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OFFICE

ADB ASIAN DEVELOPMENT BANK

NATIONAL DATA GOVERNANCE ROADMAP

NATIONAL STATISTICS OFFICE

DEC 03, 2024



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- 3. DATA GOVERNANCE OF MONGOLIA**
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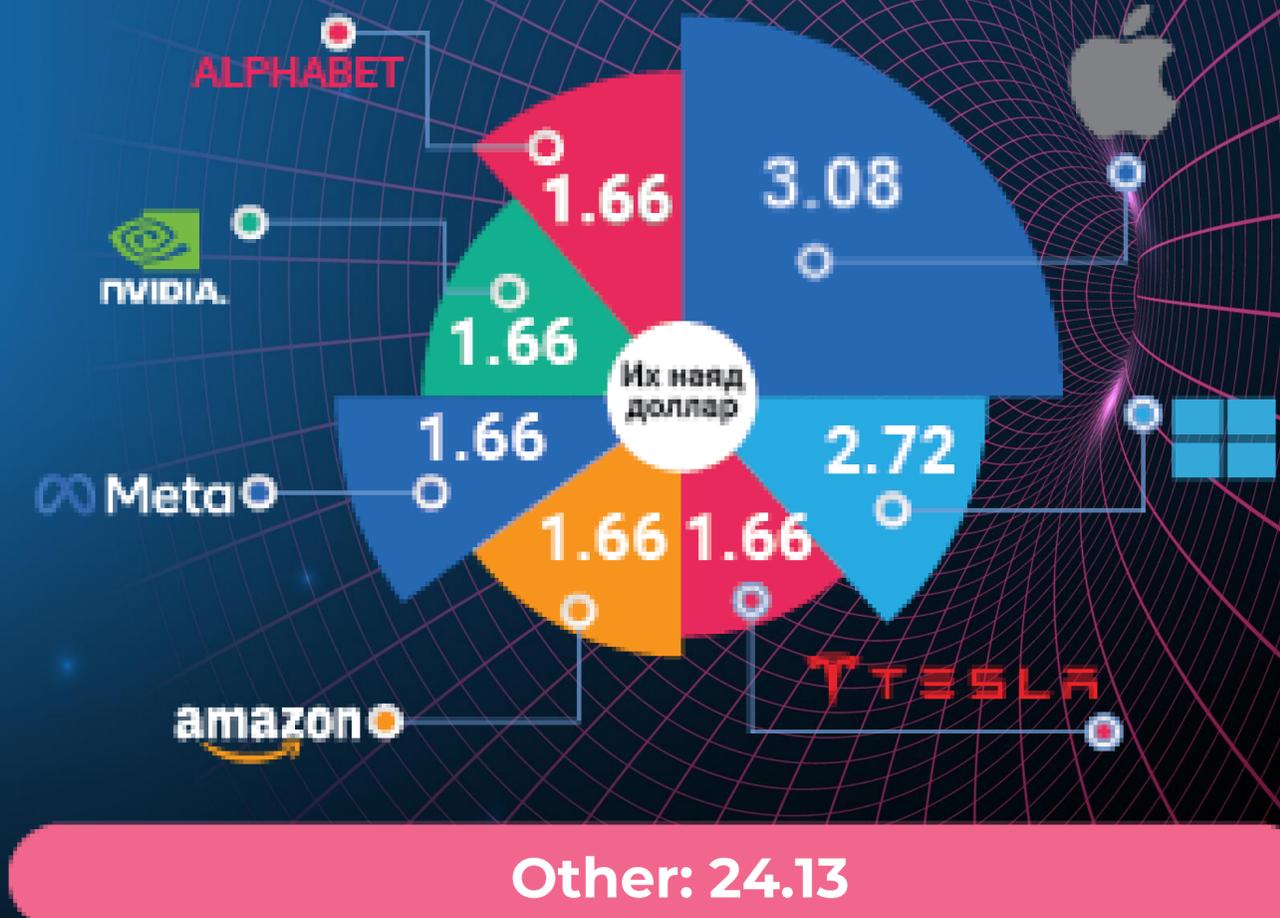
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DEMAND AND NEEDS

GLOBAL STOCK MARKET IN TRILLION-DOLLAR



MARKET CAPITALIZATION OF 7 TECH COMPANIES IN THE USA IN TRILLION-DOLLAR



As of July 2024



DEMAND AND NEEDS

1 USD **INVESTMENT** 32 USD **PROFIT**

DATA SYSTEM & GOVERNANCE



DATA AS AN ASSET

NATIONAL ACCOUNTING SYSTEM
2025

DIGITAL GOVERNANCE



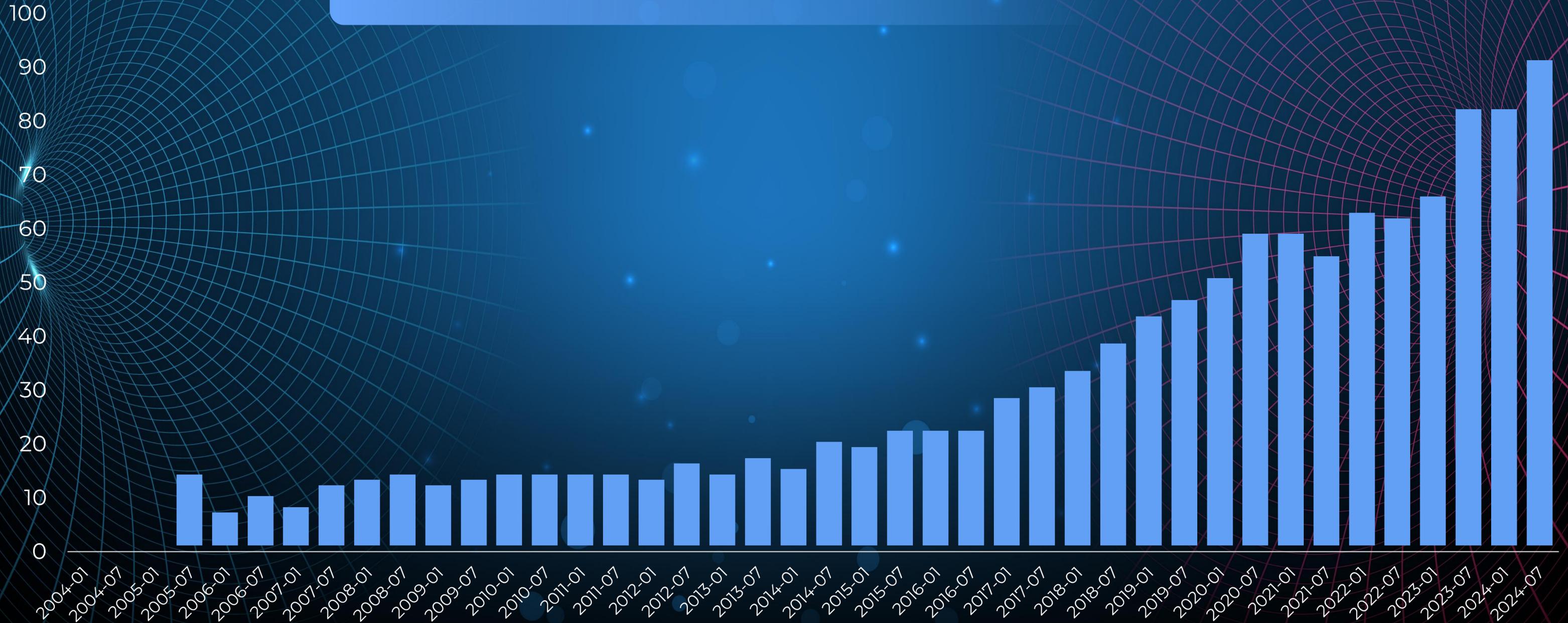


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BASIC CONCEPT OF DATA

Google search: "DATA GOVERNANCE"





BASIC CONCEPT OF DATA

UNITED NATIONS DEPARTMENT OF ECONOMIC AND SOCIAL AFFAIRS

COMPONENTS (6)

Standard
classification
of data

Data sharing,
exchange &
interoperability

Data security
(protection)

Data privacy
(ethics)

Data
infrastructure

Digital identity

BASIC (4)

POLICY AND
REGULATIONS

INSTITUTIONS

PROCESSES

HUMAN
RESOURCES

PRINCIPLES OF SDGs (3)

Accountability

Effectiveness

Inclusiveness



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BASIC CONCEPT OF DATA

The Economic and Social Commission for Asia and the Pacific

GOALS OF
THE VISION
2050



DATA
MANAGEMENT &
RESPONSIBLE
ORGANIZATIONS



DATA
CONTROLLER



DATA
EXCHANGE,
ACCESS,
INTEGRATION



RISK AND ITS
MITIGATION





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BASIC CONCEPT OF DATA

WORLD BANK

NATIONAL

INTERNATIONAL

INFRASTRUCTURE POLICY

- Universal access to broadband
- Internal infrastructure for data exchange, storage and processing

- International technical standards for hardware and software
- Regional cooperation in data infrastructure

LEGISLATION & REGULATIONS

- Protection and security measures against data misuse
- Enable data sharing between stakeholders

- The Conventions on Cybercrime for cooperation in the fight against cybercrime
- Interconnection standards that enable cross-border data exchange

ECONOMIC POLICY

- Anti-monopoly of data platform business
- Commerce and services that may use data
- Taxation of data platform business

- Allocation of taxing rights and international tax treaties
- Agreement on cross-border trade in data-based service

INSTITUTIONS

- Government organizations to control, regulate and protect data
- Set standards for other stakeholders and increase data availability and reuse

- Promote collaboration and standardization for data governance
- Cooperation on international regulation and implementation issues

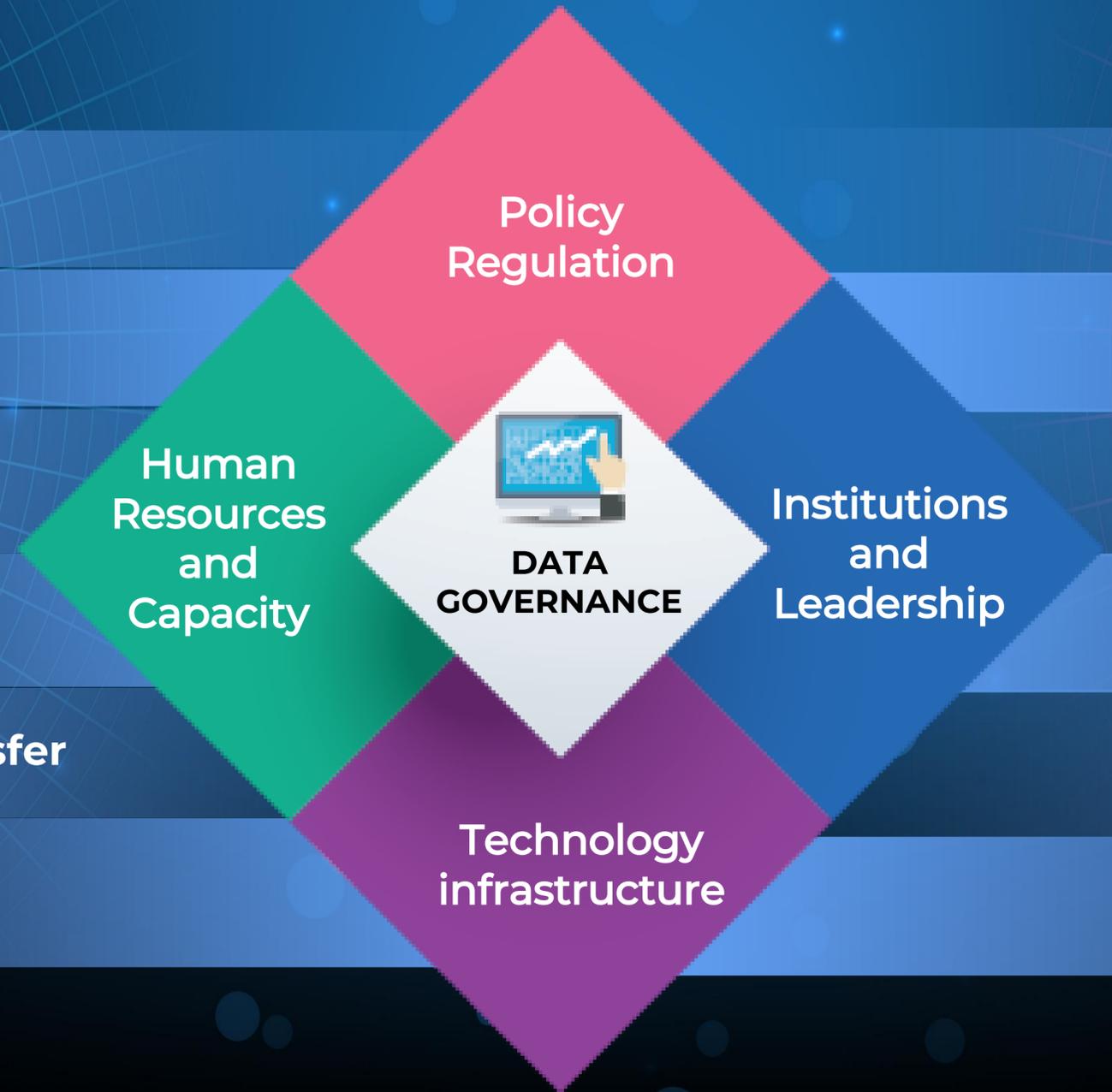


DATA GOVERNANCE OF MONGOLIA

MONGOLIAN DATA GOVERNANCE MODEL

PROCESS

-  Demand
-  Planning
-  Environment
-  Collection & linkage
-  Processing & Transfer
-  Preparation



DATA

-  Standard classification
-  Quality
-  Security
-  Privacy & Ethics
-  Sharing & Exchange
-  Data Integration



CURRENT SITUATION:

Findings from the Policy and Coordination Assessment, by stages

Adequate

Data policy and planning

Legal coordination is in place.

Data collection, integration and use

Data collection is regulated by the Law on Statistics.

Data processing and dissemination

Processing and internal use of data by a data controller is fully reflected in the legislation.

Evaluation and improvement of a database

According to the Law on Statistics, it is assumed the responsibility to evaluate the quality and accuracy of administrative data.

Security and protection

Data security is regulated by relevant laws.

To be improved

A lack of regulation to create an integrated database.

To introduce regulations for **linkage, storage and use** of databases

To develop a technological environment for creating an integrated database

To design policies and plans for database evaluation and improvement

To improve the anonymization processes whereby the data subject could not be identified.

There is **a lack of clear regulations** on integrating data and creating an integrated database.



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CURRENT SITUATION:

Findings from the Institutional and Leadership Assessment, by stages

Adequate

To be improved

Data policy and
planning

A Government Resolution on the creation of a big data database was approved.

To identify the role and functions of data management and data governance

Data collection,
integration and use

A core government data exchange system is aimed more at delivering government services to the people.

To look into and implement changes to the core government data exchange system, or create a new system based on a comprehensive assessment

Evaluation and
improvement of a
database

Government institutions are collecting data and using it to evaluate policies and programs and make decisions.

To implement and evaluate data quality management at each stage of data governance and create an integrated database

Security and
protection

A data security system and responsible organizations are defined and operating by legislation.

Regularly perform relevant measures such as data security risk assessment and audit



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CURRENT SITUATION:

Findings from the Human Resources and Capacity Assessment, by stages

Adequate

To be improved

Data analytical capacity

More than 40.0% of government institutions have units and employees responsible for data processing and data security.

To improve the 1) descriptive, 2) diagnostic, 3) predictive and prescriptive skills of civil servants

Data management capacity

In government institutions, IT and statistics staff are undertaking tasks related to data policy and operation.

There is a need to define and create data management and governance functions in detail at the national level and at the level of sectors and organizations.



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CURRENT SITUATION:

Findings from the Technology and Infrastructure Assessment, by stages

Adequate

To be improved

Data policy and planning

Government institutions use different systems and software.

To create and implement a metadata management system and data catalogue

Data collection, integration and use

Prototypes of the Integrated Government Database and Integrated Metadata Database have been launched.

To have interoperability and standard architecture of the Integrated Government Database, Metadata Database, Core Government Data Exchange System

Evaluation and improvement of a database

There are good practices in data integration at the sectoral level.

To use metadata procedures, standards, classifications and codes, and to create dedicated channels for data exchange

Security and protection

Back-ups of the core and specialized databases are scheduled to be transmitted to the National Data Center on a regular basis.

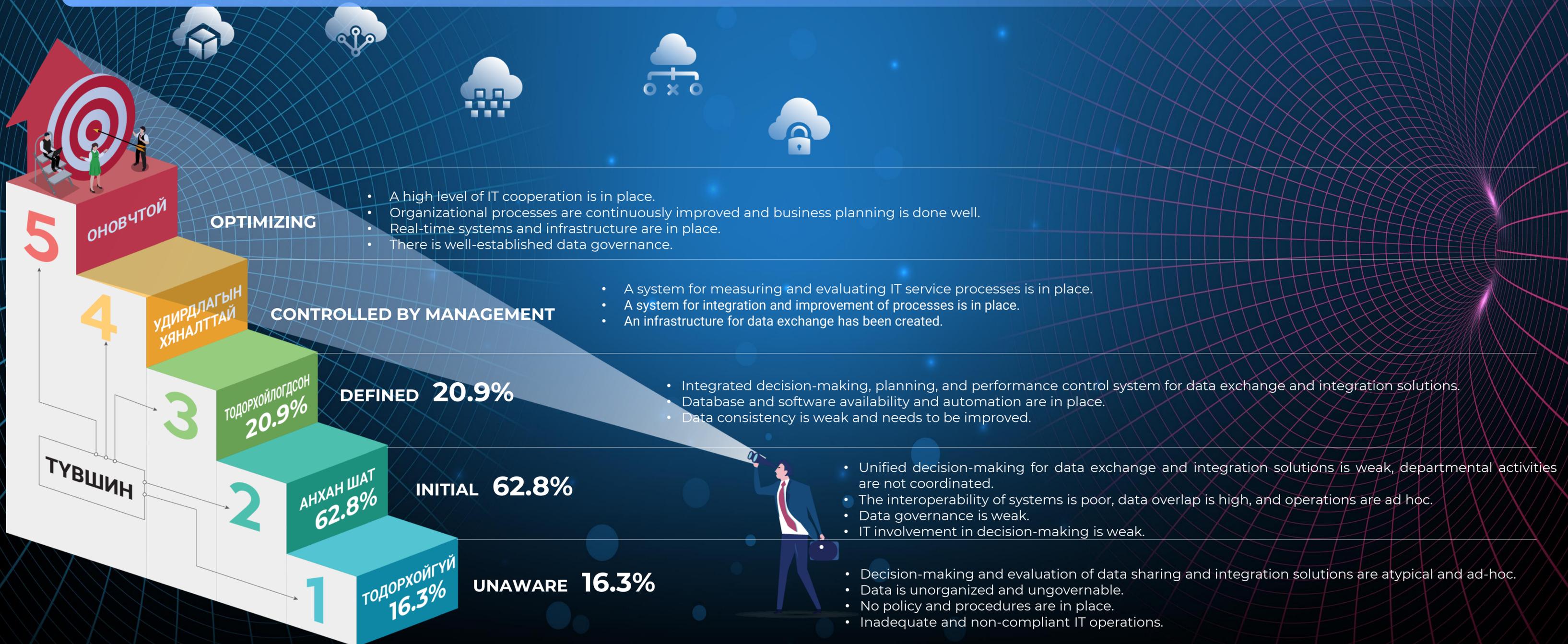
To implement a data security system



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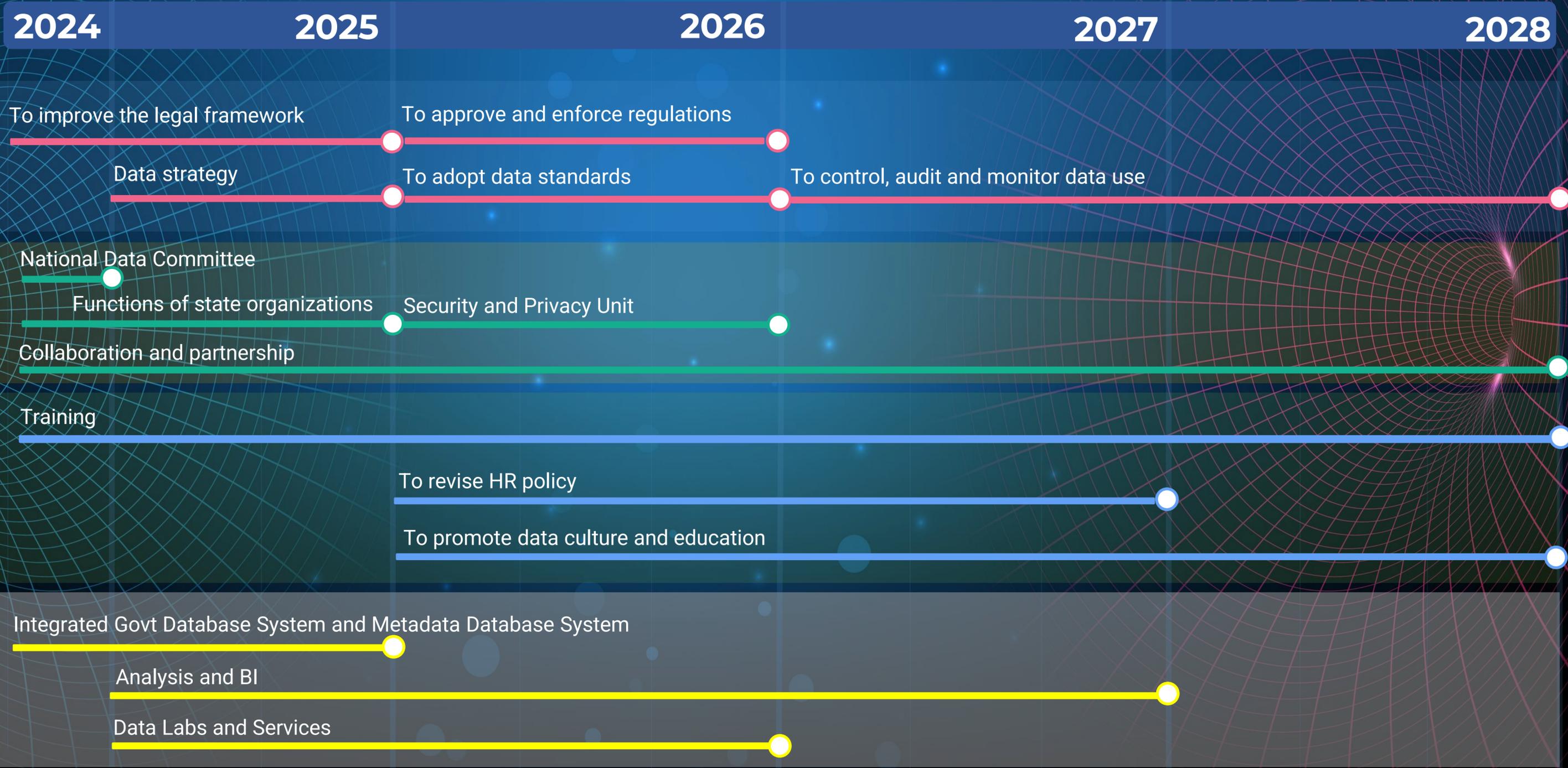
MATURITY ASSESSMENT

Gartner IT Management Process Maturity Model





ACTION PLAN





▶ OUTCOME



Development and improvement of the national data system



Enhancement of data-driven decision-making at all levels



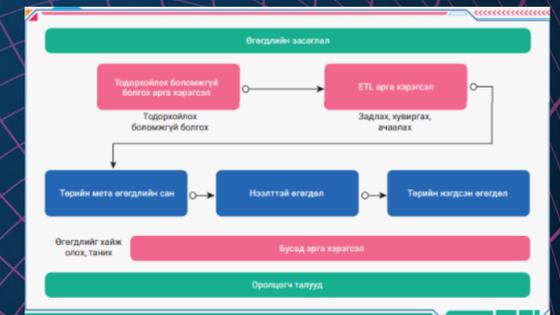
Development of e-economy and data-based economy



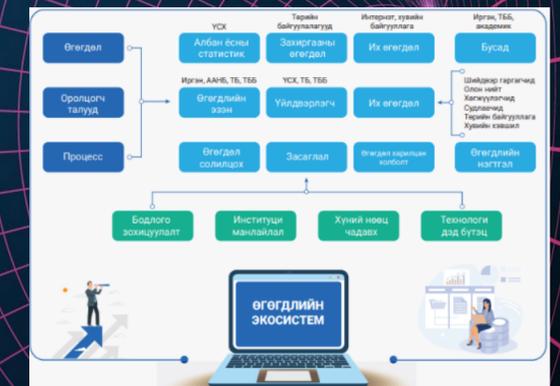
Progress towards and modernization of statistical production processes



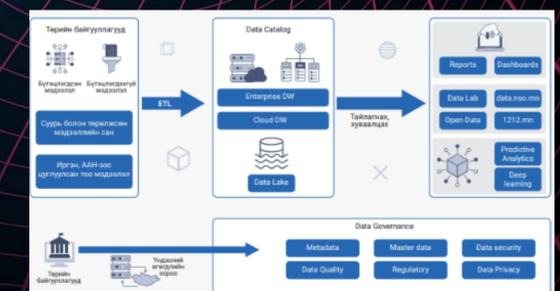
Өгөгдлийн экосистем



Өгөгдлийн экосистемийн зураглал



Өгөгдлийн архитектур





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**THANK YOU
FOR YOUR ATTENTION!**