

# POLITICS AND ECONOMY IN USA-EU TRADE RELATIONSHIP AND THE ISSUES OF RESEARCH AND DEVELOPMENT

## ABSTRACT

This master's thesis discusses the political-economic relations of the US and EU from the end of the Second World War to the present. It reviews economic situation between partners, bilateral trade in high-technology sector and compares it to trade with other countries. Goal of the thesis is to define structure of research and development in each region, describe main differences and investigate conflicts emerging in this area. Lastly, it looks into 5G network implementation and challenges related to it.

## KEY WORDS

US, EU, United States, European Union, research and development, R&D, ICT, information and communication technologies, bilateral trade, high-technology, R&D conflicts, 5G network

## THE AIM OF THE THESIS

Master's thesis focuses on mapping of bilateral relations between EU and US, its development and the role of mutual trade and investment. It investigates problematics of Research and Development in both regions, compares its structure, key components and conflicts.

## ABSTRAKT

Diplomová práce pojednává o politicko-ekonomických vztazích USA a EU od konce druhé světové války po současnost. Zhodnocuje ekonomickou situaci mezi partnery, bilaterální obchod v sektoru high-technology a srovnává jej s obchodem s dalšími zeměmi. Cílem práce je definovat strukturu vědy a výzkumu v jednotlivých regionech, popsat hlavní rozdíly a prozkoumat konflikty vznikající v této oblasti. Nakonec se zabývá implementací 5G sítě a problémy s ní související.

## KLÍČOVÁ SLOVA

USA, EU, Spojené Státy Americké, Evropská Unie, věda a výzkum, VaV, IKT, informační a komunikační technologie, bilaterální obchod, high-technology, VaV konflikty, 5G síť

## CÍL PRÁCE

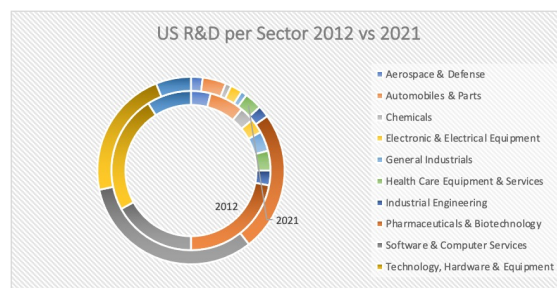
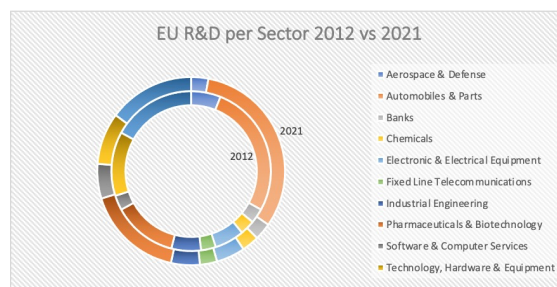
Diplomová práce se zaměřuje na zmapování bilaterálních vztahů mezi EU a USA, jejich vývoj a roli vzájemného obchodu a investic. Zkoumá problematiku vědy a výzkumu v obou regionech, porovnává jeho strukturu, klíčové složky a konflikty.

### R&D Source of Funding

	EU-27	USA
Business enterprise	57.9	66.3
Government	30.2	20.1
Higher education	1.2	3.1
Private non-profit	0	3.3
Rest of the World	9.6	7.2

### R&D Performance sectors

	EU-27	USA
Business enterprise	1.51	2.58
Government	0.27	0.32
Higher education	0.51	0.39
Private non-profit	0.02	0.14
<b>TOTAL</b>	<b>2.31</b>	<b>3.43</b>



## CONCLUSION

Even with through analysis of specific programs, it is still hard to compare R&D mechanisms in both regions as they are completely different. While EU funding is controlled centrally which helps it to coordinate and harmonize projects. US has multiple federal agencies independently managing their R&D agendas.

The R&D gap between both regions is mainly caused by lower investment in business enterprise sector in EU and structure of its economy. While US firms invest in ICT companies and those with big R&D intensity, EU's priority sector remains automotive. To change course of this, EU should invest more in key innovative firms and sectors.

