Detect, Predict, Prevent: Using Digital Technologies to Tackle Brain Disorders

Pierre Meulien
Executive Director
Innovative Medicines Initiative (IMI)
IMI – Europe’s partnership for health

**IMI1: 2008-2013**
- €2 bn budget
- 59 projects

**IMI2: 2014-2020**
- €3.3 bn budget
- More ambitious
- More open
- Greater scope

**Partnership 2008 - 2020**
- EU
- EFPIA
- €2.5 bn
- > €5 bn
IMI action on neurodegeneration

Remote Assessment of Disease and Relapse Programme (RADAR)

Big Data for Better Outcomes Programme (BD4BO)

Data Quality Consortium
Dementia

46.8 million people living with dementia
doubling every 20 years... reaching 74.7 million in 2030

...and 131.5 million in 2050

http://www.worldalzreport2015.org
Depression

300 million people suffering from depression

At its worst, depression can lead to suicide.

Close to 800 000 people die due to suicide every year.

Suicide is the second leading cause of death in 15-29-year-olds.

http://www.who.int
BIG health data

Genomic data

Population registries, Clinical trials databases

Care pathways, decision support, trends and alerts

Environmental data

Bio-sensors

Social networks

Mobile devices

Clinical applications
Detect, Predict, Prevent: Using Digital Technologies to Tackle Brain Disorders

- **Chuck McClatchey** | National Early-Stage Advisor, Alzheimer’s Association
- **David Mohr** | Professor of Preventive Medicine, Northwestern University, Feinberg School of Medicine
- **Nelson Freimer** | Director of the Depression Grand Challenge (DGC), UCLA
- **Husseini K. Manji** | Global Therapeutic Head, Neuroscience, Janssen Research & Development