ELISE action Webinar Series

Exploring Digital Government Transformation in the EU

Understanding public sector innovation in a data-driven society

Gianluca MISURACA, European Commission JRC



European Location Interoperability Solutions for e-Government

Enabling Digital Government through Geospatial and Location Intelligence



ELISE action Webinar Series

Welcome & Introduction

Francesco PIGNATELLI,
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European Location Interoperability Solutions for e-Government

Enabling Digital Government through Geospatial and Location Intelligence





Exploring Digital GovernmentTransformation in the EU

Understanding public sector innovation in a data-driven society

Gianluca Misuraca, Senior Scientist European Commission, JRC Seville

Final DigiGov Webinar, 25 August 2020



Outline

1. Envisioning Digital Europe 2030: 10 years later...

2. DigiGov: background, objectives and results

- 3. Back to the future: Shaping Digital Europe 2040
- 4. Policy implications and future research



Envisioning Digital Europe 2030: 10 years later



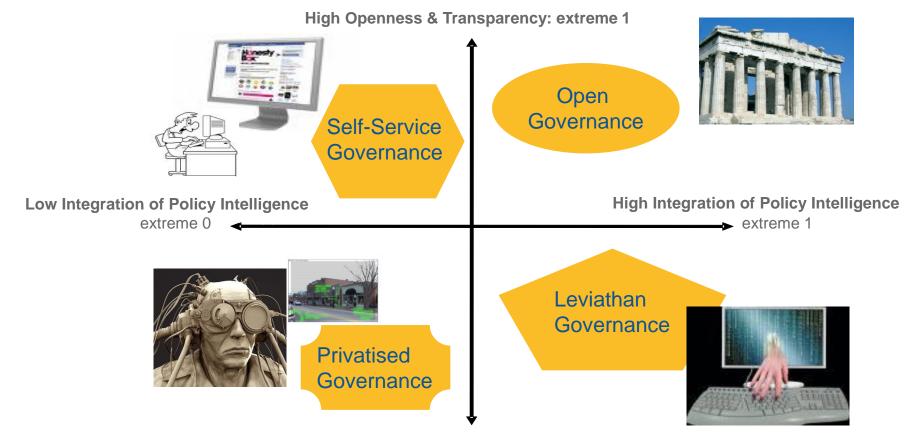
The "new" role of JRC in the new Commission Navigating through Innovation & Foresight



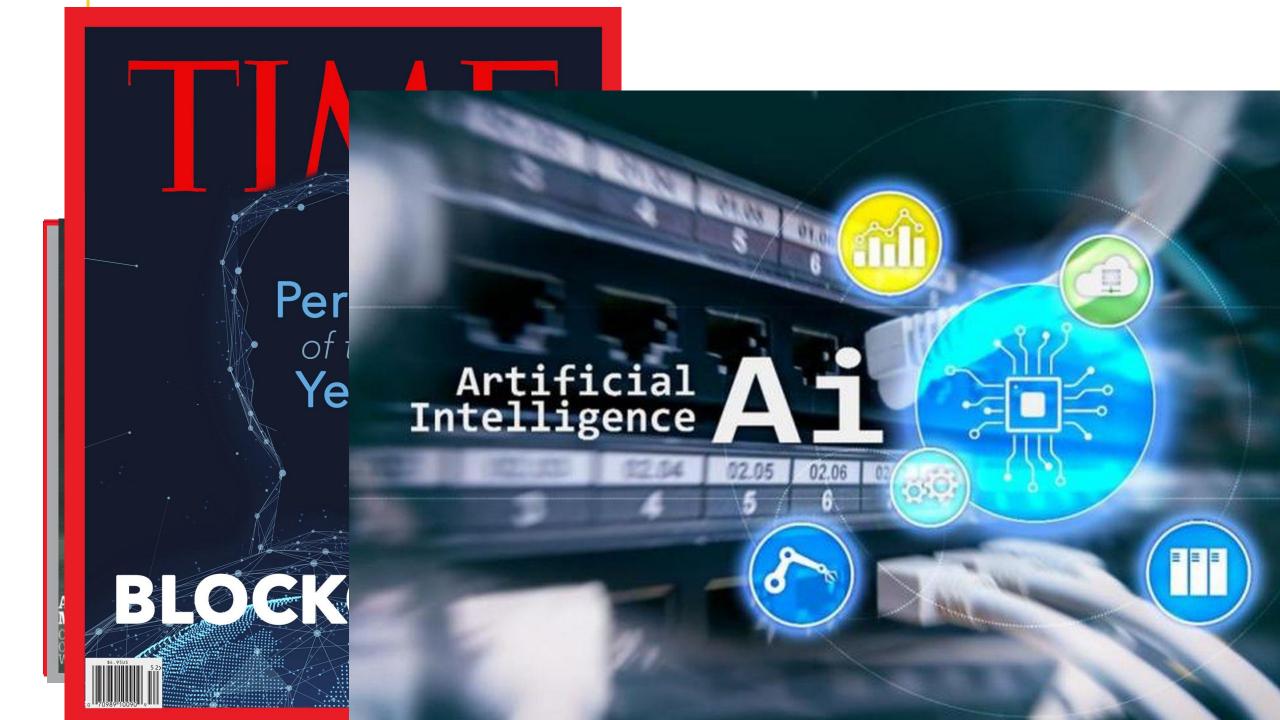


Envisioning Digital Europe 2030 (in 2010)









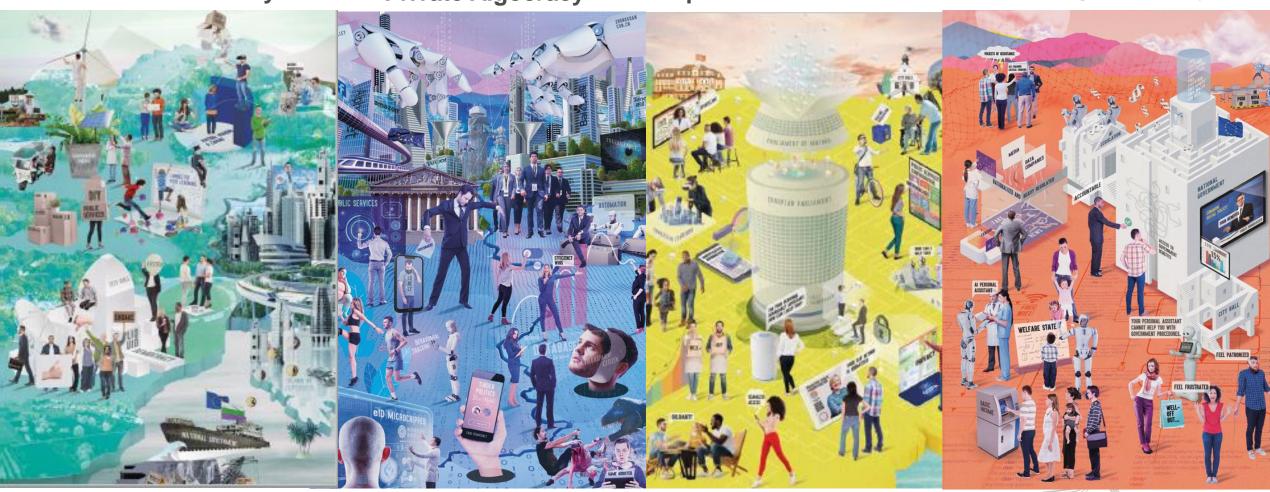
Future of Government 2030+ A Citizen Centric Perspective on New Government Models

DIY Democracy

Private Algocracy

Super Collaborative Gov

Over-regulatocracy



Source: Vesnic-Alujevic, L., et al., 2019



But the question remains open on how ICT-enabled innovation can transform governance and policy-making?





"Prediction is very difficult, especially if it is about the future"

(Niels Bohr, 1885-1962)



DigiGov: Background, objectives & results



Background: 10 (more) years of eGov in (declar)ation

- eGovernment Action Plan 2020: a decade of work on Open & Trusted Government since Malmoe 2009
- 2017 Tallinn Declaration on user-centric eGovernment
- 2018 Vienna Conference on Digital & eGovernment
- 2019 Helsinki Conference on Human-centric Digital Government
- The 2020 Digital Strategy for Europe, with a crucial role for AI adoption in government & the public sector
- The forthcoming Digital Europe Programme... in the emerging "Pandemic society"...





Objectives



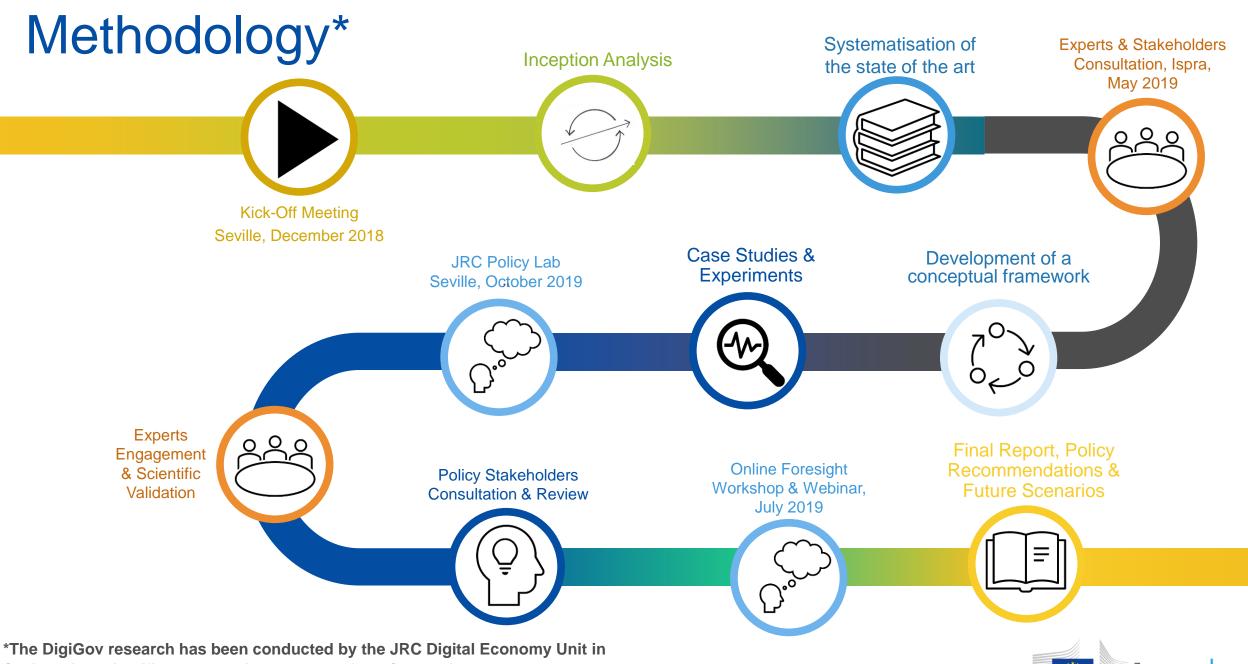
Goal

 To explore in-depth the interplay between digital technology and other factors transforming government operations and policy-making in a data driven society

Outcome

- Gain a better understanding of how innovation in the public sector, enabled by ICTs, can transform governance systems, in terms of new approaches to use data for policy design & service delivery, to better address systemic problems
- Develop a set of actionable research and policy recommendations to design and implement Digital Government Transformation in the EU beyond 2030



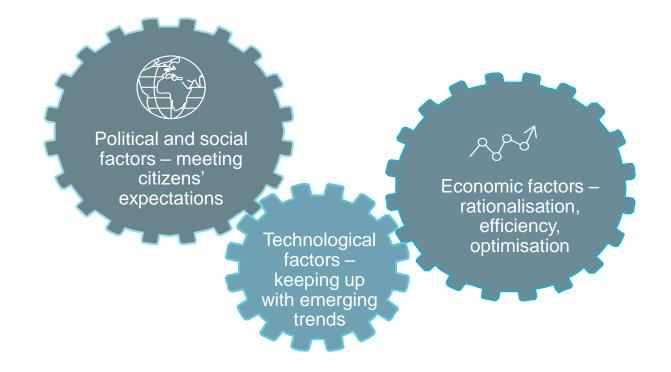


*The DigiGov research has been conducted by the JRC Digital Economy Unit in Seville with scientific and technical support of the Consortium composed by PPMI, Open Evidence, Politecnico di Milano, RAND Europe and Martel Innovate



In search of innovation between evidence and hope

 Limited robust empirical evidence on the effects of digital government transformation, especially on less measurable impacts such as inclusion, legitimacy and participation





https://ec.europa.eu/jrc/en/publication/eur-scientific-and-technical-research-reports/exploring-digital-government-transformation-eu



Unveiling the path to Digital Government

Evolution or revolution?

- From 'simple' to 'complex' forms of governing
- Different stages of readiness / levels of maturity
- Focus on service delivery & risk of 'mirroring effect'
- Techno-optimism & the trough of disillusionment



Re-imagining government



Governance & Service Transformation

- Digitization is only a part of it (often just the starting point)
- Permeating all aspects of governing and service delivering
- Complexity and multi-linearity of change
- Utopia & dystopia of digital innovation



Assessing Digital Government transformation

- A conceptual framework for understanding how ICT-enabled innovation can transform government
- Empirical case studies & experiments to illustrate possible impacts of the digital transformation in different contexts and phases of the policy-cycle



JRC TECHNICAL REPORT

Assessing the impacts of digital government transformation in the EU

Conceptual framework and empirical case studies

Authors: Chethre Codegnose, Glevanni Liva, Igidipa Baroskia, Giardas Misuraca, Luko Kimavidita, Michel Benadett, Jere Vantil, Glancario Vecchi, Erelly Ryen Giolinoo, Katheline Chesta Chel Biologia, Sali Grandshire.

Editor: Garduca Mauraca



https://ec.europa.eu/jrc/en/publication/assessing-impacts-digital-government-transformation-eu



Conceptualising Digital Government Transformation & public sector innovation



The DigiGov Framework

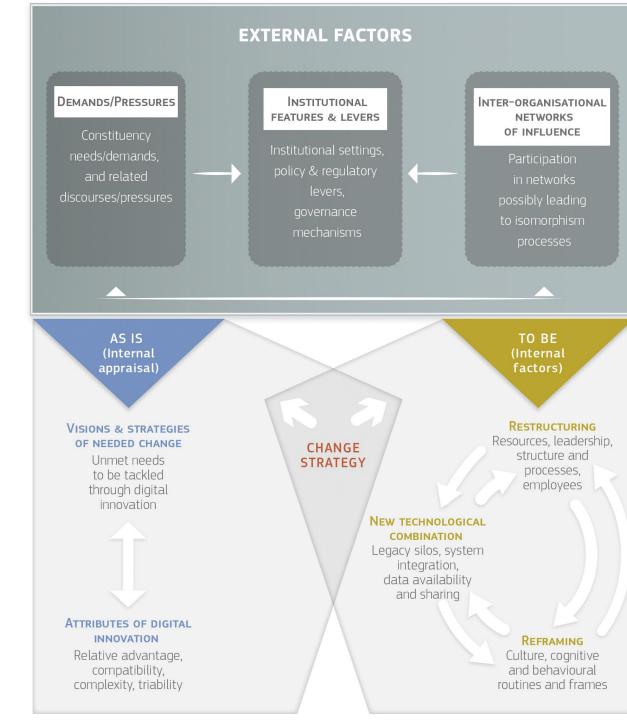
Contribute to systematise and reconceptualise Digital Government Transformation within the scope of Public Sector Innovation in order to:

- 1) understand how ICT-enabled innovation can transform governance processes and policy-making mechanisms;
- pave a way for a more in depth assessment of the effects of digital transformation; and
- 3) help generate hypotheses about implications that could be further explored empirically in future policy oriented research

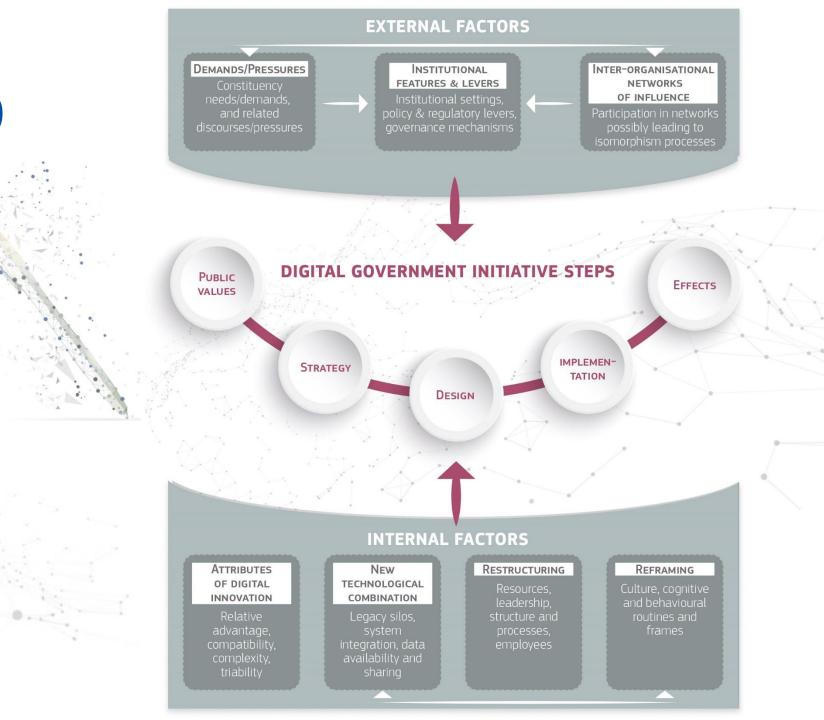
Innovation antecedents & change strategies

 The need to reframe public sector innovation to achieve Digital Government Transformation

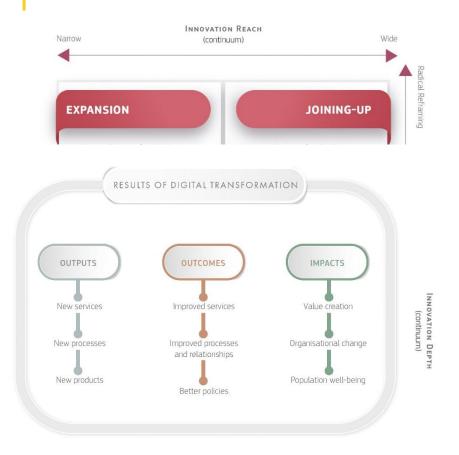




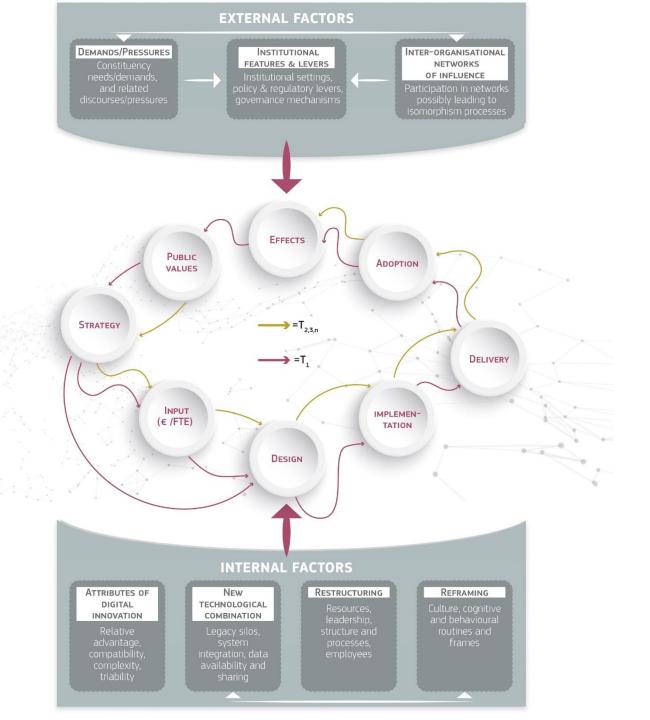
DigiGov F1.0



DigiGov F2.0







Building evidence through experimental case studies

 Tvarkau Vilnių, LT Citizens engagement













 Body Worn cameras for policing in UK, NL & FI



Sustainable behaviour & literacy in the city of Trento & Ferrara, IT

KIDS GO GREEN









Privacy & trust in digital public services (DE & ES)

Spain

Level of trust:

- 19% in national government
- 36% in regional/local authorities
- 37% in public administration

Germany

Level of trust:

- 54% in national government
- 78% in regional/local authorities
- 71% in public administration



Engaging with experts and stakeholders

 Scientific validation of findings through stakeholder engagement, expert consultation and peer review at international level







JRC CONFERENCE AND WORKSHOP REPORT

Exploring Digital Government Transformation in the EU

Expert Consultation and Stakeholder Engagement

Egidījus Barcevičius, Chistiano Codegnore, Luka Klimavičištė and Glaniuca Misuraca

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https://publications.jrc.ec.europa.eu/repository/handle/JRC121494



Lessons learned: defining the framework conditions for innovating governance models and policy design

Enable the technological conditions for data openness and sharing, anticipating risks and possible negative consequences





Manage the governance "with & of" ICTs to unleash institutional re-design through social innovation and citizens engagement

Harness data-powered intelligence for evidence-based policymaking and better understanding the impact of ICTs on society...

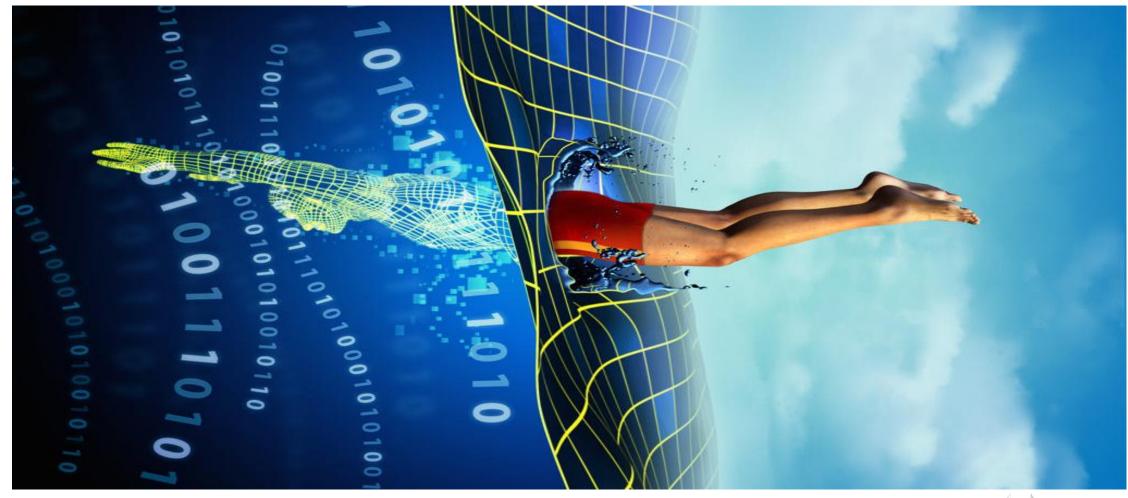




Back to the future: Shaping Digital Europe 2040

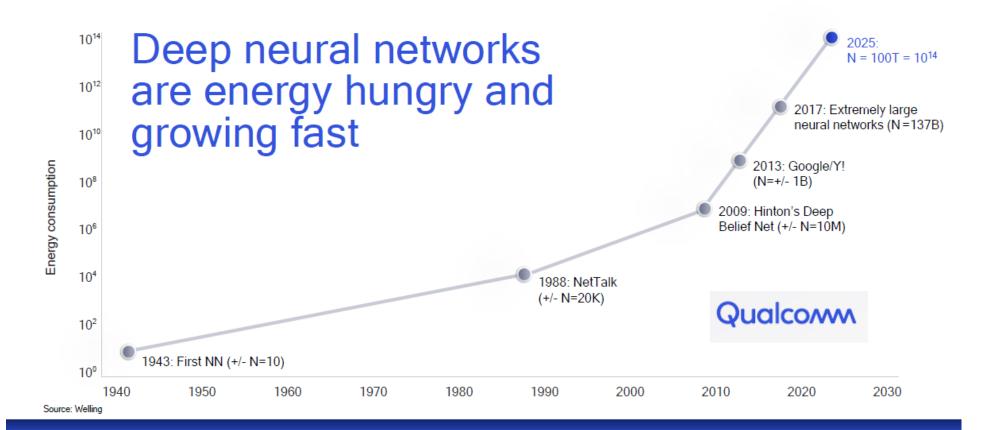


Back to the future... again





"Super AI" will realise the singularity dream?







Will we have reached the capacity of the human brain? Energy efficiency of a brain is 100,000x better than current hardware



Are expectations coupled with socio-political trends?

- Increasing policy debate on the impact of technology on our societies
 - Rising power of tech giants
 - Regulation of the digital sphere
 - Algorithmic governance in a global landscape
- Two main dimensions of concern emerge:





The role of the state vis á vis the market: who will govern?



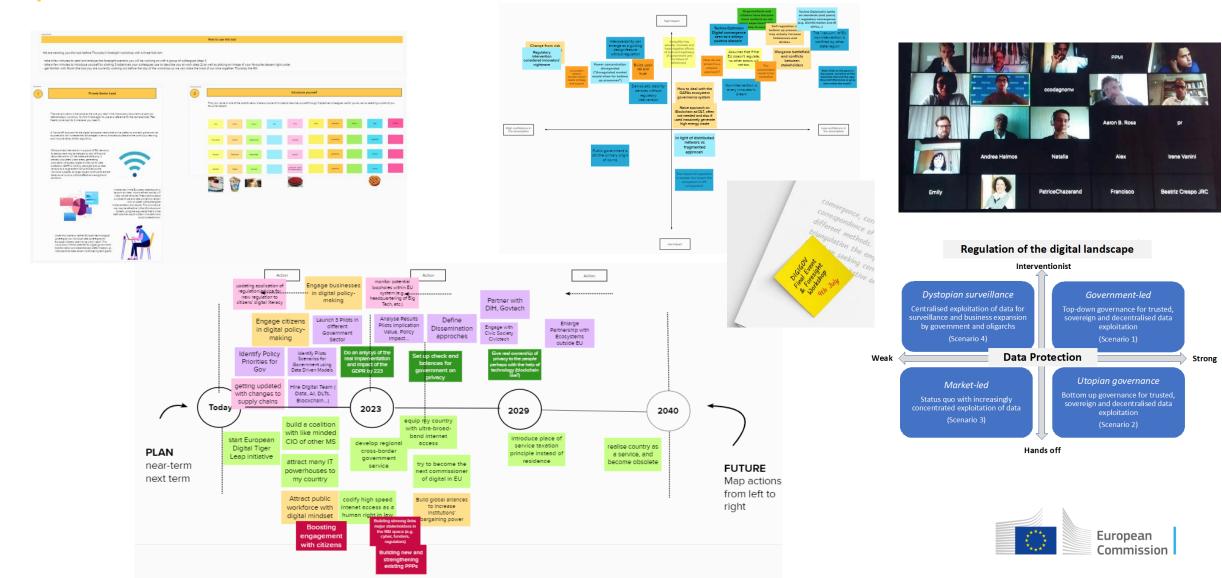
The level of individual data protection



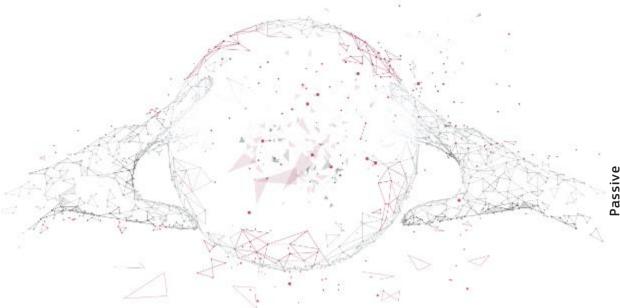
Shaping Digital Government Transformation 2040

Online Foresight Workshop





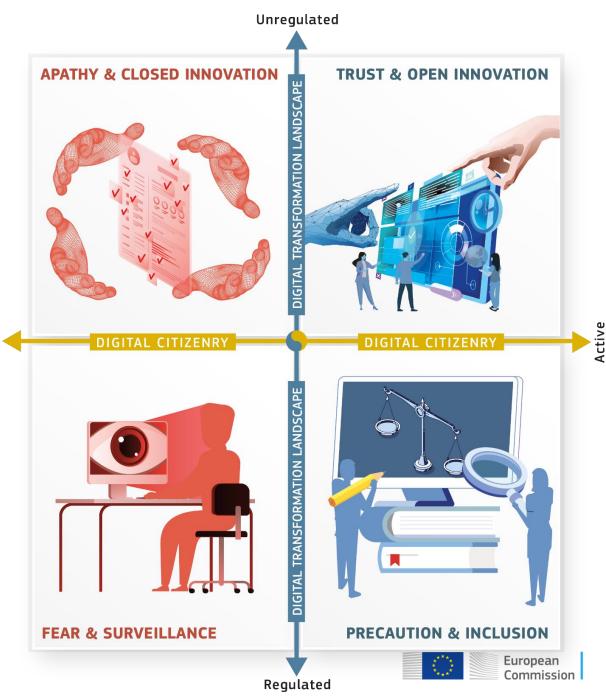
Scenarios for Digital Government Transformation 2040



Dimensions of Impact

Y. Digital Transformation landscape: Ranging from "regulated/interventionist" to "unregulated/hands off"

X. Digital Citizenry: Ranging from "passive" (no control to data subjects), to "active" (data ownership & digital sovereignty)



APATHY & CLOSED INNOVATION

A passive and complacent digital citizenry exchanges their rights as data subjects for the *status quo* access to free services, while a lack of regulation enables quasi-monopolistic innovation by incumbents, with an increased digital divide



DIGITAL CITIZENRY

FEAR & SURVEILLANCE

Passive

A passive and fearful digital citizenry
exchanges security for surveillance and
strict regulation, with weak protection of
data, which are exploited by government
and big business, producing digital exclusion



TRUST & OPEN INNOVATION

An active digital citizenry, with functioning infrastructures and empowered data subjects, joins with innovators to build bottom-up governance for trusted, sovereign, decentralised data exploitation and human-centric digital services



DIGITAL CITIZENRY

PRECAUTION & INCLUSION

Firm regulation, balanced by an active digital citizenry, results in a less innovative but more inclusive digital transformation with sovereign and decentralised data exploitation





Active

A Scenario is a possible world... a world that does not have to be, but may yet come to pass...





Policy implications & future research



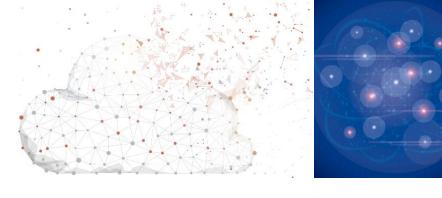
Main findings



- 1. There are limits of automation and of immediate productivity
- 2. Importance of investments to keep service up and running
- 3. Reframing of organisational processes crucial to move beyond pilots
- 4. Strategic importance and twofold nature of legitimacy and trust
- 5. Greater focus is needed on adoption, considering the digital divide
- 6. Realism about engagement, open governance and co-production
- 7. Importance of non-monetary effects and embracing complexity



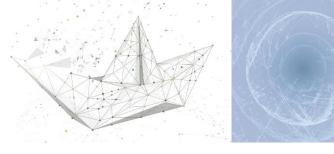
Policy implications



- 1. Governing the tension between platformisation and distributed networks
- 2. Enforcing new 'modes of regulation' for enabling 'e-Government 4.0'
- 3. Developing ethical framework to minimise the risks of new technologies
- 4. Opening access to data, while protecting privacy and promoting interoperability
- 5. Building capacities to exploit predictive analytics and cognitive technologies
- 6. Creating a digital transformation culture within the public administration
- 7. Prioritising public value and aligning governance systems with SDGs



Future research



- Further empirical application of the conceptual framework for in-depth analysis of public sector innovation practices to promote their "scaling-deep/up and out"
- Exploratory analysis of the potential of Data spaces, Innovative Public Procurement and GovTech to stimulate adoption of innovation in public services and policy-design
- Studying the collateral positive effects of COVID-19 and their potential to speed up the needed "reframing" for digital government transformation
- Exploring the potential for public value creation at local and regional level through a systematic review of innovative public services and their digital local ecosystems
- Assessing the impact of specific technologies (e.g. Al, Big Data, IoT) gathering evidence to support existing efforts, such as the Al Watch and IPSO, or new ones like the Platform for regions, to increase policy coherence in the EU Digital Governance

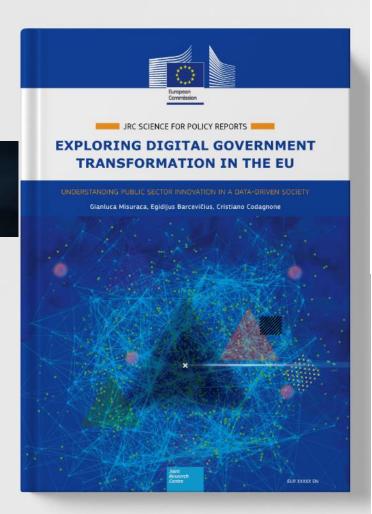


What's next?













Shaping Digital Government transformation 2040

Headlines

- About 360 million European adults (82%) consider that their governments should take measures to reduce income inequality.
- · Public demand for government action is proportionate to the actual level of income equality in a country.
- The greater the income gap between the middle class and the rich, the more support there is for redistributive policies.
- . Individuals who believe that society is basically meritocratic and that everyone enjoys equal opportunities are less likely to support redistributive policies.

Policy context

There is growing consensus that, beyond a certain level, income inequality can have both economic and social costs. It can hamper economic growth and undermine social cohesion. The European Union, through the European Pillar of Social Rights, h put equality and fairness at the heart of its pol

would favour a more equitable distributi of Income. However, the nature of the link between income inequality and support for redistribution unclear. Theoretical reasoning would suggest th when income inequality is high, the majority v support state intervention in favour of redistribution However, empirical analysis usually does it corroborate this theory, for various possil reasons. First, people's conceptions and therefor (mis)perceptions of inequality vary: second, attitud towards income redistribution may also refle subjective views about what fairness in socie means; and third, socio-demographic characterist play an important role.

For the purposes of this brief, support for redistribution is expressed through the rate of agreement with the statement The government should take measures to reduce differences in

Figure 1 shows that redistribution received a high degree of support (82% on average) across the European Union: 39% agreed, and 43% even strongly agreed, that government should intervene to reduce income inequality. There are, however,



*This brief is based on the JRC report The Median Voter Takes it All. Preferences for Redistribution and Income Inequality in the EU-20, Marco Colagrossi, Stylianos Karagiannis and Roman Raab, JRC Working Papers in Economics and Finance, forthcoming.

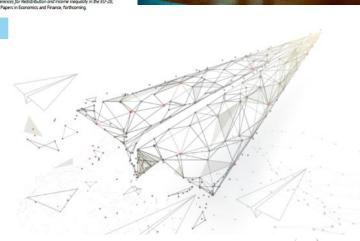


Using new data on income inequality and the special Eurobarometer on 'Fairness, inequality and intergenerational mobility', research at the JRC is helping to shed light on the drivers of support for income redistribution.

Digital Government scenarios

disparities across regions and countries.







BEAM ME UP SCOTTY

Thank you





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