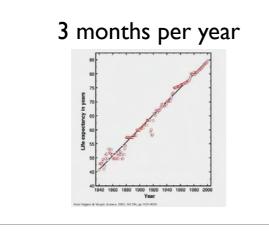
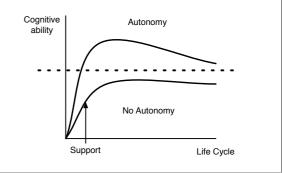
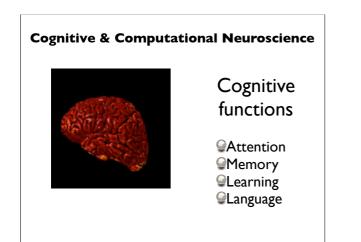


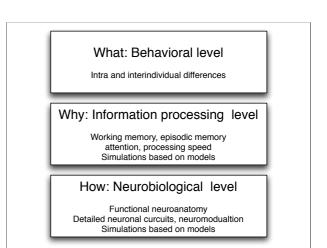
## Research

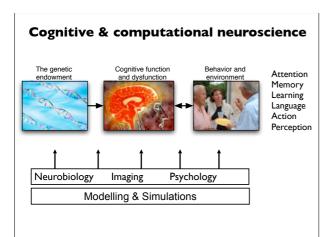


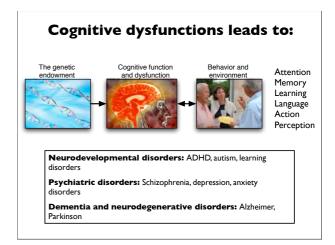


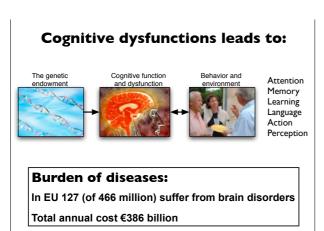


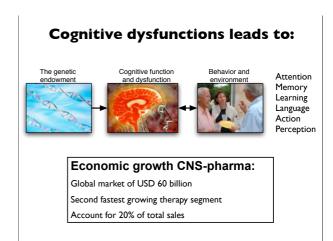


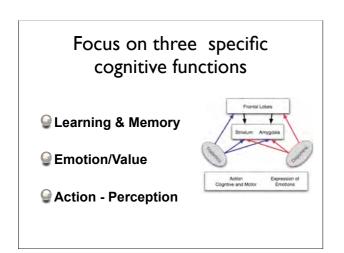


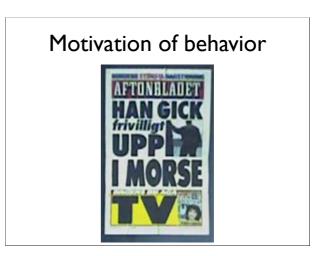










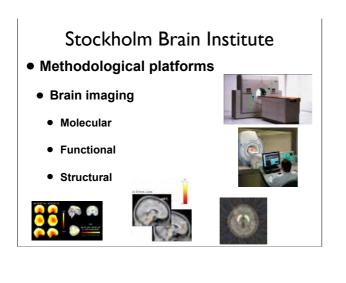


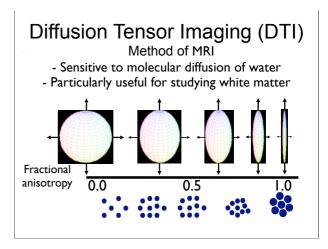
#### From three perspectives

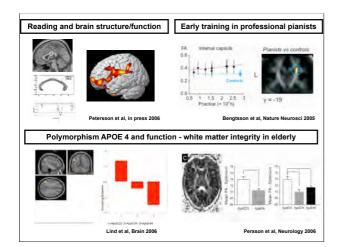
- Development, aging and plasticity
- Gender and sexual differences
- Cognitive dysfunction
- ADHD
- Schizophrenia
- Alzheimer's dementia

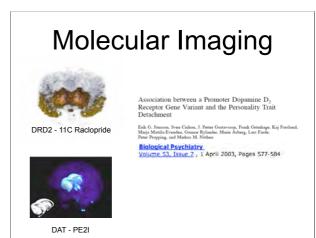


# Platform





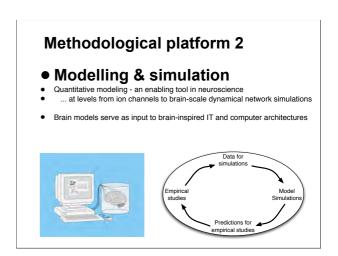


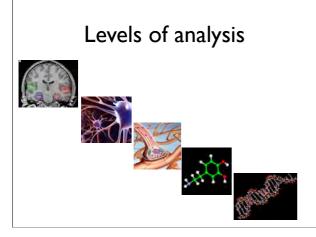


## Human PET tracers originating from Karolinska Institutet (1/3 of all)

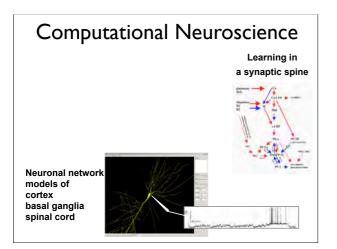


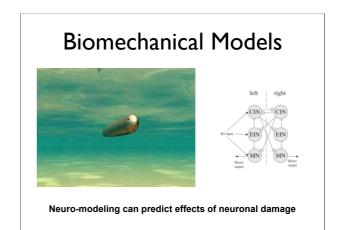
25 PET tracers have been used in humans >100 different PET tracers developed Directed towards Receptor subtypes - Enzymes - Carrier - Proteins







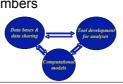


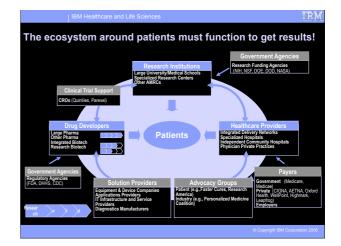


#### **INCF**

International Neuroinformatics Coordinating Facility

- OECD
  - · Working group for Neuroinformatics
- Brain databases, Modeling, Data analysis infrastructure
- 10+ OECD countries members
- 10 MSEK/yr
- · Synergies with SBI







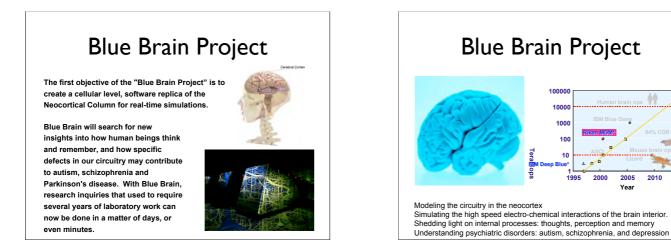
## IBM • Strategic collaboration agreement with Karolinska Institutet and Royal Institute of Technology

2000

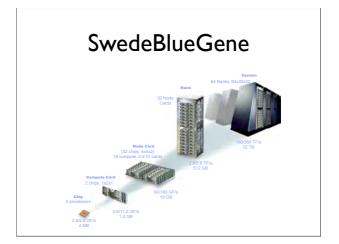
2005

Year

2010 2015

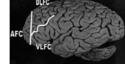


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### Issues for modeling

• Working memory



- Sequential learning
- Cognitive control of emotion

