

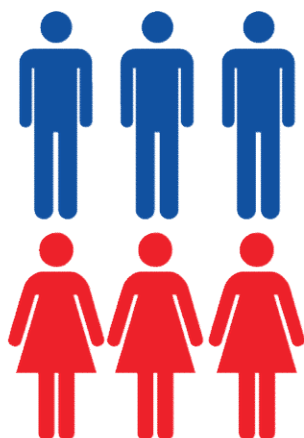


# Research and innovation ecosystem in Slovakia

**Daniel Straka**

**Luxembourg | 10 October 2016**

# Slovakia in a nutshell

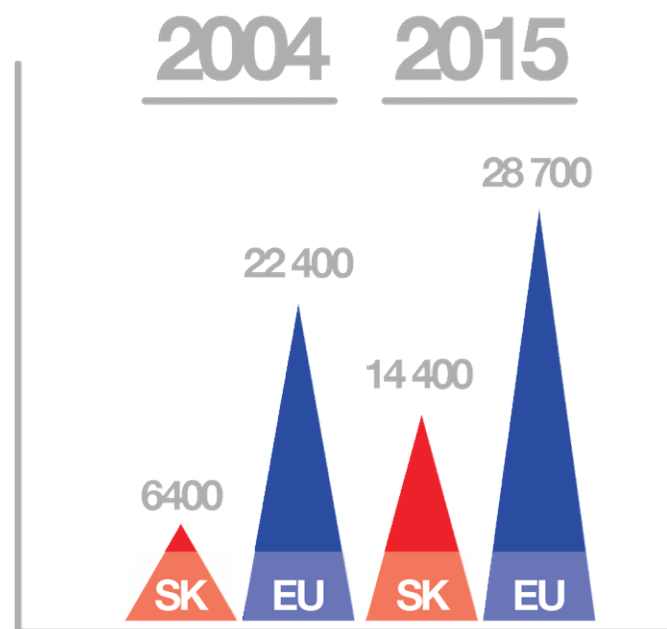


**5.41 M.**



**MAY 2004**  
**MEMBER OF EU**

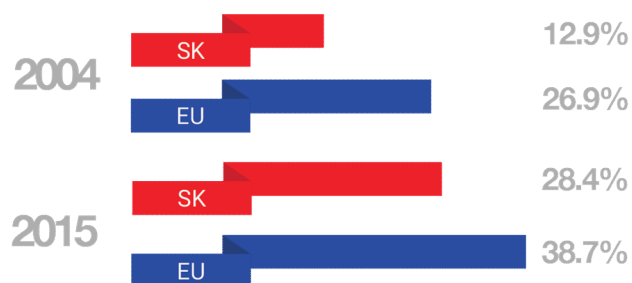
**DOING BUSINESS: 29<sup>TH</sup> (75.62)**



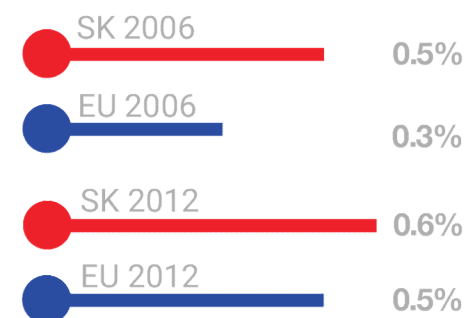
**GDP AT CURRENT MARKET PRICES PER CAPITA**

# Education

## TERTIARY EDUCATIONAL ATTAINMENT



## DOCTORATE STUDENTS IN SCIENCE AND TECHNOLOGY

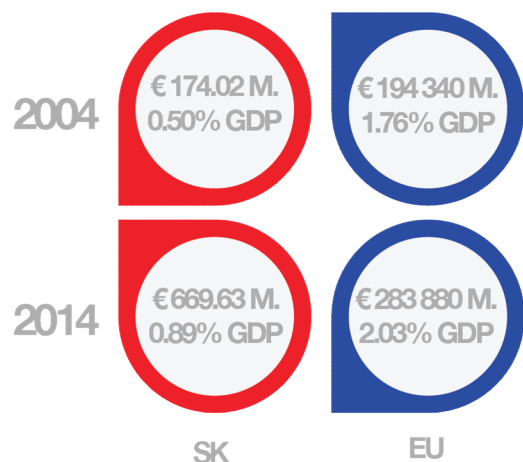


## SCIENCE AND TECHNOLOGY GRADUATES



# Research and Development

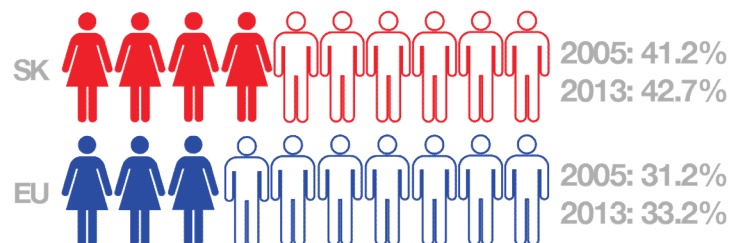
## R&D INVESTMENTS



■ SK  
■ EU

NUMBER OF RESEARCHERS (FTE)		RESEARCHERS (FTE) AS TOTAL EMPLOYMENT	
2004	2014	2004	2013
10 718	14 742	0.49%	0.62%
1 755 861	1 314 471	0.63%	0.81%

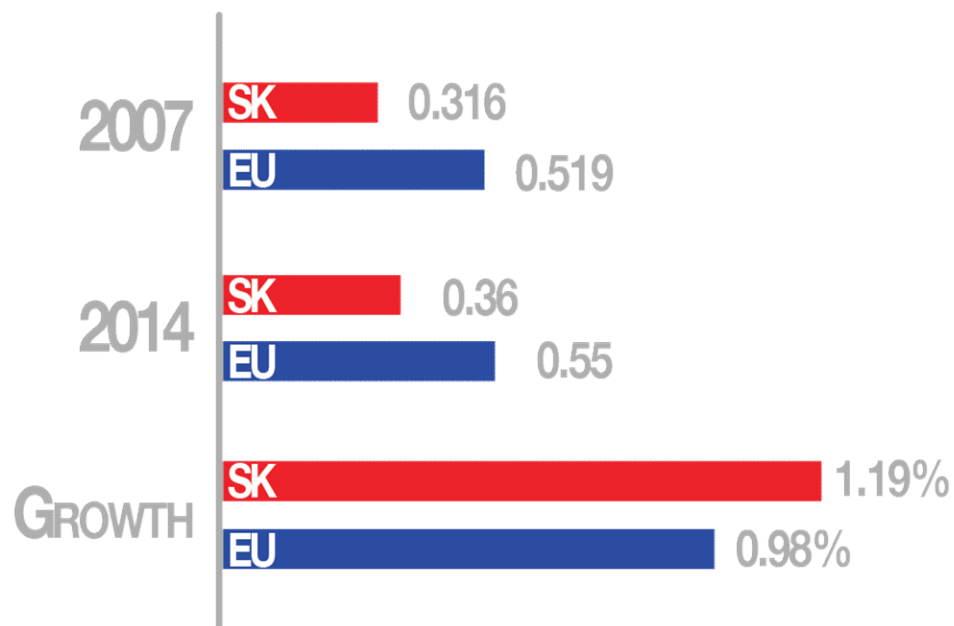
## FEMALE RESEARCHERS



# Innovation

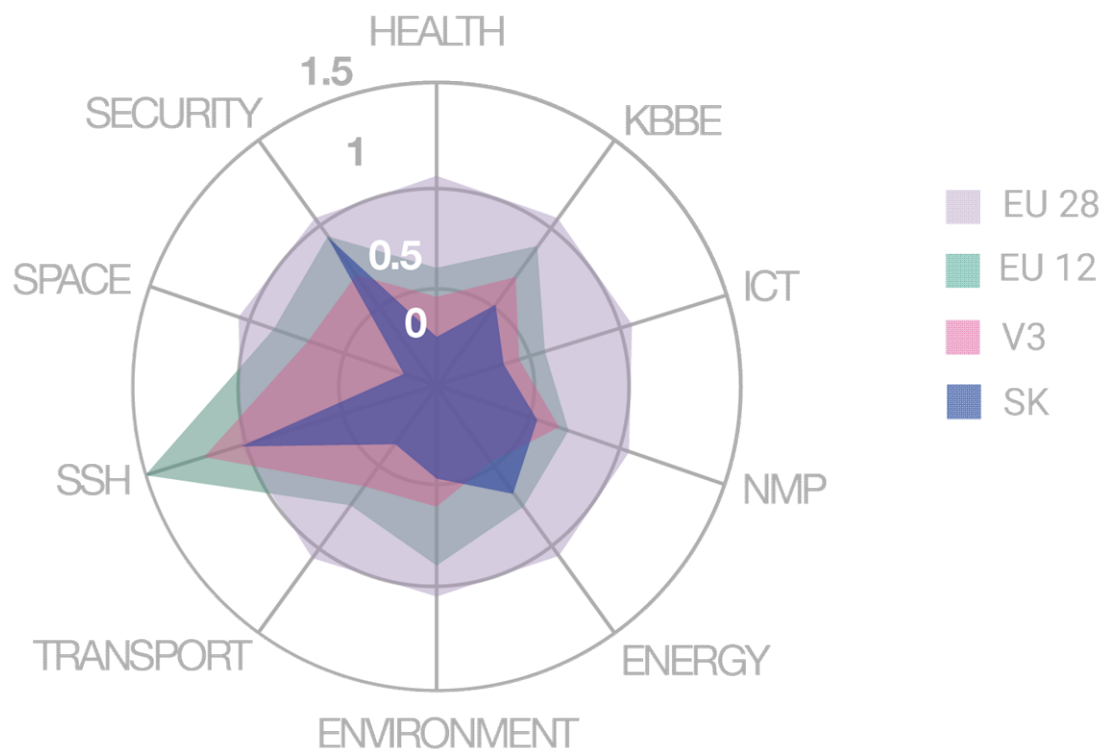


INNOVATION UNION SCOREBOARD:  
MODERATE INNOVATOR



# Participation in FP7 - topics

RATIO OF PARTICIPATIONS PER 1 000 RESEARCHERS (FTE); EU=1

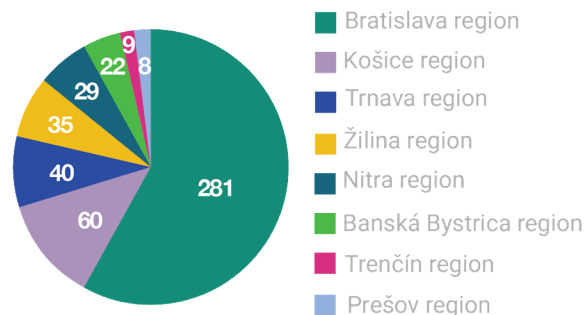




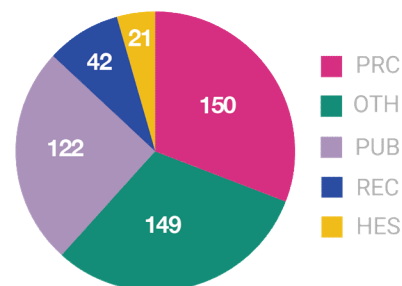
# Participation in FP7 and H2020

FP7

GEOGRAPHICAL DISTRIBUTION OF PARTICIPANTS

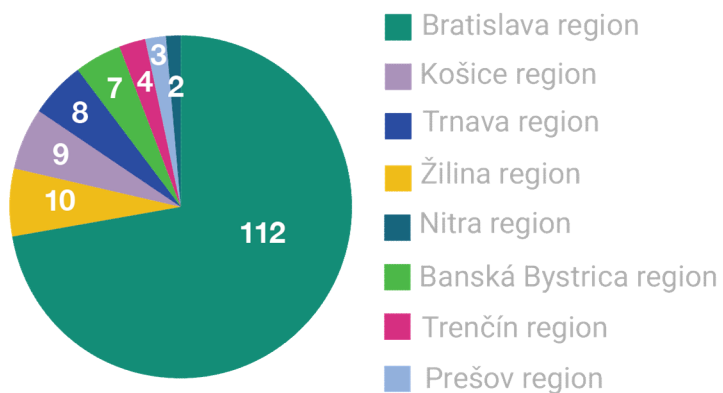


TYPE OF INSTITUTIONS

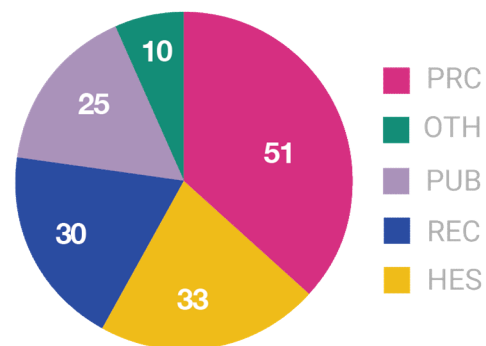


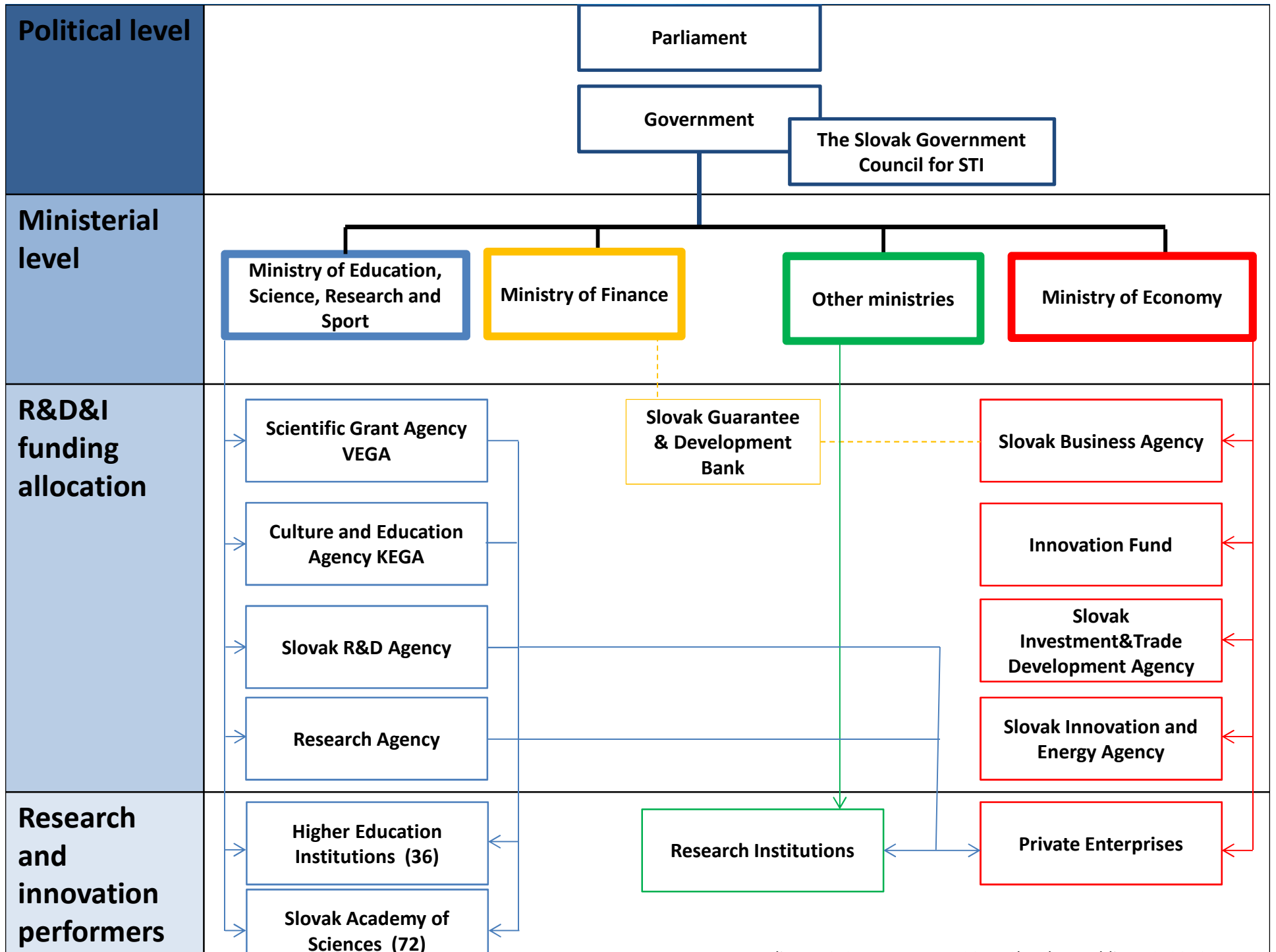
H2020

GEOGRAPHICAL DISTRIBUTION OF PARTICIPANTS



TYPE OF INSTITUTIONS

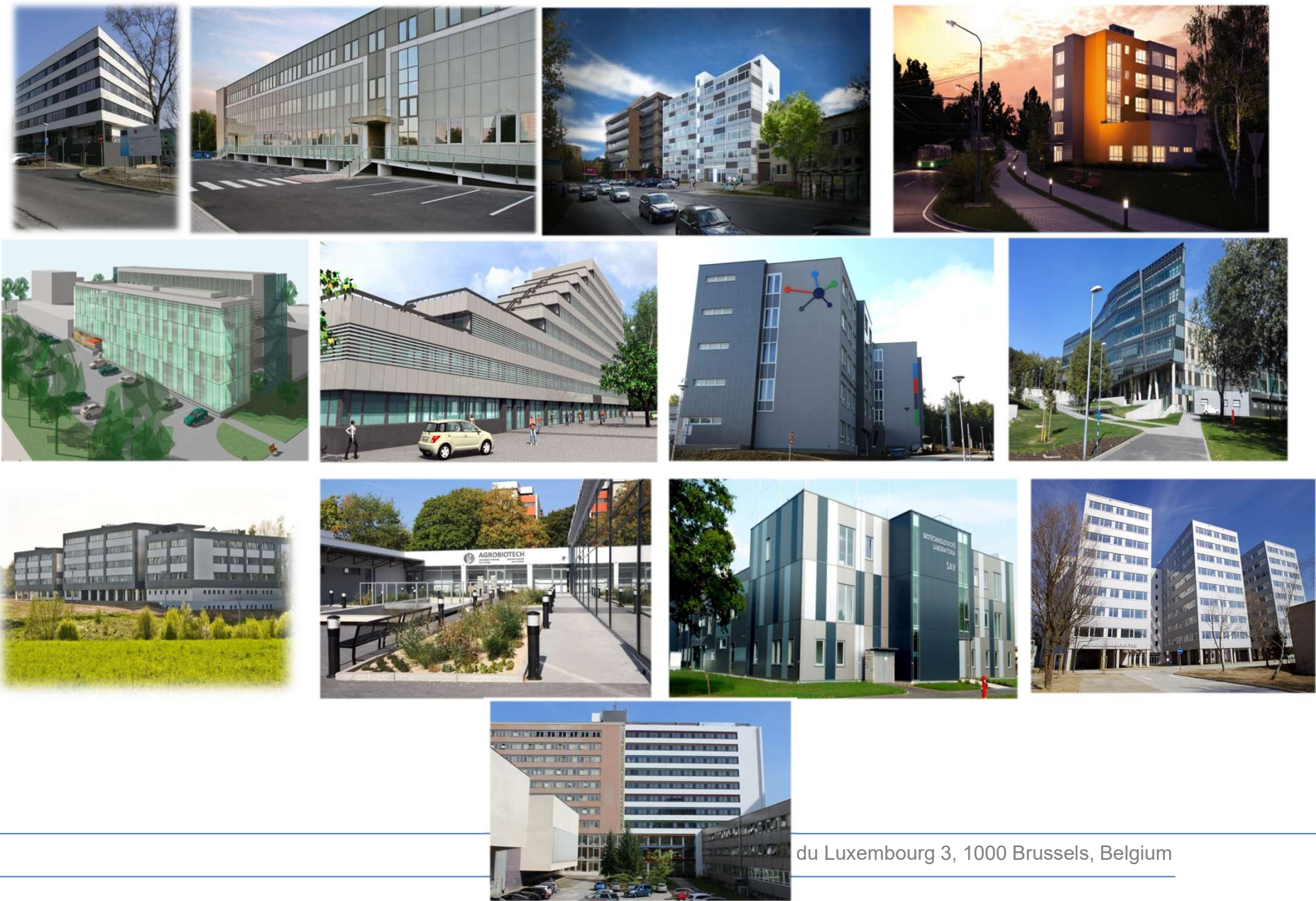




# New research infrastructures (RCs and USPs)







du Luxembourg 3, 1000 Brussels, Belgium







František Simančík and his team has developed **molten aluminium foam**



**AMOS** created by astronomers from the CU monitors southern sky and determines the trajectories of meteors



Pavol Alexy (STU) and his team has developed **100% bio-degradable plastics**



Michal Novák (SAS), author of ground-breaking discoveries of treatment of **Alzheimer's disease**  
Rue du Luxembourg 3, 1000 Brussels, Belgium



**Mobile Navigation**  
150 million users



**Cyber Security solutions**  
100 million users



**Games Developer**  
25 million players



**Canoe and kayaks**  
9 out of 12 medals in Rio





**Plasma-based technology PLASMABIT**



**Ecocapsule**



**Intelligent battery technology  
Innovation Radar Prize 2015 winner**

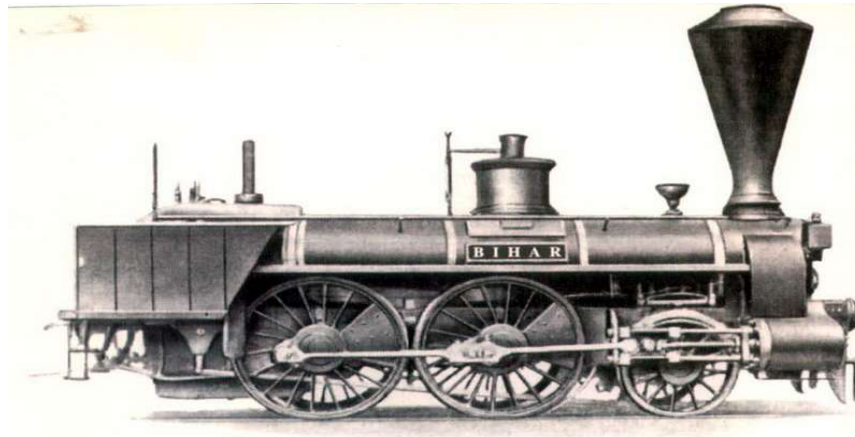


**AeroMobil 3.0**



# R&I past and future

1848



## Elon Musk's Hyperloop could head to Europe before California

As two companies compete to make Hyperloop a reality, one looks to Slovakia as the first destination, ahead of the original Los Angeles to San Francisco rail plan



Could Slovakia be the first country to have its own Hyperloop? Photograph: Hyperloop Technologies

ALEX DAVIES TRANSPORTATION 03.11.16 7:00 AM

## SLOVAKIA IS A NATURAL FIRST STOP FOR THE HYPERLOOP—NO JOKE

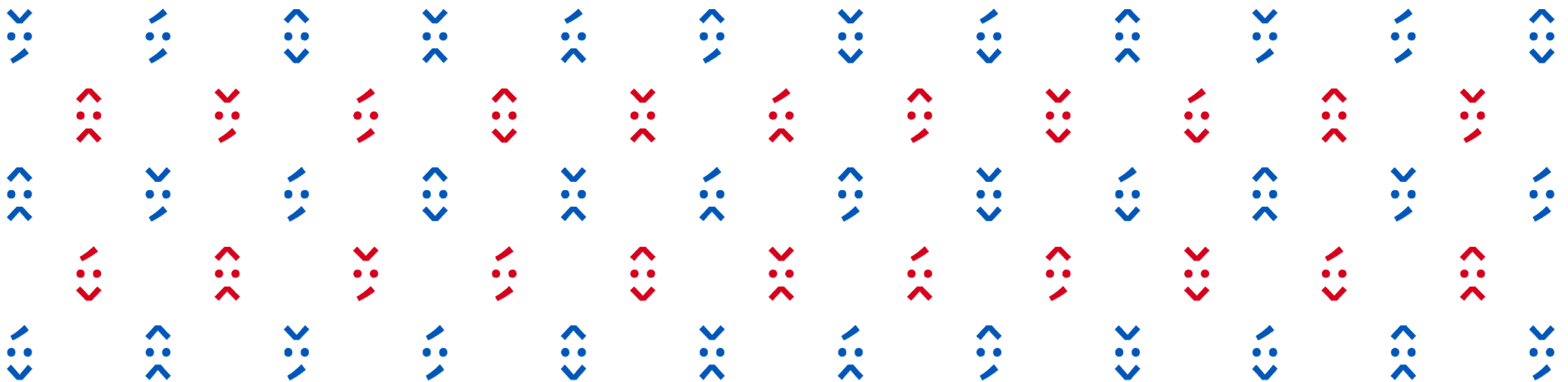


Rue du Luxembourg 3, 1000 Brussels, Belgium

2016

# SK EU2016

Slovak Presidency of the Council  
of the European Union





## Thematic focus and parallel sessions are following:

- Technology trends for industries
- Materials for energy and automotive
- Industrial symbiosis and new value chain
  - R&D impact for industry
- Human resources in reindustrialized Europe
  - Financial track and innovation

<http://www.reineu2016.eu>

**Thematic focus and parallel sessions are following:**

- 30 excellent speakers, 9 plenaries and 6 parallel sessions, inspirational keynotes, interesting pre-conference and side events including a matchmaking event for those who want to find partners for H2020 project consortia, an excellent opportunity to meet colleges and discuss burning societal issues.
- The conference will stress the vital role of the research in social sciences and humanities in the European research agenda and in addressing relevant societal challenges.

<http://www.ssh2016.eu>



## Thematic focus and parallel sessions are following:

Spreading Excellence and Crossing the Innovation Divide Conference will provide a platform for stakeholders to have an in-depth discussion on the role of excellence in European research and innovation as well as opportunities presented through Horizon 2020, ESIF and other national and international programs to bridge the innovation gap between countries, regions, research institutions, universities and enterprises. The event will serve as a forum to assess the results of Teaming, Twinning and ERA chairs in order to point out the main reasons for these disparities.

<http://secid2016.eu/>

# SET PLAN CEEC 2016

TOWARDS A TRANSFORMED EUROPEAN ENERGY SYSTEM  
WITH THE NEW, INTEGRATED RESEARCH, INNOVATION AND  
COMPETITIVENESS STRATEGY

30 November - 2 December 2016 | BRATISLAVA

## **Thematic focus and parallel sessions are following:**

The conference will examine the process of creating the European Energy Union, looking specifically at the research and innovation strategy which is a key to producing a breakthrough in transforming the EU energy sector. The aims are to improve the visibility of the Energy Union, identify policy options and priorities and plan future actions.

SET Plan – CEEC X will feature 8 main panels on the priorities of the Energy Union and SET Plan, 6 parallel thematic dinner sessions on related subjects attended by policy-makers and figures from business, science and innovation, civil society and regional and local government.

<http://www.setplan2016.sk>

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