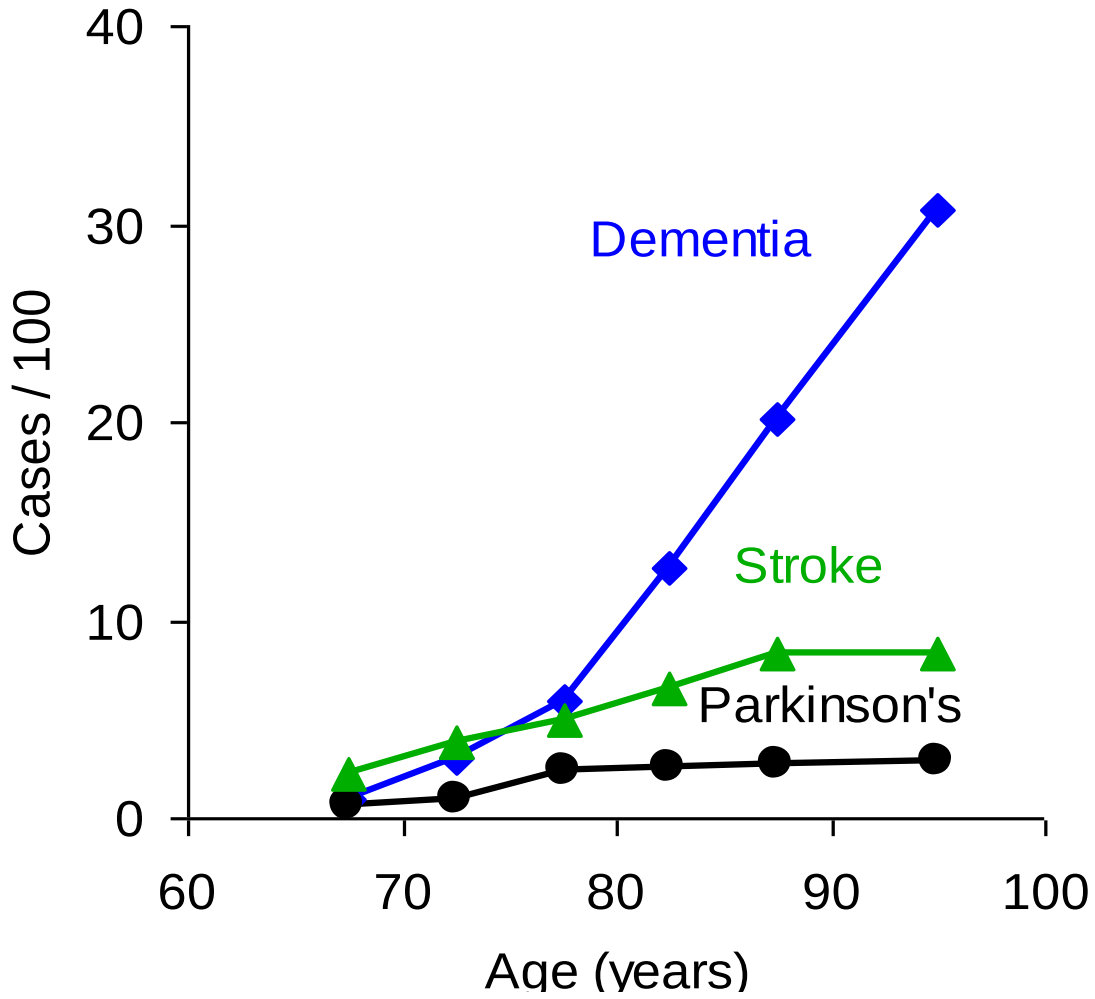
JPND research

EU Joint Programme – Neurodegenerative Disease Research

Joint Programming Initiative on Neurodegenerative Diseases

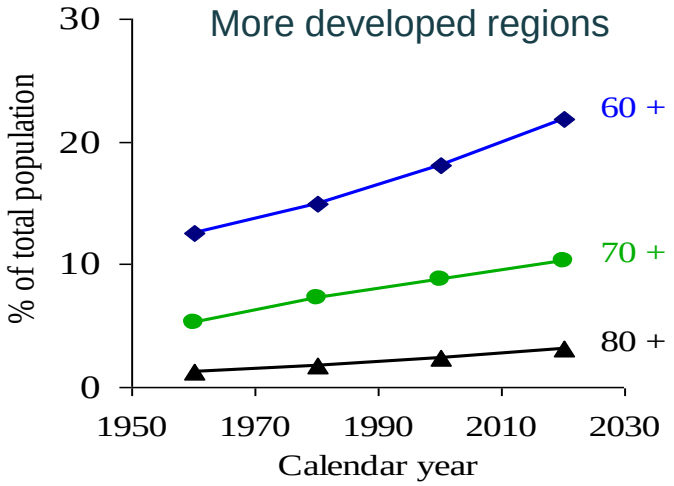
Prof. Philippe Amouyel
Chair, JPND Management Board

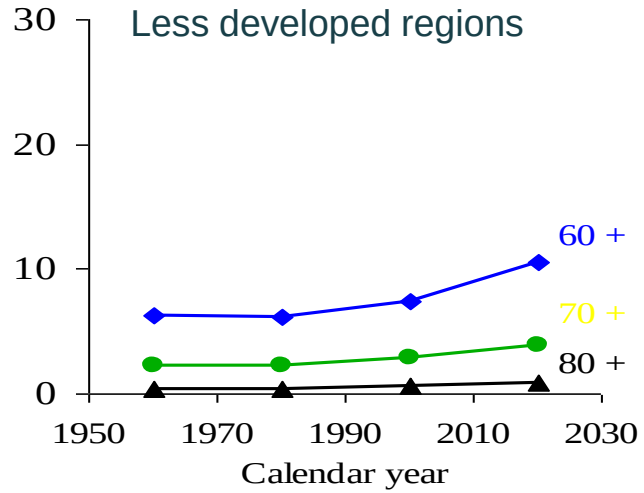
Frequence of Neurodegenerative Diseases



From Rocca W et al, Eurodem

Population Projections and Ageing



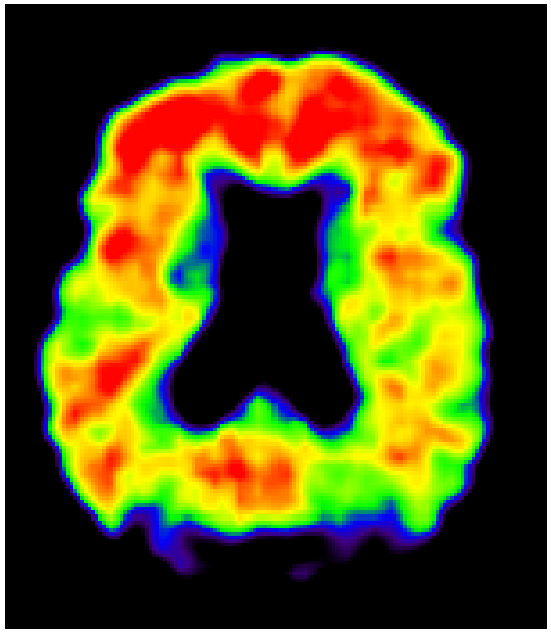


Alzheimer's disease in Europe

	Number of cases	Societal costs (€)
2010	6,000,000	72,000,000,000
2040	12,000,000	144,000,000,000

Research challenges

- 30% of healthy elderly subjects already have Alzheimer pathology



Cognitively normal subject aged 72 years with Alzheimer pathology (red)

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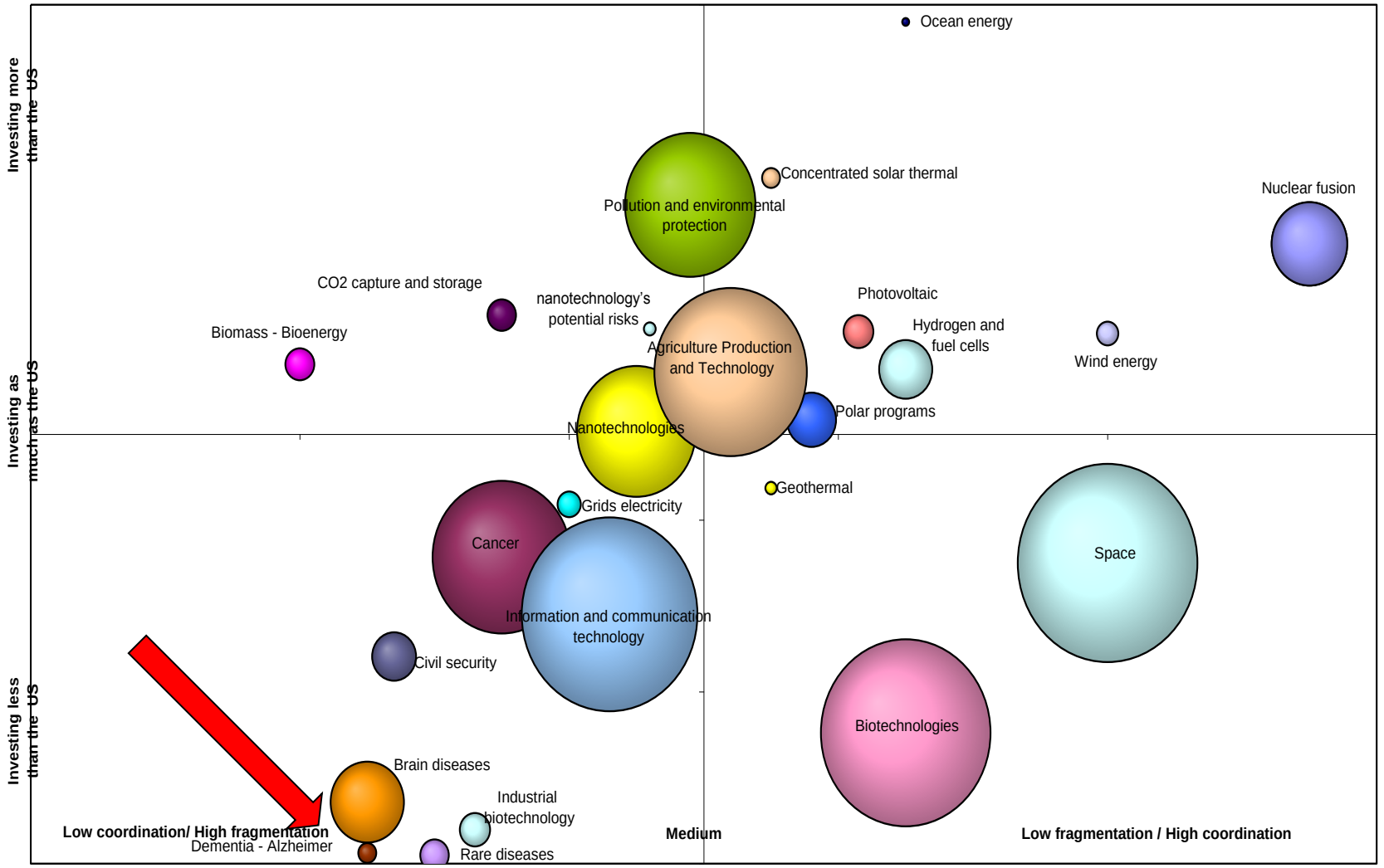
A major societal challenge for the coming years

Research efforts are fragmented



A European Mobilization

- Informal meeting on competitiveness for Ministers of Research, Versailles, 17th July 2008
- Chaired by the French Minister of Higher Education and Research, **Mrs Valérie Pécresse**

"to put the issue of neurodegenerative diseases in the top priorities of the agenda of the European Council."

"to launch a joint programme of research on these diseases, combining socio-economic and medico-biological issues."

What is Joint Programming?

- A new *Member States-led* initiative in Europe which aims to address “grand challenges” to EU society by *coordinating* national research programmes within the EU 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

A major societal « Grand Challenge »

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Joint Programming - a definition

European countries engaging

- **voluntarily** and on a **variable geometry** basis to tackle a major societal question
- in the **definition, development and implementation** of a common strategic research agenda
- based on a **common vision** on how to address major societal challenges.

What are the goals?

To tackle the challenge of Alzheimer's and other neurodegenerative diseases, the goals of the JPND Research Strategy are to

- *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*

Organisation

- **Management Board**
  - 25 countries represented
  - Mandated to act
  - Chair Prof Philippe Amouyel (France)
- **Executive Board**
  - Vice-Chair Prof Adriana Maggi (Italy)
  - Enda Connolly (Ireland)
  - Edvard Beem (The Netherlands)
  - Mogens Horder (Denmark)
- **Scientific Advisory Board**
  - 15 Members (5 in each domain)
  - Chosen for scientific excellence

JPND Research Strategy

- JPND Research Strategy – what is it?
  - A holistic ‘roadmap’ for future EU-wide activity and investment
  - not a review of the field, not a list of calls for proposals

- Delivery will take into account;
  - SAB recommendations – based upon outputs from 4 scientific/strategic workshops
  - National and European research portfolios
  - Broad consultation with stakeholder groups

Delivering JPND Research Strategy

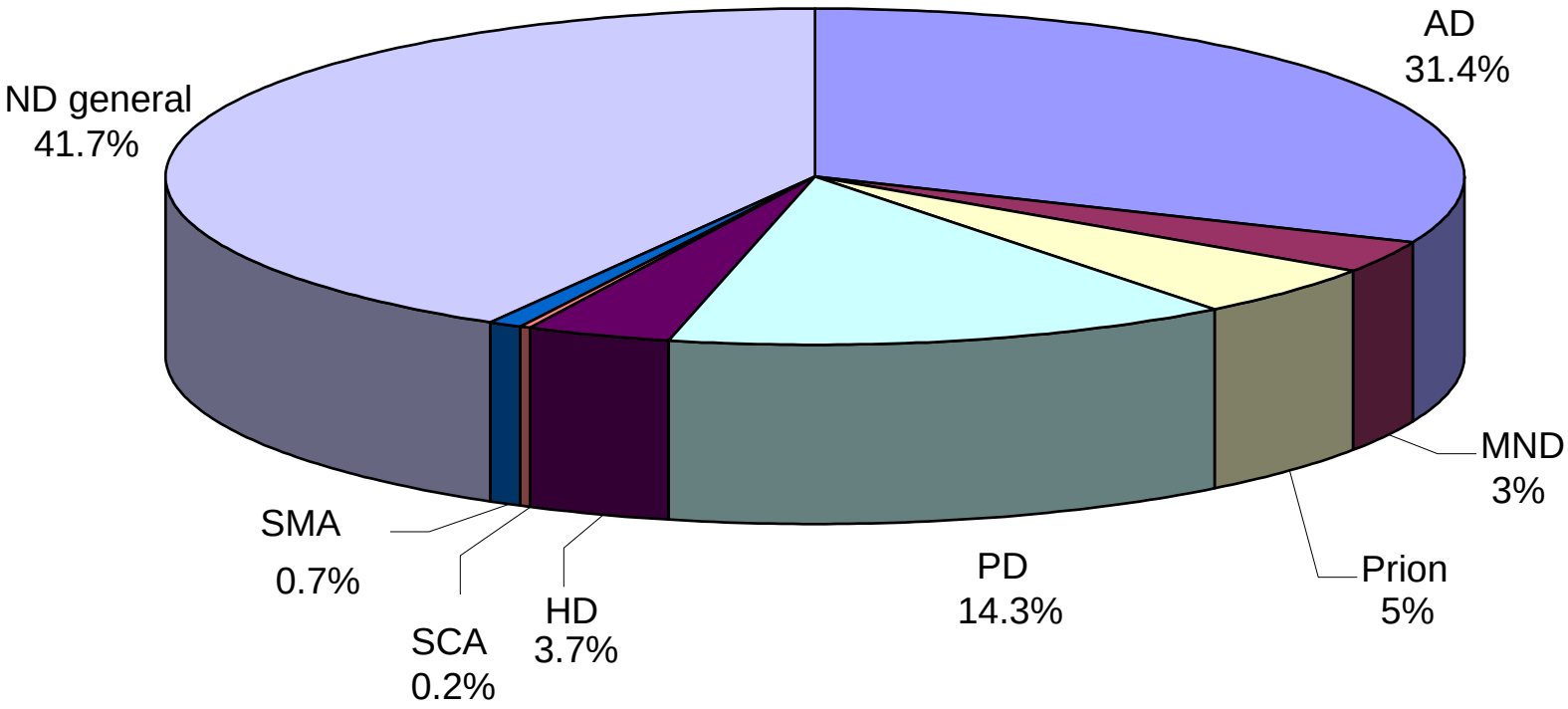
- 1. Mapping exercise of National and European programmes
- 2. Strategic prioritisation
  - three thematic workshops (basic/clinical/healthcare)
  - Stakeholder discussions
  - fourth workshop to integrate outputs, incorporate stakeholder perspectives
- 3. Consultation exercise (website publication)
- 4. Delivery taking into account
  - Outputs from scientific workshops
  - Consultation
  - Discussion at MB (to incorporate funder, political & policy considerations)

JPND mapping

- €1.62bn investment – 357 programmes, 1887 smaller projects
- 238 bioresources captured

Survey Section	Entries	Which represents:
Organisational Details	75	Organisations from 21 countries
Smaller Investments	1887	€0.29 billion – 69 agencies from 21 countries + EC inc. ERC covering 1756 projects
Major Programmes	357	€1.33 billion - 41 funding agencies (13 countries + EC inc. ERC)
Research Networks	34	8 countries + Europe-wide
Population Cohorts	72	15 countries + Europe-wide
Case Control Studies	22	9 countries
Disease Registries	21	9 countries + Europe-wide
DNA, Tissue & Cell line Banks	87	15 countries
Animal Model Repositories	12	8 countries
Bio/Neuro Infrastructures	24	8 countries + Europe-wide

ND research spend by disease area (annualised)



Implementation and test-case

- While waiting for JPND Research Strategy delivery, the Scientific Advisory Board recommended launching rapid actions

- "*Neurodegenerative Diseases - a call for European research projects for the optimisation of biomarkers and harmonisation of their use between clinical centres*"
  - Launched by JPND on 13 May 2011
  - 21 countries participating
  - Commitment for 16 M€
  - Four projects retained on 7th Dec 2011

Other actions

- The Centres of Excellence Network in Neurodegeneration Research initiative is considered as part of the JPND
  - initially DZNE-MRC-CIHR
  - now Germany, UK, Ireland, Canada, Belgium, Italy
  - - Topic : Biomarkers, Imaging, Animal models
  - - 4M€
- The JPND supports the “JPIs TO CO-WORK” proposal submitted in February 2011 to “Refine and promote the adoption of European-level guidelines in the domain of the Framework conditions for JPI”
- The JPND participates in the pilot European Innovation Partnership on Active and Healthy ageing

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Towards Implementation

Prof. Philippe Amouyel
Chair, JPND Management Board

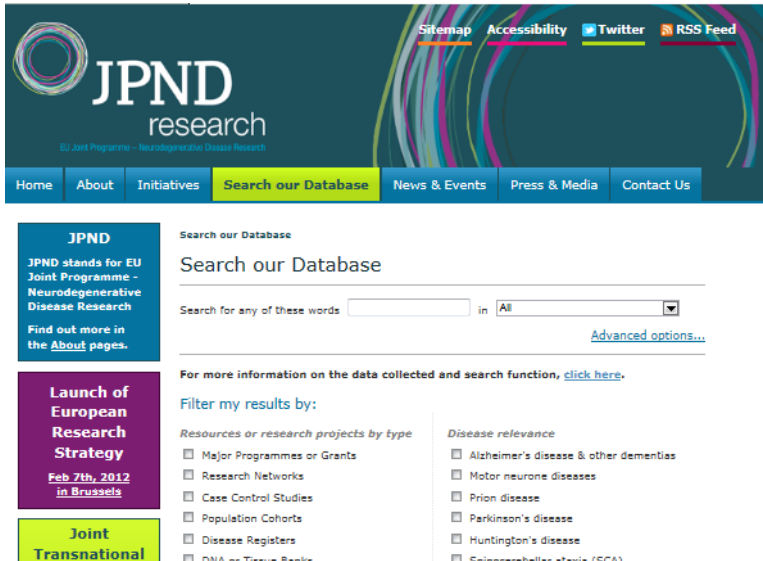
Implementation – 5 Steps

- 1) Create List of priorities from JPND Research Startegy proposals
- 2) Organise thematic working groups
- 3) Create List of opportunities
  - suited for implementation
- 4) Organise specific Task forces
- 5) Support Implementation

Next Challenges

- Implementation of the SRA
- Developing national SRA
- Funding commitment based on a 5 year period
- Leverage effect
- Based on existing mechanisms
- Scale-up funding commitment

For one specific call we obtained 16M€ commitment, for the whole SRA, we hope to gather larger amounts based on a country commitment accompanied by other participations (EU, Industry, stakeholders…)

Keep up to date

- Visit the JPND **website**:
  - http://www.neurodegenerationresearch.eu
  - http://www.jpnd.eu
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- **E-mail us**: secretariat@jpnd.eu