

# Interoperability and AI Governance

IGF's Policy Network on Artificial Intelligence 3<sup>rd</sup> Session, 04 July 2023

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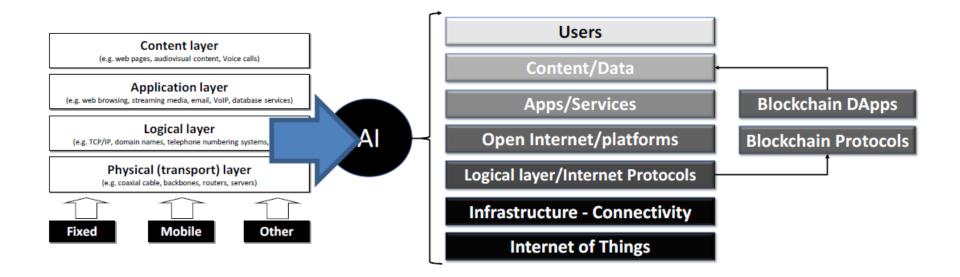
## DIGITAL POLICY AND DIGITAL TRANSFORMATION



## Agenda

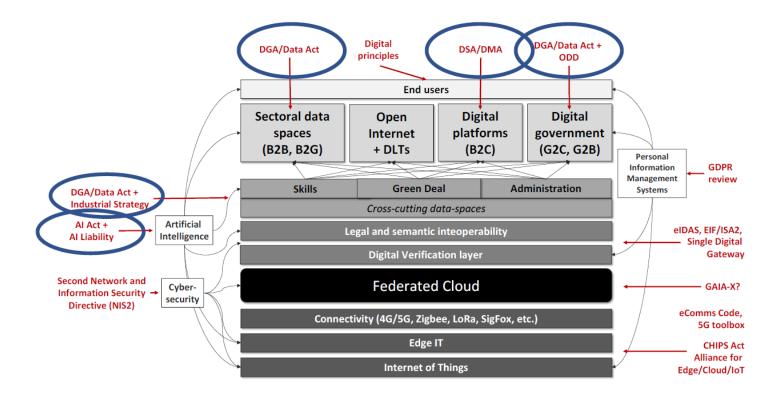
- Looking at Internet Governance Complexity
- Al Governance and Interoperability
  - What? The Scope
  - Who and How? Stakeholders and Influences
- Challenges and Recommendations
  - Multistakeholderism in Standard-Setting
  - Capacity Building
- Questions

### Old vs New Old vs New Digital Tech Stack



Source: Andrea Renda, Single Market 2.0: the European Union as a Platform, 2020

### EU's Regulatory Initiatives around the Stack

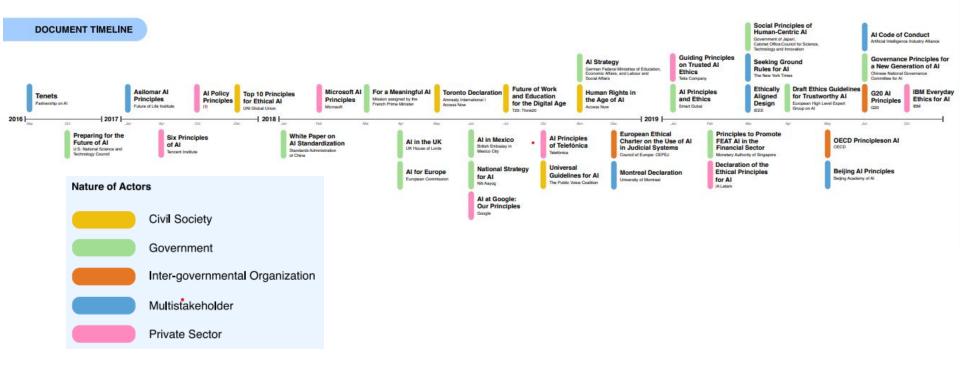


Source: Andrea Renda, Presentation at EUI – Executive Training - The Age of Platform Regulation: The EU Digital Services Act, Digital Markets Act, & AI Act

## Al Governance and Interoperability

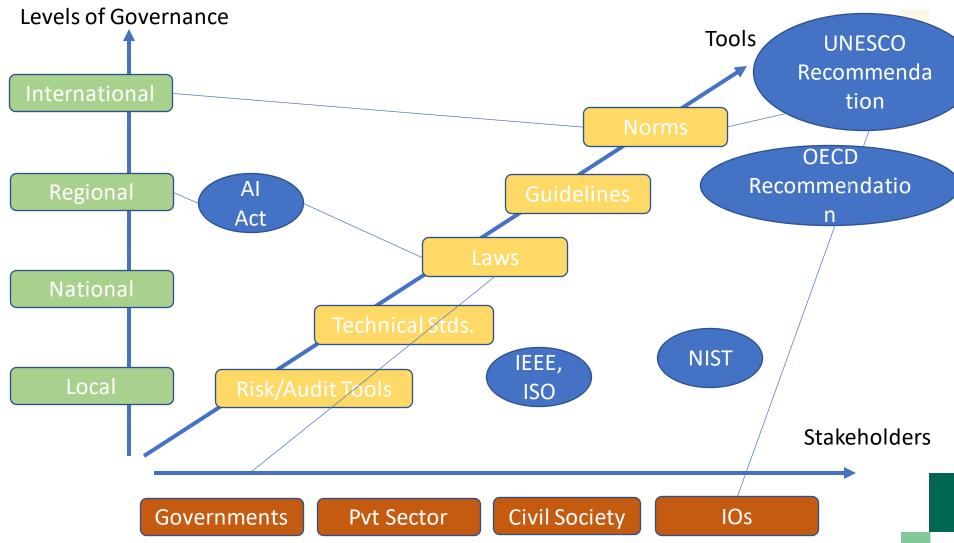
### Governance

Development and application of shared principles, norms, rules, decision-making procedures and programs that shape the evolution and use of AI (Kurbalija, 2016, p.5), including institutional and technical arrangements (Lessig, <u>1999</u>; <u>2006</u>).



**Source:** Fjeld and Nagy (2020) Principled Artificial Intelligence: Mapping Consensus in Ethical and Rights-based Approaches to Principles of Al. Berkman Klein Center at Harvard. Available at: <u>Principled Artificial Intelligence | Berkman Klein Center (harvard.edu)</u>.

## Mapping Inter-Operability



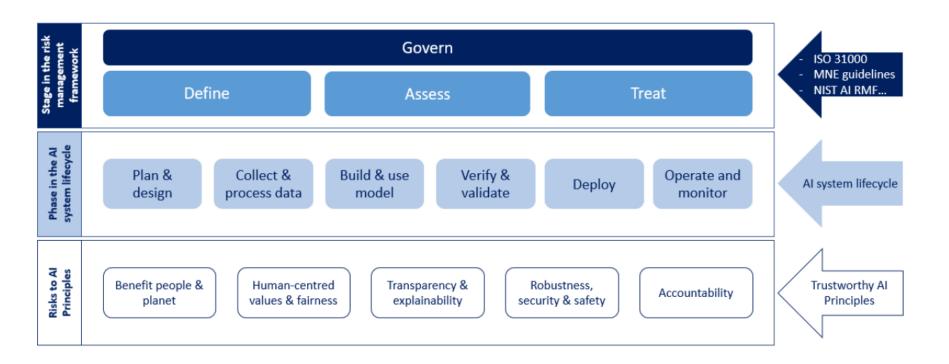
## NIST AI RISK Management Framework



Source: <u>Artificial Intelligence Risk Management Framework (AI RMF 1.0)</u> (nist.gov)

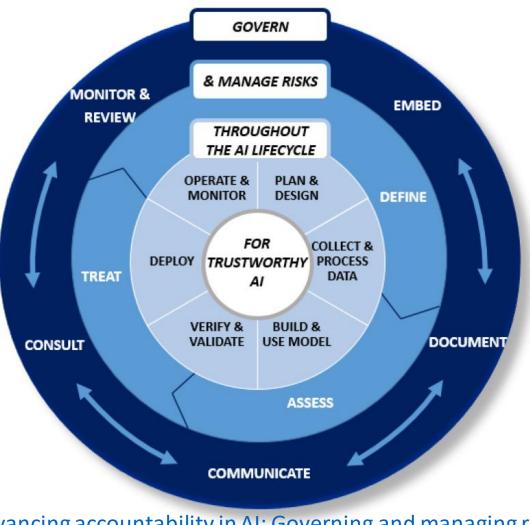


## OECD – Advancing Accountability in Al



Source: Advancing accountability in AI: Governing and managing risks throughout the lifecycle for trustworthy AI | en | OECD

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## Al Governance and Interoperability

### Who and How? Stakeholders and Influences.



How governance translates into technical tools, specifications and standards?

Legal Influence: Risk Assessment and Auditing

### UNESCO's Ethical Impact Assessment

**Description**: What are the prospective impacts of the system on

**Significance Levels**: <u>Scale</u> of the prospective impact

Impacted Groups/Entities: Scope of the outcome

**Likelihood** of the outcome occurring (i.e., low, medium, high, very high)

#### **Mitigating Impact**

### NIST AI Risk Management Framework

**Map:** Context is recognized and risks related to context are identified

**Measure:** Identified risks are assessed, analyzed and tracked

Manage: Risks are prioritized and <u>acted upon based on a</u> <u>projected impact</u> OECD's Advancing Accountability in AI

**Define**: Scope, context, actor and criteria

Assess: Identify and measure Alrelated risks

<u>Treat: Prevent, mitigate or</u> <u>cease AI risks</u>

**Govern**: Monitor, document, communicate, consult and embed a culture of risk management

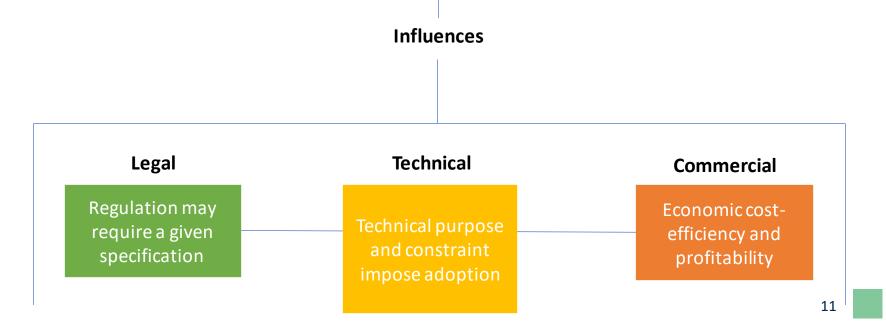
## Al Governance and Interoperability

### Who and How? Stakeholders and Influences.



How governance translates into technical tools, specifications and standards?

• "Standards enforce policy. They are the rules that others must follow and the categories from which others choose" (<u>Voo, 2019</u>; <u>Busch, 2011</u>).



## Challenges to Interoperability of AI Governance

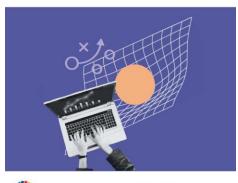
### Multistakeholderism in Standard-Setting

- Lack of **coordination** among stakeholders
  - UNESCO: Member States should establish mechanisms, in collaboration with international organizations, transnational corporations, academic institutions and civil society, to ensure the active participation of all Member States, especially LMICs, in particular LDCs, LLDCs and SIDS, in international discussions concerning AI governance (<u>UNESCO, 2022, para. 60</u>).
- Lack of **legitimacy** due to restrictive standard setting processes
  - Technical specifications have two pathways to become standards (<u>Voo, 2023, p.141</u>)
    - From below, through product adoption at such a high volume that a de facto standard is set
    - From above, through proposing and securing agreement for technical standards in SDOs and thereby setting a de jure standard
    - "SDOs unwittingly exclude emerging economies and civil society through invisible thresholds, such as the <u>unpaid nature of participation</u> and the <u>high levels of technical</u> <u>expertise</u> required to participate in discussions" (Voo, 2023, p.148)
- Funding and Capacity Gaps

### Challenges to Interoperability of AI Governance

Working Group Report on AI Capacity Building

#### Artificial Intelligence and Digital Transformation Competencies for Civil Servants



BROADBAND COMMISSION 😥 📖

### Digital Planning and Design

Understand complexity Anticipate unexpected Recognize opportunities

### Data Use and Governance

Understand data Leverage data Manage data

### Digital Management and Execution

Manage projects Implement policies Be agile and collaborative

### **Questions for Discussion**

- What recommendations can be made based on the mapping for enhanced interoperability for AI governance?
- How can standard-setting, whether market-driven or via SDOs, become substantively multistakeholder, rather than just formally?
- What are / will be the challenges Global South countries face to operationalize ethical AI via technical specifications?
- How may capacity be built accordingly?



### Thank you!

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