







Creating Healthy Lives—The Future of Medical Innovation

PROTECTION OF INDUSTRIAL PROPERTY RIGHTS IN EUROPE

Prague, September 19, 2019

Dr. Sacha Wunsch-Vincent Head of Section, Economics and Statistics Division Co-editor of GII, WIPO



Why the Global Innovation Index?

Helps place innovation firmly on the policy map

Allows economies to assess national innovation performance.

Provides strong impetus for economies to prioritize and collect innovation metrics.

Leaders incorporate innovation and rankings as part of their economic policy strategies.

Economies invest resources to analyze results and metrics to design appropriate policy reactions

Experimenting with new data and evaluating existing metrics is shaping the innovation measurement agenda.



INSTITUTIONS

Political environment Regulatory environment **Business environment**

The Global Innovation Index 2019



Innovatio n Input

Sub-Index

RESEARCH Education

HUMAN CAPITAL AND

Tertiarty education Research & development (R&D)

INFRASTRUCTURE

ICTs

General infrastructure Ecological sustainability



MARKET SOPHISTICATION

Credit Investment

Trade, competition, & market scale



Global

Innovation Index





KNOWLEDGE AND TECHNOLOGY OUTPUTS

Knowledge creation Knowledge impact Knowledge diffusion



Intangible assets Creative goods and services Online creativity



Knowledge workers Innovation linkages Knowledge absorption





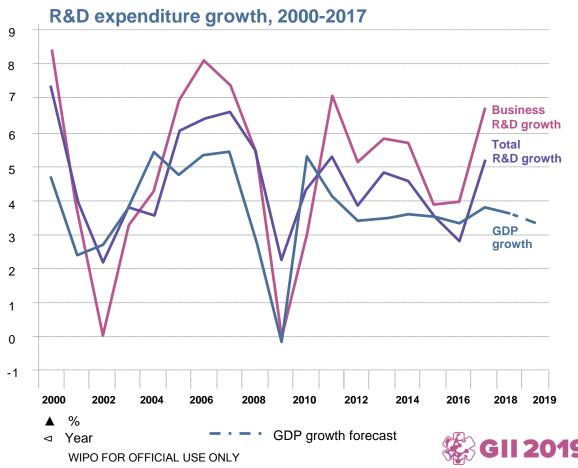


1: Amid economic slowdown, innovation is blossoming around the world

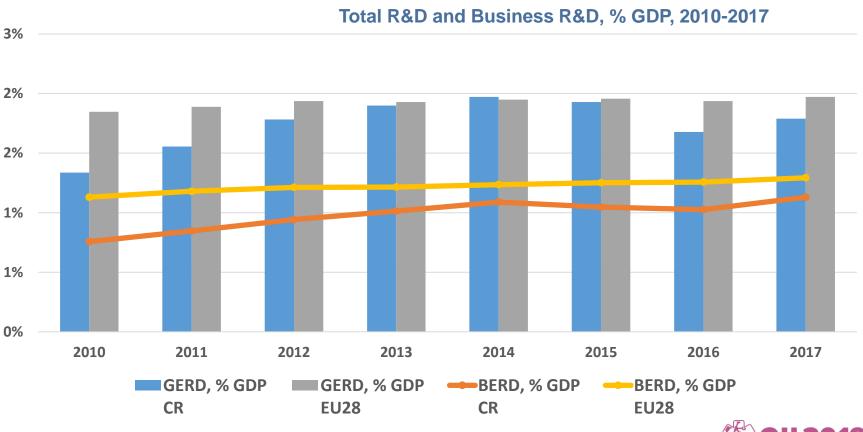
- Innovation now on the map of developed and developing economies worldwide
- R&D expenditures growth faster than the global economy.
 - More than doubling between 1996 and 2017

Yet new obstacles = risks

- Public R&D expenditures growing slowly or not at all.
- Increased protectionism.



Czech Republic is rapidly catching up with EU's R&D spending



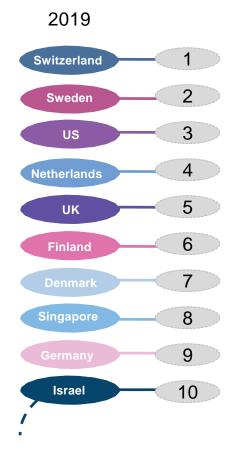
2: Europe making a strong showing in top GII ranks

Movement in the GII, top 10, 2018 -2019

- Stable top echelon leading.
- Europe makes a stunning appearance on the GII

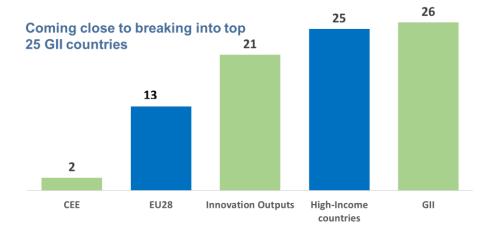
Some middle-income economies are on rise

- China (14) moves into the top 15.
- Viet Nam (42) and Thailand (43) closer to the top 40.
- India (52) and the Philippines (54) getting closer to top 50.



Czech Republic in the GII 2019

Czech Republic positions 26th economy in the
 GII (moving up one position since last year).



 Czech Republic is Innovation leader in Central and Eastern Europe – it ranks 2nd in the GII and 2nd in the Quality of Innovation.



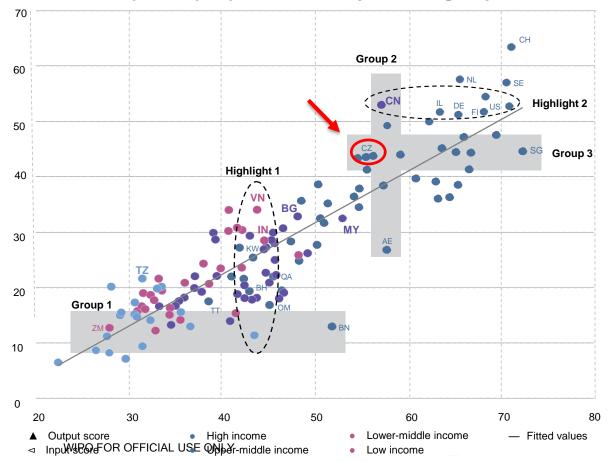
3: Some economies get more for their innovation investments than

others

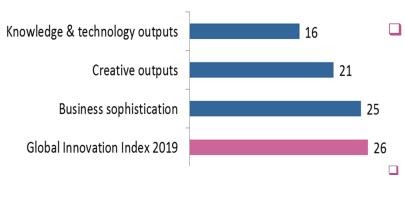
 A divide also exists when translating inputs into outputs.

- This happens even among highincome economies.
- Czech Republic is highly efficient in translating its Innovation Investments into Innovation Outputs.

Innovation input/output performance by income group, 2019



Czech Republic in the GII 2019



Czech Republic ranks 1st in the world:

- High-tech net exports (1st)
- Creative good exports (1st)

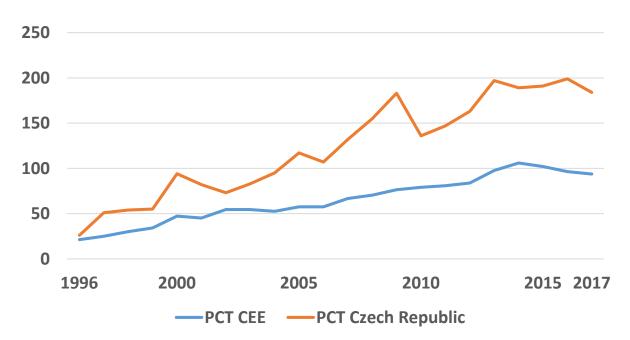
Czech Republic performs exceptionally w

- ISO 9001 quality certificates (3rd)
- High- & medium-high-tech manufactures (5th)
- Utility models (6th)



Czech Republic: PCT filings, 1995-2017

95% National patent applications are filed by residents



Czech Republic features rapid and constant growth in international PCT patent filings, well surpassing CEE trend.

Major technological fields:
Pharma & Chemistry, Medical technology, and Transport.

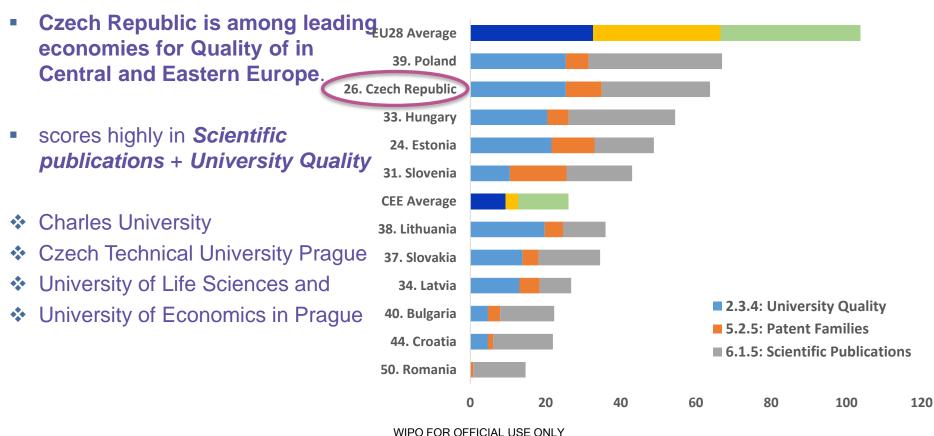
Czech Republic also has constant trend in exceeding CEE average in National patent filings.



4: Shifting focus from innovation quantity to innovation quality remains a priority

Quality of innovation: Central and Eastern Europe, 2019

score



5: Most top S&T clusters are in the U.S., China, and Europe

- The U.S. host the largest number of clusters (26).
- China holds the secondlargest number (18).
- Europe ranks high
- European Innovation
 Scoreboard: Prague a
 regional pocket of excellence

Top cluster of economies or cross-border regions within the top 20, 2019

Rank	Cluster name	Economy(ies)
1	Tokyo-Yokohama	Japan
2	Shenzhen-Hong Kong	China/Hong Kong, China
3	Seoul	Republic of Korea
4	Beijing	China
5	San Jose-San Francisco, CA	United States of America
9	Paris	France
15	London	United Kingdom
18	Amsterdam-Rotterdam	The Netherlands
20	Cologne	Germany

Brazil, India, Iran, the Russian Federation, and Turkey also in the top 100

Conclusion

Historic chance

 Czech Republic has opportunity to reinforce its innovative potential and place itself among Europe's innovation leaders by 2030.

Implementing the strategies with measurable targets and staying the course

• Innovation Strategy of the Czech Republic 2019-2030 a crucial plan and guiding mechanism to promote science, research and innovation.

Leveraging IP to attain socio-economic development goals

Celebrating innovation of private sector and individuals

