## Practical Applications of Al in Auditing: BPK's Experiences

LOTA Talks Webinar November 25, 2025





## The Journey

1<sup>st</sup> Phase

Discriminative Al

2020-2024

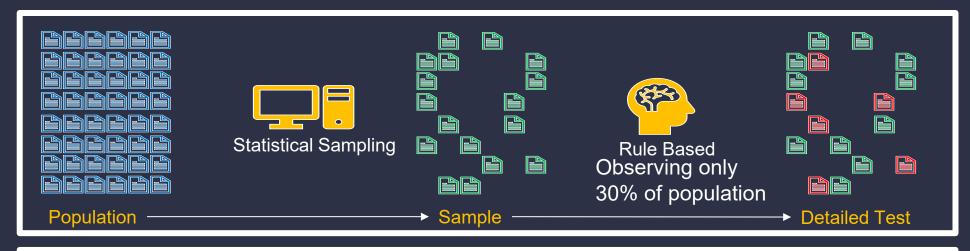


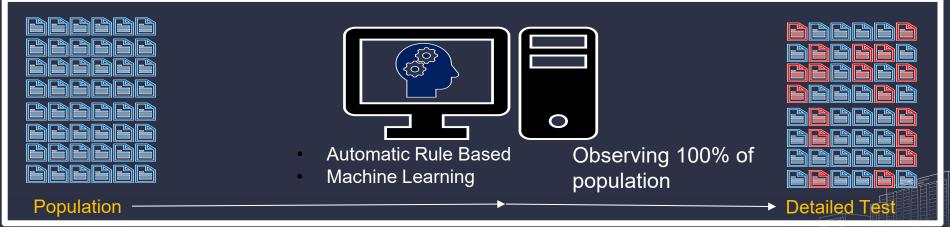
2<sup>nd</sup> Phase

Generative Al

2025-2029

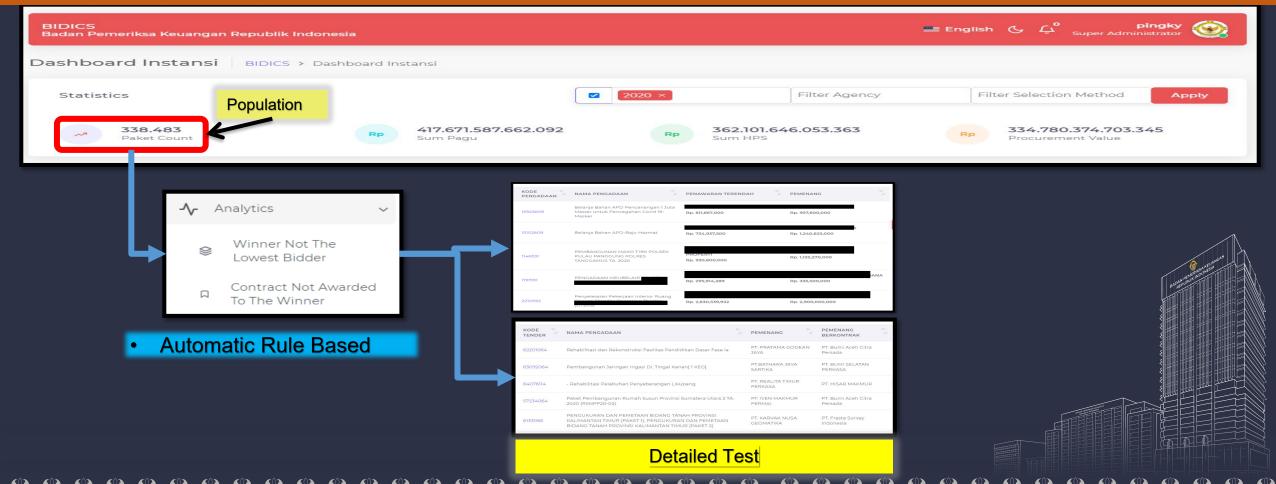
## Conceptual F/W AI Use Case [1st]





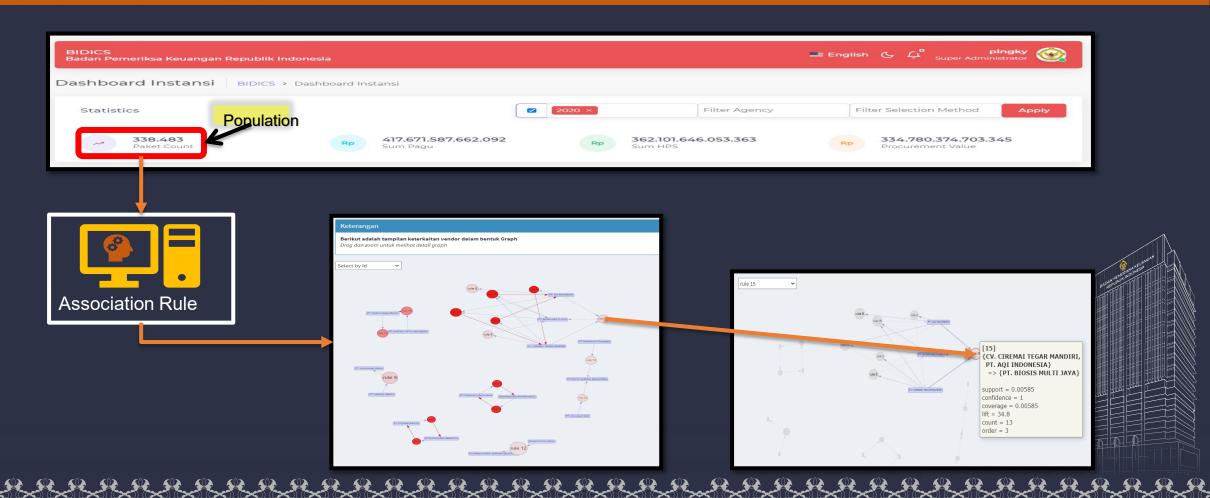


Identifying the irregularities in government procurement

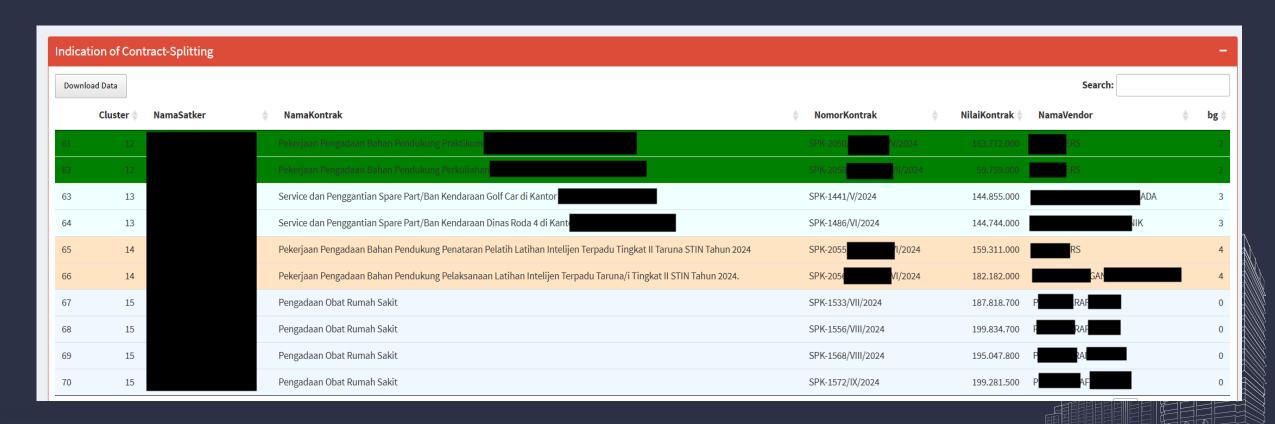




Identifying the probability of Bid-Rigging

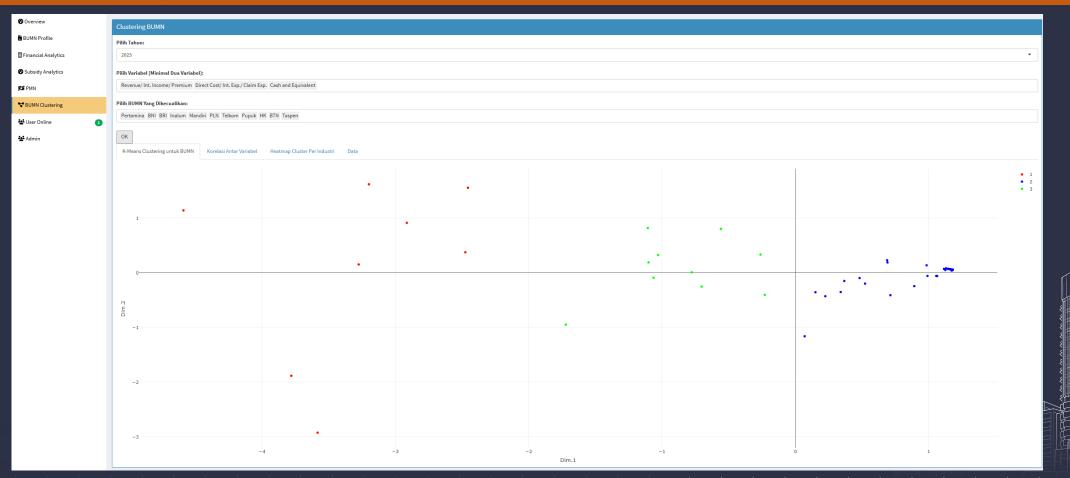


Identifying the contract splitting to avoid bidding process





#### Clustering the SOEs based on particular features



## **Generative Al Use Case [2nd]**

Encompassing different types of AI across stages of performance audits:

- machine learning,
- natural language processing,
- Al agent,
- Large Language Model.



Al models / algorithms / techniques that are already deployed and in use

#### **NLP**

Text similarity

#### LLM

Information extraction (PDF)
Speech-to-Text
Summarization

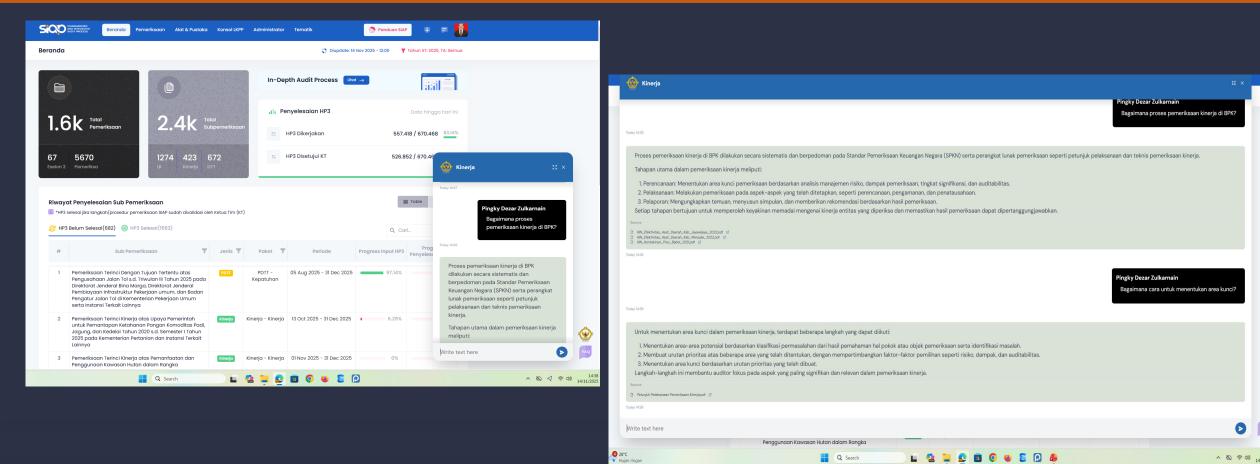
#### **AGENT**

Performance audit knowledge agent



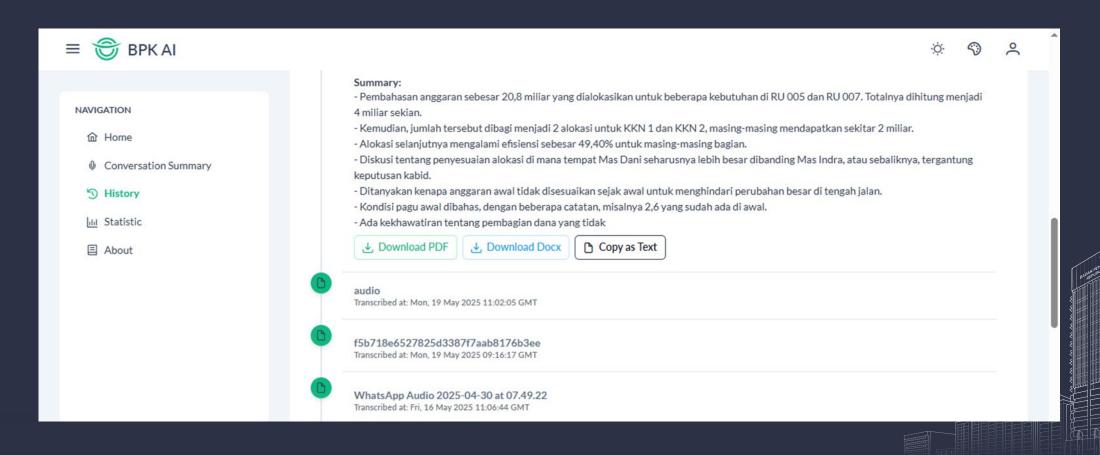
## **Generative AI Use Case [2nd]**

#### Chatbot with Performance Audit Knowledge [RAG]



## **Generative Al Use Case [2nd]**

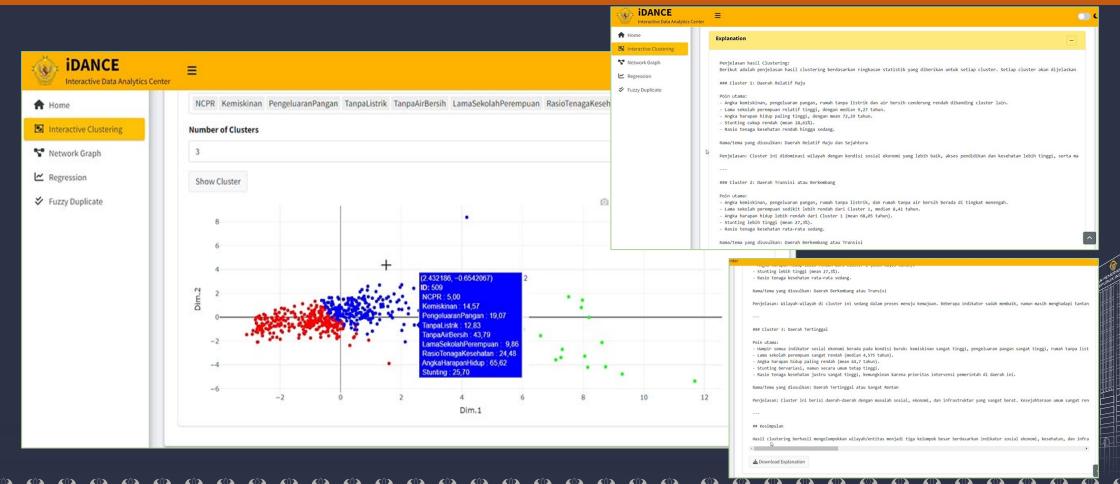
Speech-to-Text + LLM [Multimodal LLM]





## **Generative AI Use Case [2nd]**

Analytics Democratization [A Simple use of LLM]



## **Auditing AI System**

#### Auditing Around the Al

It is not necessary to scrutinize the Algorithm

Dataset [Training and Test]

Evaluation

Selecting the Algorithm

Monitoring and Evaluation the AI Performance

# Thank You

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