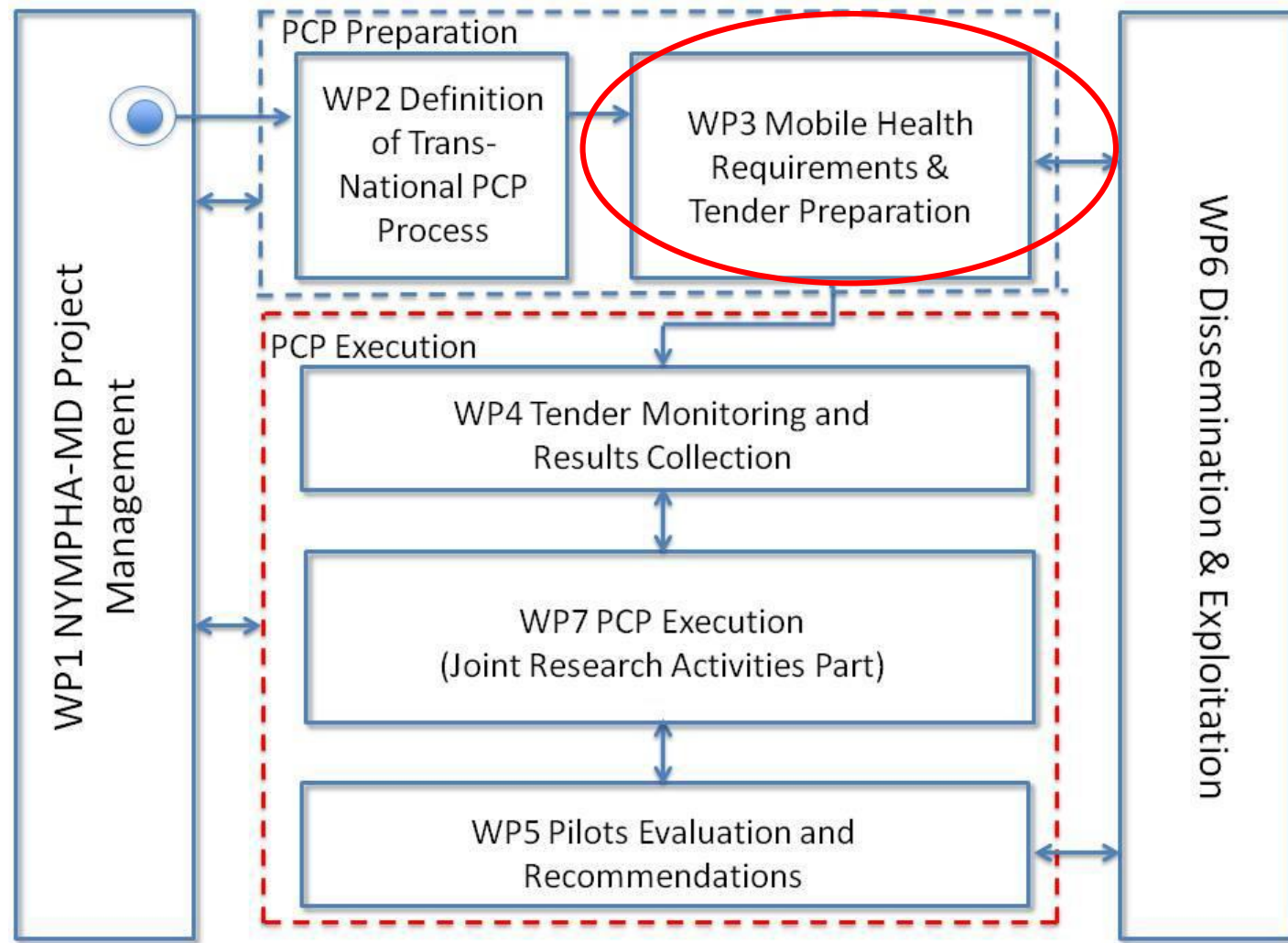




## BENEFICI DEL PROGETTO NYMHPA - PAT

- Partecipazione a sviluppo, implementazione e valutazione tecnico-scientifica di una tecnologia innovativa per l'assistenza al paziente bipolare
- Innovazione dell'assistenza psichiatrica e contestuale valorizzazione di pratiche di empowerment in essere e riconosciute a livello nazionale e internazionale (utenti e familiari esperti del Servizio di salute mentale di Trento)
- Continuità con precedenti esperienze progettuali partecipate da soggetti di ricerca e sanitari attivi nel servizio sanitario provinciale
- Valorizzazione di competenze e sinergie locali in tema di gestione degli appalti pre-commerciali

# PROJECT IMPLEMENTATION



# MOBILE HEALTH REQUIREMENTS

## ESIGENZA E REQUISITI FUNZIONALI

### Requirements Identification for the Development of a Design Involving Adaptive ICTs for Supporting Bipolar Disorder Treatment in Different Healthcare Contexts

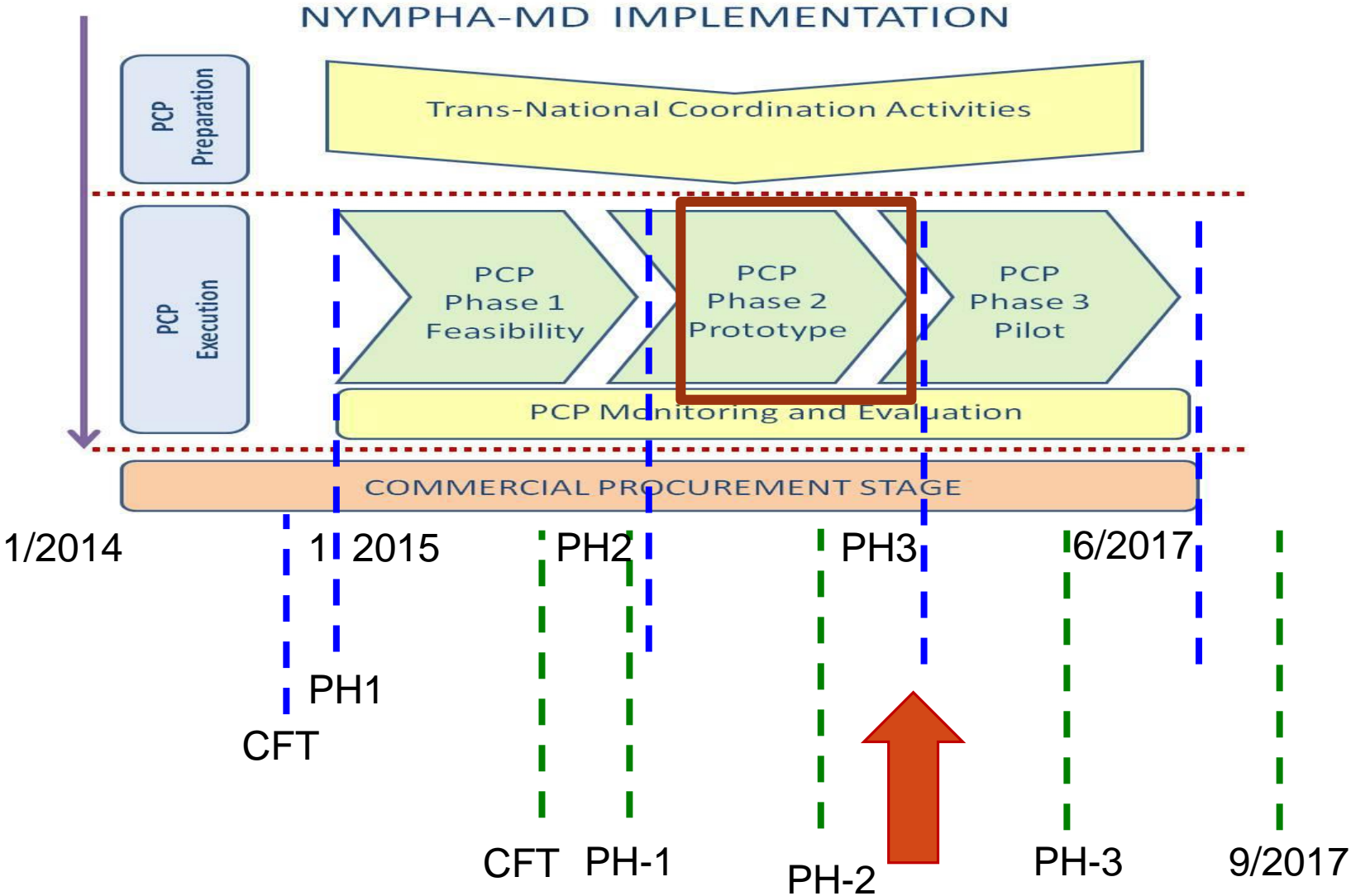
Emanuele Torri  
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Oscar Mayora  
CREATE-NET, Italy  
omayora@create-net.org

Jesus Cobo, Diego Palao  
CSPT, Spain  
(jcobo, dpalao)@tauli.cat

*Abstract*—This paper presents the patient and caregiver perspectives on ICTs (information and communication technologies) supporting bipolar disorder management in multinational healthcare provisioning contexts. The envisioned mHealth (mobile health) solutions should incorporate general requirements that can be instantiated into different clinical settings. The involvement of users in designing new technologies for mental health is crucial in ensuring patient empowerment and the patient-centeredness of services. We conducted focus groups to understand user needs, attitudes, and experiences with regard to the supportive ICTs in the two target regions where the expected solutions will operate. The survey results provided valuable inputs for the formulation of the clinical requirements for the development of a transnational call for tender concerning mHealth solutions aimed at supporting treatment for bipolar disorder. This tender was open to public purchasers in different European countries. The study was part of the NYMHPA-MD (Next Generation Mobile Platform for Health in Mental Disorders) project, which was co-funded by the European Commission.

# PROJECT PLANNED / ACTUAL IMPLEMENTATION



# PROJECT STATUS

- Phase 1: 9 Applicants from three countries (2 late)
  
- Successful bidders to Phase 1 (3 instead of 4):
  - TRILOGIS SRL, Italy
  - PULSO EDICIONES SL, Spain
  - CARESTAR: FUNDACION TECNIKER + BILBOMATICA, Spain
  
- Phase 1 Concluded Satisfactorily with three Feasibility Studies

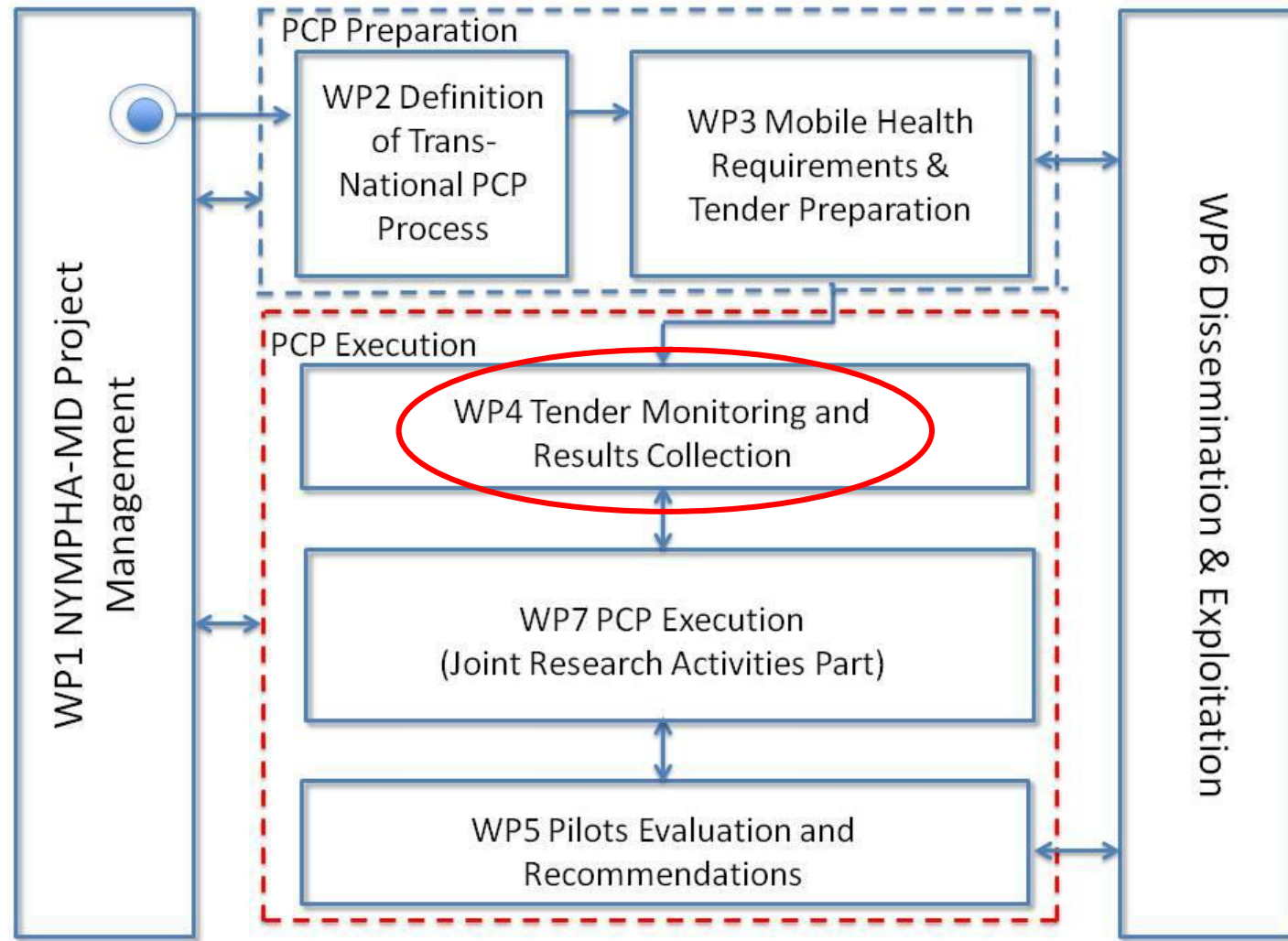
SEPTEMBER 2017

# PROJECT STATUS

- Successful bidders to Phase 2 (20 Feb. – 20 July)
  - TRILOGIS SRL, Italy
  - PULSO EDICIONES SL, Spain
  - CARESTAR: FUNDACION TECNIKER + BILBOMATICA, Spain
  
- End of Phase 2 (July 28<sup>th</sup>)
  - Phase 2 closed.....Invitation to phase 3 (July 31st)
  - Evaluation performed in the second half of September (underway...)
  - Contracts signed by mid October

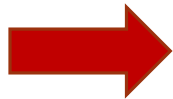
SEPTEMBER 2017

# PROJECT IMPLEMENTATION



# WP 4 – TENDER MONITORING ACTIVITIES

- Ethical Commission Preparation
- Planning for Phase 3 Timeline



July 2017	Submission and evaluation of the prototype for the innovative solution proposed and preliminary tests
August 2017	Sending of the letter of invitation for Phase 3
September 2017	Deadline for the presentation of bids
September 2017	Nomination of the tender committee, checking of administrative documentation and nomination of the technical committee
September 2017	Evaluation of the technical bids
October 2017	Award and signing of the implementation document for the phase
October 2017 - February 2018	Experimentation of a limited number of prototypes in the three health structures
February 2018	Evaluation of the final report



# SWOT NYMPHA – PAT

## Forza:

- Investimento in settore innovativo e strategico – disseminazione di conoscenze
- Efficacia della partnership internazionale nell'ambito del consorzio
- Analisi dei bisogni e definizione delle specifiche e degli indicatori del Tender, condivisa e partecipata da tutti gli attori

## Debolezza:

- **Aspetti legali - allineamento tra richieste EU con norme italiane; regolamentazione sperimentazione di fase III**
- **Rispetto tempi – time management**
- **Open market consultation – contatto tra main procurer e aziende**

## Opportunità:

- Consolidamento reti transregionali e transnazionali, istituzionali tra procurer e imprese – approccio multiregionale
- Sviluppo di PPI al termine del PCP
- **Implementazione delle soluzioni prodotte mediante metodi e strumenti specifici di gestione dell'innovazione in sanità (Health Technology Assessment)**

## Minacce:

- **Possibili differenze di applicazione della normativa in tema di sperimentazione delle soluzioni proposte fra i Paesi**
- Rapporto rischi/benefici – sostenibilità complessiva
- Governo dell'innovazione ICT in un settore (salute mentale) a bassa penetrazione tecnologica

## International Workshop en Compra Pública de Innovación

Barcelona, jueves 4 de mayo de 2017, de 10:00 a 13:30h.

Fira Barcelona

Recinto de Montjuïc | Av. de la Reina M<sup>a</sup> Cristina, s/n - Barcelona

Date 04.05.2017 - 04.05.2017

Time 10:00 a.m. - 13:30 p.m.



# HEALTHIO

Where Patients, Innovation  
and Healthcare Systems Meet



## Preprogramme

10:00 h. Welcome

Mr Toni Dedeu. Director of AQuAS. Agency for Health Quality and Assessment of Catalonia

10:10 h. Round table: Public Procurement of Innovation: do we have the right tools? Review of cases

Moderated by: Mr Toni Dedeu. Director of AQuAS. Agency for Health Quality and Assessment of Catalonia

Mr Richard Deed. TRUSTECH – North West England

Mrs Doris Scheffler. ZENIT GmbH. - State of North Rhine-Westphalia

Mr Emanuele Torri. Provincia Autonoma di Trento – Trentino Alto Adige

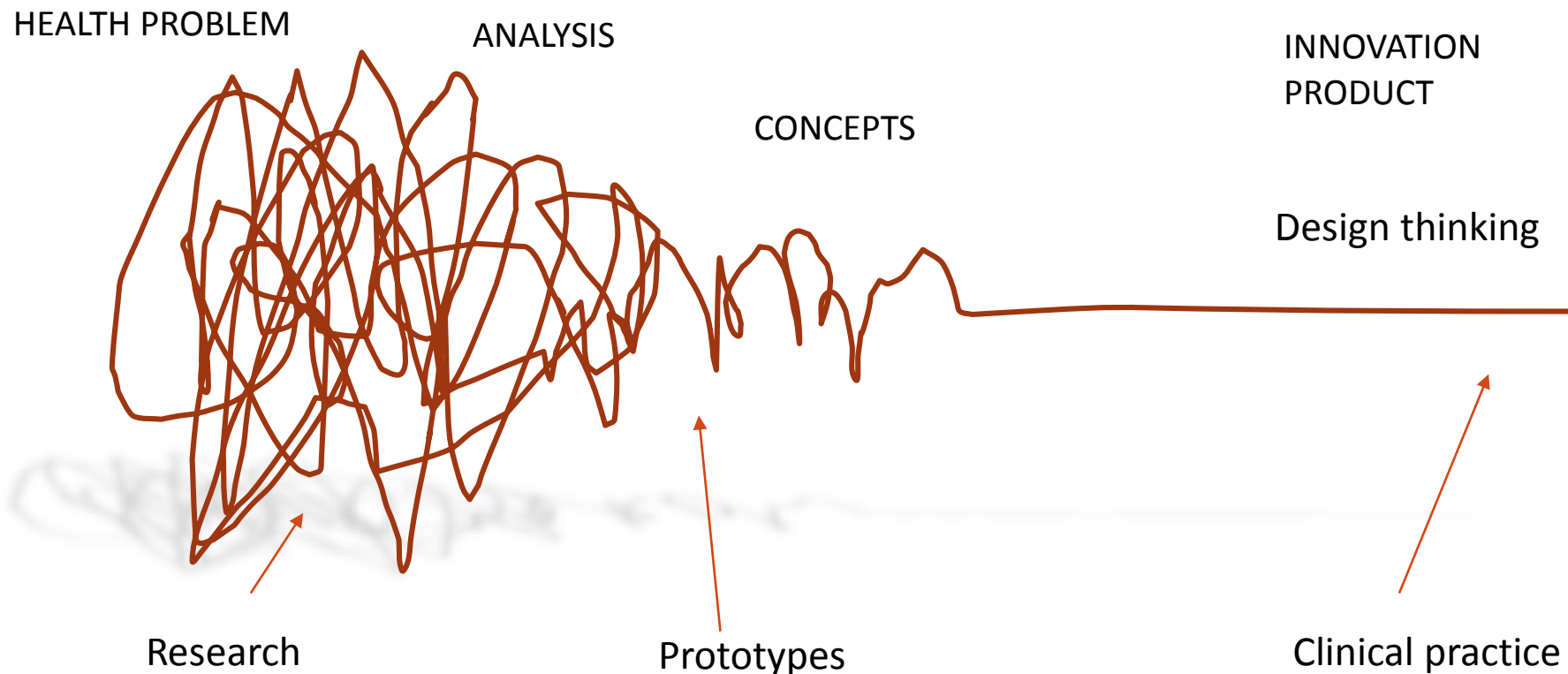
11:10-11:30 h. *Coffee-Break*

11:30h-13:00h. Round table: Public Procurement of Innovation: political, economical and legal instruments to foster its adoption

Moderated by: Mrs Carmen Laplaza-Santos. Deputy Head of Unit “eHealth, Wellbeing and Ageing”. DG Connect. European Commission.

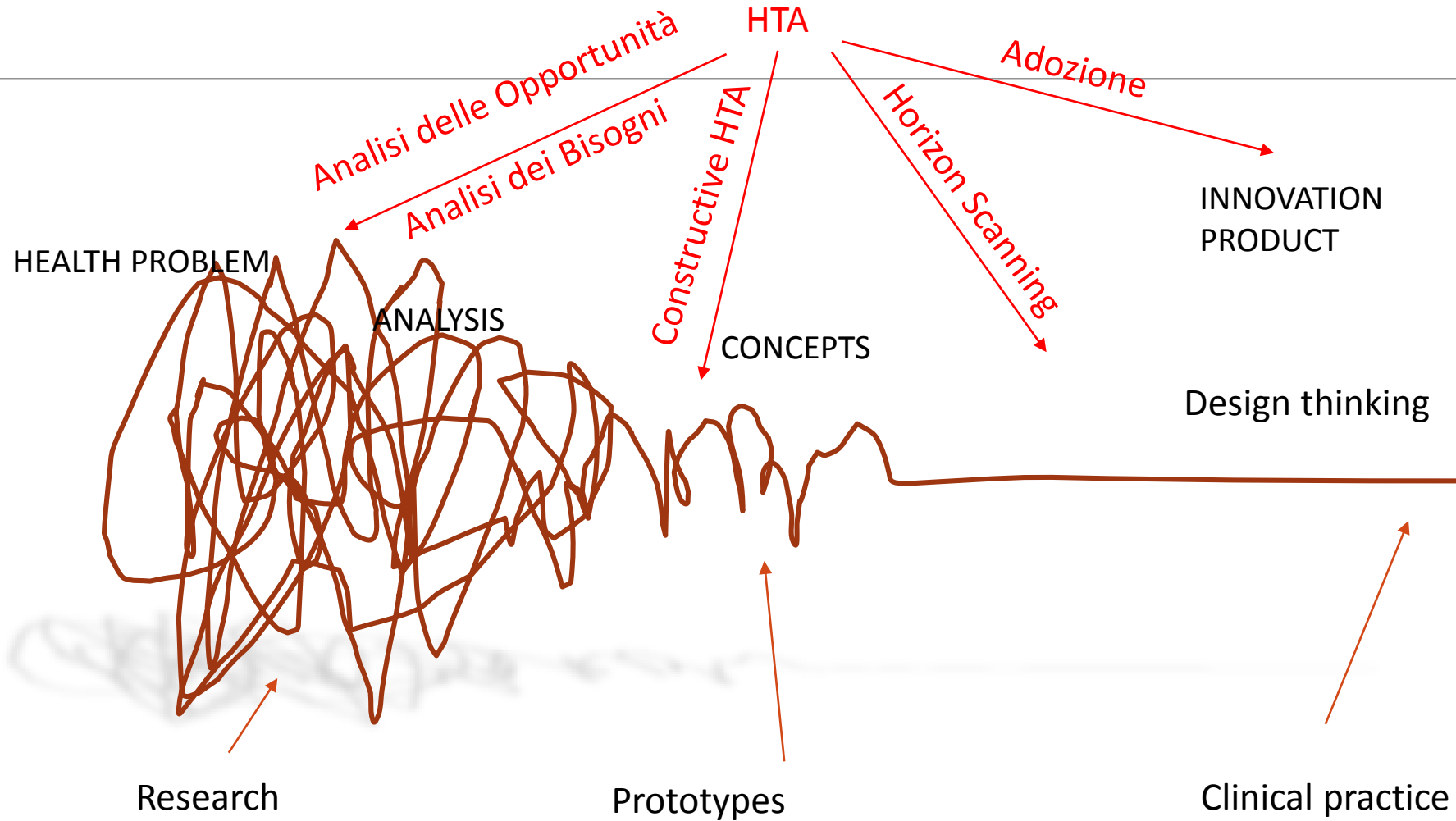
Mr Ramón González Carvajal. Secretario General de Innovación, Desarrollo e Investigación de la Consejería de Salud y Consumo de Andalucía

# IN CHE MODO INDIRIZZARE L'ADOZIONE DELLE TECNOLOGIE INNOVATIVE E DI VALORE?



**Il lungo processo dell'Innovazione**

# IL LUNGO PROCESSO DELL'INNOVAZIONE



**ANTI-SUPERBUGS PCP****Project ID:** 688878**Funded under:**

H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

**ANTI-SUPERBUG Precommercial procurement****From** 2016-09-01 **to** 2020-08-31, ongoing project**Project details**

<b>Total cost:</b> EUR 5 712 300	<b>Topic(s):</b> ICT-36-2015 - Pre-commercial procurement open to all areas of public interest requiring new ICT solutions
<b>EU contribution:</b> EUR 3 998 548,75	<b>Call for proposal:</b> H2020-ICT-2015 <a href="#">See other projects for this call</a>
<b>Coordinated in:</b> Spain	<b>Funding scheme:</b> COFUND-PCP - COFUND (PCP)

**Objective**

Infections caused by resistant microorganisms often fail to respond to the standard treatment, resulting in prolonged hospital stays, higher health care expenditures, and a greater risk of death.<sup>1</sup> Antimicrobials Resistant Organism (AMRO) or Superbugs are invisible, and can survive on surfaces for up to three days. That means that they can be transferred when one infected person simply touches another, or when the patient touches something on which the pathogen resides like a stethoscope or a TV remote control.<sup>2</sup> Antibiotic resistance varies according to geographic locations and is directly proportional to the use and misuse of antibiotics. Active surveillance systems are in place across all European member states and Norway and are to be considered one of the main contributing factors to the reduction AMRO infections over the years. On the other hand the effort done up to now is not enough to eradicate AMRO/superbugs infections and ANTI-SUPERBUGS PCP will challenge the industry to develop solutions that in contact with resistant microorganisms can detect their presence and give real-time feedback to the user and at the same time share the information with the healthcare provider electronic record systems linking the infection with the place of the detection. The project will be developed with the support of Sara Bedin, who will provide her know-how in Procurement in Innovation.

**Coordinator**

AGENCIA DE QUALITAT I AVALUACIO SANITARIES DE CATALUNYA  
CALLE ROC BORONAT 81 95 2 PISO  
08005 BARCELONA  
Spain

Spain

**EU contribution:** EUR 3 106 293,75**Activity type:** Research Organisations

INSTITUT CATALA D'ONCOLOGIA  
AVDA. Gran Via KM 2,7 S/N  
08907 HOSPITALET DEL LLOBREGAT, BARCELONA  
Spain

Spain

**EU contribution:** EUR 166 687,50**Activity type:** Research Organisations

SP SVERIGES TEKNISKA FORSKNINGSIKSTITUT AB  
BRINELLGATAN 4  
501 15 BORAS  
Sweden

Sweden

**EU contribution:** EUR 77 875**Activity type:** Research Organisations

UNIVERSITAETSKLINIKUM AACHEN  
Pauwelsstrasse 30  
52074 AACHEN  
Germany

Germany

**EU contribution:** EUR 166 731,25**Activity type:** Higher or Secondary Education Establishments

SHEFFIELD TEACHING HOSPITALS NHS FOUNDATION TRUST  
BEECH HILL ROAD 8  
S10 2SB SHEFFIELD  
United Kingdom

United Kingdom

**EU contribution:** EUR 166 731,25**Activity type:** Research Organisations

PROVINCIA AUTONOMA DI TRENTO  
Piazza Dante 15  
38122 TRENTO  
Italy

Italy

**EU contribution:** EUR 224 980**Activity type:** Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

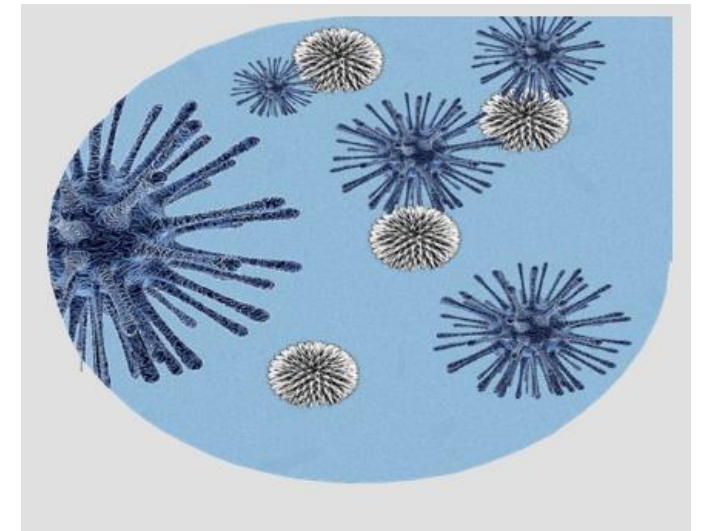
BEDIN SARA  
VIA AMERIGO VESPUCCI 11 FABBRICATO 2  
20093 COLOGNO MONZESE MI  
Italy

Italy

**EU contribution:** EUR 89 250

# RUOLO DELLA PROVINCIA AUTONOMA DI TRENTO IN ANTISUPERBUGS

- Procurer
- WP7 Leader – *Buyer Group Networking, awareness building and project results dissemination*
- Supporto a tutti gli altri WPs



**PRO.M.I.S.**  
Programma Mattone Internazionale Salute

**21 Settembre 2017**

**EVENTO INFORMATIVO**  
"L'uso strategico degli appalti  
innovativi in sanità: PCP e PPI  
quali opportunità di finanziamento"

**ROMA**



PROVINCIA AUTONOMA DI TRENTO

**TRENTINO**

**Emanuele Torri**

DIRIGENTE MEDICO

**Dipartimento Salute e solidarietà sociale**

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**Esempi di progetti finanziati nell'ambito del PCP: «Progetto NYMPHA»**