



JPND / Jpco-fuND Symposium
27 – 28 November 2019
Brussels



Joint Programming in Neurodegenerative Disease Research (JPND)

Disseminate, liaise, exchange, network

Prof. Philippe Amouyel, MD, PhD
JPND Chair
France

A major global challenge



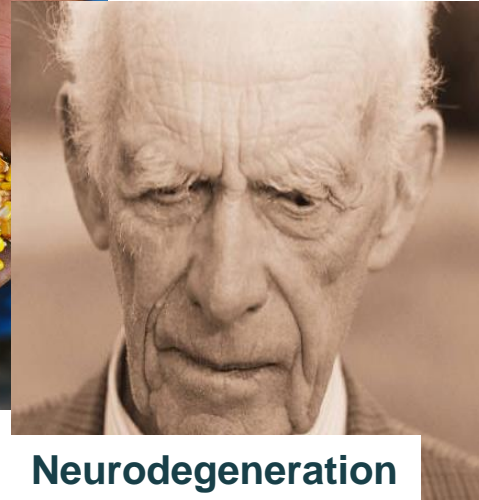
Energy



Climate Change



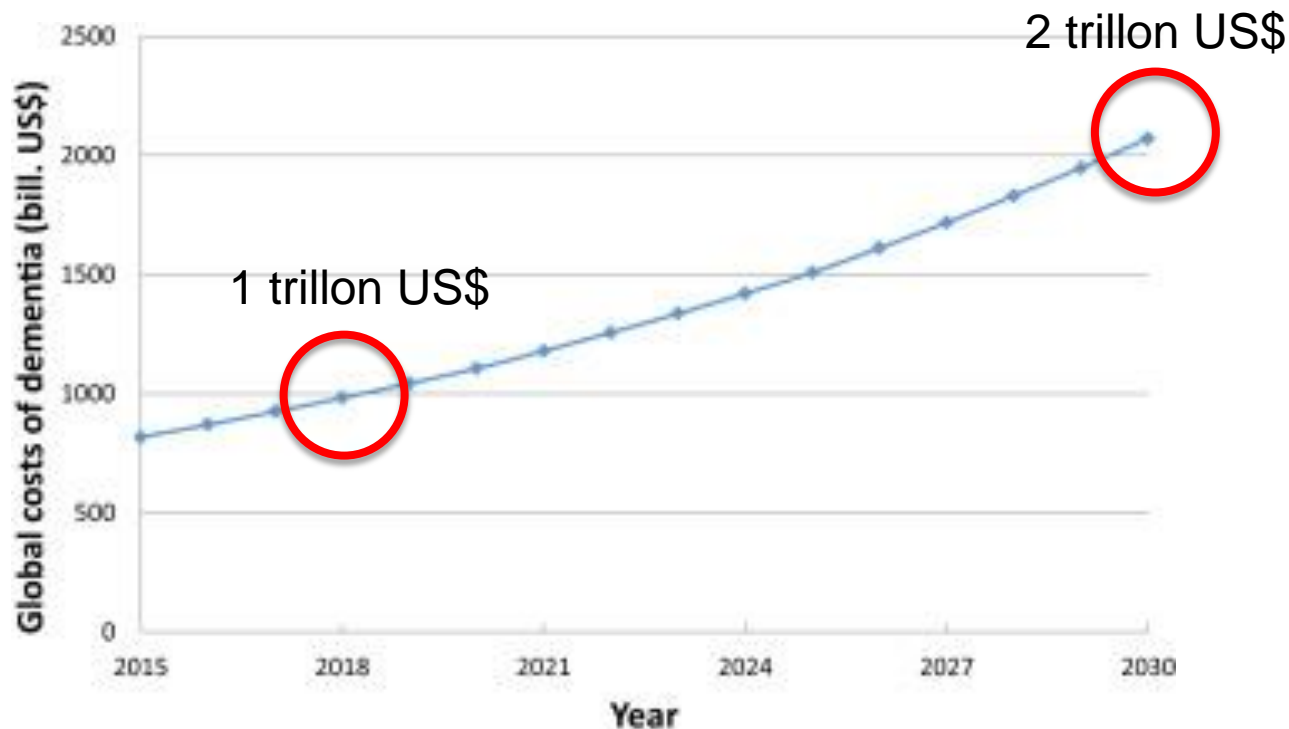
Food & Health



Neurodegeneration



Forecasted global costs of dementia 2015-2030



From Wimo A et al, Alzheimer's & Dementia, 2017



The conditions of success

- Increase the **critical mass** of physicians and scientists involved in neurodegenerative disease research
- Increase the **funding** dedicated to neurodegenerative disease research (10x less than in cancer research)
- Increase the number of **collaborations** globally

The Joint Programming Concept

Joint programming was originally created as a *Member States-led* initiative in Europe. It aims to address “grand challenges” to EU and global society by **coordinating national research programmes** to increase the impact and effectiveness of research efforts.



Source : Communication from the Commission to the European Parliament, the Council, the European Economic and social committee and the Committee of the Regions toward Joint Programming in Research : Working together to tackle common challenges more effectively - COM(2008) 468 final, Brussels





Overcoming barriers

- **New forms of long-term collaboration**
- **Fostering and testing innovative approaches and science-policy cooperation**
- **Gateways for scientific excellence, relevance and international cooperation**
- **Strategic platforms for alignment**



Three pillars

- **Shared vision:** JPND countries engage voluntarily and on a variable-geometry
- **Reactive management structure**
- **Common strategic research and innovation agenda**



The JPND Research and Innovation Strategy



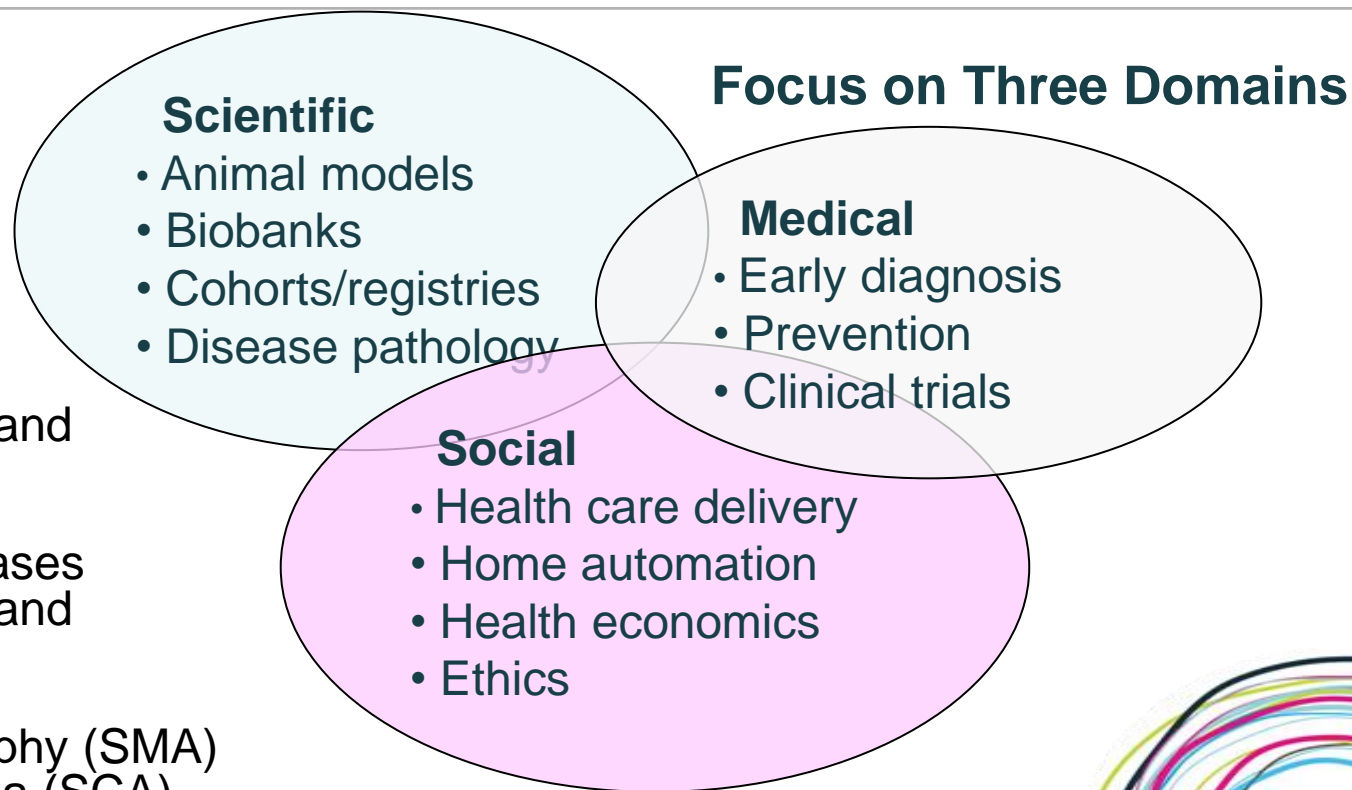
1. Origins of neurodegenerative diseases
2. Disease mechanisms and models
3. Disease definitions and diagnosis
4. Developing therapies, preventive strategies and interventions
5. Health and social care




Scope of the JPND initiative

Disease areas

Alzheimer's disease and other dementias
Huntington's disease
Motor Neurone Diseases
Parkinson's disease and PD-related disorders
Prion disease
Spinal muscular atrophy (SMA)
Spinocerebellar ataxia (SCA)



What are the goals of JPND?

- *To develop new treatments and preventive strategies*
 - *To improve health and social care approaches*
 - *To raise awareness and de-stigmatise neurodegenerative disorders*
 - *To alleviate the economic and social burden of these diseases*
- 

Aligning to defragment and enhance collaboration



STRATEGIC RESEARCH AND INNOVATION AGENDA



ALIGNMENT OF COUNTRIES ON COMMON RESEARCH GOALS



Internationalisation: Europe and beyond

JPND is the largest global ND research initiative led by EU countries, with 30 participating

EU member states

Associated countries

Partner countries

Collaboration with USA NIH in 2018, renewed in 2020

Exploring potential for future collaboration with

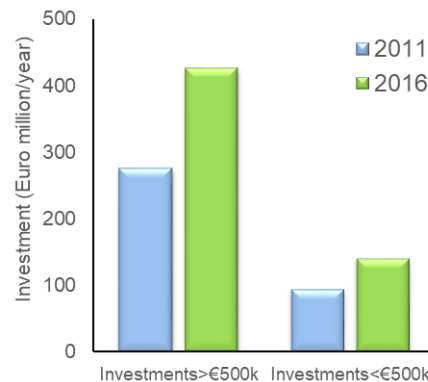
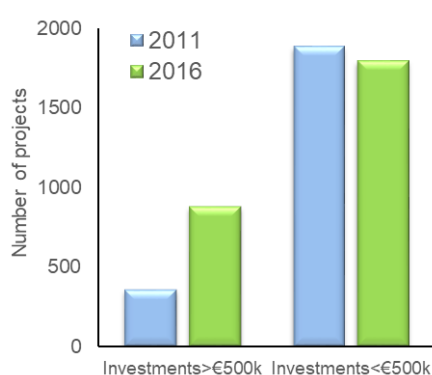
- EU13 countries
- Brazil
- China
- India
- Japan
- Singapore
- South Korea

Albania
Australia
Austria
Belgium
Bulgaria
Canada
Croatia
Czech Republic
Denmark
Finland
France
Germany
Greece
Hungary
Ireland
Israel
Italy
Luxembourg
Netherlands
Norway
Poland
Portugal
Romania
Slovakia
Slovenia
Spain
Sweden
Switzerland
Turkey
United Kingdom

JPND Mapping: bigger investments

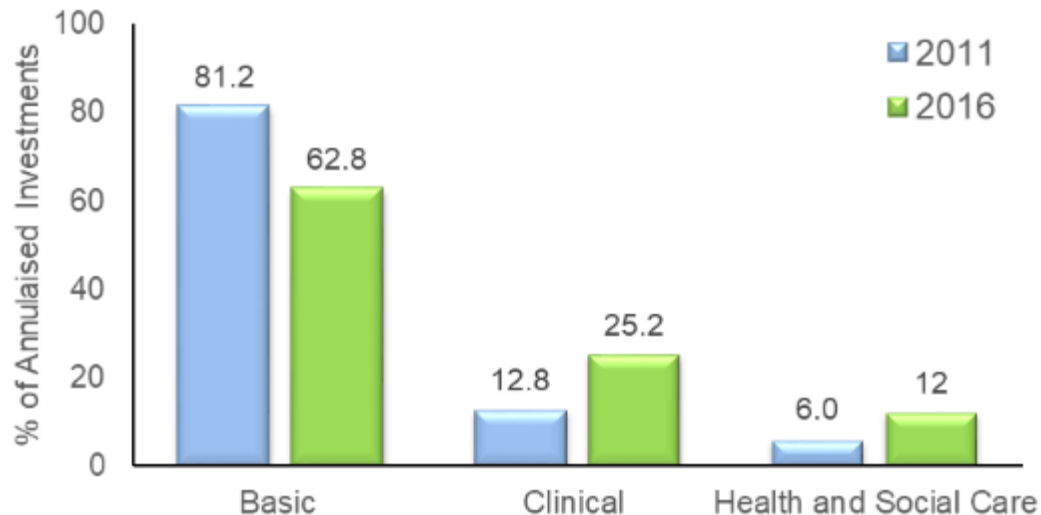
2016	Number of Projects	Full Value (€ Millions)	%	Per Year (€ millions)	%
Total	2672	2,217	-	566	-
Investments >€500k	881	1,722	77.7	425	75.1
Investments <€500k	1292	256	11.5	87	15.3
Fellowships	499	239	10.8	54	9.6

**In 2011
370 M€/y
53% overall**



JPND calls were a major factor in this change

Research Funding: by Research Category



Percentage of annualised funding by research category across all investments in 2011 and 2016. Total investments for all data whether above or below €500k



JPND Alignment Actions, working together



Alignment of
National Strategies



Alignment of
National Activities



Industry Partnership



Assisted Living
Technologies



Longitudinal Cohorts



Animal and Cell
Models



Palliative Care



Patient + Public
Involvement



Optimisation of
biomarkers

Working together



Harmonisation and Alignment in Brain Imaging Methods for Neurodegeneration: how to implement the recommendations of the working groups within the framework of future JPND actions ?

Paris, December 6, 2019

Biopark - Bâtiment A - 8 Croix de Jarry 75013 PARIS France

Room: Paris (2nd floor)



- [illegible]



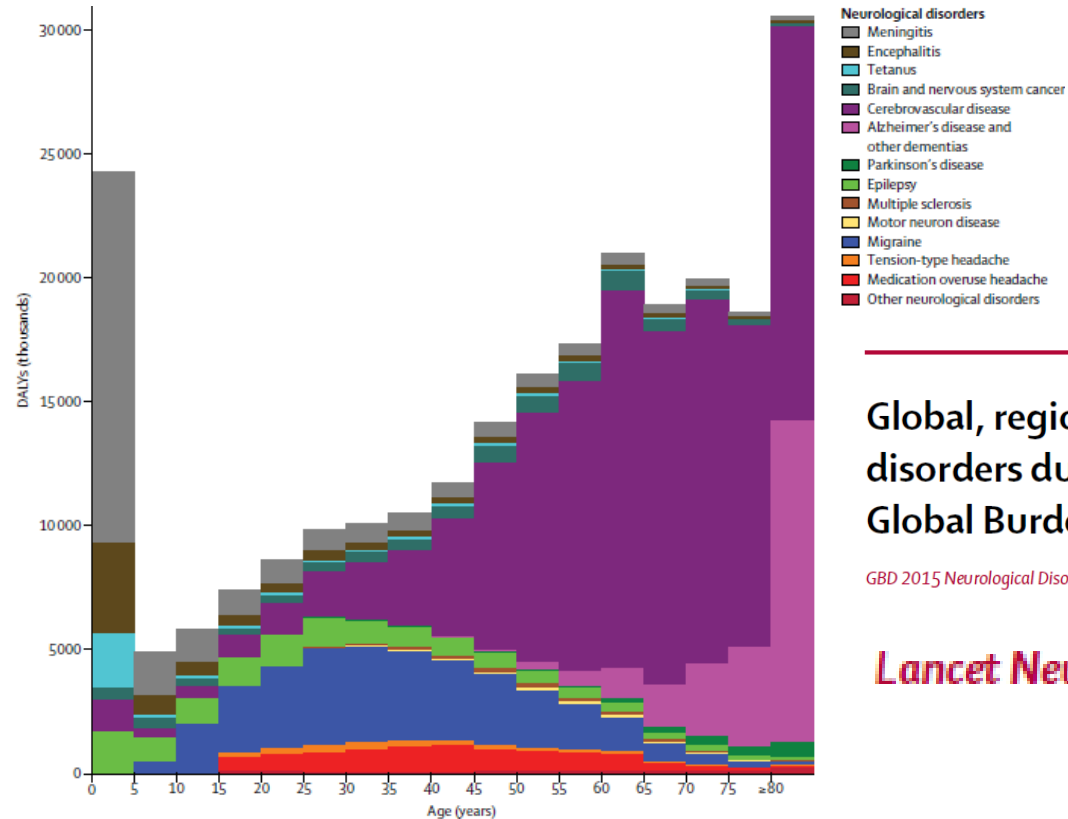
Collaboration – Interaction - Dissemination



- WHO-Global Dementia Observatory
- International Alzheimer's Disease Research Portfolio
- Collaboration with academia and industry
- Patient Public Involvement



The size of the problem



380 million patients
800 billion Euros annually
in Europe alone

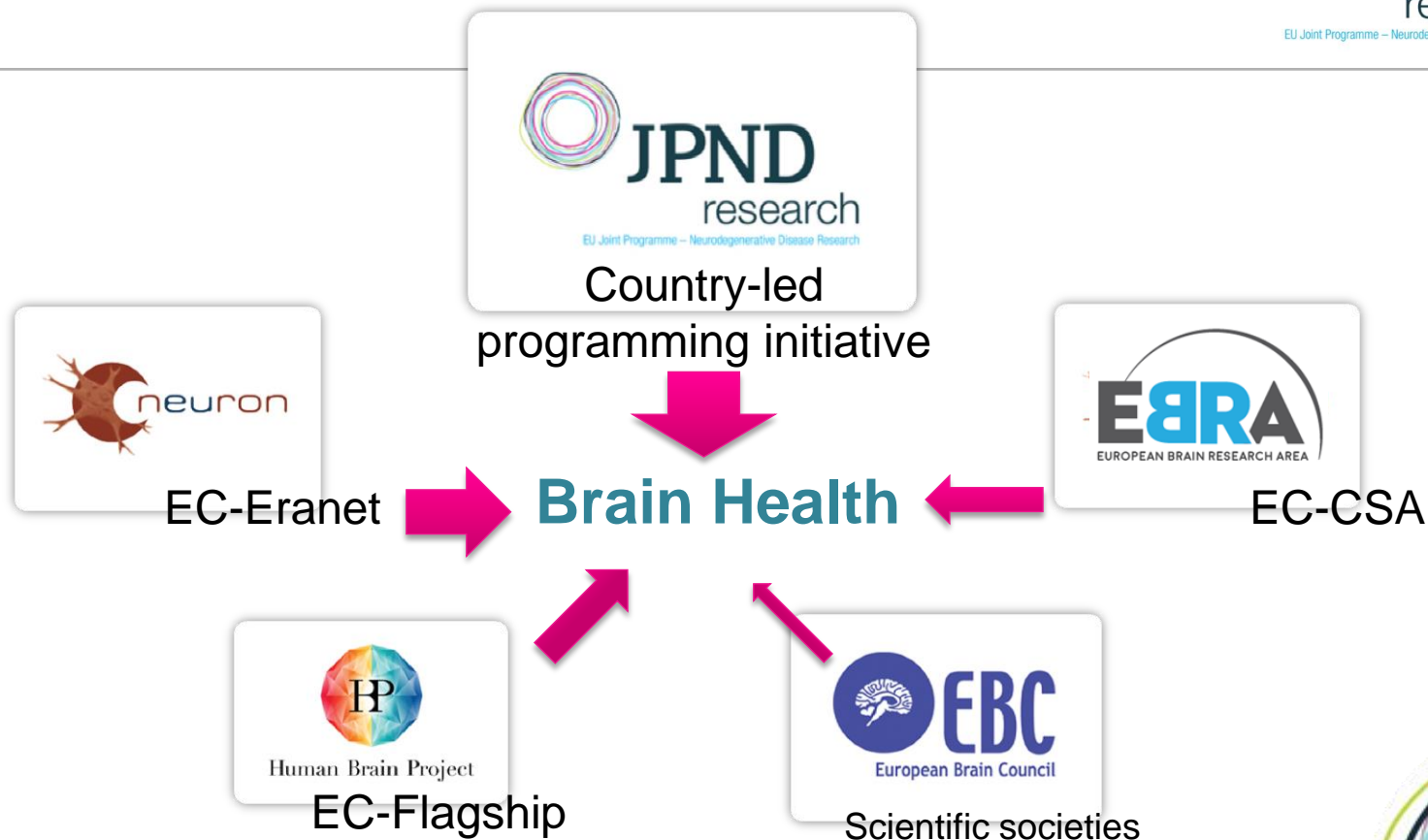
Global, regional, and national burden of neurological disorders during 1990–2015: a systematic analysis for the Global Burden of Disease Study 2015

GBD 2015 Neurological Disorders Collaborator Group*

Lancet Neurol 2017; 16: 877–97



Aligning initiatives toward Brain Health



“Novel imaging and brain stimulation methods and technologies related to ND”

- The aim of the call is to establish a number of ambitious, innovative, multi-disciplinary and multi-national research projects that will advance the development and the use of imaging technologies and brain stimulation techniques to better understand, diagnose or treat neurodegenerative dis.
- Patients, carers and the public must be adequately involved at each stage of the research process.

Milestones

- 20 countries joined the call
- Expected budget: ~20 M€
- Pre-announcement: December 2
- Scheduled call launch: January 7
- Application deadline: March 3

JPND / JPco-fuND Symposium

- Showcase and dissemination of up-to-date research achievements from 51 completed JPND-supported projects (Call 2011-2013 and JPco-fuND 2015) to all relevant stakeholders.
- Networking and knowledge exchange between JPco-fuND projects and other JPND-supported projects, as well as between other conference attendees.
- Train young scientists from the JPND funded projects.



Practical information

- Visit the posters in the Marble room and Throne room during the coffee / tea break to follow on the discussion
- After the last parallel sessions on 4 workshops (end time 18:10) you are invited for the networking dinner in the Marble room and Throne room
- Poster award ceremony day 2 15:30
- Tweets about our symposium
 - **#jpnd**
 - **#jpndsymposium2019**
 - **#neurodegeneration**



@JPNDEurope



Next JPND/Jpco-fuND symposium

See you in 2021



Keep up to date

- Visit the new JPND **website**:
 - <http://www.jpnd.eu>
- Sign up to the JPND **News Feeds**
- E-mail us: secretariat@jpnd.eu



@JPNDEurope



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Click here for the latest progress and updates from ongoing JPND activities.



JPND Newsletter

The JPND Newsletter is a bi-annual "look back" at JPND activities and highlights.

