جهـــاز التخطيـــط والإحصـــاء
Planning and Statistics Authority
State of Qatar • دولـــة قطـــر

SUSTAINABLE DEVELOPMENT GOALS

Regional Workshop on the Changing Role of Official Statistics in the State of Qatar: Why Data Culture Matters

21st -22nd September 2022, Doha, Qatar
Pullman Hotel, Al Thuraya Ballroom - West Bay

ورشـة العمل الإقليمية حول الـدور المتغير للإحصاءات الرسـمية فـي دولة قطر: ثقافة البيانات مهمة

٢١-٢٢ سبتمبر ٢٠٢٢، الدوحة، قطر
فندق بولمان الدوحة، قاعة الثريا - الخليج الغربي

BUILDING A MODERN DATA ECOSYSTEM

Dr. Konrad Pesendorfer

General Authority for Statistics - KSA

21 September 2022

DATA ECO-SYSTEMS

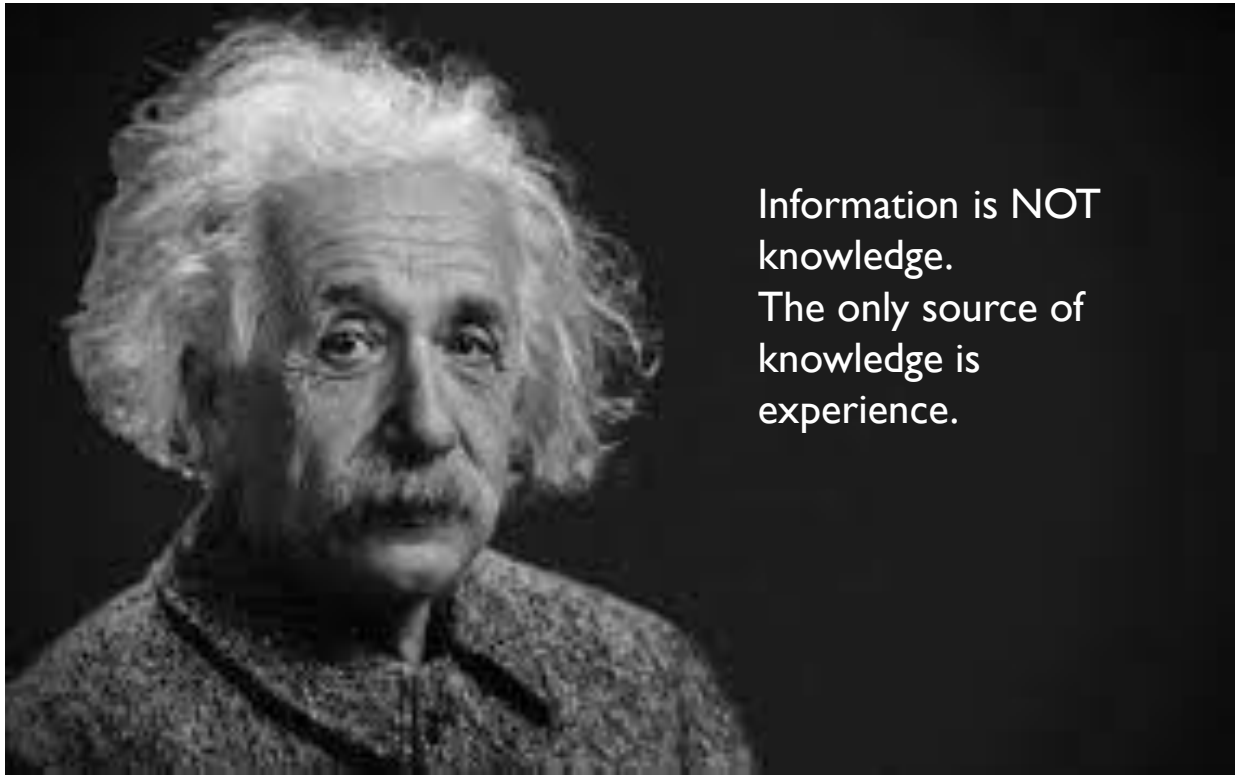
THE PURPOSE

Data

Information

DATA ECO-SYSTEMS

THE PURPOSE



DATA ECO-SYSTEMS

THE PURPOSE

Data

Information

Knowledge

DATA ECO-SYSTEMS

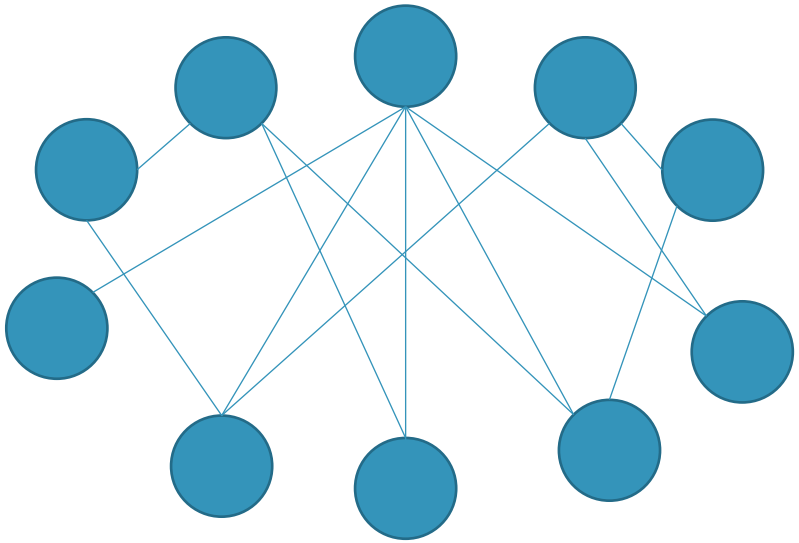
THE PURPOSE

Power comes not
from knowledge
kept,
but from knowledge
shared.

DATA ECO-SYSTEMS

THE PURPOSE

Data = Public Good

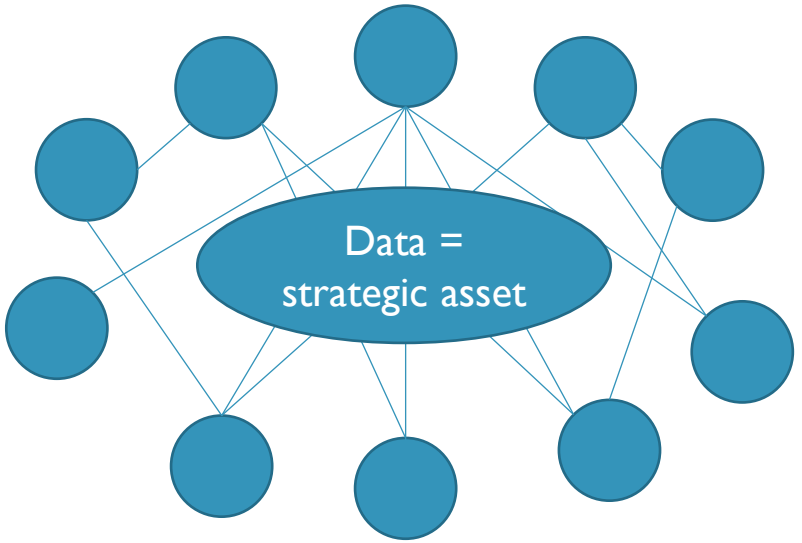


Data access & Data Sharing
are a pre-requisite for
knowledge generation and innovation

DATA ECO-SYSTEMS

MODERN STATISTICS PRODUCTION

Modern Statistics Production

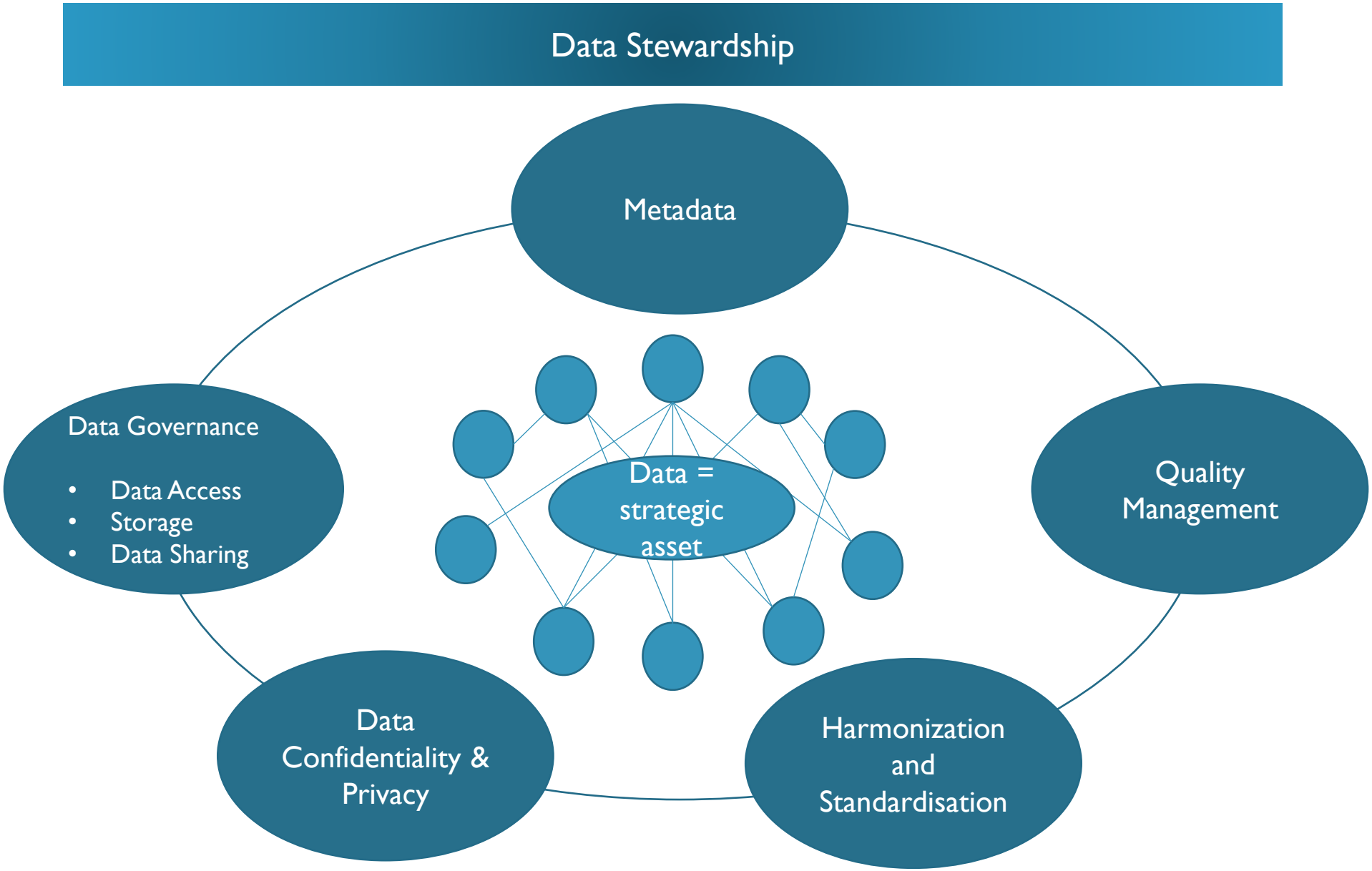


Draws on multiple data sources

to produce high quality statistics

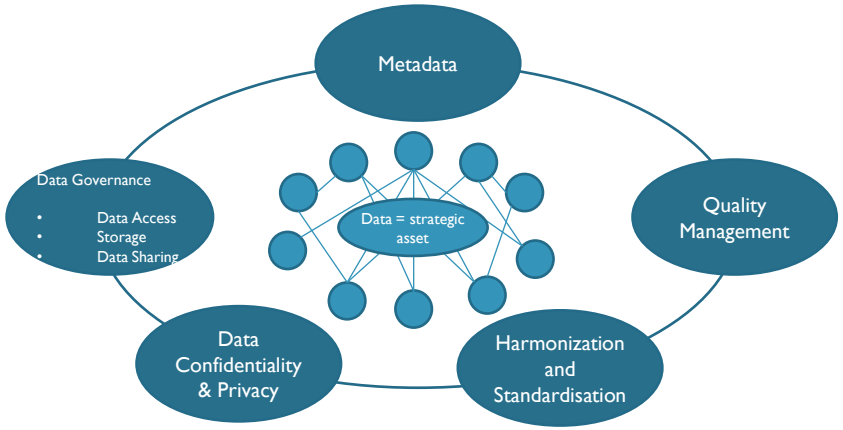
And to generate knowledge through insightful information

FUNCT-IONING OF A DATA ECO-SYSTEM



DATA STEWARDSHIP

Data Stewardship – Role for National Statistics Offices?



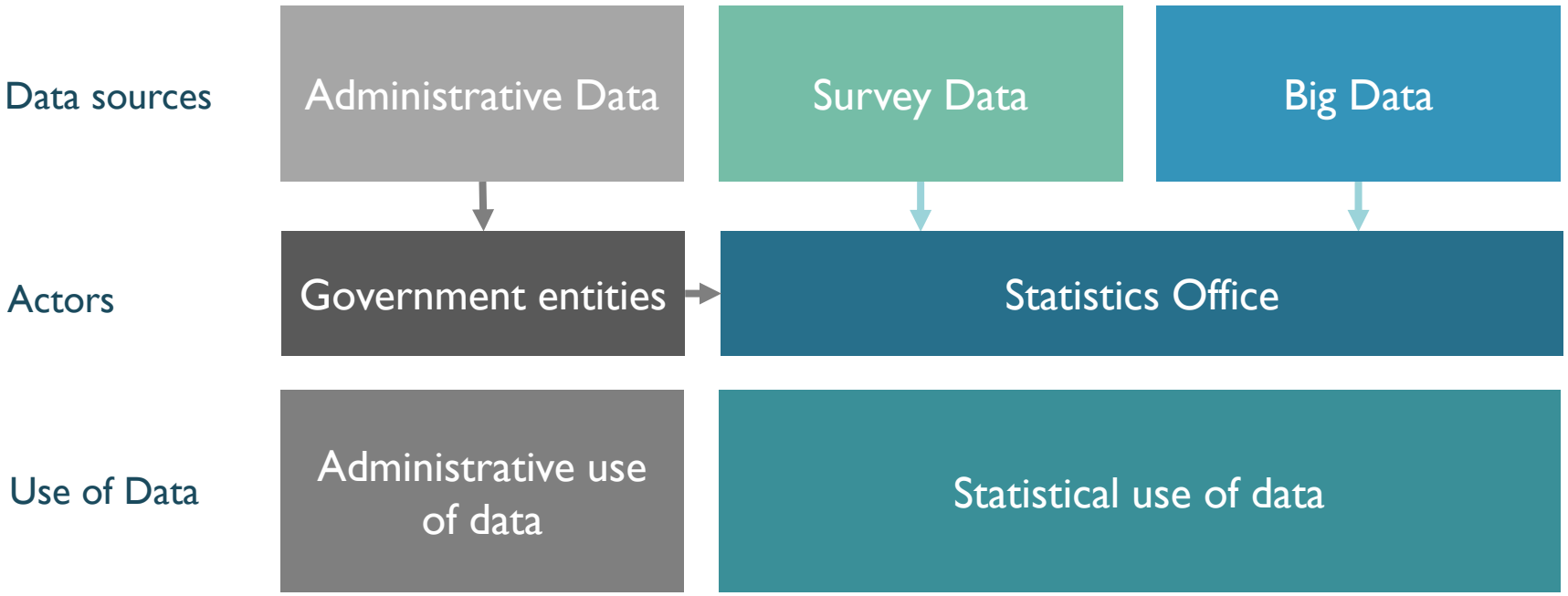
Assets of an NSI

- Mandate and Mission
- Data Expertise
- Processor of Multiple Data Sources
- Stakeholder and user relationship
- Data infrastructure
- Institutional Data Governance Expertise
- Data Quality Expertise
- Etc,

DATA STEWARDSHIP

USE OF DATA

Data Stewardship – Limitations for National Statistics Offices



Purpose

- IDENTIFY the unit to implement an administrative action

- Produce information on the economy/society WITHOUT revealing the statistical unit
- Confidentiality commitment to companies and households at data collection

Examples

- Tax authority taxes a particular company
- MoH registers a particular patient

- Statistics on industries (without naming a company)
- Population census results (without revealing individuals)
- Labor market statistics (without revealing individuals)

DATA STEWARDSHIP

USE OF DATA

Data Stewardship – Limitations for National Statistics Offices

Administrative use of data

NSI can facilitate the processing, but not produce data for administrative purposes

Statistical use of data

NSI can support evidence-based decision-making by producing high quality statistics

Saudi Census 2022

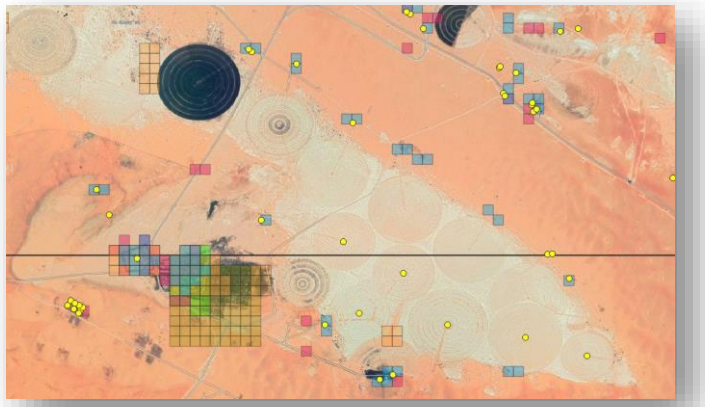
Saudi Census 2022

Hybrid Census

Field Work

Big Data

- Satellite Images
- Electricity Consumption
- Water Consumption
- Mobile phone positioning data

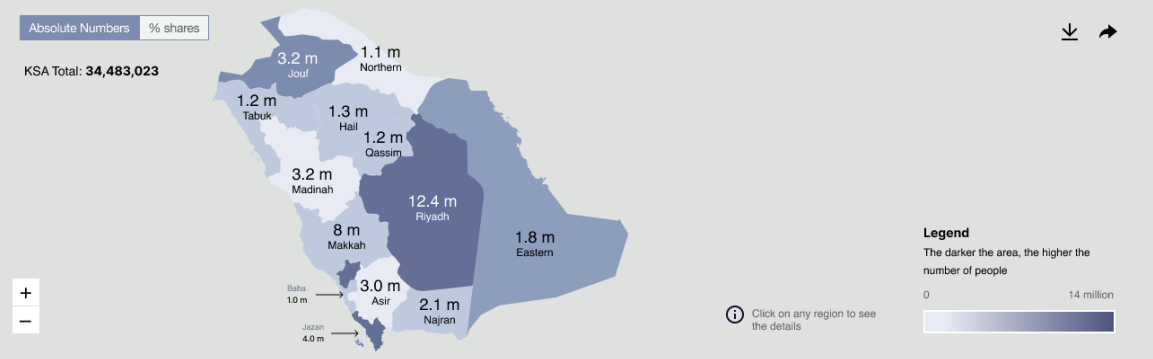


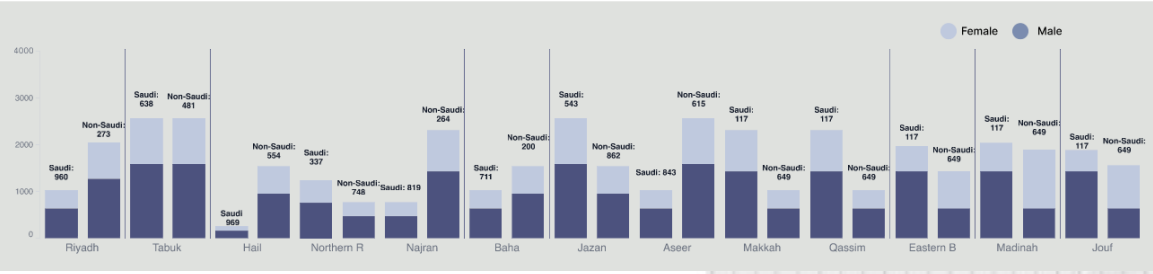
Administrative Data

- Register Population Data
- Education Data
- Saudi Post Data
- Social Security Data
- etc

Saudi Census 2022

Modern Data Dissemination





DATA ECO-SYSTEMS

Conclusions

- Data should be considered a public good
  - Access
  - Data sharing
- Functioning Data Ecosystems require sound and efficient Data Governance and Principles
- National Statistics Institutes are well fit to take the role of Data Stewards – but with limitations
- Cooperation and Partnership more important for a well-functioning Data Ecosystem than the institutional setup

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