



'EU funded Brain and Mental Health research'



HORIZON 2020

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on Mental Health, Wellbeing and Brain disorders
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The burden

Non-contagious neurological disorders and mental and behavioural disorders- a significant proportion of the Global Burden of Disease.

Data 2010:

- mental and behavioural disorders: 7.4 %
and
- neurological disorders: 3 %

Around 20% of the world's children and adolescents have mental disorders or problems*

Brain and Mental health Research

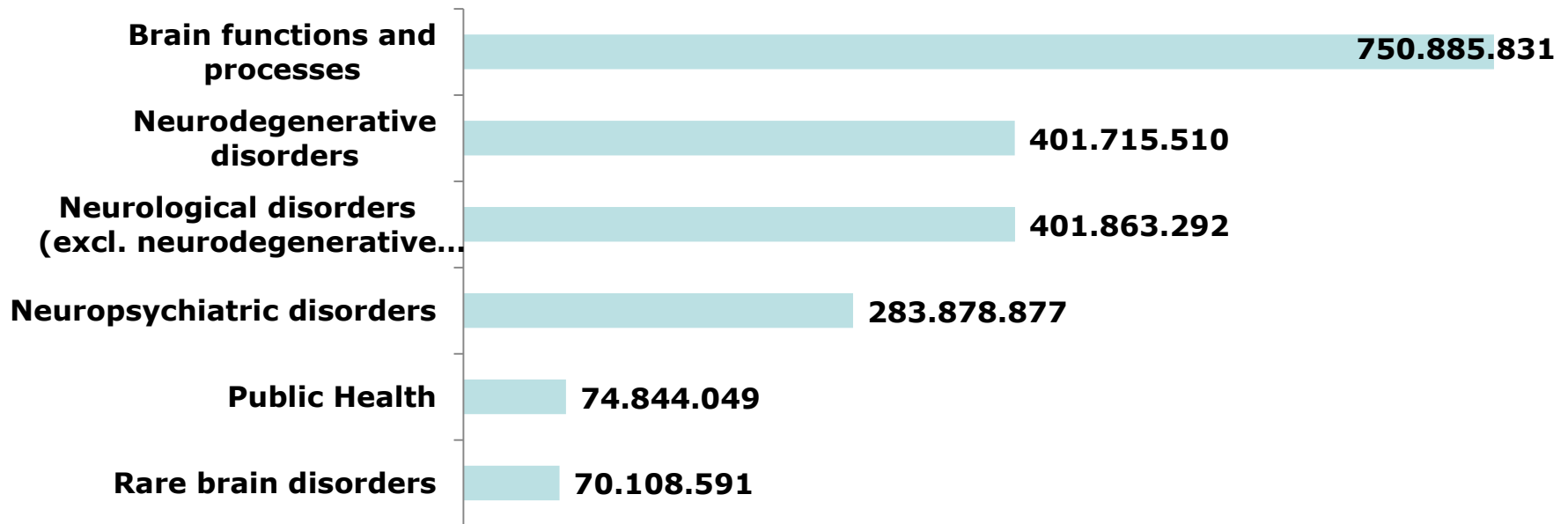
**Until 2012 the 7th Framework Programme already
dedicated
€ 2 billion to brain related research including mental health**



- The biggest share of the budget was under the "health" heading within Collaborative Research
- For international multidisciplinary research to:
 - Study brain diseases and identify new diagnostics, therapies and regenerative or restorative therapeutic approaches
 - Improve the management of brain diseases i.e. provide better healthcare at lower cost
 - Promote mental health, prevent mental disorders & strengthen the capacity of health care services



FP7 funding support for brain including mental health research (2007–2012)



A variety of tools: Collaborative research, ERCEA, Marie Curie, IMI, ARTEMIS

Brain Research Projects



DEVELAGE - Pathways common to brain development and ageing: defining strategies for preventive therapy and diagnostics (2012-2014)

to characterise shared molecular pathways between early developmental processes in the brain and brain ageing based on the hypothesis that essential proteins might have a role in neurodegeneration

<http://www.develage.eu/>

EUROSPIN to help understanding the basis of aberrant synaptic transmission at the genetic, molecular and network level with a view to restoring normal synaptic function, that is: **developing novel therapies for synaptopathies** (neurodegenerative diseases, schizophrenia, autism, depression etc.)

<http://eurospin.mpg.de/>

Public mental health – a broad field of research

Public Mental Health Research projects had a life-course perspective and covered areas such as:

1. Mental health promotion, increasing resilience and reducing abuse (*e.g. BECAN, COPING, WE STAY*)
2. Prevention of suicide and depression – (*e.g. OSPI-Europe, SEYLE*)
3. Research to strengthen the capacity of Health Systems to meet population mental health needs (*e.g. CEDAR, MentDis_ICSF65+, REFINEMENT, RIGHTTIMEPLACECARE*)
4. Mental health and ICT (*e.g. IN-MINDD*)
5. Establishing a roadmap for mental health research (*ROAMER*)

Horizon 2020 (2014-2020)

Three priorities

- Leadership in enabling and industrial technologies
- Access to risk finance
- Innovation in SMEs

- European Research Council
- Future and Emerging Technologies
- Marie Skłodowska-Curie actions
- Research infrastructures

• *Excellent science*

• *Industrial leadership*

• *Societal challenges*

- **Health, demographic change and wellbeing**
- Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, environment, resource efficiency and raw materials
- Inclusive, innovative and reflective societies
- Secure societies
- Science with and for society
- Spreading excellence and widening participation

Budget (incl. Euratom):
€78.6 Billion

A new approach

A young boy with curly hair is looking towards a female doctor. The doctor is wearing a white lab coat and a green stethoscope. They are both smiling and appear to be in a friendly conversation.

Challenge-driven

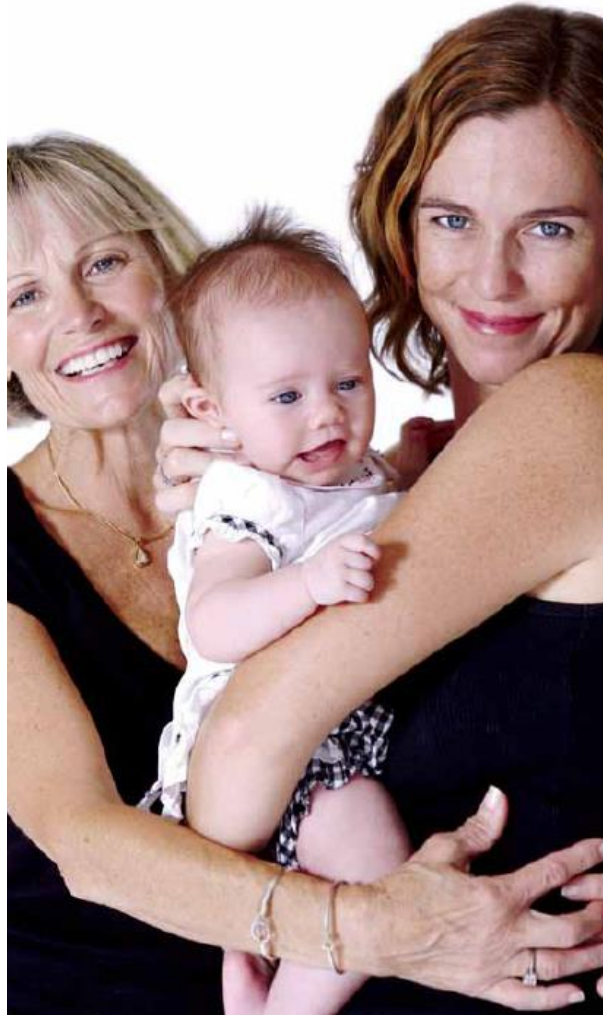
Broad topics

Less prescriptive topic texts

Two-year work programme

Stronger focus on end users

Health, Demographic change and wellbeing - aim



- *Translate science to benefit citizens*
- *Test and demonstrate new healthcare models, approaches and tools*
- *Promote healthy and active ageing*
- *Improve health outcomes, reduce inequalities*
- *Support a competitive health sector*



Call "Personalising health and care"

Some 2014 topics relevant for brain and mental health research

- Understanding health, ageing and disease: determinants, risk factors and pathways
- New therapies for chronic non-communicable diseases
- Comparing the effectiveness of existing healthcare interventions in the elderly
- Advancing active and healthy ageing with ICT: service robotics within assisted living environments
- Advancing active and healthy ageing with ICT: ICT solutions for independent living with cognitive impairment
- Developing and comparing new models for safe and efficient, prevention oriented health and care systems-
- ERA-NET: Establishing synergies between the Joint Programming on Neurodegenerative Diseases Research and Horizon 2020



Call "Personalising health and care"

Some 2015 topics relevant for brain and mental health research

- Understanding common mechanisms of diseases and their relevance in co-morbidities
- Health promotion and disease prevention (environment and health based interventions)
- Development of new diagnostic tools and technologies: *in vivo* medical imaging technologies
- Tools and technologies for advanced therapies
- Promoting mental wellbeing in the ageing population
- Piloting personalised medicine in health and care systems



Work programme 2016-2017

is under development



Thank you for your
attention!

www.ec.europa.eu/research/horizon2020