McKinsey & Company

# The rise of Digital Challengers

How digitization can become the new growth engine for Slovenia

June, 2019

McKinsey & Company with strong presence across the entire CEE region



# We have the biggest footprint in the region



The largest and most experienced strategy consulting firm with extensive local footprint



Over 1800 people in McKinsey & Company in the region



9 local offices with over 270 consultants



Recognized and trusted partner in public, social and private space

# We have deep understanding of the Slovenian market

McKinsey served some of the largest companies in Slovenia<sup>1</sup> across more than 10 different industries, out of which several were in digital sphere

<sup>1</sup> Slovenian activities are covered by consultants from CEE office complex

# We are a thought leader in the CEE region on topics such us economic development, automation, and digital opportunities

# Dedicated reports launched by McKinsey in CEE in the last 5 years

# **Pan-CEE reports**



**Digital Challengers** 



Reigniting growth in CEE

# **New growth model for CEE countries**



5 opportunities for Poland



Poland 2025



How Hungary can win productivity race

### **Future of work**



**Automation** potential in Poland



**Automation** potential in Hungary

# **Digital**



**Digital Czech** Republic



**Digital** Poland



Al Revolution

# Contents

- Potential of digital economy
- Current digitization of Slovenian economy
- Key drivers of digitization
- Recommendations

Despite significant increase in the last years, Slovenian Real GDP per capita is still 2.5 times lower in comparison to the Digital Frontrunners ...



1 Belgium, Denmark, Estonia, Finland, Ireland, Luxembourg, Netherlands, Norway, Sweden 2 CEE: Bulgaria, Croatia, Czech Republic, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia, Slovenia 3 France, Germany, Italy, Spain, UK

Real GDP per capita, 2017, EUR



Real GDP per capita growth, 2013-2017, %











# ... mainly driven by lower productivity and limited

investments



Labor



Capital

Productivity - GDP per hour worked<sup>2</sup>, 2017, EUR

Unemployment, 2017,%

Hours worked per year per employee, 2017

Capital stock per employee, EUR mln, 2016











Slovenia





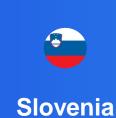




<sup>1</sup> Cobb—Douglas production function; Total production = Total factor productivity \* Labor inputβ \* Capital inputα (α + β = 1; α and β are the output elasticities of capital and labor, respectively)

<sup>2</sup> EUR purchasing power parities in current prices

<sup>3</sup> Belgium, Denmark, Estonia, Finland, Ireland, Luxembourg, Netherlands, Norway, Sweden











As traditional growth engines fade away, digital economy is the new growth driver



**Share of digital** economy<sup>1</sup> % GDP, 2016













**Growth of** digital economy %, 2012-16







9.9

<sup>1</sup> Sum of gross value added for sectors ICT, e-commerce and consumer spending on digital equipment (e.g., computers, smartphones, smartwatches) 2 France, Germany, Italy, Spain, UK

# Digital economy growth potential for Slovenia "Aspirational value extraction scenario", EUR bln

Strong focus on digitization can generate additional 2.1 EUR billion of GDP in Slovenia by 2025





Digitization with potential to drive considerable GDP contribution for Slovenia; however, wider macroeconomic implications need to be considered and mitigating actions to address these implications need to be developed

<sup>1</sup> Assumptions: Acceleration of e-commerce and consumer offline spending on digital until 2025 to yield 0.7 EUR bln based on Sweden benchmark; Capturing digitization potential in business and public sector assumed growth until 2025 to yield 1.4 EUR bln

# Contents

- Potential of digital economy
- Current digitization of Slovenian economy
- Key drivers of digitization
- Recommendations

Slovenia's digital potential can be achieved by addressing gaps in the digitization level of private and public sectors



Finance and insurance



Manufacturing



Professional, scientific & technical services



**Utilities** 



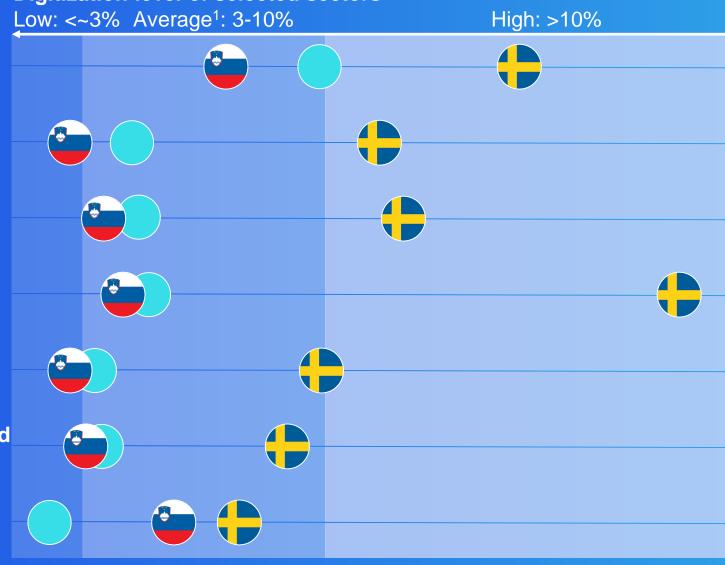
Trade (retail & wholesale)



**Transportation and** warehousing



**Public** administration

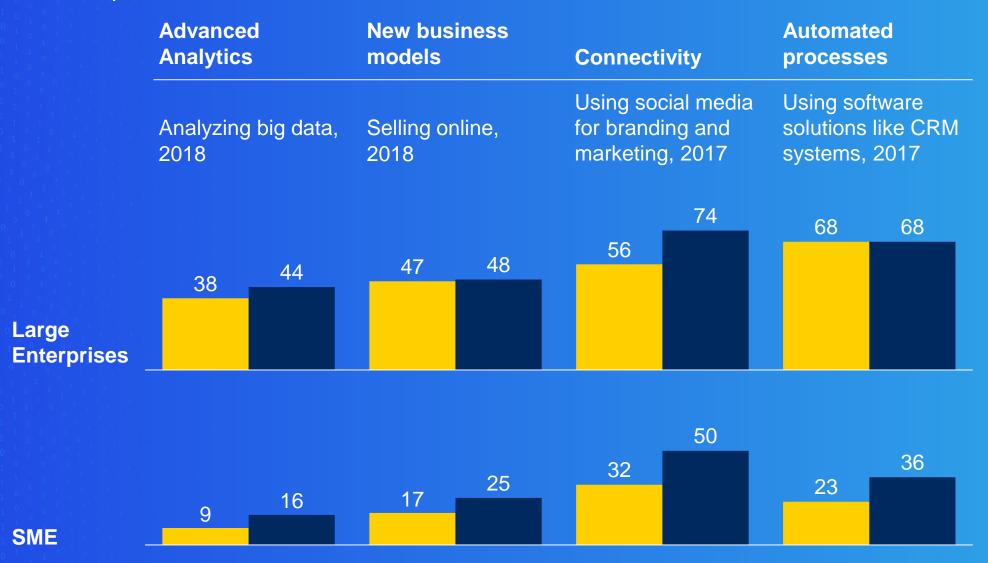


<sup>1</sup> Average level of all sectors (excluding the most advanced ICT sector and finance)

# **Digitization of business – selected KPIs** % of companies

Slovenia **Digital Frontrunners** 

Large enterprises in Slovenia are in many aspects as digitized as Digital Frontrunners, however SMEs in Slovenia do not fully use the potential of digitization



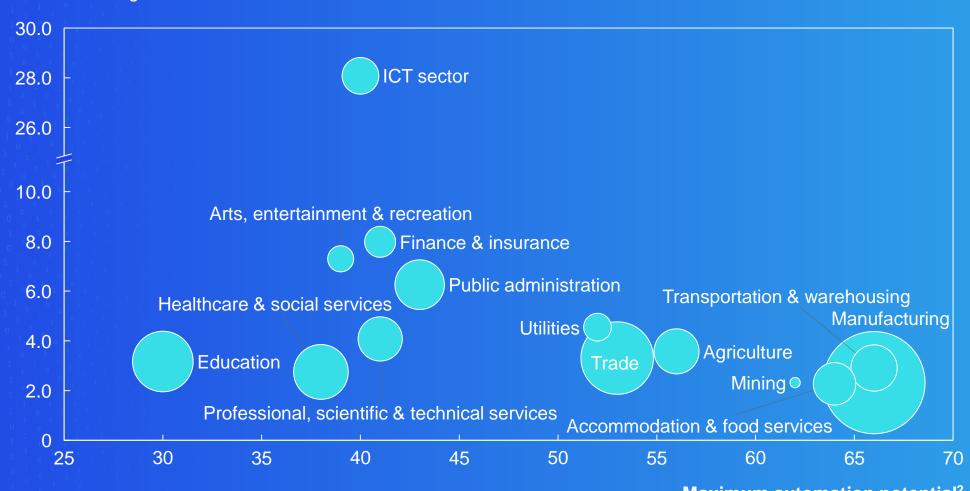
SOURCE: Eurostat

The largest sectors in Slovenia in terms of employment are also the ones most likely to experience a labor market mismatch in the future



Sector size by total workforce





Maximum automation potential<sup>2</sup> % of working hours

<sup>1</sup> Estimates for sectors made in line with MGI methodology; construction & real estate sectors excluded due to lack of available data 2 Estimate for sectors made in line with MGI methodology by using Czech Republic, Hungary and Poland data as a proxy

Automation will drive substantial shift in required skill set towards technology and socials skills





**Basic cognitive** skills







**V** 16



Social and emotional skills



**22** 



**Direction of skill** shift



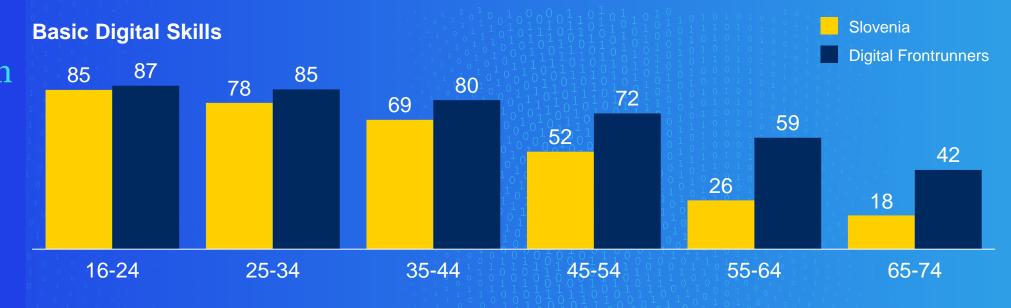
Technology skills \_\_\_\_\_52



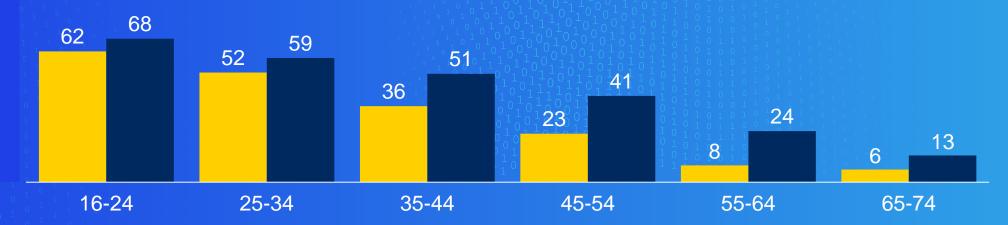
1 Based on Western Europe estimates SOURCE: McKinsey Global Institute

# Even though today Slovenian population has lower basic and advanced digital skills compared to Digital Frontrunners, younger population is reducing the gap

# Digital Skills in Slovenia vs Digital Frontrunners by age group, %



### **Advanced Digital Skills**



# Contents

- Potential of digital economy
- Current digitization of Slovenian economy
- Key drivers of digitization
- Recommendations

Two strengths Slovenia can build upon its **Digital** Challenger status



# Good primary and secondary education quality in developing math and science literacy

 Math, reading and science literacy PISA<sup>1</sup> average of 509, above Digital Frontrunners' score of 505



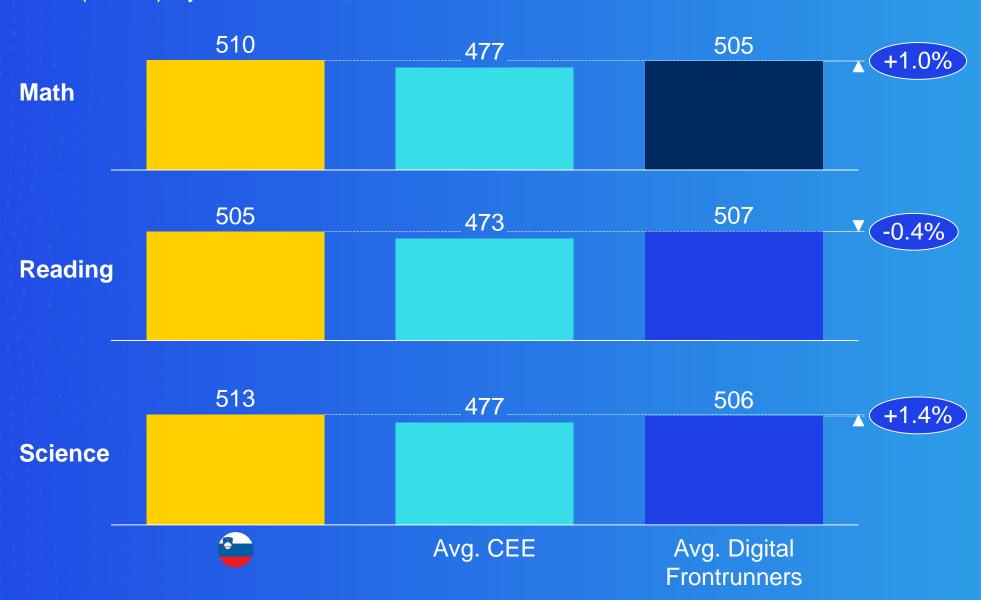
# Relatively well developed digital infrastructure

- Approx. 96% of the population with 4G access, at the level of Digital Frontrunners

# Scores in Math, Reading, Science Literacy PISA (OECD) Synthetic scores, 2016

Gap to Digital Frontrunners

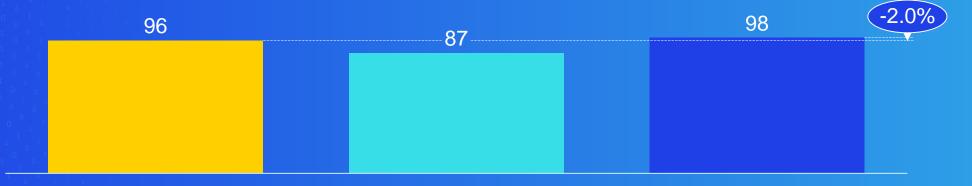
Math and science literacy in Slovenia is on par with Digital Frontrunners



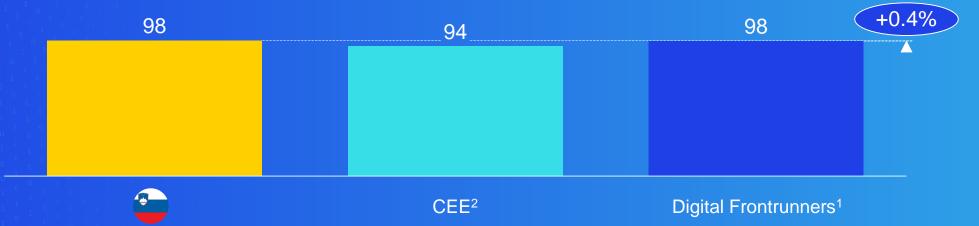
There are no significant gaps in terms of access to fixed and mobile internet in Slovenia in comparison to Digital Frontrunners

# Percentage of populated areas covered by 4G – measured as the average coverage of telecoms

% of the country



### Households covered by the standard fixed broadband (availability) % of the households



<sup>1</sup> Digital Frontrunners: Belgium, Denmark, Estonia, Finland, Holland, Ireland, Norway, Luxemburg, Sweden 2 Bulgaria, Croatia, Czech Republic, Hungary, Latvia, Lithuania, Poland, Romania, Slovakia, Sloveni

To strengthen Slovenia's Digital Challenger status additional push can be done in three major areas



The adoption of digital tools in public and private sectors



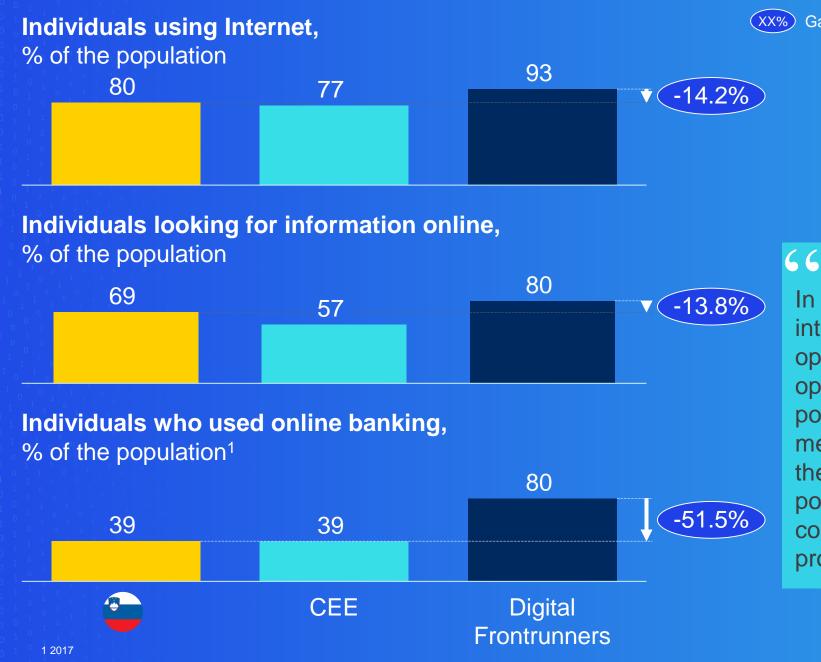
Development of digital and soft skills among the general population



Support innovation and entrepreneurship development and further ease of running a digital business



Although internet penetration gap is not very large, difference between Slovenia and Digital Frontrunners gets significant in terms of usage of internet services

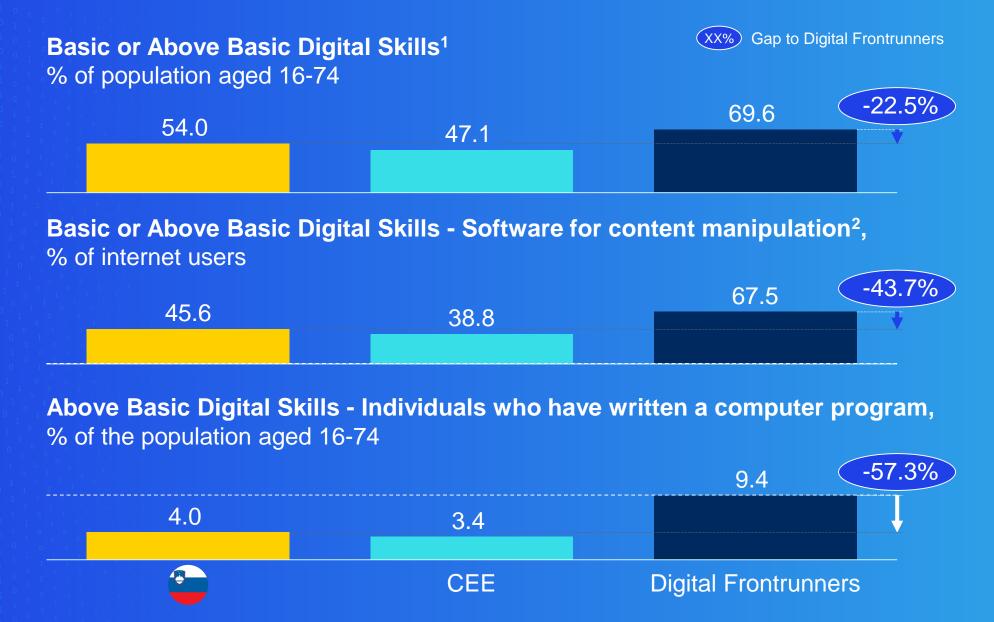




In CEE people use internet mostly to operate basic operations (e.g., posts on social media) instead of the full spectrum of possibilities that connectivity provides



Significant gap is observed in terms of digital skills in Slovenia against Digital Frontrunners



<sup>1</sup> Individuals not using internet are classified without digital skills. To be classified "basic or above basic" on the overall indicator an individual has to have basic or above basic skills in all the four Digital Competence domains included in the index: information, communication, content-creation and problem-solving.

SOURCE: DESI 2018, Eurostat McKinsey & Company 21

<sup>2</sup> Software skills for content manipulation refer to the ability to create and edit new content (from word processing to images and video); integrate and re-elaborate previous knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licenses.

# Contents

- Potential of digital economy
- Current digitization of Slovenian economy
- Key drivers of digitization
- Recommendations



# Public sector

- Build skillset for the future by developing a wide-ranging reskilling strategy, updating youth education for the future and actively counteracting brain drain
- Support technology adoption in the public sector by speeding up the development of online public services and its adoption
- Support technology adoption among **businesses** by promoting digitization benefits and digital transformation, enabling e-commerce through favorable regulation and incentivizing companies to use digital tools
- Strengthen regional cross-border digital collaboration by creating a strong digital pillar within regional collaboration platforms and ensuring standardized & flexible digital policy solutions
- Improve startup eco-system by developing entrepreneurial talent pool and, supporting startup hubs, increasing and simplifying access to capital

recommendations to increase digitization in Slovenia



## Private sector

- **Invest in human capital** by preparing talent strategy for the digital economy, updating approach to recruiting and actively driving reskilling
- Actively adopt technology and innovation by adapting your business model and leveraging digital tools in both revenue and cost management
- **Embrace a pro-digital organizational** culture by ensuring role modeling from top leadership and implementing reinforcing mechanisms to reward adoption digital



- Prepare for the digital economy by investing in life-long learning, especially in competencies that are hard to automate
- Take advantage of digital tools by leveraging digital platforms and tools in everyday life

10%

Digital economy annual growth in Sweden Digital Challengers countries and Slovenia may aspire to such a growth dynamic in the future

Slower growth of the Digital Economy compared to the Non-Digital economy - still with a huge upside

3x

The digital opportunity in Slovenia summary

bn euro Additional GDP potential can be achieved by digital economy in Slovenia by 2025

Adoption of digital tools in public and private sectors and development of digital skills among the general population are essential to fully realize the potential of the digital economy in Slovenia

McKinsey & Company

Available at:

Digitalchallengers.mckinsey.com

Thank you