Responsibly unlocking the value of data for all
ON NARRATIVES
Data is cross-cutting and is on the top of national and international agenda.
UNPACKING POLARIZING NARRATIVES
BEWARE OF ANALOGIES

DATA MULTIDIMENSIONAL

DATA HAS UNUSUAL PROPERTIES

LOCATION OF STORAGE AND PROCESSING IS NOT ALL THAT MATTERS
THE SHADOW OF THE FREE TRADE DEBATE

FREE FLOWS OF DATA IS A TOPIC HIGH ON GLOBAL POLICY AGENDAS

CONCERNS EXIST REGARDING DIGITAL INTERDEPENDENCE DYNAMICS

ENHANCING TRUST FOR CROSS-BORDER DATA FLOWS IS CRITICAL
DIGITAL CHALLENGES TO TERRITORY-BASED SOVEREIGNTY

DATA SOVEREIGNTY IS PADDLED AS A PANACEA TO MANY CONCERNS

IMPLEMENTATION PITFALLS

DEALING WITH MULTIPLE JURISDICTIONS
The various issues related to data governance are addressed in separate silos and the patchwork of uncoordinated actions creates more problems than it solves.
We are missing the vocabulary, frameworks and instruments to deal with data through a holistic and innovative perspective.
There is a need for a more systemic, innovative, and positive approach

Leveraging the concept of the DataspHERE
The complex system encompassing all types of data and their dynamic interactions with human groups and norms.
ON UNLOCKING VALUE
The measurement of economic and social value of data is a major challenge for identifying incentives, for measuring impact, and for fostering equity.

Volume of Data Produced Worldwide

(Reinsel, Gantz, Rydning, 2018)
ON RESPONSIBILITY
Our binary world

Protection

[ ]

Openness

Clarity, predictability
Clear Challenges

Protection

Missed opportunities

Openness

Opportunity for misuses
Goldilocks Zone

Too many restrictions \[ \rightarrow \] Responsibly unlocking the value of data \[ \rightarrow \] Too few protections

Opportunities, but disincentives
A classic (Pareto) dilemma

Privacy
Self-interest
Economic

Utility
Collective
Social
MOONSHOTS
SANDBOXES FOR DATA

Sandbox for data
creating spaces for agile solutions across borders

03
Identifying opportunity areas for cross-border regulatory sandboxes for data

Health data is also not uniform. Whole genome data is different to personal medical records or data about the social determinants of health such as income, race, gender, or locality. Thus, successful data sharing regimes most easily form within scientific disciplines, with each kind of information requiring different systems, metadata, and analytics, and often carrying different legal obligations.
SANDBOXES FOR DATA

Operational sandboxes: testing environments where hosted data can be accessed and used to handle data.

Regulatory sandboxes: collaborative processes where regulators, service providers and relevant stakeholders test innovative technology and data practices within a regulatory framework to provide dialogue and guidance on how data is handled.
ADDRESSING CROSS-BORDER ISSUES

Paradigm shift(s)

Between “regulate-and-forget” and “wait-and-see”

“Adapt-and-learn”
NEXT STEPS

- Expert group
- Learning & case studies
- Pilot projects
- Global Forum on Sandboxes for Data
**BOTTOM-UP APPROACHES**

**Paradigm shift(s)**

**Technological innovations (PETs)**
(Homomorphic encryption, federated learning, zero knowledge validation, multi-party computation)

**Concrete problems**

**Sharing data from supply chains**
(Scope 3 CO2 Emissions)

**Use of Homomorphic Encryption (SINE)**

**From Data Flows to Access Rights**
NEXT STEPS

A bottom-up approach

“Data-Sharing Communities”

Modular Governance Charters
A FRAMEWORK CONVENTION

Paradigm shift
Data Centers in Space

A Framework Convention for the DataspHERE
“Existing institutional frameworks at the international level are not fit for purpose to address the specific characteristics and needs of global data governance”

Digital Economy Report 2021
Cross-border data flows and development: For whom the data flow (UNCTAD, 2021)
A MOVEMENT
DATASPHERE GOVERNANCE ATLAS

200+ Organizations

Objectives of organizations
- 29.1% Data Repository
- 40.5% Data Governance
- 18.6% Socio-Economic Development
- 11.8% Trust

Source: DataspHERE Governance Atlas Database (March 2022)
How we will govern the human-created global Datasphere will determine the future of human society in the 21st century
Let’s be:

BOLD

INNOVATIVE

AMBITIOUS

AND ... PERSISTENT