

**International Seminar**  
**DIGITAL RECORDS**  
**AND LEGAL ADMISSIBILITY**  
**2024**



**Mr. Imam Gunarto**  
National Archives of the Republic of Indonesia

**Digital Records and Legal Admissibility, Indonesia**  
**Experience**



# ENSURING LEGAL COMPLIANCE: DIGITAL RECORDS IN INDONESIA

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**IMAM GUNARTO**

**THE ACTING HEAD OF THE NATIONAL ARCHIVES  
OF THE REPUBLIC OF INDONESIA**



- 1 Law Number 1 of 2024 on the Second Amendment to Law Number 11 of 2008 on Electronic Information and Transactions
- 2 Law Number 43 of 2009 on Records and Archives Administration
- 3 Law Number 27 of 2002 on Protection of Personal Data
- 4 Presidential Regulation Number 95 of 2018 on Electronic-Based Government System (SPBE)
- 5 State Gazette Number: 05/SE/M.KOMINFO/10/2005 on the Use and Utilization of Legal Software in Government Agencies
- 6 State Gazette Number: SE/01/M.PAN/3/2009 on the Utilization of Legal Software and Open Source Software (OSS)
- 7 Regulation of Minister of Communication and Informatics Number 7 of 2013 on Guidelines for the Implementation of Office Document Interoperability for Electronic Systems for Public Services
- 8 Regulation of the National Archives of the Republic of Indonesia Number 6 of 2021 on the Management of Electronic Archives
- 9 Regulation of the National Archives of the Republic of Indonesia Number 1 of 2023: on Guidelines for Authenticating Archives
- 10 Regulation of the National Archives of the Republic of Indonesia Number 20 of 2011 on Guidelines for Authenticating Electronic Archives
- 11 Circular Letter of the Minister of Communication and Informatics of the Republic of Indonesia Number 9 of 2023 on Artificial Intelligence Ethics







# The Development of the National Archival System towards Indonesia 2045

RPJP 2005-2024

**Expanding the implementation of information and communication technology (ICT) in records and archives administration** through archival transformation into electronic systems in order to improve the quality of life in the community, nation, and state.

Strengthening the big data capacity of national archives and access to digital archival services.

2019  
Good Records Management

2020-2024

- Transformation to digital system**
- 1. Legal Platform (Digital Culture).**
  - 2. Archival Electronic-Based Government System (SPBE).**
  - 3. Digitization of Collective Memory of the Nation.**

2025-2029  
Big Data Archives/Big Archives

2030-2034

**Strengthening the Archival Information System (SIK) in interconnected government**

**Integrating a National Archival Information System with Interconnectedness Governance to achieve an open, clean, reliable and trustworthy government.**

2035-2039

**Records and Archives Administration in Modern Government**

**Improvement of public services in digital archives sector and realization of a modern government bureaucracy**

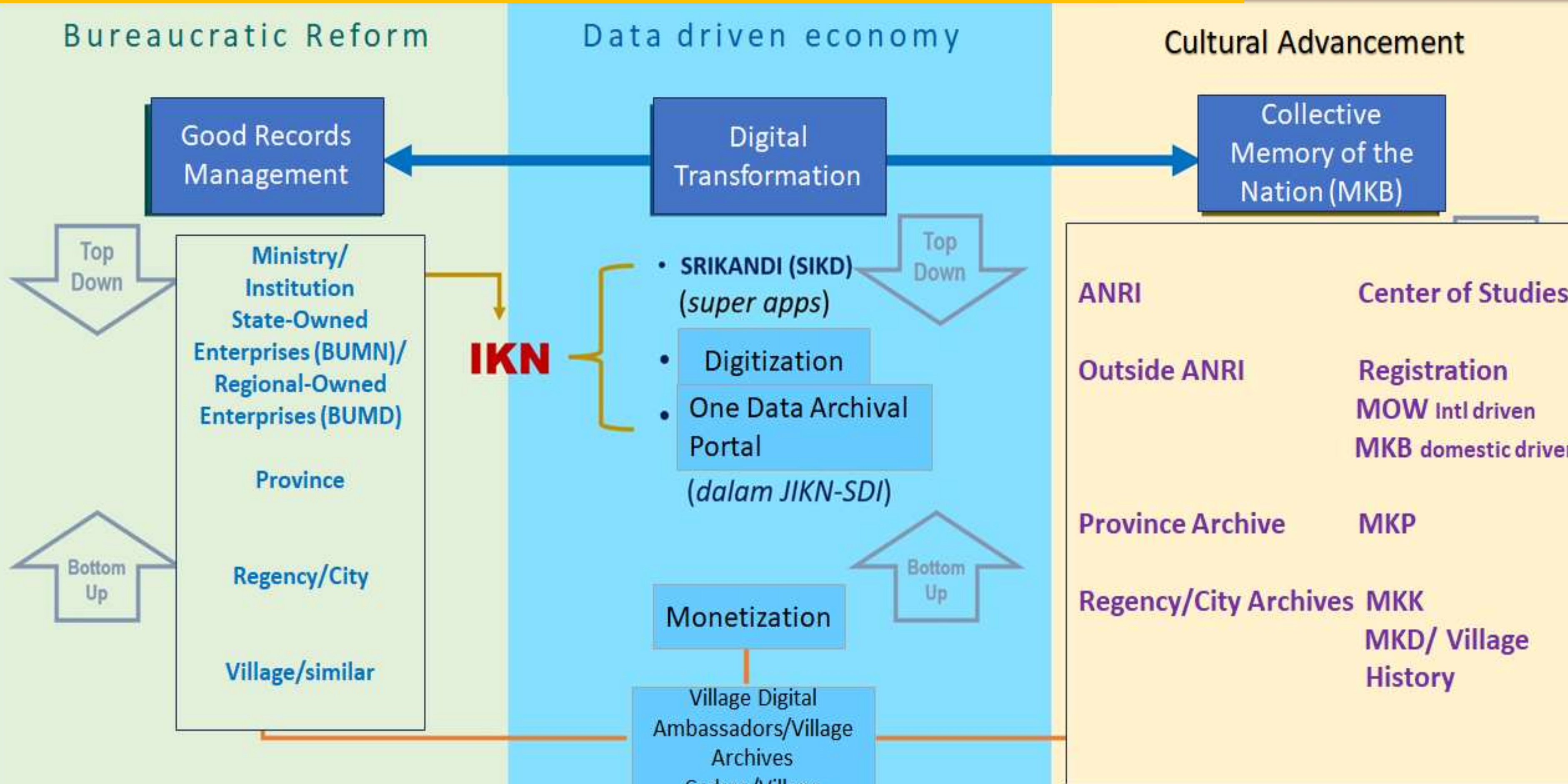
2040-2045

**Integrated Center of Reference, Knowledge, and Civilization**

**Strengthening the integrity of collective memory digitally (modern) and becoming an integrated center of reference, knowledge and civilization.**

RPJP 2025-2044/2045

# Main Archival Program to Support Bureaucratic Reform and Cultural Advancement





# CHAMPION PROGRAM OF RECORDS AND ARCHIVES ADMINISTRATION 2025 - 2029

## ESTABLISHING COLLECTIVE MEMORY OF THE NATION THROUGH COMMUNITY-BASED ARCHIVES

### Outcome

- Increasing public awareness in the field of archives and national history;
- Strengthening national identity;
- Preserving national, traditions, customs, community cultures, and local wisdom values.

## STRENGTHENING NATIONAL CULTURAL RESILIENCE THROUGH MARITIME ARCHIVES

### Outcome

- Establishment of Indonesian learning/memory/deposit centers as the world's maritime axis;
- Creating unity and solidarity among all Indonesian communities, especially in border areas;
- Strengthening the role of archives as a defence and international diplomacy materials

## ARSIPpedia/ANRIpedia, AI AND ChatGPT UTILIZATION

### Outcome

- Availability of authentic, complete, and reliable archive data for governmental, state, and societal activities;
- Rapid and widespread dissemination of government policies and performance accountability through archives to public
- Optimizing ICT utilization for records and archives administration





# The National Archives Strategic Plan in 2025-2029

## ANRI-pedia (Champion Program)

**Big  
Archives**

**ANRI-  
Pedia  
Digitally  
Access**



**E-depot Data**  
(Digitized and Digitalized  
Archives)

**SIKN / JIKN Data**  
(Archives from all  
creating agencies)

**SRIKANDI Data**  
(Entire government records)

**Sejarah Nusantara  
Data**  
(VOC Archives)

**AI and CHAT GPT  
as  
a search engine**



# DIGITAL PLATFORM IN ANRI



## Layanan PDN Sementara Government Cloud

- Infrastruktur as a Service (IAAS)
- Software as a Service (SaaS)
- Platform as a Service (PaaS)
- Security as a Service (SECaaS)



## E-depot

Storage

Risk assessment

Restoration

Digitization & Digitalization

BACK UP AND INTEGRATION

- SRIKANDI
- SIKN/JIKN
- SEJARAH NUSANTARA



Law Number 43/2009 on Records and Archives Administration mandates that records and archives are managed in “a **comprehensive and integrated system**”

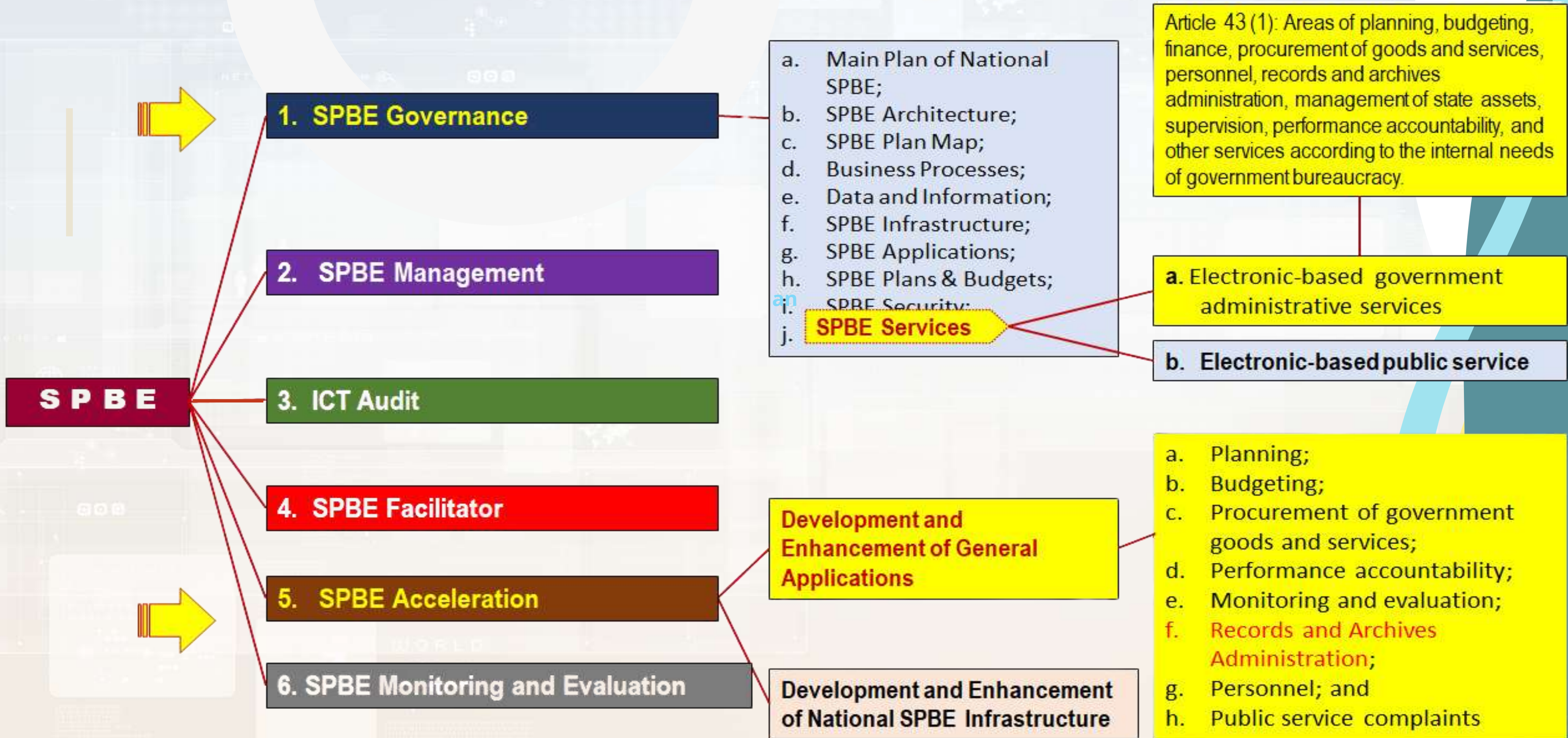
Presidential Regulation Number 95/2018 on Electronic-Based Government System (SPBE) mandates the implementation of “**an integrated records and archives administration service system**” through:

1. Shared use of records and archives and information of records and archives within Central Agencies, Local Governments, and/or between Central Agencies and Local Government;
2. Establishment of an integrated database for shared use of records and archives and information of records and archives; and
3. Implementation of an integrated records and archives administration application system

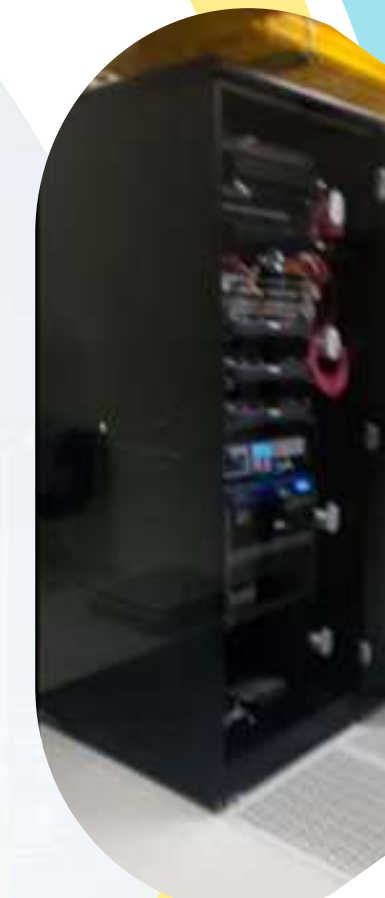
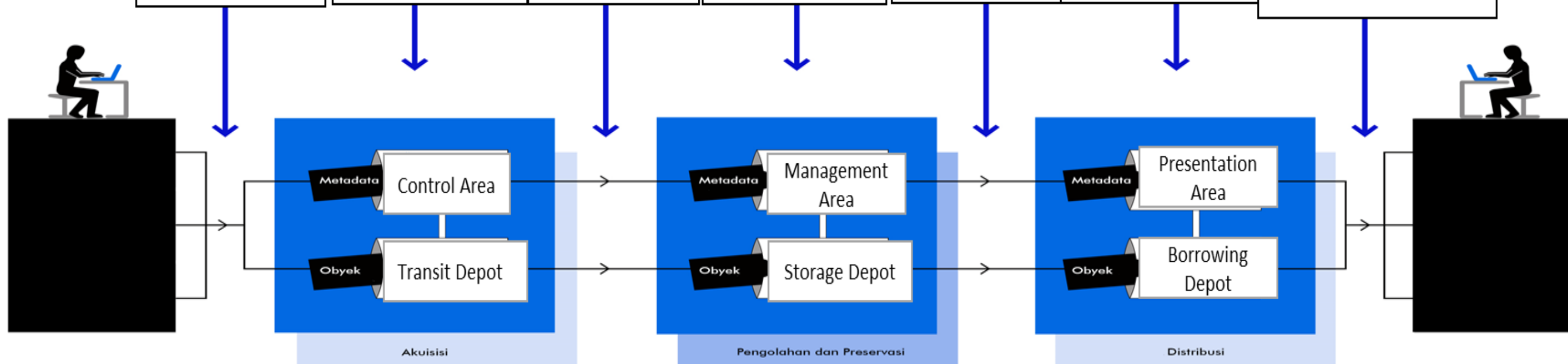
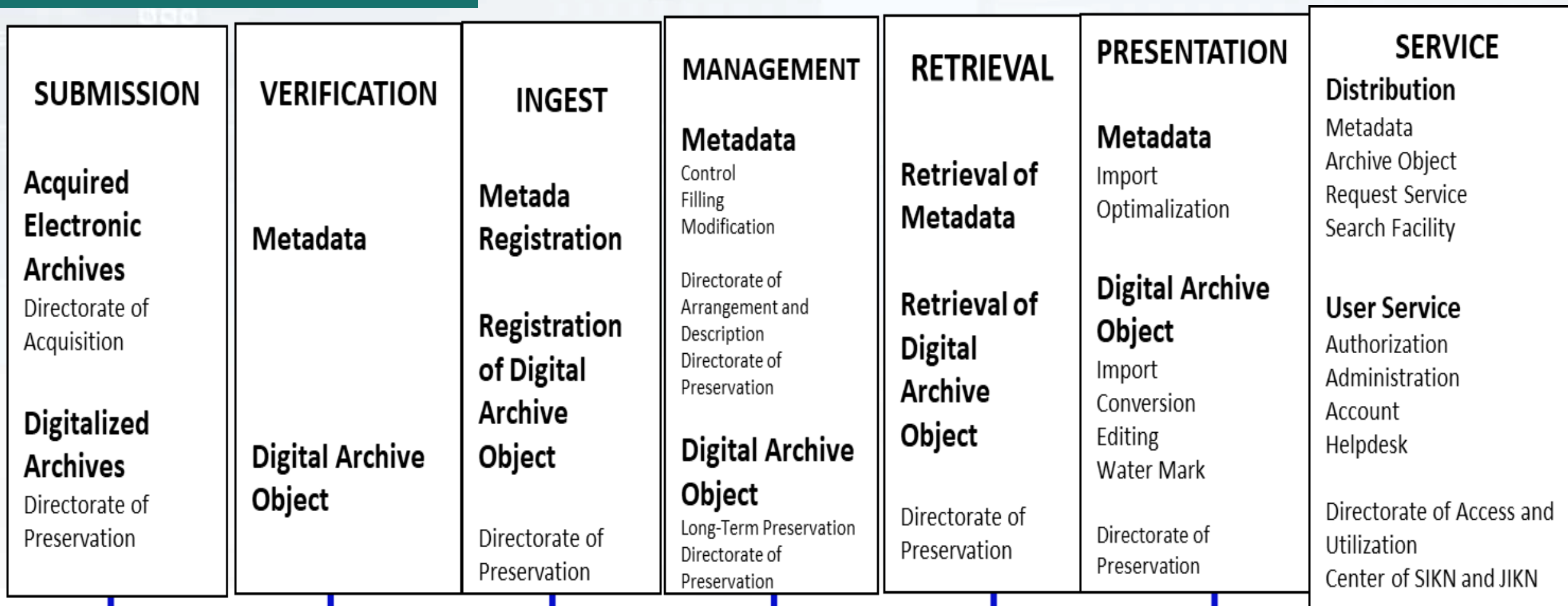




# RECORDS AND ARCHIVES ADMINISTRATION IN PRESIDENTIAL REGULATION NUMBER 95/2018 ON ELECTRONIC-BASED GOVERNMENT SYSTEM (SPBE)

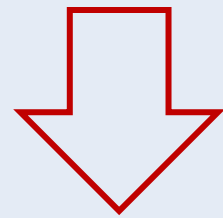








# PRESIDENT OF THE REPUBLIC OF INDONESIA



## NATIONAL ELECTRONIC-BASED GOVERNMENT SYSTEM (SPBE) COORDINATION TEAM

Coordination and Implementation of Electronic-Based Government System (SPBE) Policies at Central Agencies and Local Governments



# SRIKANDI

Sistem infoRmasl KeArsipaN Dinamis terintegrasi



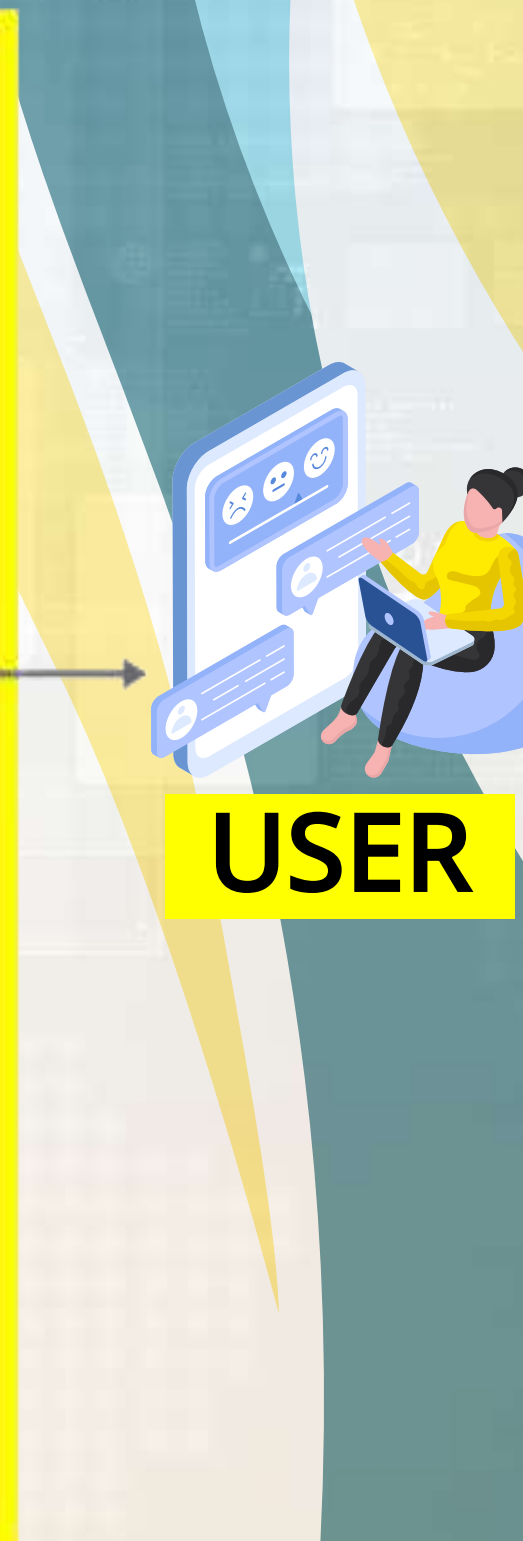
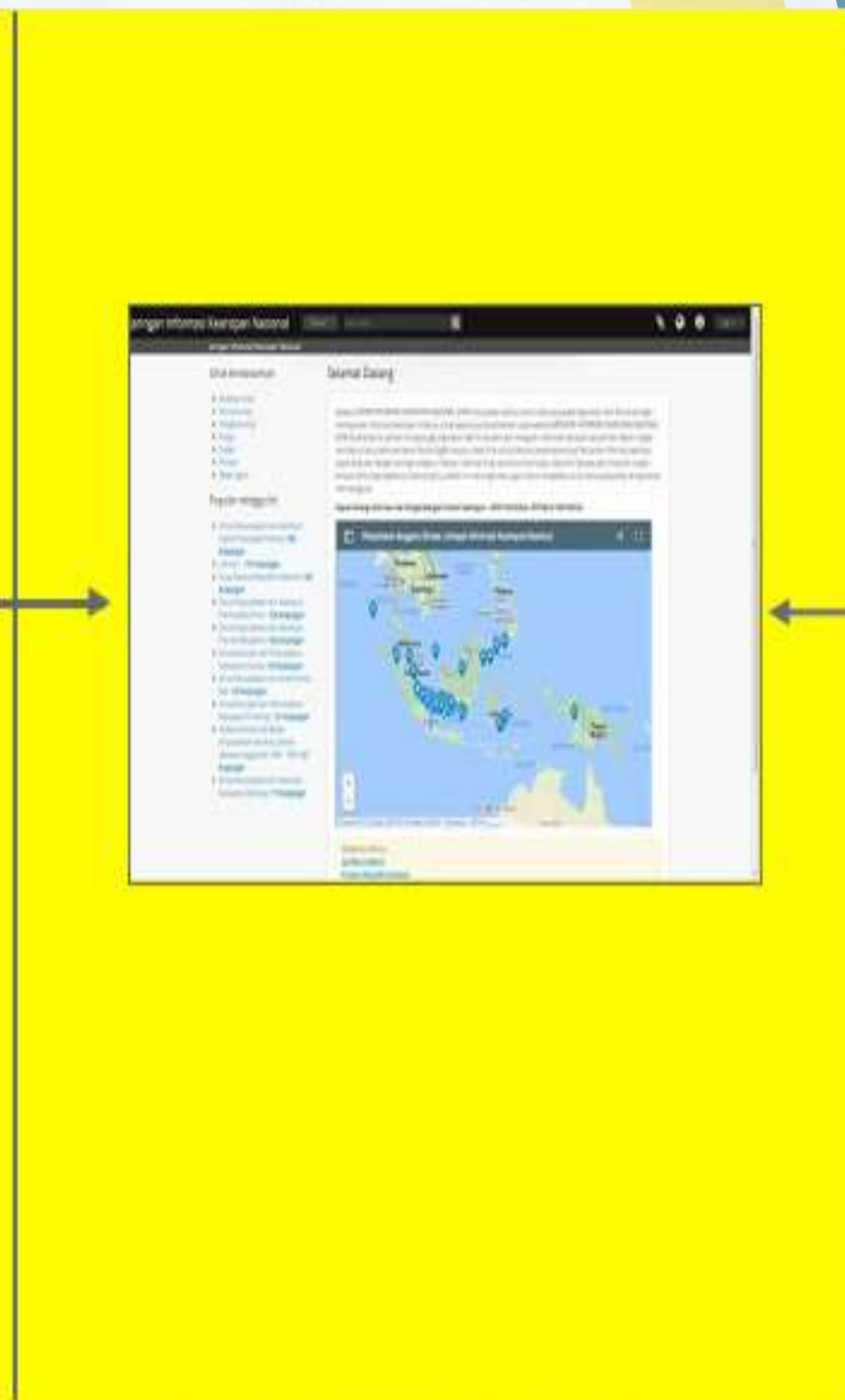
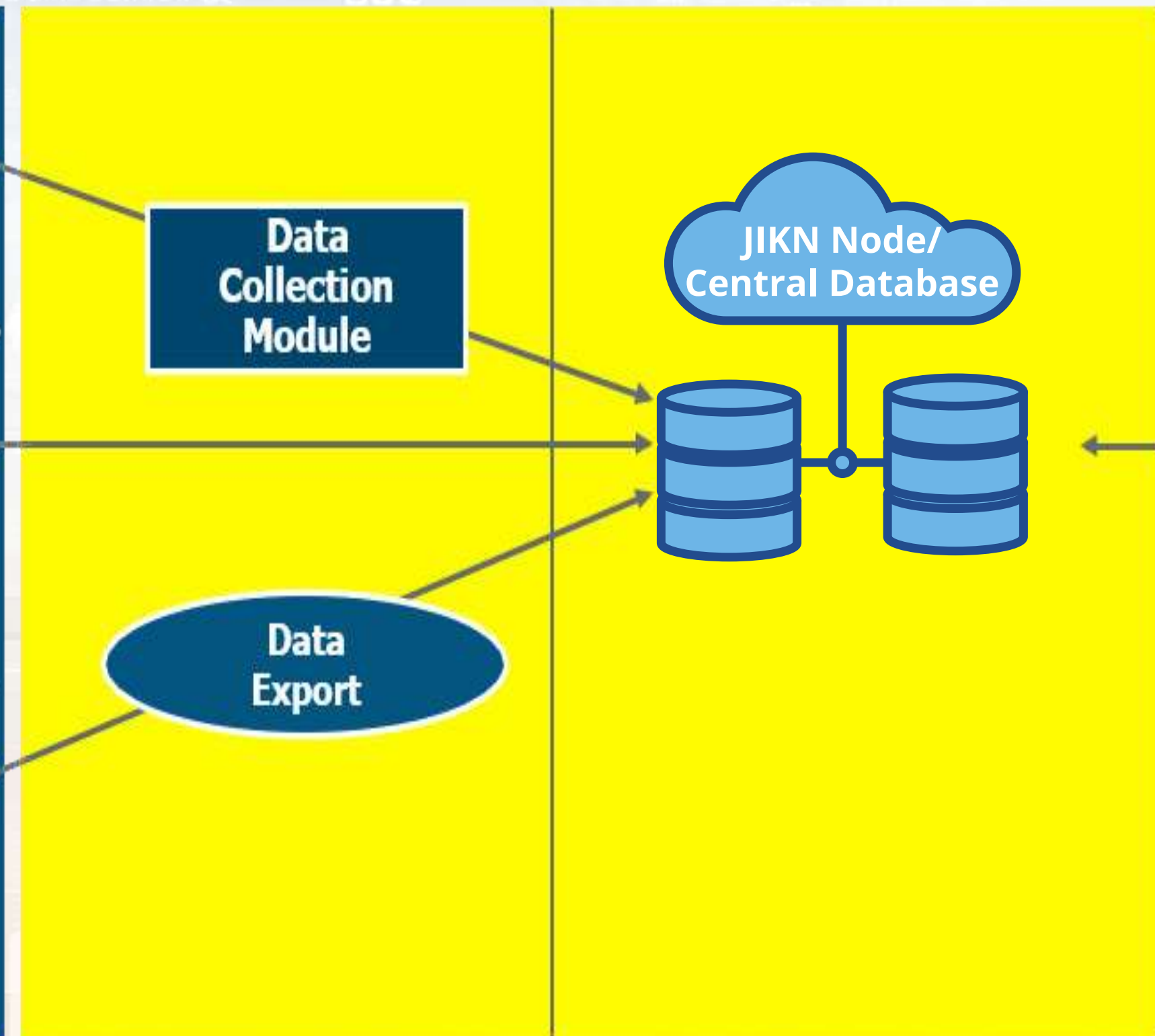


# The Process of National Archival Information System (SIKN) and National Archival Information Network (JIKN)

Records/Archives Management System

SIKN Application

JIKN Website



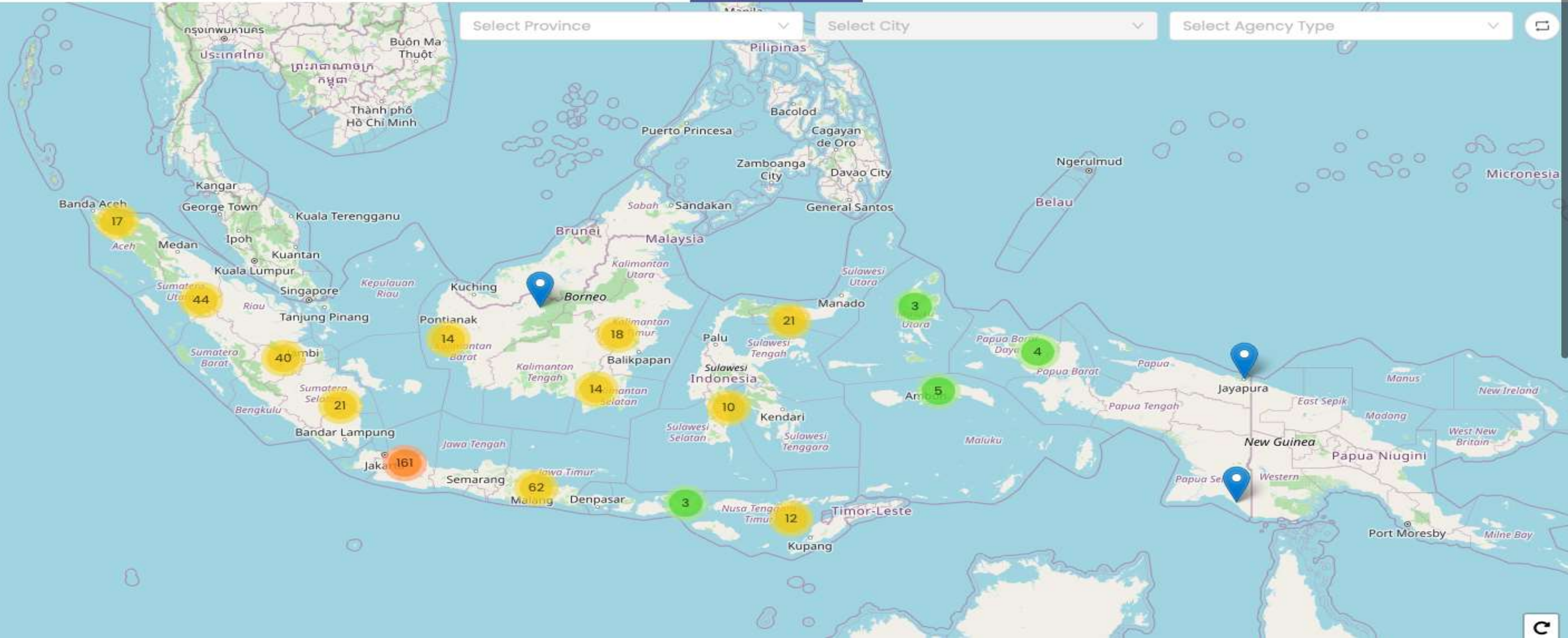




Select Province

Select City

Select Agency Type







**Arsip Nasional Republik Indonesia**  
Treasures from the the 17th and 18th VOC archive

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If you want to see what the initial scans look like, you can take a [sneak preview of the scans](#) of the 1683 Daily Journals.

In the left-hand corner of this scan viewer you will see an overview of the scans in thumbnail pictures, which will enable you to navigate the subsequent folio pages.

In most cases, the file will start with a register providing a chronological summary of the written marginalia. At the right you will see one of the enlarged scans.

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The scans of the Daily Journals of 1683

sejarah-nusantara.anri.go.id

(EN) Archive of the Governor-General and Councillors of the Indies (Asia), the Supreme Government of the Dutch United East India Company and its successors (1612 - 1811)

register 1 Archive File: 2495 1683 January 1 - 1683 December 31

Images Archival Description

**Finding Aid Description**

**Identification**  
ID-ANRI\_K66a\_EN  
Creator ID-ANRI

**Archive Introduction**

**Title**  
(EN) Archive of the Governor-General and Councillors of the Indies (Asia), the Supreme Government of the Dutch United East India Company and its successors (1612 - 1811)

**Reference code**  
K66a

**Date period**  
1612 - 1812

**Extent and medium**  
500 meters, paper, file numbers 1 - 4631.

**Archive file description**

**Archive File**  
2495

**Title**  
1683 January 1 - 1683 December 31

**Scope and content**  
With table of contents 1683 January 1 - 1684 December 27.

**Date period**  
1683-1-1 - 1683-12-31

Indies (Asia), the Supreme Government of the Dutch United East India Company and its successors (1612 - 1811)

Image Viewer

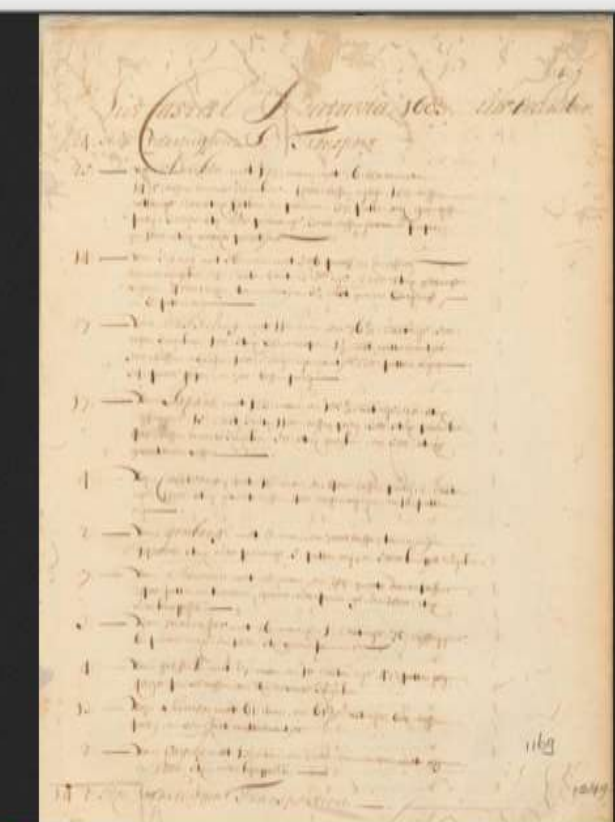
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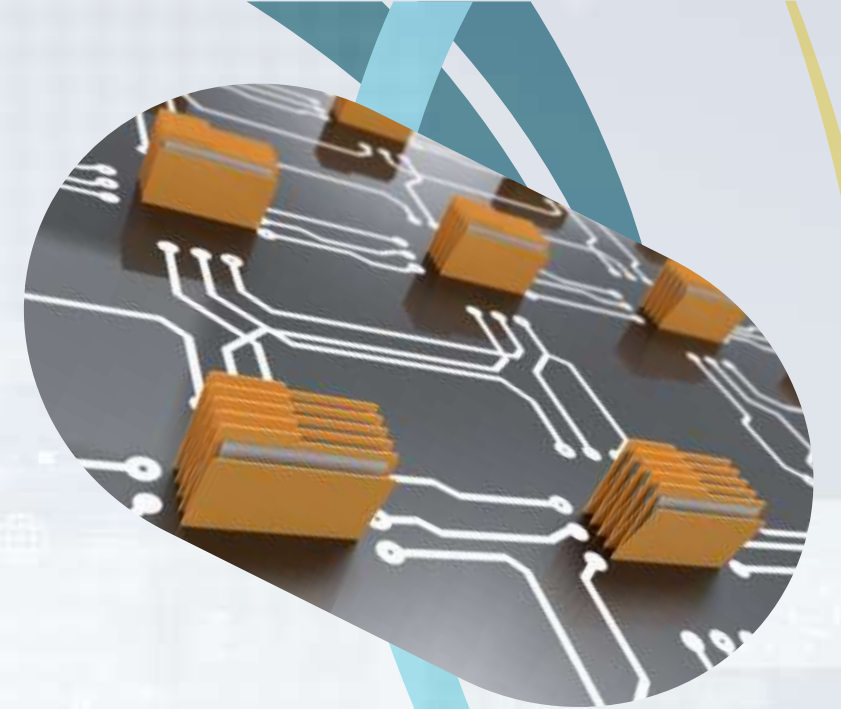


# SEVERAL ISSUES RELATED TO THE IMPLEMENTATION OF ELECTRONIC-BASED GOVERNMENT SYSTEM IN THE FIELD OF RECORDS AND ARCHIVES ADMINISTRATION

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## A. GENERAL

- Collaboration among agencies responsible for implementing Electronic-Based Government System
- The availability of Norms, Standards, Procedures, and Criteria
- The existence of similar application used by central agency and regional governments
- Human resources preparedness





## SEVERAL ISSUES ..

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### B. BUSINESS PROCESSES

- The arrangement of integrated business processes for management of records, archives, and National Archives Information System and Network
- Alignment of procedures and/or practices for managing agency records and archives with business process of records and archives management and the national-established National Archives Information System - National Archives Information Network (SIKNI UKNI)



## SEVERAL ISSUES ..

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### C. DATA OF RECORDS AND ARCHIVES ADMINISTRATION

- The Availability of Policies and Governance for the Implementation of One Data Indonesia
- Provision of reference codes and master data for operating the application of Electronic-Based Government System
- The development of Big Data Archives





## SEVERAL ISSUES ..

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### D. INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

- The development of an integrated Electronic-Based Government System
- Management implementation includes management of risk, information security, management of data, ICT asset, knowledge, change and service which should be implemented in accordance with SNI/ISO standards
- The availability and reliability of the National Data Center and



## SEVERAL ISSUES ..

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### D. INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

- The implementation of interoperability (coordination and collaboration between business processes and electronic systems for the purpose of data, information, or Electronic-Based Government System Service exchange)
- User services for technical assistance related to business processes, data and application are provided in the form of a helpdesk



User experience



## SEVERAL ISSUES ..

### E. SECURITY OF ELECTRONIC-BASED GOVERNMENT SYSTEM

Establishing the security requirements to ensure the authenticity, integrity, and reliability of archives, by:

- Providing Application and Infrastructure Security
- Configuring extensions, quantity, and size of archives uploaded/downloaded by users
- Implementation of certified electronic signatures issued by the government electronic certification facilitator
- Management of records that use electronic signatures after transitioning into archives



# THE LEGAL ASPECT OF DIGITAL RECORDS ADMISSIBILITY

LEGAL ADMISSIBILITY: LEGAL ASPECT

**CONFIDENTIALITY:  
ASYMMETRIC ENCRYPTION  
& METADATA**

**INTEGRITY: VERIFICATION  
& VALIDATION**



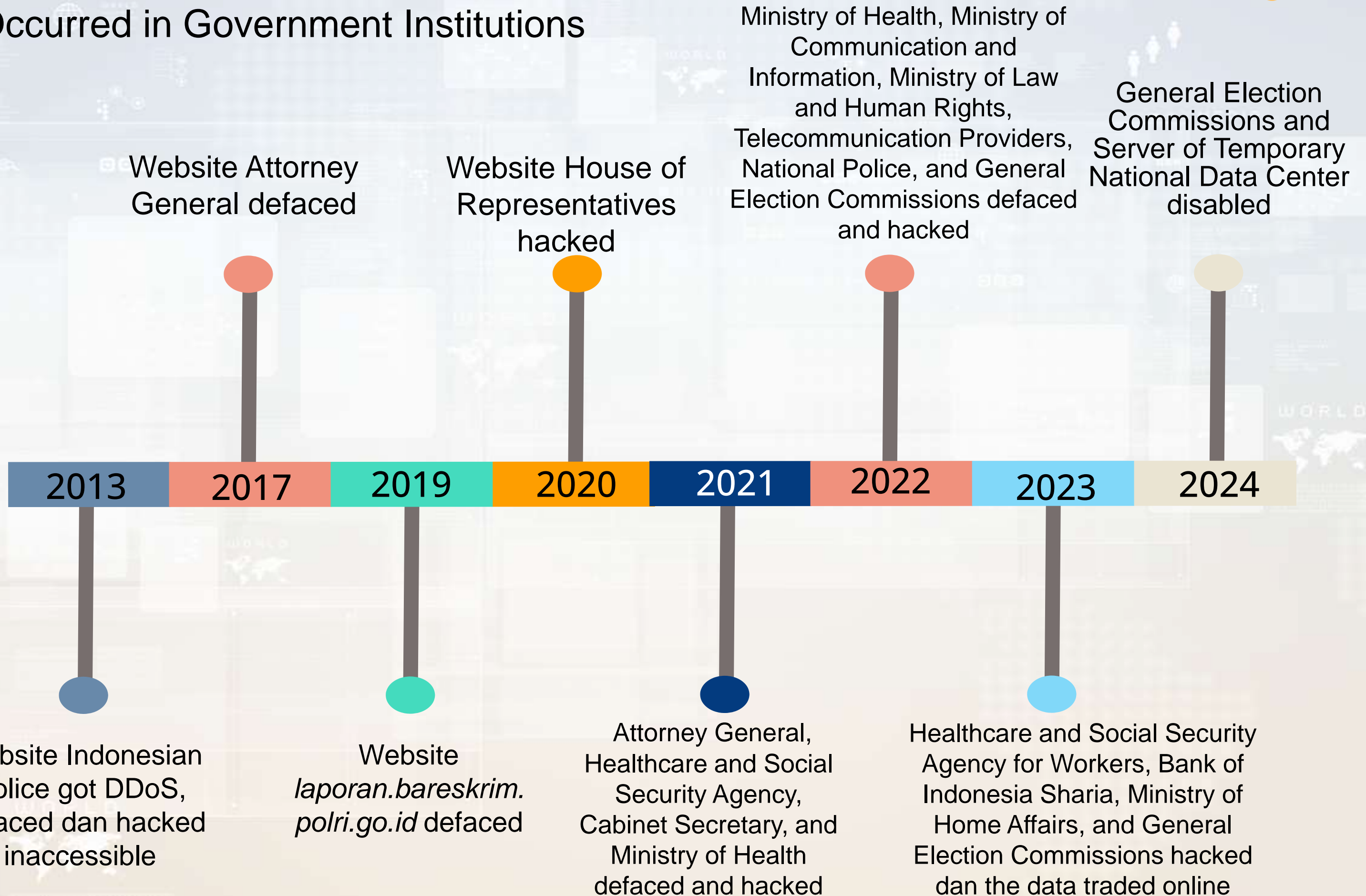
**AUTHENTICITY:  
METADATA, HASH  
VALUE, DIGITAL  
SIGNATURE & CHAIN  
OF CUSTODY**

**INFORMATION  
AVAILABILITY:  
BACK UP DATA &  
VALIDATION**



# Case Example: Indonesia (Too) Often Being Hacked (Security System)

## Some Hacking Cases Occurred in Government Institutions



### Model of Cyber Crime di Indonesia :

- Data Forgery
- Cyber Terrorism
- Deface
- Cracking
- Skimming

Source :  
PT. Narasi  
Media  
Percaya

# Case Example

- The use of CCTV footage in the trial of murder case in 2016. The judge sentenced the murderer to 20 years in prison
- The National Police Officer in 2022 has been legally and convincingly proven guilty of committing the crime of participating in premeditated murder and without the right to take action that results in the electronic system not working as it should, which is done jointly
- In 2024 Corruption and money laundering case of Former Minister of Agriculture, evidences: 7 email accounts, 4 flash drives, 1 SSD containing electronic documents





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谢谢 dakujem vám

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yabongga

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merci

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धन्यवाद mo

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obrigado

takk

you

gràcies

tänan

dank u

əkkür edirə

mahalo

teşekkür ederim

شكرا

tack så mycket