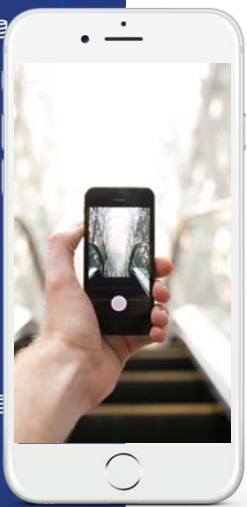




Radoslav Repa
*Digital Transformation of Government
Economy and Society: Slovak Context*
Economic and Environmental Forum
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 DEPUTY PRIME MINISTER'S OFFICE
FOR INVESTMENTS
AND INFORMATIZATION
OF THE SLOVAK REPUBLIC

• Brave New *Digital* World



- Novel technologies and digital innovations are going to significantly disrupt and transform all dimensions of our lives, including governments, industries and societies.
- Governments, in a close cooperation with industry, academia and civil society, have to navigate this process in order to assure that all citizens and businesses will benefit from the coordinated digital transformation.



Digital transformation will happen anyway. Inevitable in Slovakia?

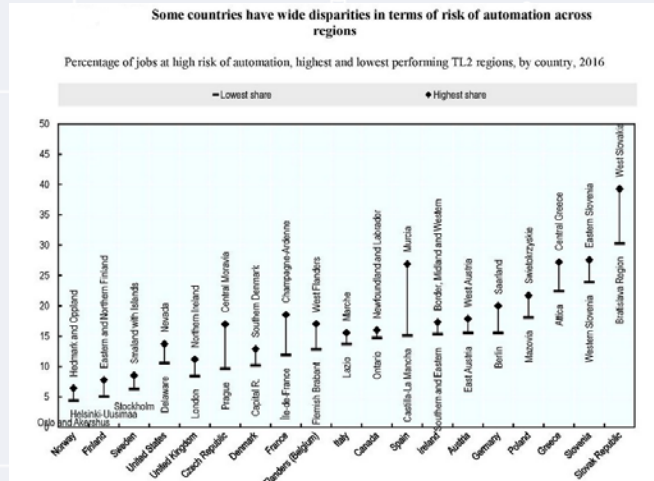
- Slovakia is a pro-export oriented **industrial country** mainly focusing on car manufacturing – **worldwide ranking 1** when it comes to cars production per capita.
- **Cheap labour force** is still a strong competitive advantage of our economy, however, we may likely lose this asset in mid-term perspective and an urgent need will pop up to re-define further engine of our economic growth and sustainability.
- In order to boost digital and data economy, it is inevitable to **increase digital skills across the society**. According to DESI, 59% citizens have at least basic digital skills, but only 33% have above basic digital skills.

	Slovakia				EU
	DESI 2017	DESI 2018	DESI 2019	rank	DESI 2019
2a1 At least basic digital skills	55%	59%	59%	12	57%
% individuals	2016	2017	2017		2017
2a2 Above basic digital skills	29%	33%	33%	12	31%
% individuals	2016	2017	2017		2017
2a3 At least basic software skills	57%	63%	63%	10	60%
% individuals	2016	2017	2017		2017
2b1 ICT specialists	2.8%	2.9%	2.8%	19	3.7%
% total employment	2015	2016	2017		2017
2b2 Female ICT specialists	0.7%	0.6%	0.8%	23	1.4%
% female employment	2015	2016	2017		2017
2b3 ICT graduates	2.9%	2.9%	3.2%	18	3.5%
% graduates	2014	2015	2016		2015

- **Digital Economy and Society Index (DESI) 2019** indicates, that integration of digital technologies by businesses is low in Slovakia (21/28 Member States). Only 13% of businesses are highly digitised, whereas 52% achieve only low levels of digitisation.
- According to the latest Deloitte's research there is a clear **correlation between a country's GDP and the business models** which prevail in the focused country. It is observed that countries supporting technology-based business models have positive GDP growth, while the revenue multiplier results grow enormously.

Robotization of work

According to OECD study „Job Creation and Local Economic Development 2018“, Slovak jobs are at the highest risk of automation among OECD member countries.



More online than offline life

- According to a study conducted for Orange Slovakia in 2016, 95 percent of kids aged 10 have a cell phone with Internet. More than 25 percent of kids between ages 6-9 are on the internet daily.
- Another study by Institute for Public Affairs, every fifth Slovak is addicted to computer and Internet. 36 percent of adults would not be able to spend one single day without their smartphone.



Strategy of Digital Transformation 2030

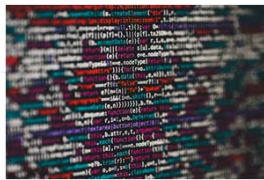
- It is a governmental strategy that defines the general state policy and particular priorities with regard to the already ongoing digital transformation → to be coordinated and set under control.
- The Strategy puts emphasis on novel digital technologies such as artificial intelligence, internet of things, 5G technology, distributed ledger technologies, high-performance computing and on data processing operations.
- It sets the vision of Slovakia to become a modern digital country with sufficient innovation potential in a span of the next decade.
- Focuses on 5 areas: **economy, society and education, public services, rural development and science and research.**

Action Plan of Digital Transformation 2019 - 2022

- A short-term plan of concrete measures that will help achieve the first deliverables of the vision stated in the Strategy.
- 4 main areas, 66 particular goals in:



Transformation of
Education System



Development of
Digital and Data
economy



Innovation in
Public Services



Development of AI
Ecosystem

Examples of particular initiatives

- Establishment of a coordinating body to fight disinformation
 - Preparation of legislative initiatives
 - Awareness raising campaigns
 - Support of NGOs in this field
 - Setting up the targeted SOC
- Activities leading to increase of share of women in ICT and digital sector
 - Life-long learning programmes for women
 - Support of NGOs in this field
 - Grants and scholarships for women
 - Reform of workplace environment to actively support returning mothers and young parents
- Implementation of "personal data management" project
 - Application, which will allow citizens and entrepreneurs to oversee their personal data

Examples of particular initiatives

- Drafting and implementation of Data Law
 - Legislative framework defining management of public data
- Open API applications to boost new business opportunities and improve public services
 - Technical tool to improve publishing and re-use of public data in various business projects
- Working manual for AI application in businesses
 - Manual, which advises businesses how to apply AI applications in order to make their business models more competitive
- Good Governance Model
 - Better public services thanks to digital innovations and novel technologies
 - Policymaking based on AI recommendations

Building a New Institutional Framework

- In order to be capable to implement the initiatives and goals defined in the Action Plan of Digital Transformation, Slovakia will need to strengthen its institutional framework. We plan to found and support the following institutions:

National HPC Competence Centre

Cyber Security Competence Centre

Digital Coalition

National Digital Innovation Hub network

Support to the Slovak.AI platform

Support to the Blockchain platform

Thank You

Questions?

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