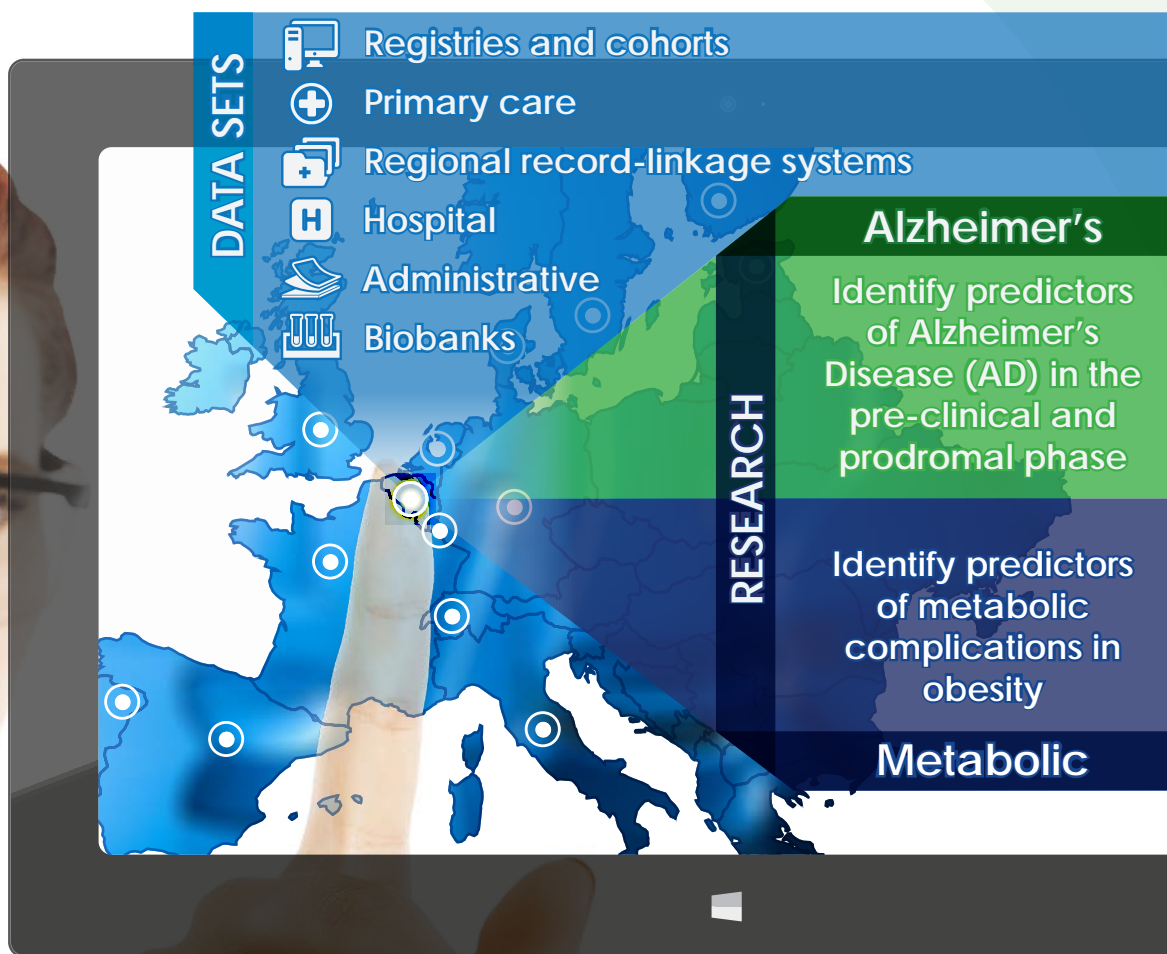




European Medical Information Framework

IMPROVING ACCESS TO HUMAN HEALTH DATA



www.emif.eu



EMIF Mission

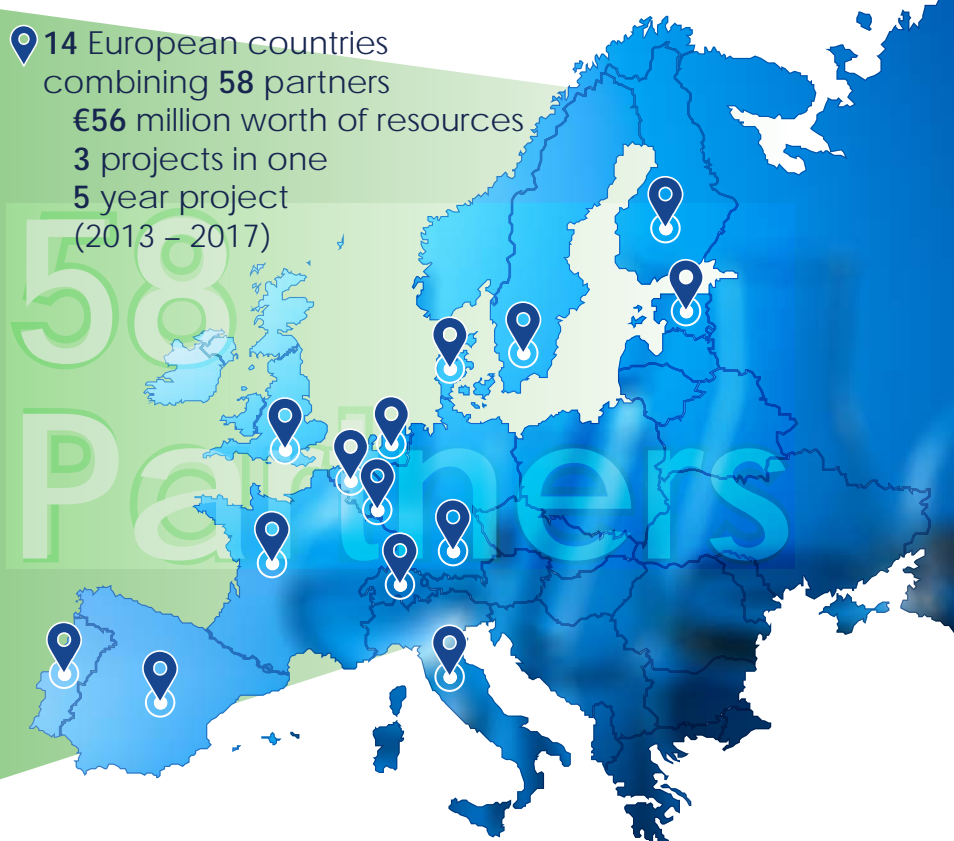
The EMIF project aims to increase access to human health data improving life sciences research and bringing better and safer medicines to patients.

BUILDING TOOLS AND WORKFLOWS TO SUPPORT
DISCOVER ASSESS REUSE

Project Overview

ACADEMIC PARTNERS 38	
SME PARTNERS 9	
EFPIA PARTNERS 10	
PATIENT ORGANISATION 1	

14 European countries combining 58 partners
€56 million worth of resources
3 projects in one
5 year project (2013 – 2017)



Project Objectives

Develop a framework for evaluating, enhancing and providing access to human health data across Europe, support EMIF-Metabolic and EMIF-AD as well as support research using human health data in general



EMIF-Metabolic

Identify predictors of metabolic complications in obesity



EMIF-Platform



EMIF-AD

Identify predictors of Alzheimer's Disease (AD) in the pre-clinical and prodromal phase

EMIF General Achievements

Dissemination

- ✓ **71 scientific publications** published 2013–2015
- ✓ **119 public presentations** orated on EMIF 2013–2015
- ✓ **20 posters presented** at conferences 2013–2015

Collaboration

- ✓ Close **collaboration** with OHDSI initiative on common data model and analytical toolset
- ✓ Collaboration and **partnering** with other IMI-projects: EPAD, EHR4CR, ADVANCE, eTRIKS...
- ✓ **Sharing** of tools with Dementias Platform UK

EMIF-Platform

Tool Development

- ✓ Key tool developed—**EMIF Catalogue** as data “shop window” to support the platform architecture, also being utilised by other initiatives (DP-UK, EPAD)
- ✓ **Workflow, data extraction, harmonisation and aggregation software** developed and being used to support several studies as use cases for research process

Common Data Model

- ✓ Piloting the **OMOP common data model** in the platform databases to assess its potential towards data harmonization

Biomarker Discovery

- ✓ Dedicated **tranSMART** implementation and analysis tools to support biomarker discovery in EMIF-AD and EMIF-Metabolic

EMIF-AD

Tool Development

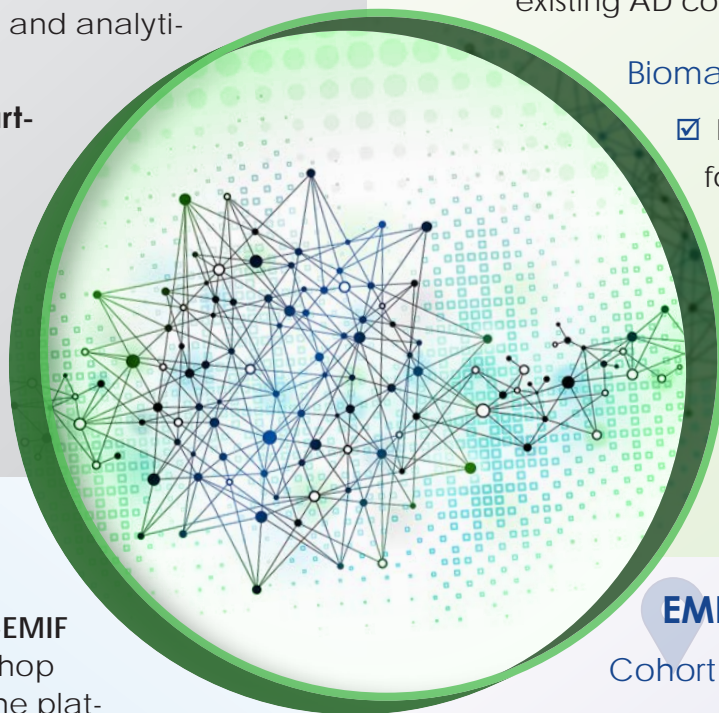
- ✓ Tools developed to support data suitability via **cohort selection and patient profile selection** for research queries

Cohort Development

- ✓ Establishment of **large sample sets** (500–1000 samples) for biomarker discovery in EMIF-AD by **re-using data** and samples of existing AD cohorts spread over Europe

Biomarker Discovery

- ✓ Multi-modal approach for biomarker discovery developed that will be **applied in several (sub) populations**, ranging from healthy controls over mild cognitive impairment to AD dementia



EMIF-Metabolic

Cohort Development

- ✓ Molecules related to insulin secretion capacity, insulin resistance and NAFLD identified in -omics biomarker discovery programme, currently undergoing validation in a sample set of **6000 individuals**

Natural History

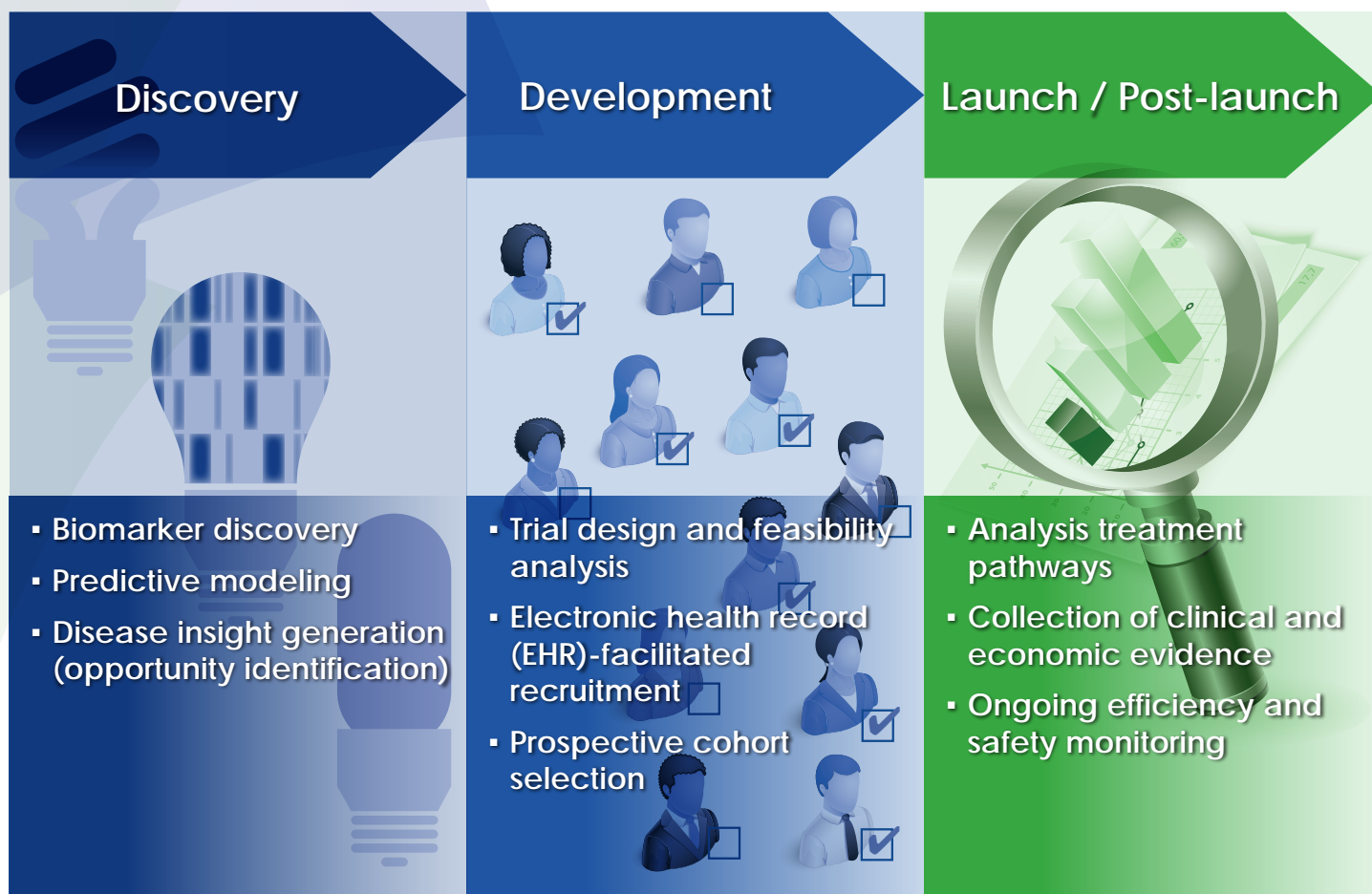
- ✓ Analysis of EFPIA collaboration **accessing placebo clinical trial data** completed

Discovery

- ✓ Potential **new therapeutic target for NAFLD/NASH** under investigation in Platform databases

Why EMIF is Needed

Potential Applications for Real World Data in Drug Development



The research performed in this project receives support from the Innovative Medicines Initiative Joint Undertaking under EMIF grant agreement n° 115372.

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