



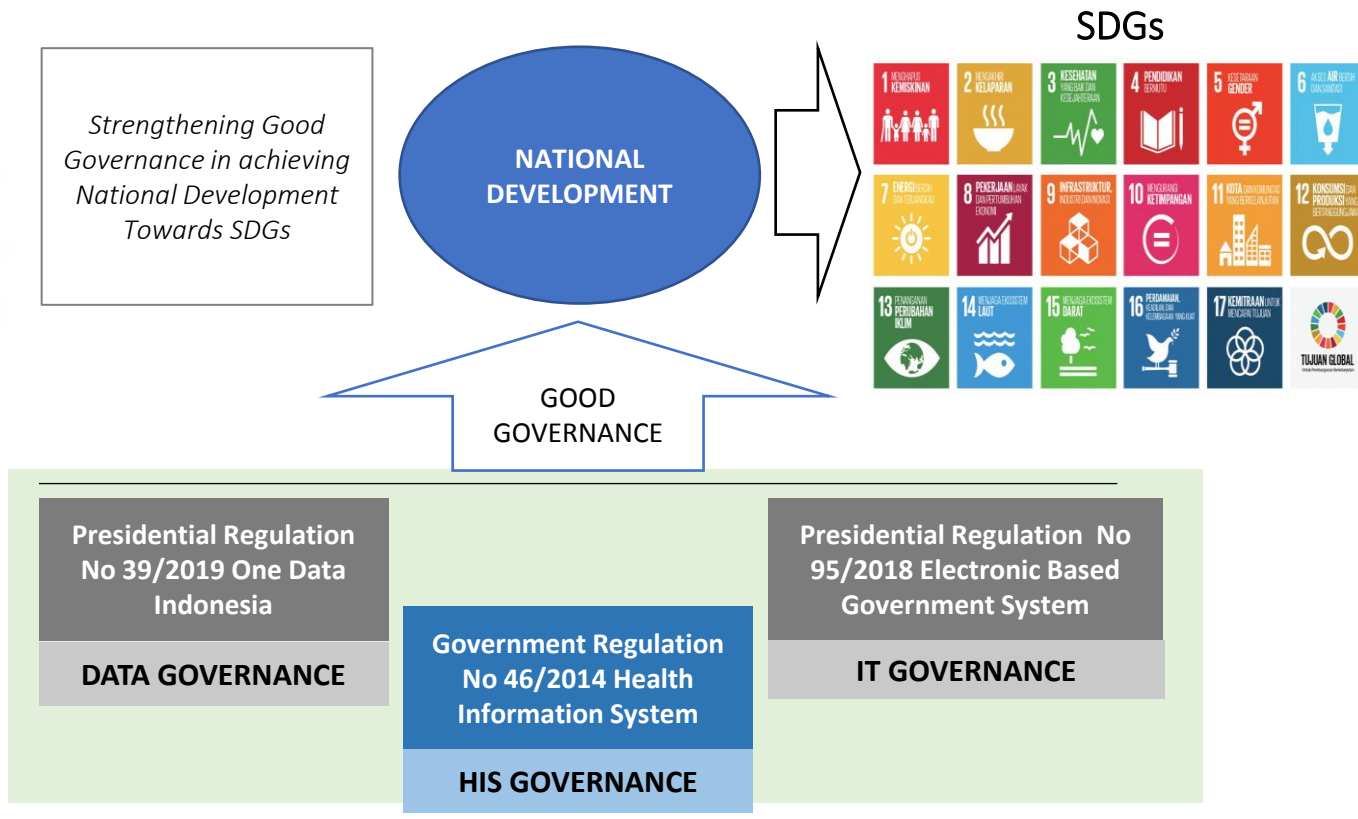
# Digital Health for Futuristic Health System and Sustainable Development

## Indonesia's One Health Data Policy

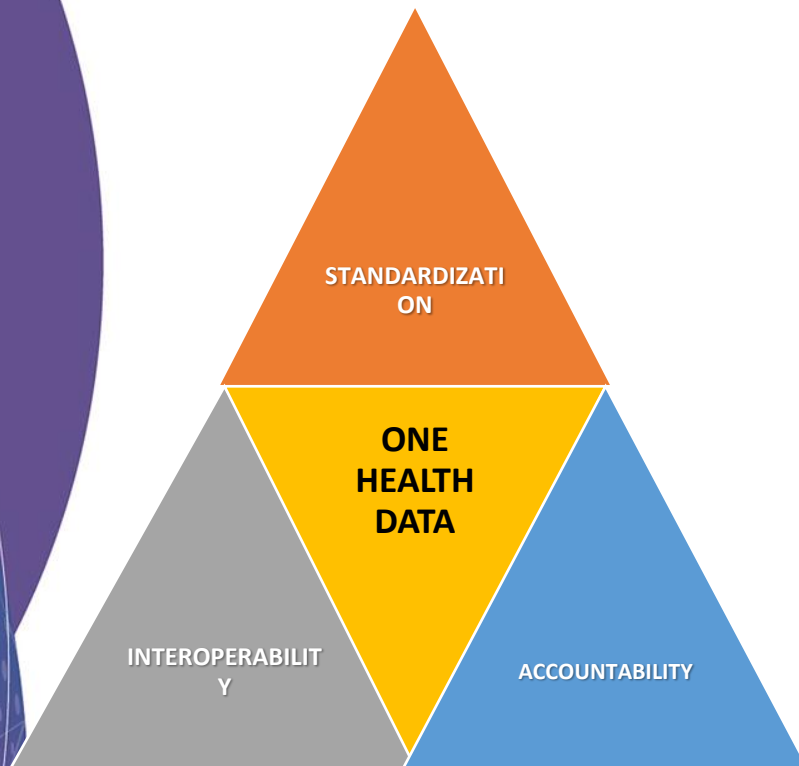


#2020SATUDATAKESEHATAN

# One Health Data Regulation



# One Health Data Policy



- **Standardization** at all nodes of the data management process includes the standardization of datasets, metadata, and systems at the collection, processing and analysis nodes, as well as the presentation and dissemination of data and information.
- Data sharing through **interoperability** includes sharing data on health service information systems and sharing data on reporting and monitoring and evaluation information systems.
- Utilization of data for evidence-based decision making (**accountability**) includes the process of clearing data to obtain one data and providing data access through a portal for various parties in accordance with their authority.

The diagram illustrates a data management system architecture divided into three main categories of data sources on the left, which feed into a central processing pipeline on the right.

- Category 1: DATA-STRUCTURED (Internal MOH)**
  - NON-ROUTINE DATA (Research):** Represented by a magnifying glass icon, it flows through multiple green arrows into the central pipeline.
  - ROUTINE DATA (Health facilities):** Represented by a document icon, it flows through two parallel paths. Each path includes a box labeled "UKP (Indonesia)" or "UMM (Singapore)", followed by a box labeled "SOA", and finally a database icon labeled "DATABASE".
- Category 2: DATA-STRUCTURED (External MOH)**
  - DATABASE MOH/OTHER INSTITUTIONS:** Represented by a building icon, it flows through multiple blue arrows into the central pipeline.
- Category 3: DATA-NON-STRUCTURED**
  - NEWS SITES:** Represented by a newspaper icon, it flows through multiple orange arrows into the central pipeline.
  - SOCIAL MEDIA:** Represented by a speech bubble icon, it flows through multiple orange arrows into the central pipeline.

All data from these categories feeds into a central vertical stack representing the data processing pipeline:

- DATA LAKE:** The initial storage point, represented by a dark grey vertical bar with horizontal lines and a cloud/wave icon at the top.
- DATA MART (DWH):** The next stage, represented by a dark grey vertical bar with horizontal lines and a shopping cart icon at the top.
- Decision Support System:** The third stage, represented by a dark grey vertical bar with horizontal lines and a shopping cart icon at the top.
- INFORMATION /KNOWLEDGE/ WISDOM:** The final stage, represented by a dark grey vertical bar with horizontal lines and a graduation cap icon at the top.

Below the central pipeline, three light blue boxes indicate the processes associated with each stage:

- DATA CLEANING:** Associated with the Data Lake stage.
- DATA MINING:** Associated with the Data Mart (DWH) stage.
- MODELING PREDIKTIF:** Associated with the Decision Support System stage.

The entire process is titled **POROS KEBIJAKAN (policy cycle)** at the top right.

## Priority of Strengthening HIS and Digital Health Capacity

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- Strengthening the **governance and leadership** of the national health system to enable the working mechanism and commitment
- Improving and expanding **investment** and choose the right **strategy** to accelerate the implementation of digital health in conditions of limited resources
- Improving and expanding the **services** and **applications** of ICT systems that can improve the quality of health care work processes
- Strengthening health informatics **standardization** and system **interoperability** to cope the complexity of the health care system
- Expanding and strengthening the information and communication technology **infrastructure** for the implementation of digital health is widely
- Strengthening **human resources** in ICT for accelerating the implementation of digital health
- Strengthening **legislations** and **policies** of national digital health as a foundation, direction, and purpose of the implementation of digital health in the future, and ensuring the integrity of the health care system



Terima kasih  
thank you