



# Aspects of Digital Life

#### Webinar, Thursday 28 November 2019, 10:00-11:00 CET



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Dr. **Stamatis Poulakidakos**, University of Athens

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  - We are recording this webinar we plan to put it on our website





# Overview

- Introducing CESSDA, important data sources on aspects of digital life and how to access this data (Dimitra Kondyli, EKKE-SoDaNet)
- Investigating the digital divide, based on data from the World Internet Project (WIP) (Professor **Nicolas Demertzis**, University of Athens, Director & President of the Governing Body of EKKE)
- The impact of social media during the national campaigns of the 2019 European elections ( Dr. **Stamatis Poulakidakos**, laboratory Teaching Staff, University of Athens)
- Questions and answers
  - · Please type questions into question box in the webinar control panel





## **Key-Data sources**

 Technologies, applications and innovations in the digital economy and consequently digital life impact a broad range of economic-societal areas. As of 2018, there are 3.4 billion internet users worldwide which means over half the global population, whilst the percentage shrinks when we refer to the share of households with a computer at home worldwide.

Source: World Bank.





They have also transformed the data landscape by creating the so called- data deluge-. We will shortly highlight some key data sources as well as surveys that cast light on some of these aspects of digital life. Because of this accumulation and production datasets can be found in many sites and be distributed by many data archives or repositories etc.





# About CESSDA

#### Mission:

- To enable research community to conduct highquality research in the social sciences by providing a full scale sustainable research infrastructure
- To develop standards and best practices
- To promote training and knowledge with regard to social sciences data
- To render data FAIR (findable, accessible, interoperable)





**CESSDA ERIC** is currently composed of nineteen member countries and one observer. Several European countries are in the process of becoming a **CESSDA** member or observer.



#### **CESSDA** Countries

Members	Partners	
Austria	Albania	
Belgium	Bosnia and Herzegovina	
Croatia	Bulgaria	
Czech Republic	Estonia	
Denmark	Iceland	
Finland	Ireland	
France	Italy	
Germany	Kosovo	
Greece	Latvia	
Hungary	Lithuania	
Netherlands	Luxembourg	
North Macedonia	Montenegro	
Norway	Poland	
Portugal	Romania	
Serbia	Russia	
Slovakia	Ukraine	
Slovenia		
Sweden		
Switzerland		
United Kingdom		





### Data sources in Europe EUROSTAT

https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Glossary:Digital\_divide



#### **Glossary:Digital divide**

**Digital divide** refers to the distinction between those who have internet access and are able to make use of new services offered on the World Wide Web, and those who are excluded from these services.

At a basic level, the participation of citizens and enterprises in the information society depends on access to information and communication technology (ICT), i.e. the presence of electronic devices, such as computers, and internet connections.

The term explicitly includes access to ICTs, as well as the related skills that are needed to take part in the information society.

The digital divide can be classified according to criteria that describe the difference in participation according to gender, age, education, income, social groups or geographic location.

#### **Related concepts**

- Digital literacy
- E-inclusion
- E-skills
- Information and communication technology (ICT)

#### Statistical data

- Digital economy and society statistics households and individuals
- Digital economy and society statistics enterprises

Categories: Education and training glossary | Glossary | Digital economy and society glossary

Glossary Discussion

ISSN 2443-8219



# Data sources in Europe

#### **EUROSTAT**

https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Glossary:Digital\_divide

**Access**: Users can find statistics by navigating through specific topics (see next slide).

For accessing **EUROSTAT** microdata researchers can apply via their research organisations under condition that these are recognised as research entities.

More:

https://ec.europa.eu/eurosthhat/documents/203647/771732/How\_to\_apply\_for\_microdata\_access.pdf





# Data sources in Europe

#### **National Statistical Offices:**

Measuring the use of ICTs via the Hellenic Statistical Authority

- The Survey on the Use of Information and Communication Technologies by Households and Individuals (HH ICT) is part of the European Statistical Programme.
- Main purpose: To study, at European and national level, the degree of ICT use by households. Most of the data provided are used for the benchmarking of the indicators of Information Society for 2016 – 2021.
- The survey collects data on internet access and ubiquitous internet connectivity, transactions with public authorities via the internet (e-government), e-commerce, etc.

Access is granted upon request along with detailed research proposal





# International data sources OECD:

www.oecd.org

Data can be browsed by **topic** or **country**. Users can find and share data that is browsed by **topic** or **country**.

In addition to data, indicators and publications are also available to users.

References: OECD (2019), Access to computers from home (indicator). doi: 10.1787/a70b8a9f-en (Accessed on 21 November 2019)

https://data.oecd.org/ict/access-to-computers-from-home.htm#indicator-chart





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Publications	INDICATOR in Information and communication technology (ICT)
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Agriculture	> ICT value added
Development	INDICATOR in Information and communication technology (ICT)
Economy	Access to computers from home
Education	INDICATOR in Information and communication technology (ICT)
' Energy	Internet access
Environment	INDICATOR in Information and communication technology (ICT)
Finance	Business use of broadband
Government	INDICATOR in Broadband access
Health	Fixed broadband subscriptions
Innovation and	INDICATOR IN Broadband access
echnology	Households with broadband access
Jobs	
Society	Mobile broadband subscriptions
rt results	Banking sector leverage     INDICATOR in Corporate sector
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Date	INDICATOR in Leading indicators





### International data sources ICPSR

cessda

#### www.icpsr.org

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housing (61)	Sort by: Study Relevance ~	<ul><li>▲ 1 2 3 4 5</li></ul>
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	1. Work Happiness among ICT Professionals 7 OPEN ICPSR	2017-08-24
Restriction Type	Omar, Sanan	more info
Data Format	<ol> <li>Information and Communication Technology (ICT) for Crown Prosecutors' Offices (ICPSR 22240)</li> <li>Iannacci, Federico; Cordella, Antonio; Kallinikos, Jannis</li> </ol>	2008-04-15
Collection Method	3. ICT Diffusion and Distribution Dataset, 1990-2007 (ICPSR 23562) Howard, Philip N.; Busch, Laura; Cohen, Spencer	2010-03-22
		<u>more info</u>
Data Type 🔹	4. Replication data for: Agglomeration of Invention in the Bay Area: Not Just ICT A ICPSR Forman, Chris; Goldfarb, Avi; Greenstein, Shane	2019-10-12
Time Method		more info
Time Period 👻	5. Europarometer 58.0: Services of General Interest, New Technologies, ICT, Health, Environment, and Public Safety, Sep October 2002 (ICPSR 3661) Christensen, Thomas	2010-04-26
		<u>more info</u>
Recent Releases 💉	Gaggi, Paul; Wright, Greg C.	2019-10-12



# International data sources

#### **PEW Research Centre**

https://www.pewresearch.org/internet/profile/

**Pew Research Centre** makes its data available to the **public** for secondary analysis after a period of time. **Pew Research Centre** was one of pioneer organizations involved in studying aspects of **digital life** for thirty years with **Pew Internet & American Life Project** that started in 1999.

Access: users have to register in **Pew Research Centre**.





# International data sources World Bank

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# **Comparative Social Surveys European Social Survey (ESS)**

#### http://www.europeansocialsurvey.org/

The **European Social Survey** (**ESS**) is an academically driven cross-national survey that has been conducted across **Europe** since its establishment in 2001 and covering surveys in over 30 nations. Its aim is to measure and explain trends in attitudes, beliefs and values across countries in Europe and its close neighbors.

Since ESS1 (2002) to the latest ESS9 (2018) there is information about using internet, world wide web and e-mail whether at home or work for personal use. For next round (ESS 10) there will be a new module on **Digital social contacts in work and family life** for the first time.

Access: via ESS website. For assessing ESS data , **users should register to NSD** (Norwegian Social Science Data Service) a **CESSDA** Service Provider.





Programme for the International Assessment of Adult Competencies (PIAAC)

An ongoing program of assessment measuring adults' proficiency in key information-processing skills - literacy, numeracy and problem-solving in technology-rich environments.

Access data: users can download Public Use Files (PUF), codebooks, background questionnaires and all materials needed to undertake their own analysis of the PIAAC data like the International Data Explorer(IDE) at: <u>https://www.oecd.org/skills/piaac/data/</u>





# Programme for the International Assessment of Adult Competencies (PIAAC)

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Survey of Adult Skill	<u>s (PIAAC)&gt; Data</u>					

#### **PIAAC Data and Tools**

ressda

Twenty-four countries participated in Round 1 of the Survey of Adult Skills (PIAAC), with data collection taking place from 1 August 2011 to 31 March 2012 in most countries. Nine countries took part in Round 2 of the assessment, with data collection taking place from April 2014 to end-March 2015.

Data from Round 3 will be released on 15 November 2019, with the addition of: Ecuador, Hungary, Kazakhstan, Mexico, Peru and United States.

For any queries, please contact edu.piaac@oecd.org

# PIAAC Data Documentation Tools for Analysis Explore the Data



Expand all

### Eurobarometer

https://www.europarl.europa.eu/at-your-service/en/be-heard/eurobarometer



#### What is Eurobarometer ?

#### Since 1973, the European institutions commission regular public opinion surveys, the Eurobarometer, in all EU Member States.

In 2007, the European Parliament launched its own specific Eurobarometer series. These surveys cover a wide range of issues, focusing on citizens' perceptions and expectations towards EU action, and the main challenges the Union is facing. The surveys also measure in detail citizens' attitudes towards the EU and the European Parliament, while also keeping a close eye on the public's views on the European elections.

Due to this long-running exercise, the analysis of the results provides detailed insight into trends and evolution of public opinion on European issues, both on a national and a socio-demographic level.





### Eurobarometer https://search.gesis.org/

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	Programme for the International Assessment of A Cyprus Michaelidou-Evripidou, Athena; Modestou, Modestina GESIS Data Archive, Cologne. ZA5650 Data file Version doi:10.4232/1.12632, Date of Collection: 08.2011 - 03. Abstract: This data file contains competency scores (plausible v domains –Literacy–Numeracy as well as their background infor questionnaire is more Continued information: Publications (6)	dult Competencies (PIAAC), ; Karagiorgi, Yiasemina 1 1.1.0 (2016), 2012 values) for each participant in the rmation. The background	▶ MaterialsDatasetsQuestionnairesOther documents▶ ActionsCite	





#### **CESSDA Data Catalogue**

#### https://datacatalogue.cessda.eu/

**CESSDA Data Catalogue** contains the metadata of all data in the holdings of **CESSDA**'s service providers. It's an **one-stop-shop service** for data search and discovery that enables effective access to **European social science research data**.







# World Internet Project (WIP)

https://www.worldinternetproject.com/index.html

World Internet Project (WIP) is a major, international, collaborative project

looking at the social, political and economic impact of the Internet and other new technologies.

Access: Users should contact countries' members













#### And now our first guest speaker Professor Nicolas Demertzis







# The Digital Divide

The **digital divide** is not only between nations but within nations as well alongside gender, age, education, income, and other socio-demographic variables. In addition, a sort of 'digital divide' can be detected as to the disparity in access between individuals and groups of people with good search skills and those without (Dobransky & Hargittai 2006). This has been described as 'divide after access' in the sense that the digital divide is not simply reduced to the rates of internet access achieved, but affects the nature and quality of individuals' connection to the internet. (Jung, J.-Y et al. 2005; Bonfadelli, 2002; Jung et al., 2001;).





# The Digital Divide

Middle East

World, Avg.

# North America Europe Latin America / Oceania / Australia

67.9%

90%

100%

58.8%

Asia Africa 0 10% 20% 30% 40% 50% 60% 70% 80% Penetration Rate Source: Internet World Stats - www.internetworldstats.com/stats.htm Penetration Rate

Penetration Rates are based on a world population of 7,716,223,209 and 4,536,248,808 estimated Internet users in June 30, 2019. Copyright © 2019, Miniwatts Marketing Group





# The Digital Divide

This conception of divide 'beyond or after access' entails the difference between access and use in the sense that access is normally higher than use as some people with access to the internet do not use it. In this vein, some scholars speak of 'double digital divide', where the lack of technical access is worsened by the lack of social support in acquiring skills and knowledge about utilizing the internet (Wellman et al. 2001). It is apparent, therefore, that in developed societies what counts more is not the divide between the haves and the have-nots but the 'second-level digital' divide which according to Hargittai (2002) taps disparities in people's online skills and the quality of connection and related services. Usually research on these 'divides after access' illustrates a host of inequalities that both disenfranchise and deter individuals from productively integrating ICT into their everyday lives.





# The five dimensions of the Digital Economy and Society

#### FIGURE 4.2.1

essda

The five dimensions of the Digital Economy and Society

CONNECTIVITY Measures the deployment of broadband infrastructure and its quality

DIGITAL PUBLIC SERVICES Measures the digitisation of public services, focusing on eGovernment

Digital Economy and Society Index -DESI HUMAN CAPITAL Measures the skills needed to take advantage of the possibilities offered by the digital society

INTEGRATION OF DIGITAL TECHNOLOGY Measures the digitisation of businesses emphasizing e-commerce

USE OF INTERNET Accounts for a variety of on-line activities performed by citizens

Source: Kontolaimou A. (2015), "New economy and digital entrepreneurship in Greece: Current situation and policy directions", Greek Economy (KEPE), 20, 20-29.



# Ranking of EU28 based on DESI

#### **FIGURE 4.2.2**

Ranking of EU28 countries based on the overall Digital Economy and Society index for 2018 (DESI 2018)



Nevertheless, in affluent countries the digital divide among categories is expected to gradually closing (Hoffman & Novak 1998; Howard et al. 2001; Margolis & Fisher 2002; Youngs 2002)





## WIP-CY: Internet Use by Area Type







## WIP-CY: Internet Use by Age







### WIP-CY: Internet Use by Educational level







### WIP-CY: Internet Use by Household Income







## WIP-CY: Internet Use by Gender







### **WIP-GR: Internet Use**



### WIP-GR: Internet Use by Age



### WIP-GR: Internet Use by Education



■Yes ■No

### WIP-GR: Internet Use in – out labour market



### WIP-GR: Internet Use by Status of Employment



#### Internet use by income



ROMA TRE





#### THE PROJECT PLATFORM EUROPE



#### Introduction



- Platform Europe is an international research project led by Roma Tre University and co-funded by the European Parliament (EP) within the multiannual work program for grants in the area of communication (2016-2019), category of communication actions in support of the 2019 European Elections COMM/SUBV/2018 /E.
- Platform Europe's general aims were:
- to promote the dissemination and knowledge of the European election campaign;
- to improve the transnational circulation of the electoral materials produced in the different nations;
- to allow European citizens to access and compare the different national European campaigns and political proposals;
- to improve the comparative study and knowledge of European political communication, political cultures and political history.







#### Introduction



- Platform Europe's specific aims were:
- to establish 28 National research units
- to define Codebooks of analysis
- to develop an online web-platform for the analysis and uploading of the materials
- to monitor, collect and analyze the European electoral campaigns in the 28 Member States.
- to create a database of electoral materials produced for the European Election campaigns in each Member State
- to develop a digital platform containing the materials collected
- to run 28 national workshops
- to release research reports on the European electoral campaign progress and development, at both national and transnational level.







#### Introduction



- During a two-day kick-off Meeting, held at Universita di Roma Tre on 9 and 10 April 2019, the EEMC website and the back office platform were officially presented to the representatives of the 28 national research units
- An one-day training session on the analysis codebooks and the monitoring and use of the platform was conducted.
- The analysis looked at verbal aspects of the campaign content, whether the appeals had a national or European dimension, which policy issue the content focused on, whether negativity and humor were used.
- We also analyzed visual elements, such as facial expressions and the dress code adopted by the politicians, iconographic styles, and to what extent political symbols were visible.







#### The main outputs of Platform Europe



- The online European Election Monitoring Centre EEMC (www.electionsmonitoringcenter.eu).
- It began its activity at the beginning of the electoral campaign and, during the four weeks leading up to the vote, allowed thousands of visitors to watch the evolution of the electoral campaigns in the 28 nations and to compare their similarities and differences.
- A multidisciplinary network of universities, scholars and researchers, active in the study of the European election campaigns, European issues and political communication.
- An archive and a database, unmatched in terms of the wealth of data, which provides useful tools for further study and analysis.
- 28 international **university workshops** on the European election campaign, attended by more than one thousand students and streamed on the social network accounts of the EEMC.







#### The main outputs of Platform Europe



- Multi-country Social Network Accounts on the most important social networks (FB, Instagram, Twitter), to promote the activities and the result of the project.
- A Final Conference of the Platform Europe project at the House of European History in Brussels, on 11 July 2019.
- Articles in academic journals and presentations at national and international scientific conferences.
- Reviews and comments in national newspapers and on television stations.
- More articles and analyses, which will be published during 2019 and beyond.







#### The technological background



- A crawler managed by a small AI component collected all the Facebook content posted by monitored accounts, in order to make them available to the various European research teams.
- The crawler worked on a 4-weeks time span, gathering 30,016 elements from social media and providing updated metrics in real time, such as the engagement generated by political subjects and the most relevant topics of the online political agenda.
- The web intelligence platform supplied each national research unit with a reserved area in the back office, where they were able to monitor and file all the contents gathered during the election campaign.
- Specific codebooks were drawn up both to file the social media contents automatically gathered by the online platform and the election materials collected offline by research teams.
- In total, 48 variables were activated for the content analysis, in order to analyze visual and verbal dimensions and identify geopolitical data.
- The project ran entirely online; the uploading of the codebooks to the web and the highly automated monitoring process activated through the platform reduced the margin of error.
- Besides this, running the project online allowed real-time updates of the content archive and the European Elections Monitoring Centre website.













#### THE WORKSHOPS

COUNTRY	WORKSHOP	UNIVERSITY	DATE
Netherlands	European Parliament Elections, discussing a future worth voting for	Vrije University of Amsterdam	April 30
Sweden	Europe is voting	Gothemburg university	M;ay 6
Croatia	2019 European Parliament Elections - Second-order elections?	University of Zagreb	May 6
Austria	Why Europe	University of Innsbruck	May 6
Spain	EU for you: you for EU	University of Burgos	May 8
Greece	Discussing Euroelections 2019	University of Athens	May 8
Hungary	Discussion on the European Parliament Elections 2019	Szeged university	May 9
Finland	Youth and the EU elections	Abo Akademi	May 14
Slovakia	Workshop on the 2019 European Elections	Comenius University	May 14
taly	Information and electoral campaign	Roma Tre University	May 14
Estonia	Debate!	University of Tallin	May 14
Bulgaria	The image of the EP'19 Election campaign	Sofia University "St. Kliment Ohridski"	May 15
Denmark	The European elections 2019 and the future of Denmark.	Centre for the European Studies	May 15
Czech Republic	Reforms or plasts? Czexit or more integration?	Charles University	May 17
Malta	Social media and the European Elections 2019	University of Malta	May 17
Portugal	New Opportunities for Europe	Lusòfona University	May 20
Poland	European debate. European Election Monitoring Center	Maria Curie-Sklodowska University Lublin	May 20
France	The European elections during the campaign - actors and strategies	Journalism practical institute	May 21
Romania	Discussing European Elections	University of Bucharest	May 21
Cyprus	the upcoming elections and the role played by Cyprus i	Cyprus university of Technology	May 21
Latvia	why young people do not participate in European elections?	University of Latvija	May 22
United Kingdom	2019 European Elections Special: Reflections on the UK Experience	Loughborough University	May 22
Slovenia	Workshop on the 2019 European Elections	University of Ljubljana	May 22
Luxembourg	Europe votes. Let's talk about the European Elections in Luxembourg	University of Luxembourg	May 23
Germany	Quo vadis, EU? The electoral campaign between European integration and national divergence	Freie Universität of Berlin	May 23
Lithuania	European Parliament election – Experiences and insights	Martynas Mazvydas National Library	May 23







#### MATERIALS AND GEOGRAPHICAL AREAS OF THE MONITORING Total contents uploaded 12.556 <sup>Social</sup> Posters and Press Commercial 1.016 457 0 - 250 251 - 500 501 - 750 751 - 1000 > 1000 5.000 Western Europe: Austria, Belgium, France, Germany, 4.000 Luxembourg, Netherlands. Eastern Europe: Bulgaria, Czech Republic, Hungary, 3.000 Poland, Romania, Slovakia. Northern Europe: Denmark, Estonia, Finland, Ireland, 2.000 Latvia, Lithuania, Sweden, United Kingdom. 1.000 Southern Europe: Croatia, Cyprus, Greece, Italy, Malta, Portugal, Slovenia, Spain. 0 United Nations Statistics Division (UNSD) SOUTHERN EUROPE EASTER<sup>®</sup> EUROPE WESTERN EUROPE NORTHER N EUROPE www.electionsmonitoringcenter.eu

#### The website (open access archive to pre-electoral material)









#### The back-office (where the research was conducted)

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#### Questions













#### Thank you for listening!





