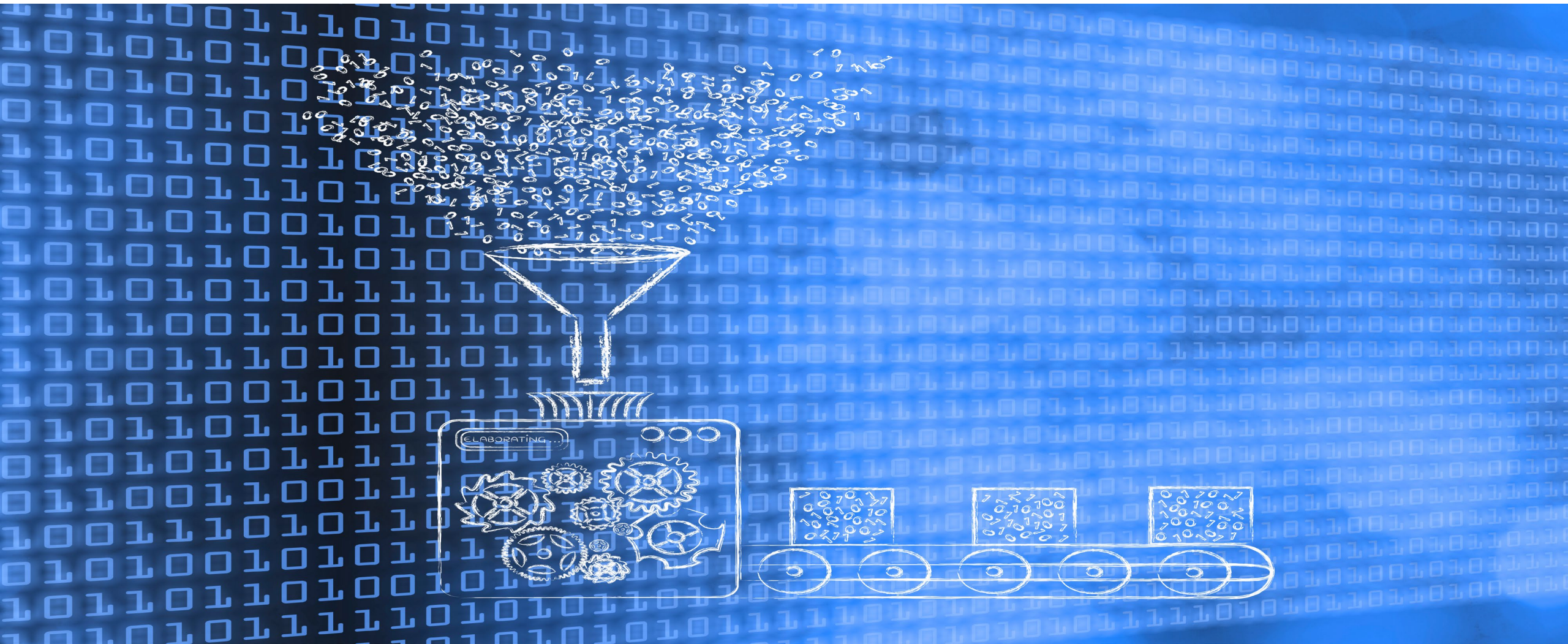


# IEEE STANDARDS ASSOCIATION

**Shaping the data governance debate to  
maximize the development potential of data:  
*advancing data and digital governance  
internationally***

Irene Kitsara  
European Standardization Initiatives Director,  
Global Business Strategy and Intelligence, IEEE SA, IEEE Europe Office

# Data economy and data governance 1



# Advancing data and digital governance internationally

- *Introduction to IEEE*
- *Considerations in the field of digital and data governance*
- *Related work at IEEE/IEEE SA*



# ADVANCING TECHNOLOGY FOR HUMANITY – IEEE at a glance

## ABOUT IEEE – Institute of Electrical and Electronics Engineers

- Founded in 1884 by Thomas Edison & Graham Bell (among others)
- World’s largest technical professional organization (over 400,000 members in 160 countries)
- IEEE is producing, managing and disseminating data & related knowledge:
  - Top-cited publications
  - Leading technical conferences
  - Xplore
  - Technical standards
- IEEE is contributing to digital and data governance discussions and frameworks



### The IEEE Climate Change Collection

As the world's largest organization of technical professionals, IEEE is uniquely positioned to help organize the world's engineers, scientists, and technical professionals in addressing the causes, mitigating impacts, and adapting to climate change.

IEEE's highly-cited scholarly publications, conference proceedings, and other materials help foster the exchange of technical knowledge and information to address the critical climate change issues facing our planet.

Climate Change Collection

<https://ieeexplore.ieee.org/climate-change>

# Data governance considerations: Nature and context of data

**Open data**

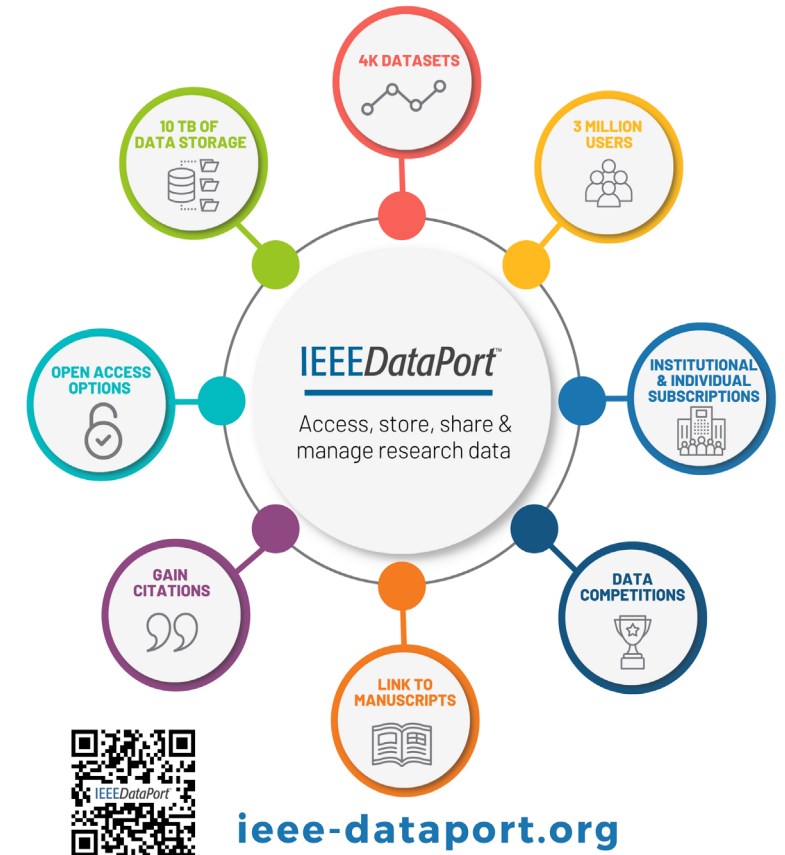
**Proprietary data**

**Sensitive data**

**Different use cases – different governance frameworks**

## IEEE DataPort™

IEEE DataPort is a research data platform designed to make scientific data openly accessible to all and help researchers and institutions share research, manage their data, and collaborate with peers.



# Data governance considerations: Balance

Societal vs. commercial benefit

Digital/data  
localization/sovereignty  
vs. global reach and use

Data potential vs. delivery  
(managing expectations)

Technical vs. market  
interoperability

Using data vs. refraining from collecting/using them  
(benefit vs. human rights/ethical considerations)



# Data governance considerations: Consensus

Digital Economy Report 2021:  
fragmented global  
landscape of the governance  
of data; lack of globally  
agreed common definitions  
and understanding of basic  
concepts related to data and  
data flows.



# RAISING THE WORLD'S STANDARDS: IEEE SA GLOBAL IMPACT



**HOME  
IS WHERE  
THE WiFi  
CONNECTS  
AUTOMATICALLY**



**2,100+**

Standards & Projects

**175+**

Countries

**34,000+**

Global Participants



# Data governance considerations: Consensus

## Standards:

- Common language and harmonized frameworks
- Building blocks for international cooperation in R&D, product development, facilitating market entry and international trade
- Voluntary, unless specified otherwise by law/regulations
- IEEE open and inclusive standardization process
- Supporting regulation, legislation

- Data quality
- Compatibility and Interoperability
- Responsible data governance

- Sociotechnical standards
- Frameworks addressing data privacy, security, accountability and other digital governance principles

**DIGNITY, INCLUSION, IDENTITY, TRUST, AND AGENCY**

IEEE 7005™-2021 - Standard for Transparent Employer Data Governance

**IEEE CertifAIEd™**  
The Mark of AI Ethics

GET Program for AI Ethics and Governance Standards

# Data governance considerations: Partnerships

