



NÁRODNÝ KOORDINÁTOR PROGRAMU EÚ HORIZON 2020

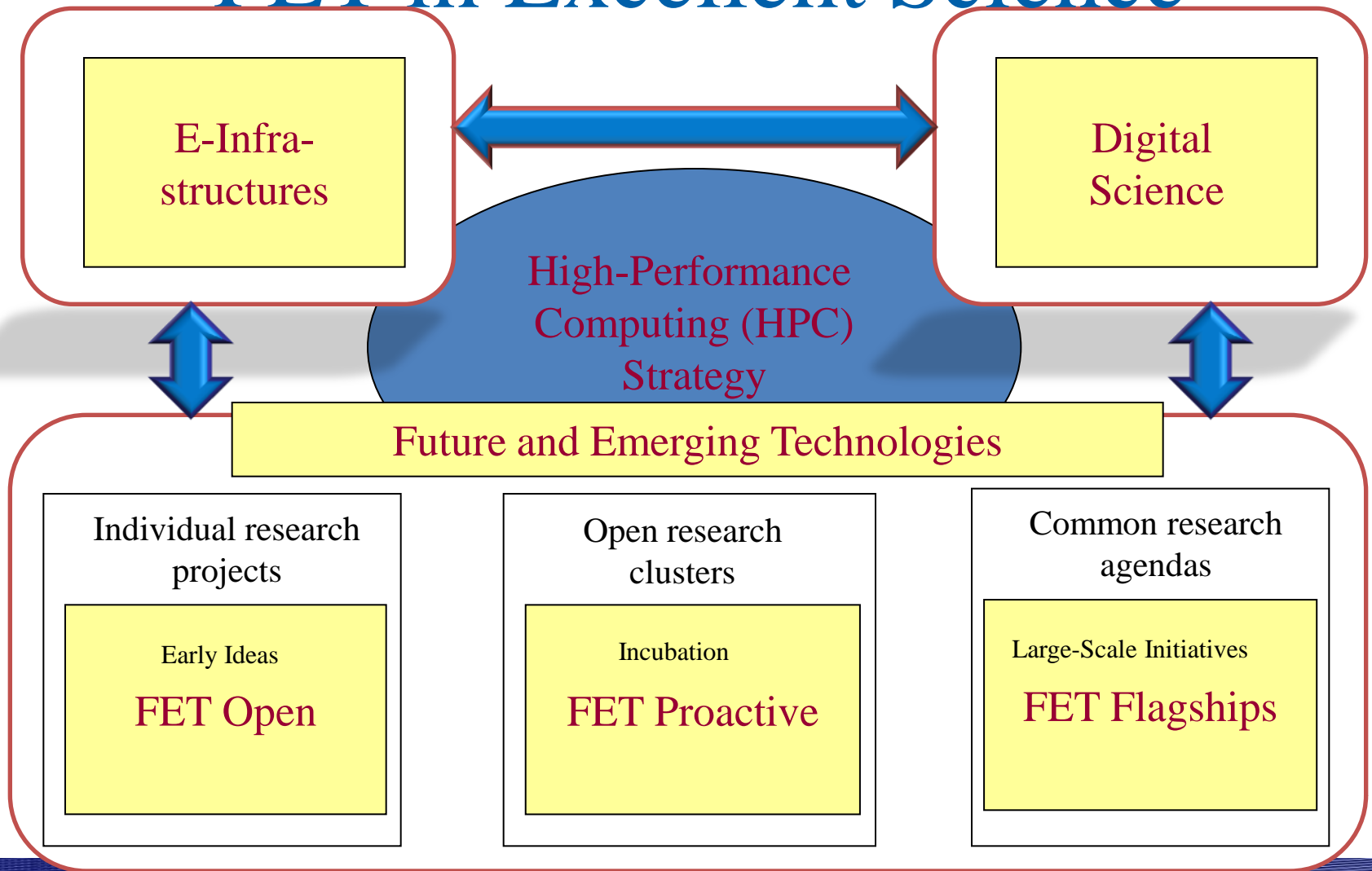


MINISTERSTVO ŠKOLSTVA,
VEDY, VÝSKUMU A ŠPORTU
SLOVENSKEJ REPUBLIKY

Relevantné výzvy ďalších tematických oblastí programu Horizont 2020 FET Flagships

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Ing. Mgr. Mária Búciová - NCP

FET in Excellent Science



FET Flagships

Graphene & Human Brain Project selected



Call for
Preparatory Actions
21 → 6
July 2010

Stimulating ideas &
structuring the scientific
community
2009 - 2010

Preparatory Phase
Pilots
05/11 - 04/12

Flagship
selection
6 → 2
end 2012

Operational
ramp-up phase
mid 2013- end 2015

SCIENCE WORLD REPORT scienceworld.com

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Brain Simulation and Graphene Research Receive Billion Euro Each

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Mark Hoffman

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The result of the highly anticipated decision of which two research projects will receive a one billion Euro research grant, the largest single research award ever, from the European Commission were announced by the European Commission's Vice-President Neelie Kroes today.



The first project is the [Human Brain Project](#), led by neuroscientist Henry Markram at the Swiss Federal Institute of Technology (EPFL) in Lausanne, which aims to simulate the human brain in a supercomputer, in order to aid medical advancement in brain disorders.

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The second, called [Graphene Project](#), is led by theoretical physicist Jari Kinaret at Chalmers University of Technology in Gothenburg, Sweden. Its goal is to develop the awesome

The Graphene FET Flagship

Science and Technology Work Packages

Work Package 1: Materials

Work Package 2: Health and Environment

Work Package 3: Fundamental science of graphene and 2D materials beyond graphene

Work Package 4: High frequency electronics

Work Package 5: Optoelectronics

Work Package 6: Spintronics

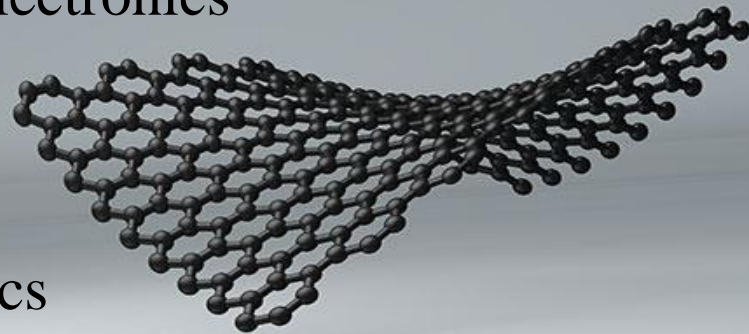
Work Package 7: Sensors

Work Package 8: Flexible electronics

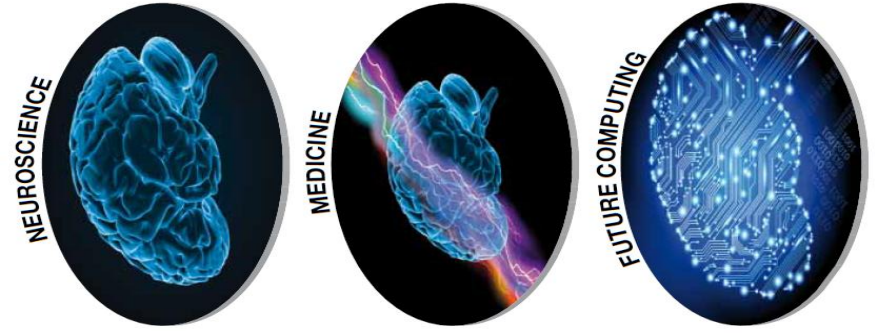
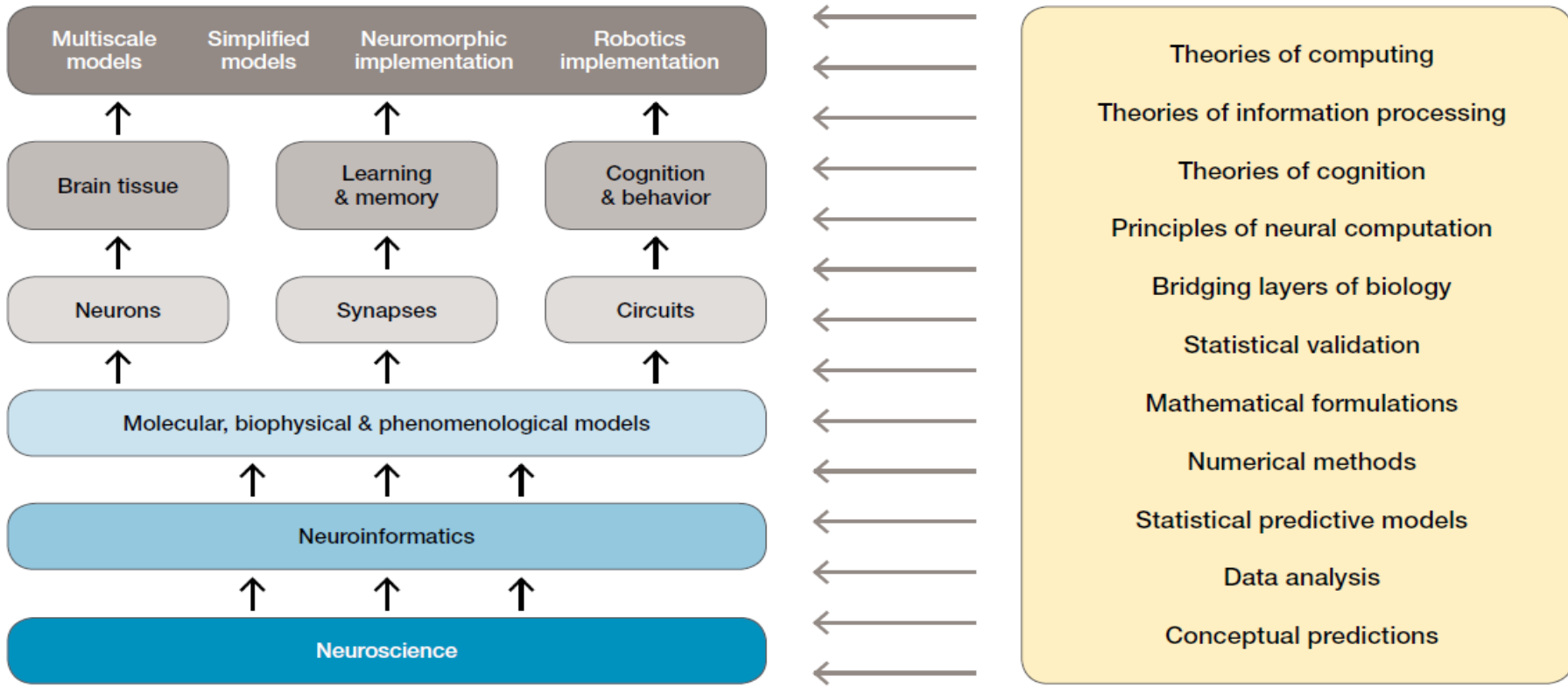
Work Package 9: Energy

Work package 10: Nanocomposites

Work package 11: Production



The Human Brain Project FET Flagship



Competitive Call for additional beneficiaries

Human Brain Project

www.humanbrainproject.eu

- Call opening: 1 October 2013
- Deadline: 6 November 2013
- Call results: February 2014
- Project joining date: 1 April 2014
- Project end date: 31 March 2016

GRAPHENE

<http://graphene-flagship.eu/>

- Call opens: 25 November 2013
- Call deadline: 5 February 2014
- Recommendations on new beneficiaries from the Scientific Panel to the European Commission: June 2014
- Accession of new beneficiaries: Autumn 2014

Draft Workprogramme Objectives

Future and Emerging Technologies Calls

FET Open

FET OPEN 1 2014/2015: FET - Open Research projects	77	77
FET OPEN 2 2014: Cordination & Support Activities 2014	3	
FET OPEN 3 2015: Cordination & Support Activities 2015		3

FET Proactive

FETPROACT 1 2014: Global Systems Science (GSS)	10	
FETPROACT 2 2014: Knowing, doing, being: cognition beyond problem solving	15	
FETPROACT 3 2014: Quantum simulation	8	2

Call FET Proactive towards exascale high performance computing

2014: HPC Core Technologies, Programming		
FETHPC-1 Environments and Algorithms for Extreme Parallelism and Extreme Data Applications	93.4	
FETHPC-2 2014 HPC Ecosystem Development		4

Call FET -Flagships-tackling grand interdisciplinary science and technology challenges

FETFLAG 1 2014: Framework Partnership Agreement		no budget	no budget
FETFLAG 2 2015: Graphene FET Flagship Core Project			89
FETFLAG 3 2015: Human Brain Project FET Flagship Core Project			89
FETFLAG 4 2014/2015: Policy environment for FET Flagships	1.6		