

# School of Digital Transformation and Innovation in the Caribbean

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**2024**

Port of Spain,  
Trinidad and  
Tobago

## Driving the Digital Economy: Effective Data Use and Governance

Maurice McNaughton,  
Mona School of Business & Management,  
UWI | Caribbean Open Institute



# Digital Transformation

...broadly refers to the use of digital technologies - combinations of *information, computing, communication and connectivity* - to fundamentally change the way *societies, governments, businesses and citizens* operate in such a way that seeks to improve the performance of various societal entities.

# Disruptive Digital Technologies



## Cloud / Mobile Computing

Access to scalable, cost-effective computing and storage capacity;  
Rapid deployment capability and enhanced business agility;  
Embracing mobility in the way we design and deliver products and services



## DATA - Big Data / Open Data

Data is the new Oil; Data as exhaust from eCommerce, Social Media, IoT, mobile and sensors; platform for enhanced business intelligence



## Advanced Analytics / Artificial Intelligence

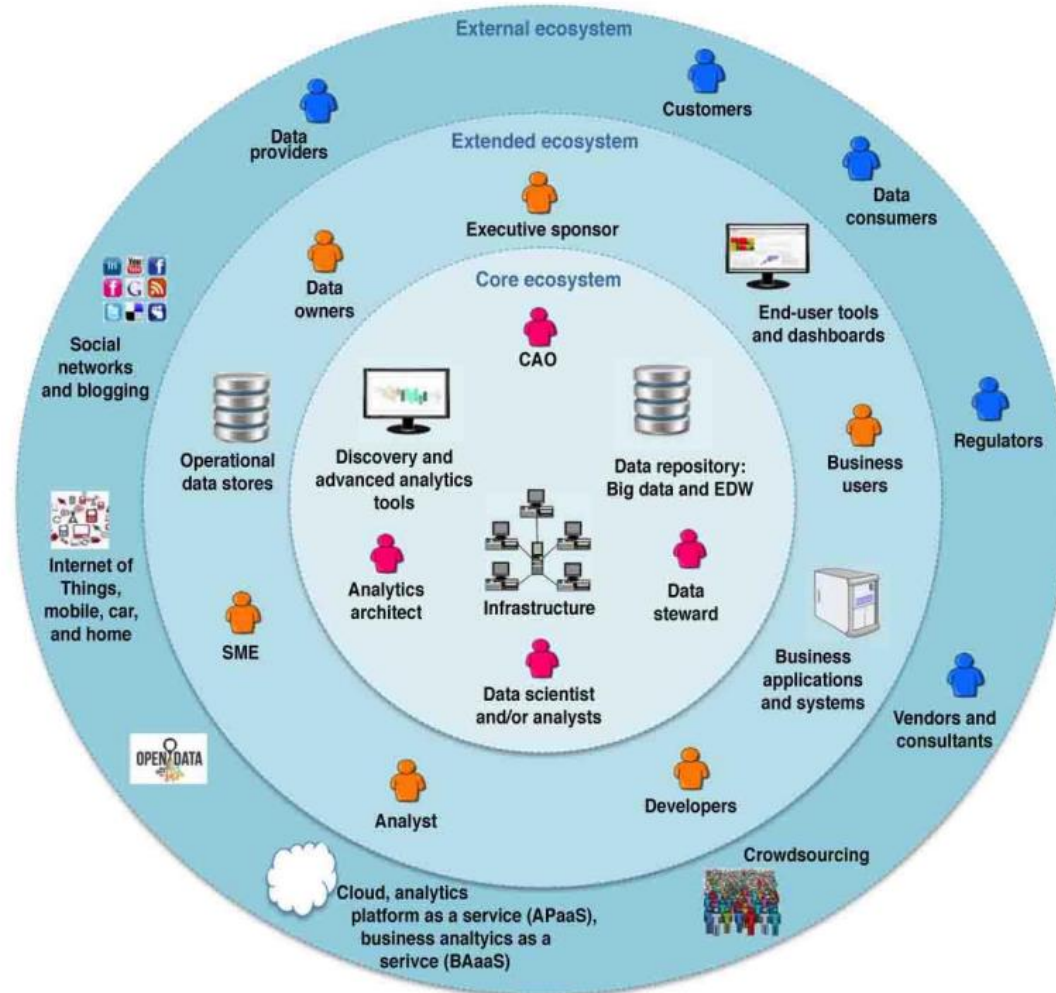
Digitization and automation of knowledge work; advances in machine learning & AI; Enhanced algorithms from big data analytics; Advanced Robotics & autonomous systems



## Social Media

Digital channels of engagement, information and interaction with customers and consumers; Where public sentiment, opinions and consensus are shaped and influenced; Ignore at your peril

# The Data Ecosystem

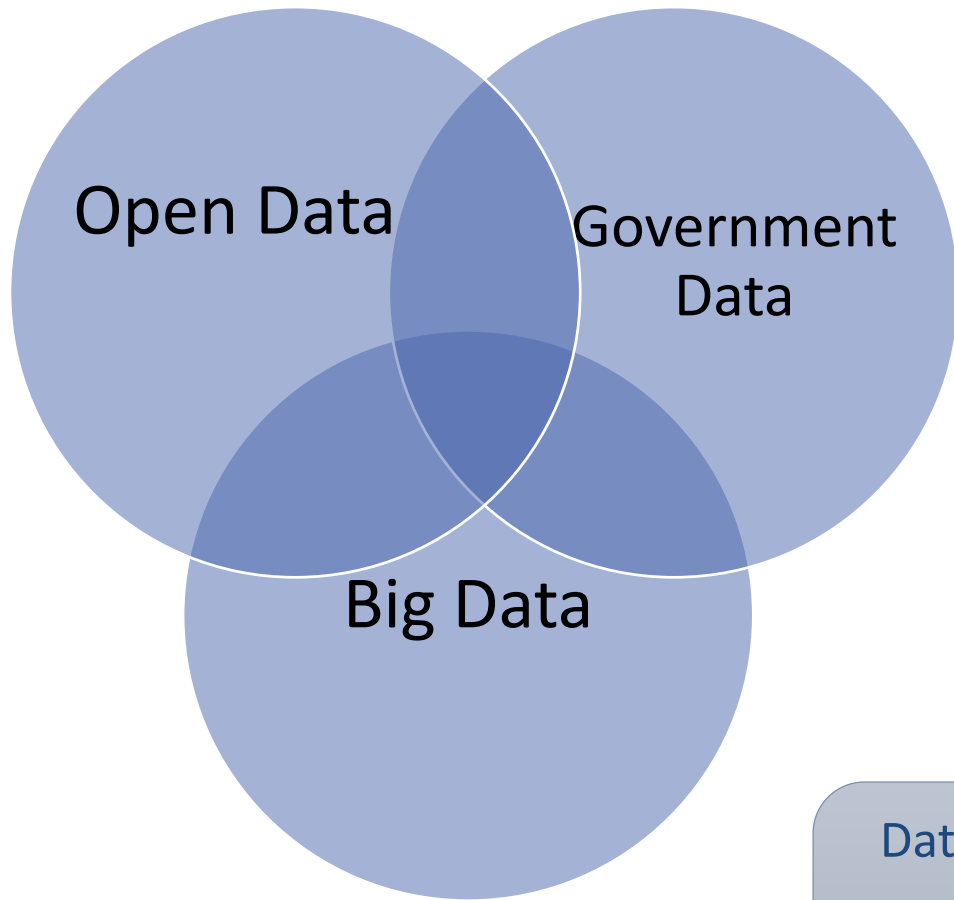




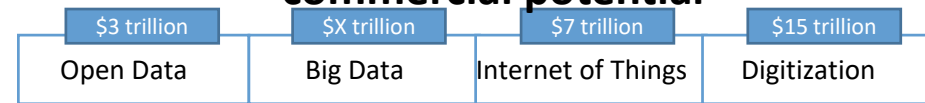
# DATA AS AN *ASSET*



# The Global Data Economy



**The data space combines several trends – each with significant commercial potential**



**The data space is transforming all major sectors of the economy**

Government	Health	Energy	Education	Transport	Agriculture	Finance	Tourism	Media
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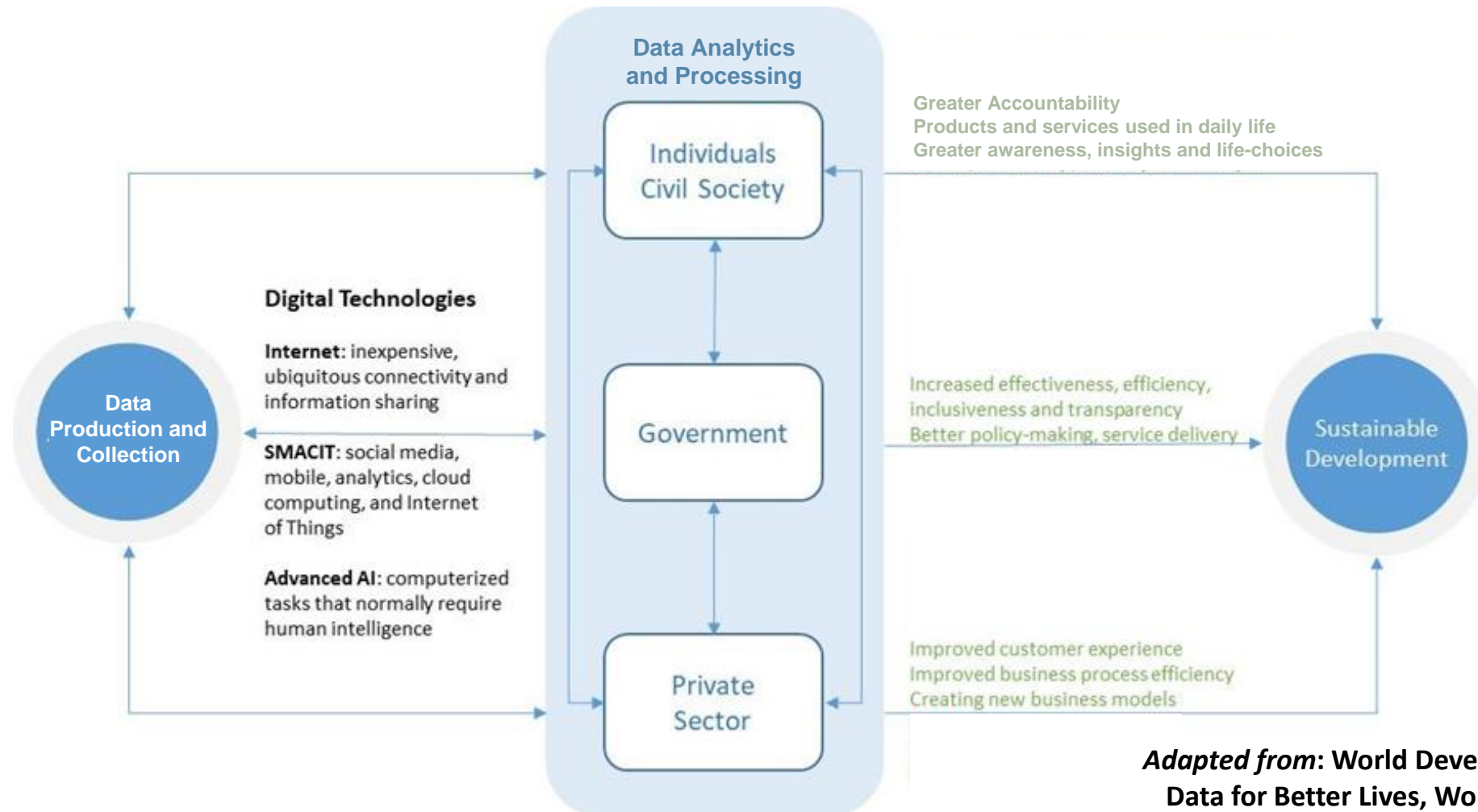
Data sits at the heart of a global movement, the practice of openly publishing key datasets for anyone to analyse and reuse, by leveraging new technologies has a great potential to generate social and economic impact all over the world



**DATA AS AN**  
***ENABLER / DRIVER***  
***Of Development***



# How Data Supports Development: A theory of change



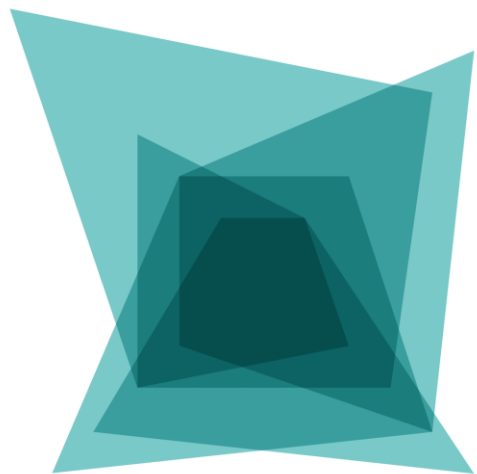
*Adapted from: World Development Report 2021:  
Data for Better Lives, World Bank Group (2021)*



# Data + SDG's

The UN Secretary General called for a *data revolution* as part of the 2030 Agenda for Sustainable Development

*A world that counts—Mobilising the data revolution for sustainable development. UN Independent Expert Advisory Group (2014).*



***“Data is a source of power. It can be exploited for private gain, and used to limit freedom, or **it can be deployed and governed for the public good: a resource for tackling health, social and environmental challenges, enabling collaboration, driving innovation and improving accountability.**”***

**GDB Research Framework 2020**





**DATA AS A  
*DIGITAL FOUNDATION*  
*BUILDING BLOCK***

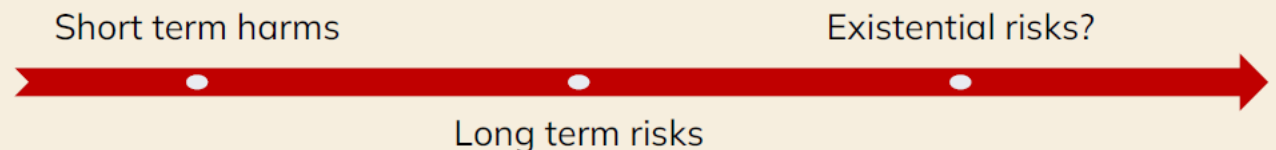


# Interdependence & Coherence between Data and AI Governance

AI is only as good as the data it is trained on  
(AI = algorithms + data + compute)

## Key Governance Issues

- Making data representative; fostering open and accessible data systems
- Developing interoperable standards for data quality and data integration
- Empowering people to control their personal data > principles for data protection

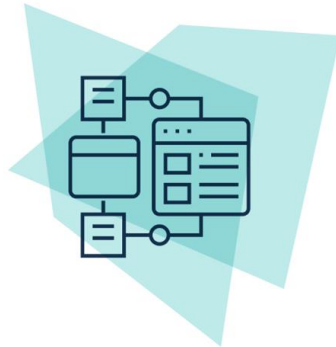


# Key Attributes of the National Data Ecosystem



## GOVERNANCE

Rules, processes, and institutions to make data available for the public good and to safeguard that data against misuse. The country's legal and policy frameworks that support data ecosystems



## CAPABILITY

Concerned with whether the country has the means, connectivity, skills, and institutional capacity (including intermediaries) to create, share, and use data for the public good



## DATA AVAILABILITY

Measures whether certain categories of data are openly available, shared, and of adequate quality to allow reuse for the public good



## USE AND IMPACT

Is there evidence of the state, private sector, academia, and entrepreneurs making effective uses of data and their impact in the country



# Balanced Governance

- Harmonized legal and regulatory frameworks that seek to maximize the benefits and minimize risks
- Unshackle Government Data Sources – *Open Data Policies / Initiatives*
- Protect privacy and security of personal data
- Develop a healthy data culture in the public sector
- Encourage Collaboration between Public-Private-Academia

# Our Agenda

- **9.00-9.30am Preamble** - Driving the Digital Economy: Effective Data Use and Governance
- **9.30 – 10.30am** Practical and Potent: Unleashing the Power of Data with AI and Other Analytics in the Caribbean
- **11.00 – 11.45am** Data as a Digital Public Good
- **11.45 – 12.30pm** Balancing Data Risks and Opportunities through purposeful Data Governance & Regulatory Mechanisms

