



European  
Policies  
Research  
Centre  
Delft



# Digitalisation and regional development - a European perspective

*Stefan Kah*

*Lugano, 23 November 2018*

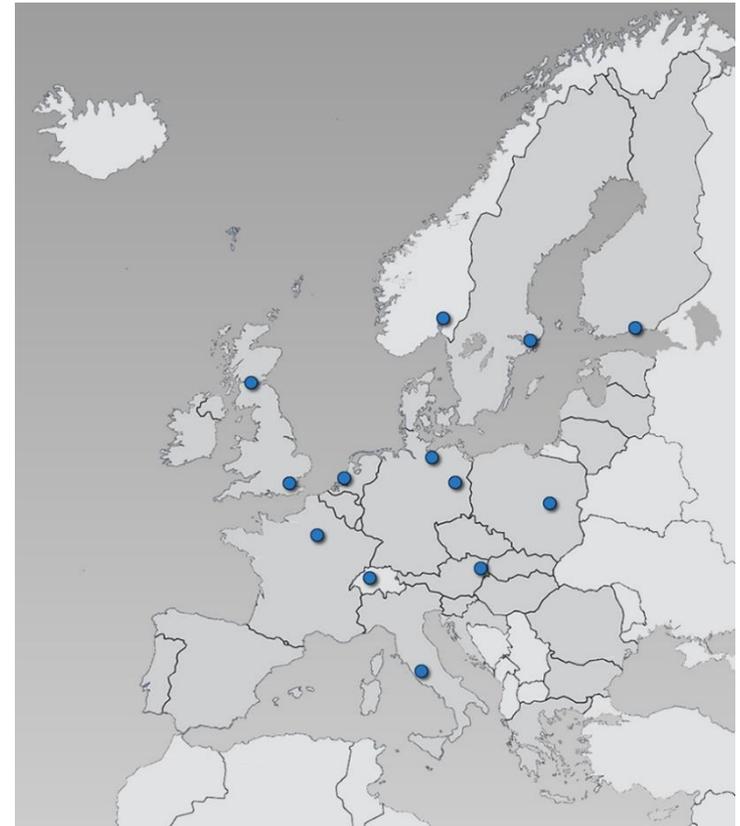
# EPRC

## European Policies Research Centre

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- research institute at the University of Strathclyde in Glasgow
- founded in 1978, 18 staff + network of associates
- specialises in comparative research on public policy, especially regional development policies across Europe
- research, knowledge exchange and policy advice for national governments, European institutions, sub-national authorities
- second base established in 2017 at Technical University of Delft (EPRC Delft)

- Long-term programme of research & knowledge exchange
  - founded in 1978 by DE, IT, NL, UK
  - currently comprises economics/industry ministries from AT, **CH (SECO)**, DE, FI, FR, IT, NL, NO, PL, PT, SE, UK
  - involves comparative study of national regional and territorial development policies in 30 European countries
  - also analysis of EU Competition policy, control of State aid and EU Cohesion policy → influence on national policy



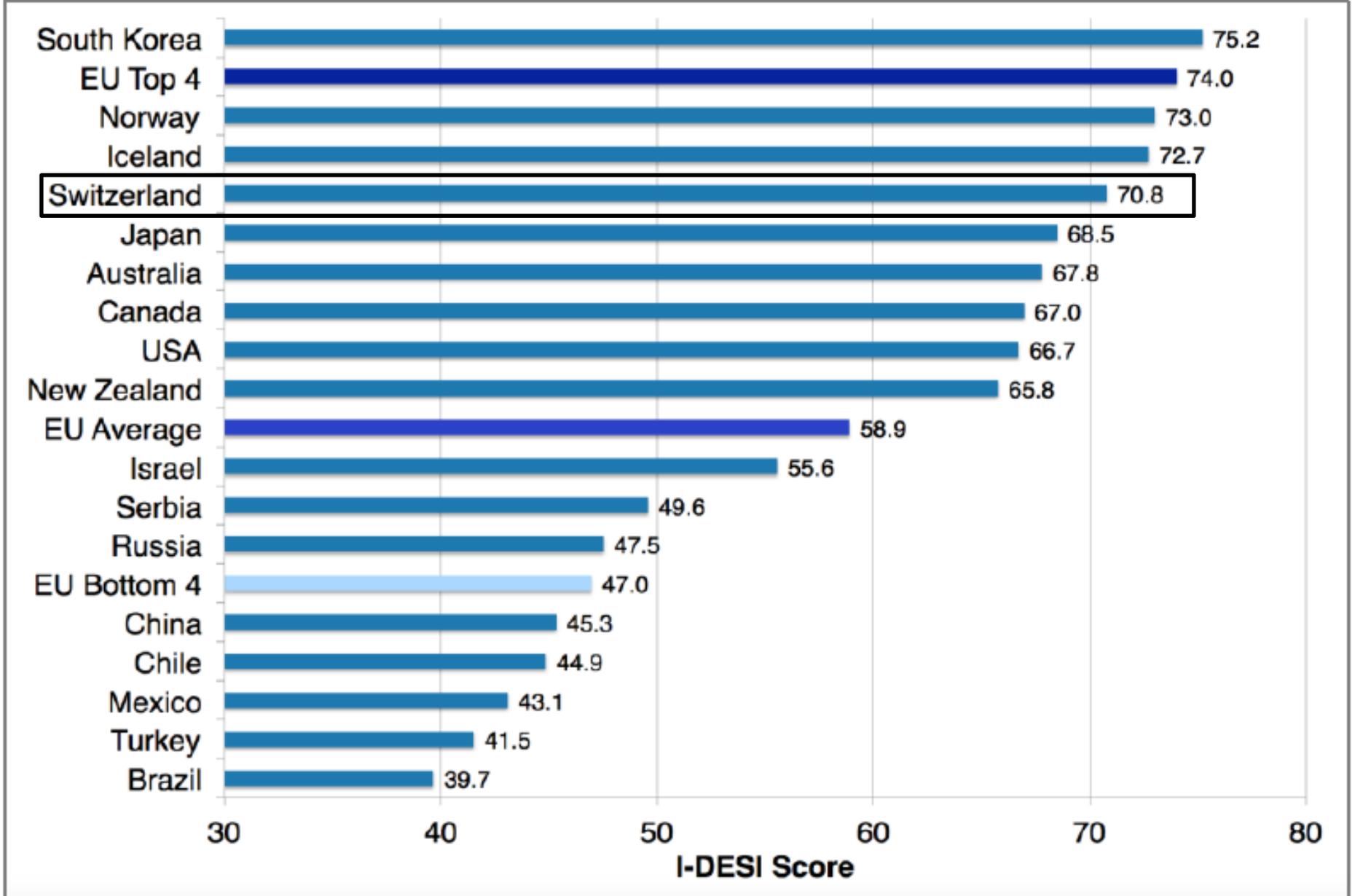


***‘Digitalisation is the transformation of all sectors of our economy, government and society based on the large-scale adoption of existing and emerging digital technologies’\****

# 1 Digitalisation performance of Switzerland

# I-DESI 2018

## International Digital Economy and Society Index



**1 Connectivity:** The deployment of broadband infrastructure and its quality.

**2 Digital Skills:** The skills needed to take advantage of the possibilities offered by a digital society.

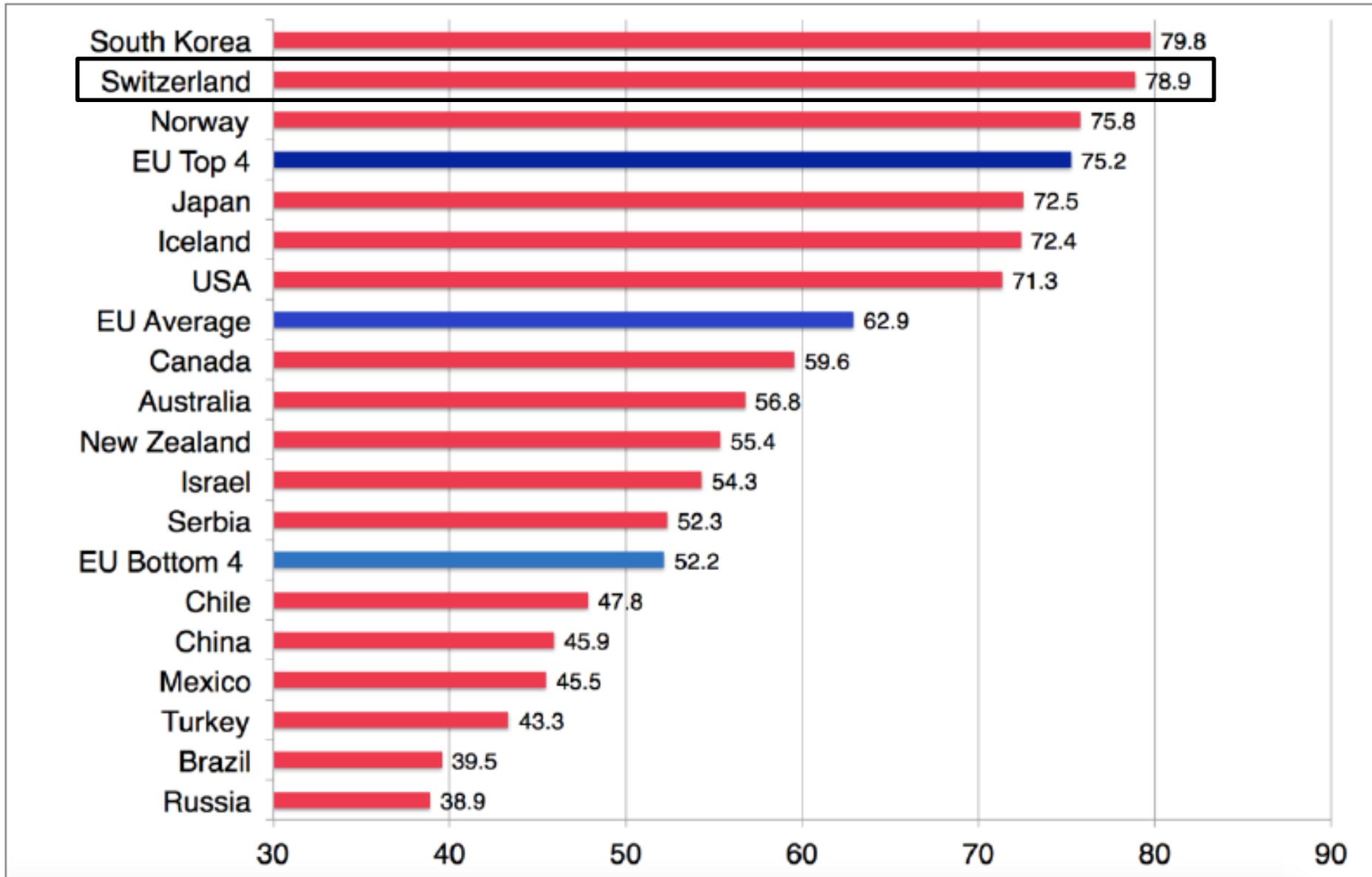
**3 Citizen use of Internet:** The variety of activities performed by citizens already online.

**4 Business technology integration:** The digitisation of businesses and development of the online sales channel.

**5 Digital public services:** The digitisation of public services, focusing on eGovernment.

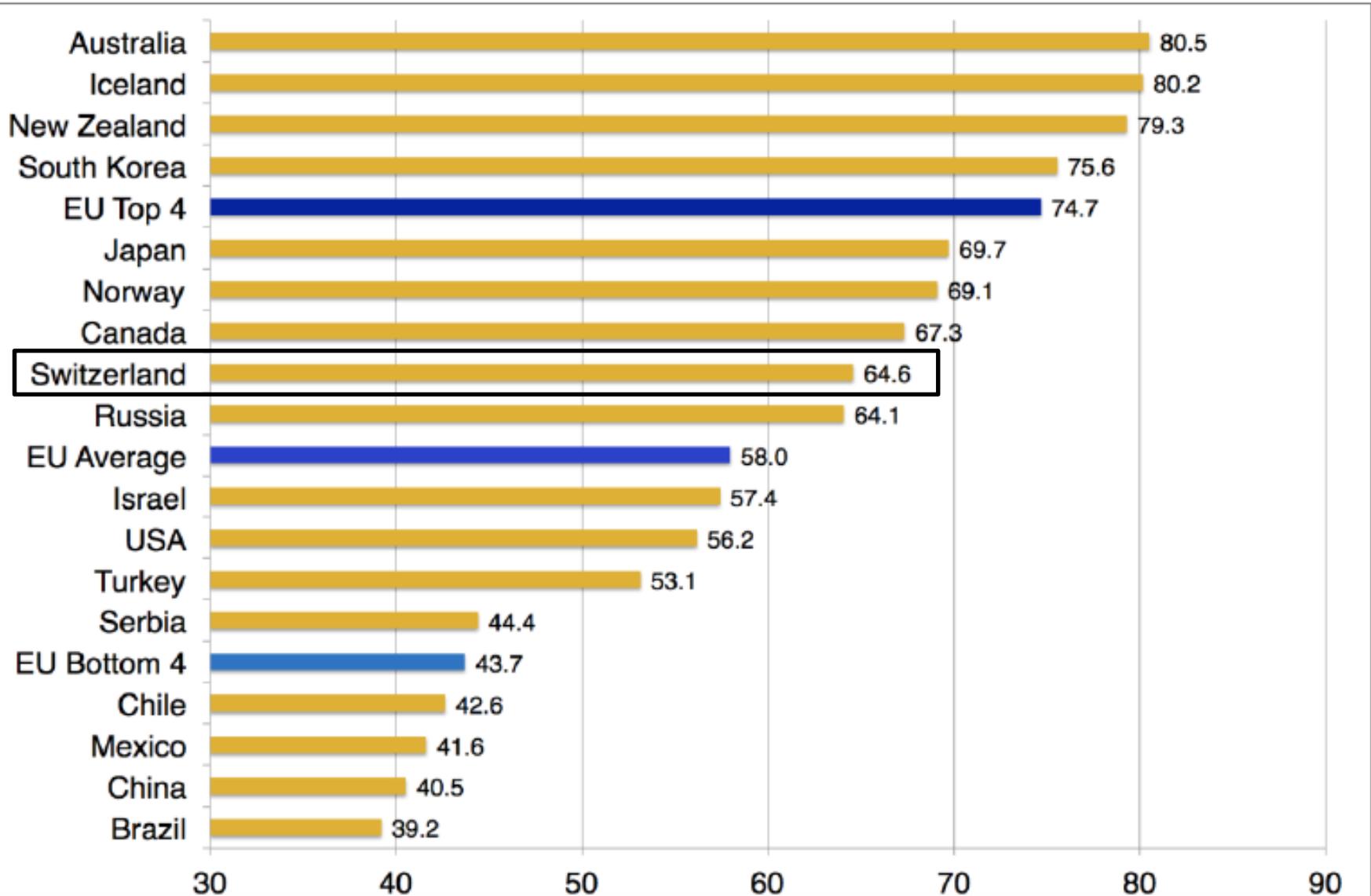
# Connectivity

## Deployment of broadband infrastructure & quality



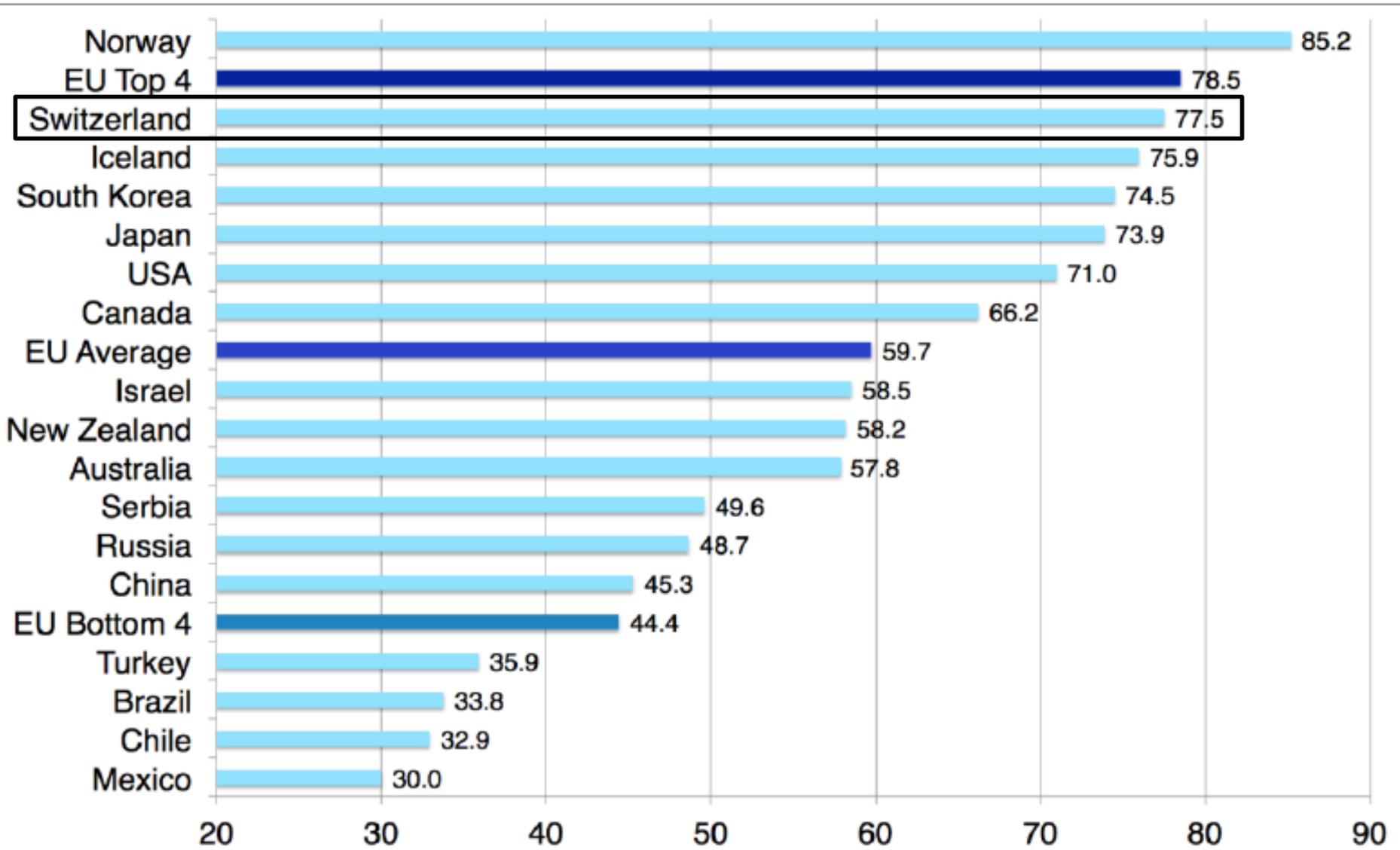
# Human Capital

Skills needed to exploit the possibilities of digital society



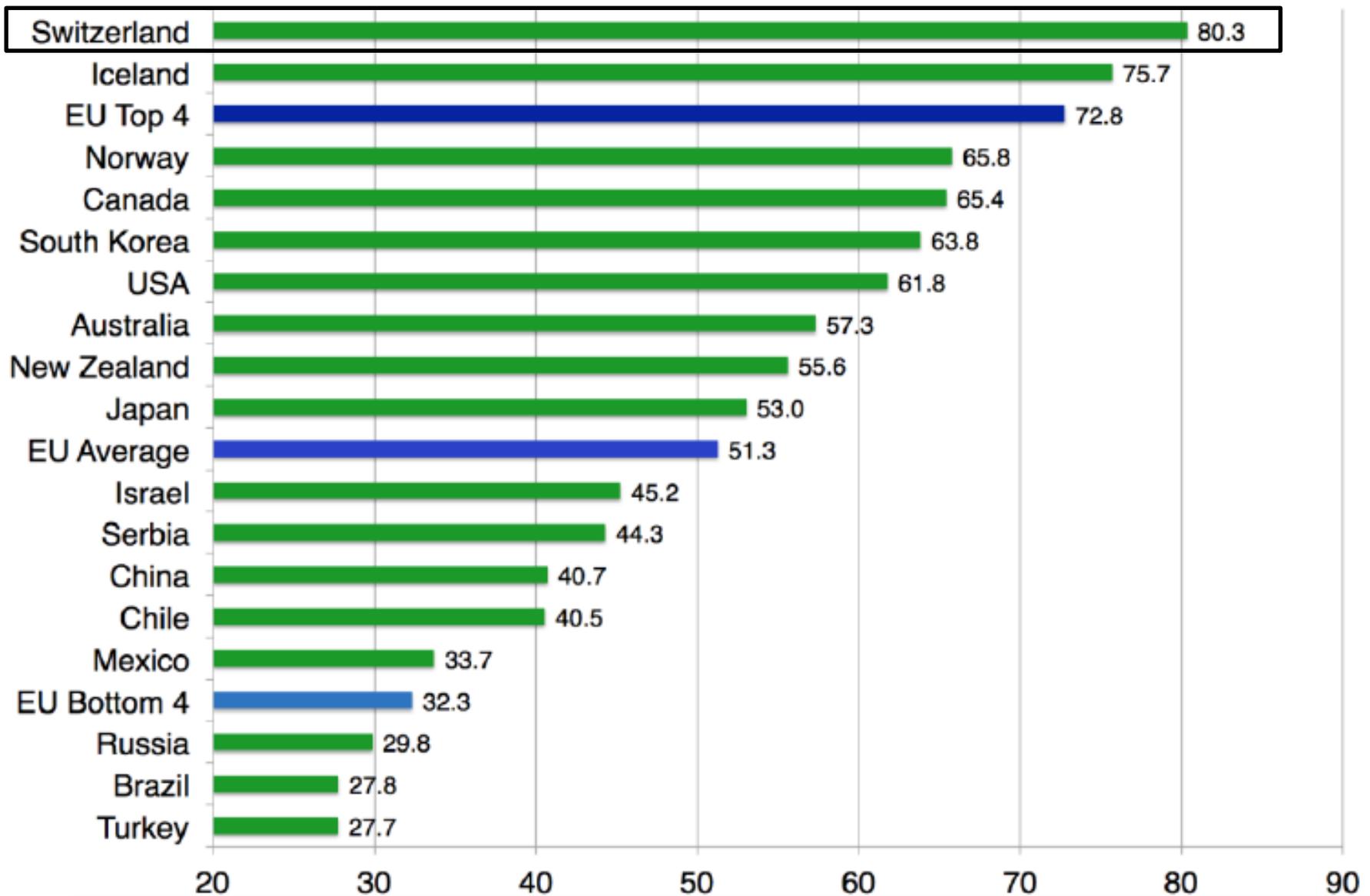
# Use of Internet

Activities performed by citizens already online



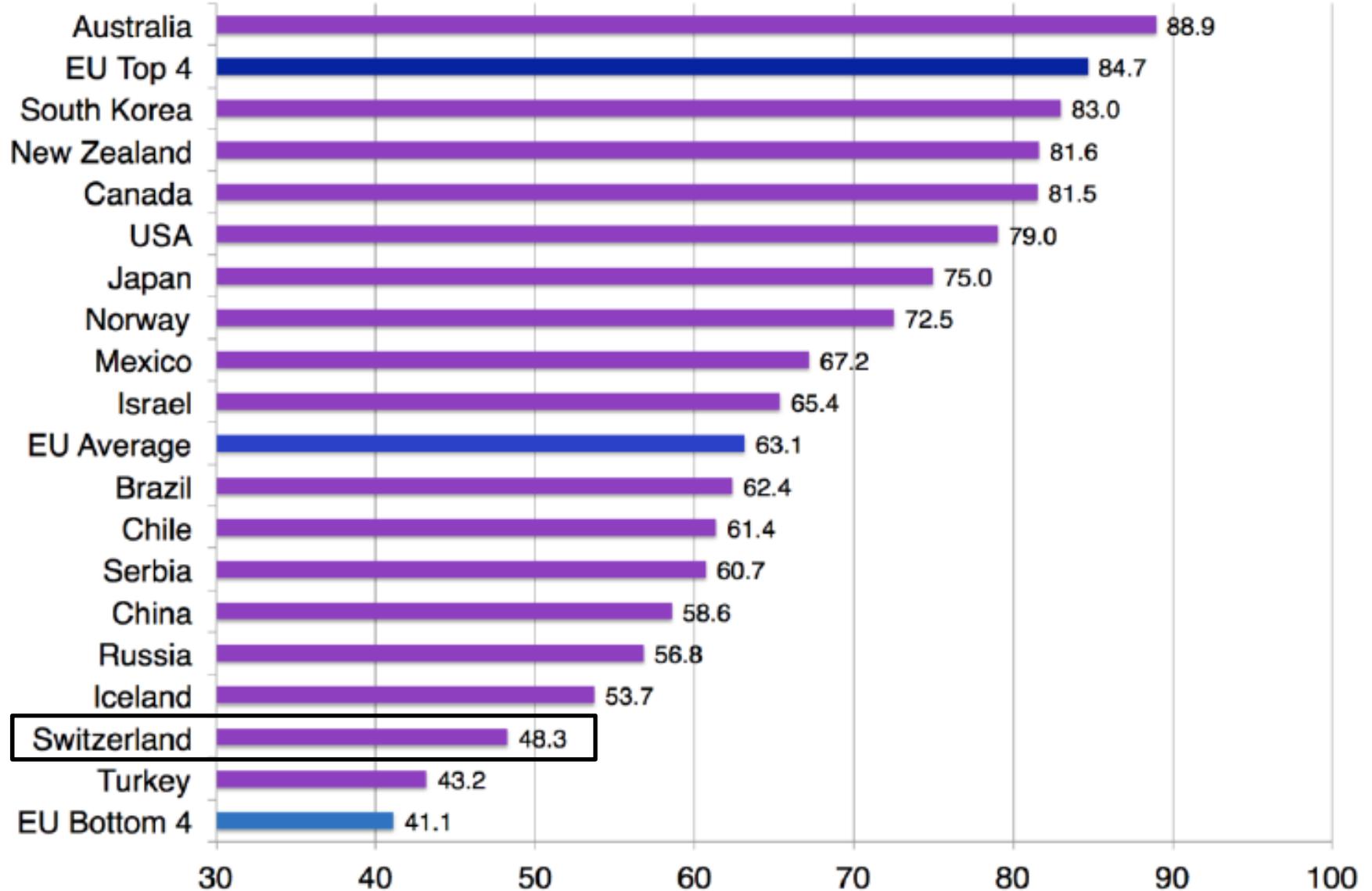
# Integration of Digital Technology

Digitalisation of businesses & their exploitation online sales channels



# Digital Public Services

Digitalisation of public services, e.g. eGovernment



CH

Suitability for  
(regional)  
policy response

1 **Connectivity:** The deployment of broadband infrastructure and its quality.

2.

✓

2 **Digital Skills:** The skills needed to take advantage of the possibilities offered by a digital society.

9.

(✓)

3 **Citizen use of Internet:** The variety of activities performed by citizens already online.

3.

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4 **Business technology integration:** The digitisation of businesses and development of the online sales channel.

1.

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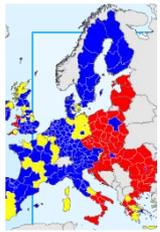
5 **Digital public services:** The digitisation of public services, focusing on eGovernment.

18.

(✓)

# 2 Policy responses

# 2a. EU policy responses



Thematic Objective ICT



eHealth Action Plan



Digital Single Market Strategy



Skills Agenda for Europe



EU eGovernment Action Plan



EU Action for Smart Villages



Digital Education Action Plan



Wifi4EU I

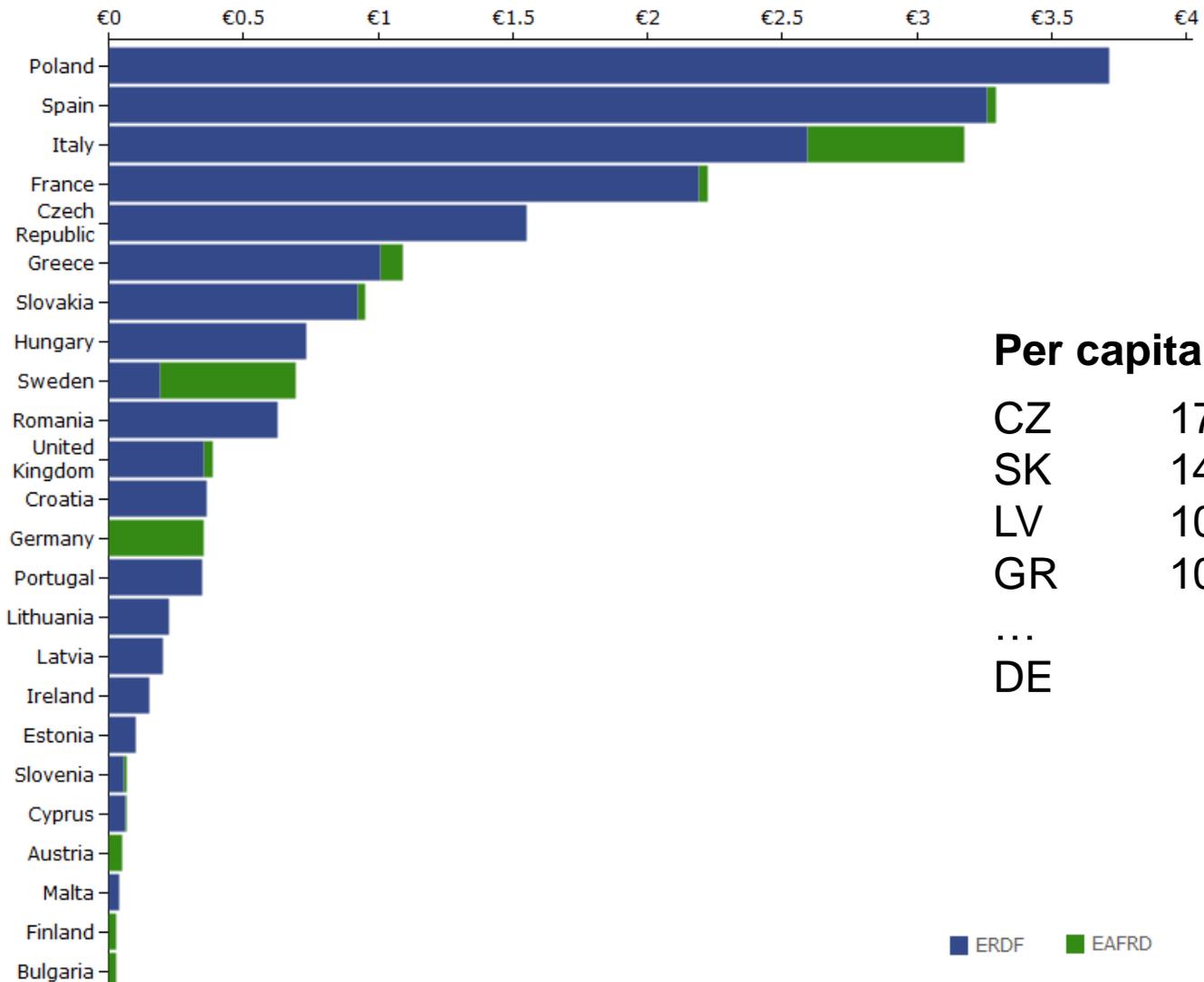
# European Structural and Investment Funds

## “Thematic Objective 2 – ICT”

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- €20.5 billion (2014-20)
- EU Member States are asked to focus on:
  - a) *extending **broadband deployment** and the roll-out of high-speed networks and supporting the adoption of emerging technologies and networks for the digital economy;*
  - b) *developing **ICT products and services**, e-commerce, and enhancing demand for ICT; and*
  - c) *strengthening ICT applications for **e-government, e-learning, e-inclusion, e-culture and e-health***
- Use of regional development (ERDF) and/or rural development (EAFRD) funding
- No minimum allocation
- Poland: specific Operational Programme dedicated solely to investment in digitalisation (€2.5 billion)

# ERDF and EAFRD budgets allocated to TO2 ICT in 2014-20, by EU Member State



## Per capita:

CZ	177€
SK	146€
LV	107€
GR	102€
...	
DE	4€

# EU Action for Smart Villages

- Launched April 2017
- Cuts across different policy areas

Action	Implementation	Timing
Thematic working group on Smart Rural Businesses	ENRD	2016-17
Thematic working group on Smart Villages	ENRD	2017-19
Workshop on access to data and data platforms	EIP-AGRI	April 2017
Seminar on new data-driven business development	EIP-AGRI	June 2017
Conference on innovation in agriculture and rural development	Portuguese Ministry of Agriculture and DG AGRI	October 2017
Pilot project on Smart Eco-Social Villages	DG AGRI	2017-18
LEADER/CLLD	Member States and regions	2014-20
Smart specialisation platform agri-food	DGs REGIO, AGRI, JRC, RTD and regions	2014-20
Broadband Competence Offices (BCO)	DGs AGRI, REGIO and CNECT	2016-20
Digital Innovation Hubs (DIH)	DGs CNECT and RTD	2014-20
Pilot Project 'Smart Rural Transport Areas' (SMARTA)	DG MOVE	From 2016
Internet of Things	DGs AGRI and CNECT (Horizon 2020)	2017-20
More efficient and smarter door-to-door logistics	DG MOVE (Horizon 2020)	2016-17
Business models for modern rural economies	DG AGRI (Horizon 2020)	2016-17
Future calls under the 'rural renaissance' header	DG AGRI (Horizon 2020)	2018-20
Data-driven bioeconomy	DG CNECT (Horizon 2020)	2017-19



# 2b. Project examples

# Digital services 'Digital Villages' in Rheinland-Pfalz (Germany)



- Digital solutions for people living in sparsely populated areas
- €4.5 million (domestic), 2015-19
  - online marketplace (BestellBar)
  - mobile app and delivery service (LieferBar)
  - local news portal (DorfNews)
  - mobile app (DorfFunk)



- €1,737,632 (ERDF, Interreg Europe), 2016-20
  - 11 partners from 7 countries (FI, FR, HU, IE, IT, SE & SI)
  - Exploit the economic and social potential of existing digitalisation infrastructure
  - Co-development of e-services to meet real needs on the ground
1. Define policy or practice goals for the services;
  2. Identify and engage relevant stakeholders and define their goals;
  3. Co-design the service;
  4. Set indicators and values, estimate and then monitor social, economic and environmental return on investment.

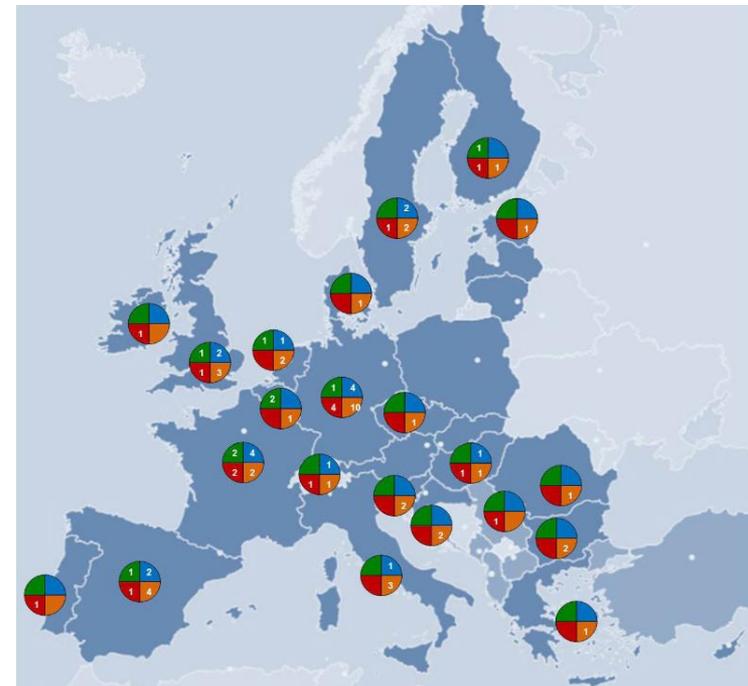
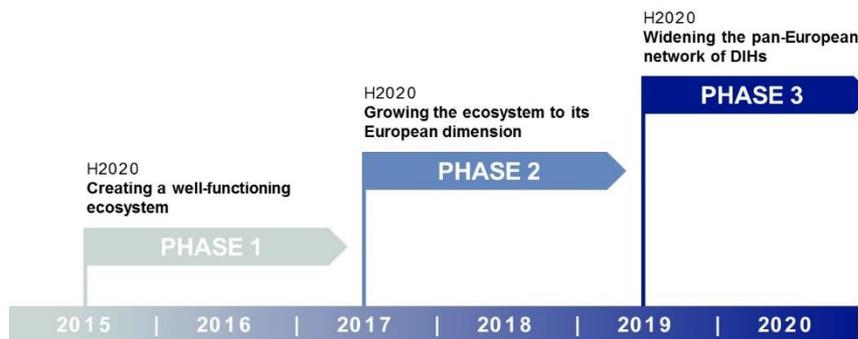


# SAE

## Smart Anything Everywhere



- Enhancing the digital transformation of the European industry through Digital Innovation Hubs (DIHs)
- €52 million (Horizon 2020), 2017-20
- >350 participants from 23 EU & non-EU countries
- Areas
  - Cyber Physical Systems
  - Advanced Computing
  - Smart Systems Integration
  - Organic and Large Area Electronics



# Conclusions

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- Switzerland's digitalisation performance is very good – with some specific weaknesses
- Some challenges are better suited for (regional) policy responses than others
- Policy measures for digitalisation are well-funded and diverse in terms of
  - policy areas
  - themes
  - target groups
- But – where is regional development policy intervention best placed?