

# MAPPING MEMORY DECONSTRUCTING COLONIAL LEGACY

*Urban Morphology and Path Dependency in Jakarta's Flood Crisis*

Hack4ResilientJakarta

2025

by Planet Lakuna Kota Team

# JAKARTA'S FLOODING ISSUES

Lies on historical legacy that embedded in spatial crisis.

Misaligned urban form and water in previous urban planning or decision-making by decades.

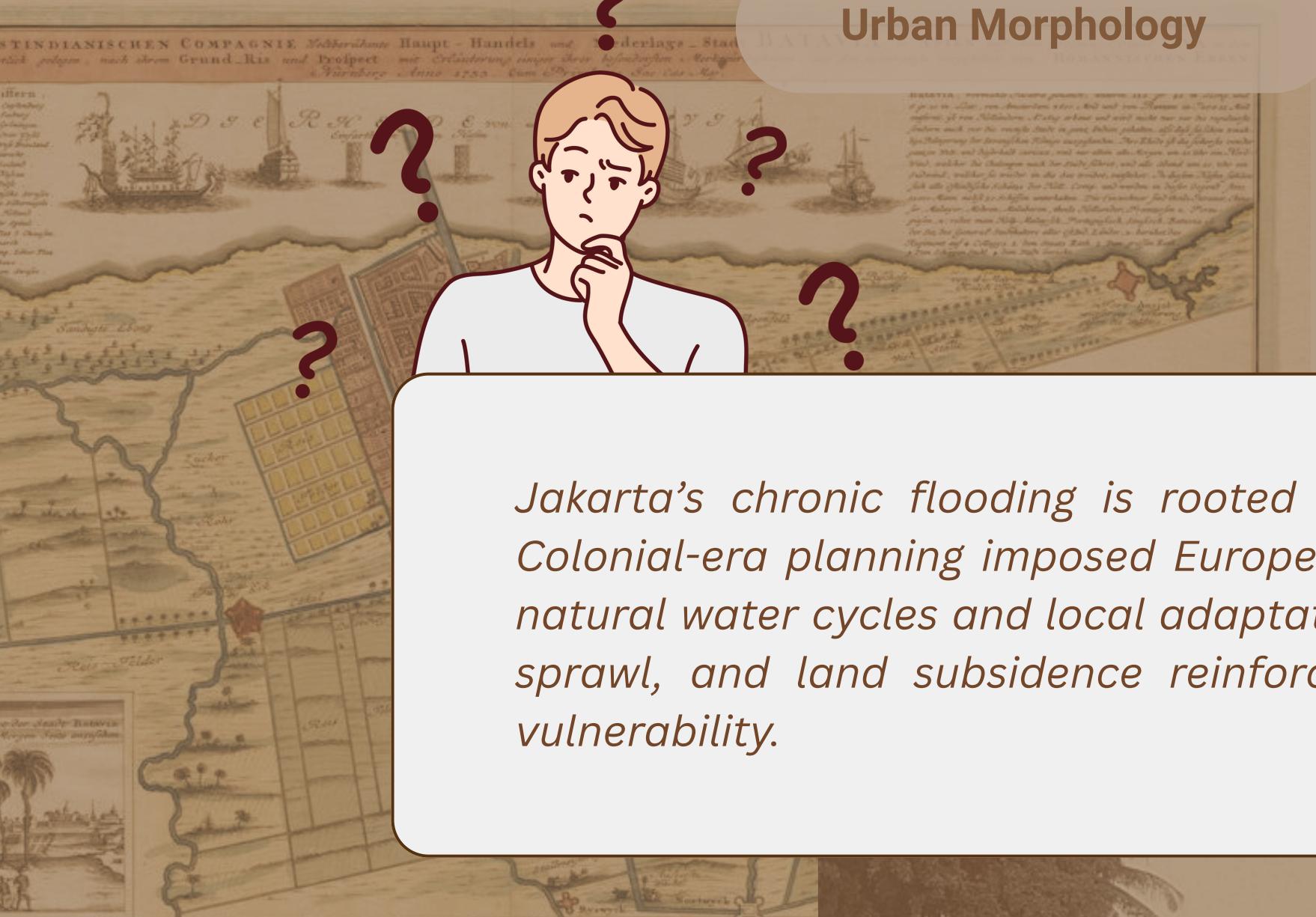


## Peta Rencana Van Breen dengan Tiga Trace

### Penanggulangan Banjir

### Flood Policy

### Urban Morphology



Jakarta's chronic flooding is rooted in a historically entrenched spatial misalignment. Colonial-era planning imposed European engineering logics on a tropical delta, disrupting natural water cycles and local adaptation practices. Subsequent urbanization, unregulated sprawl, and land subsidence reinforced this path dependency, perpetuating the city's vulnerability.

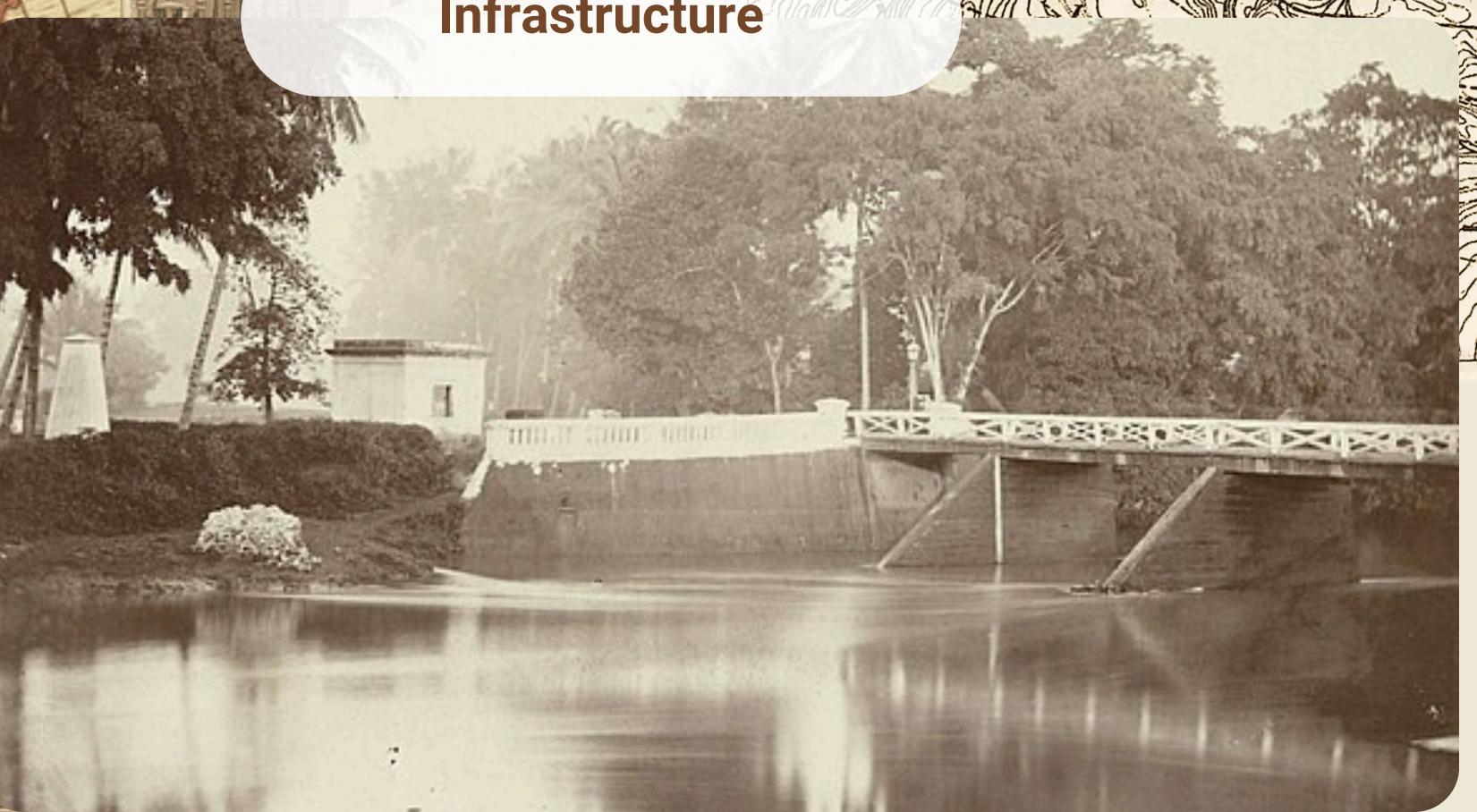
**Thus, this research aims to breakdown the colonial thinking by looking at urban morphology, policy, infrastructure, local wisdom values through historical context of Jakarta's flood crisis.**

### Local Wisdom Values

Since there are so many separate maps and texts, we want to recollect in order to compile and then analyze the historical context of Jakarta's flood crisis.



# Urban Morphology

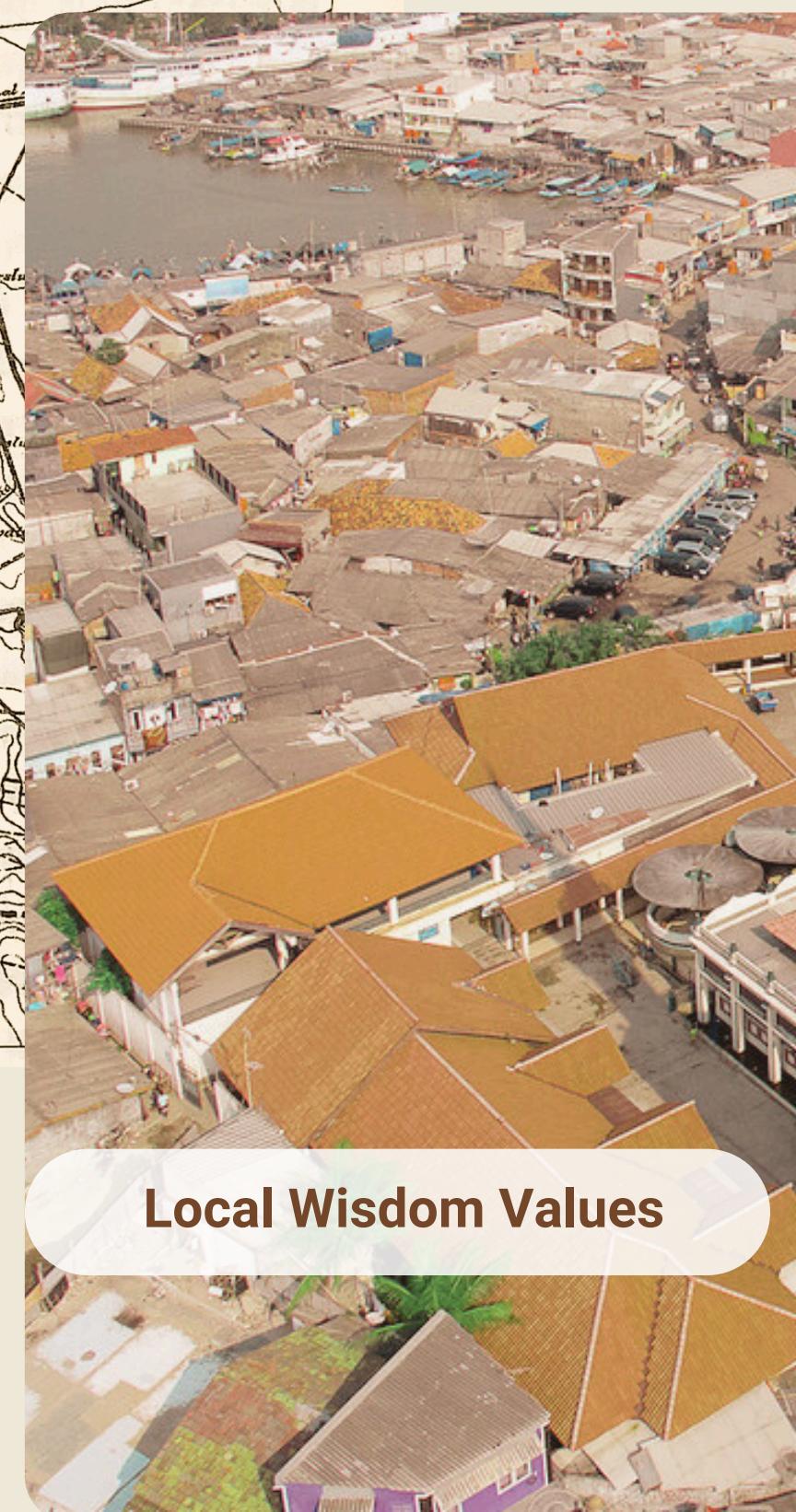


# Infrastructure



# Peta Rencana Van Breen dengan Tiga Trace Penanggulangan Banjir

# Flood Policy<sup>B</sup>



# Local Wisdom Values

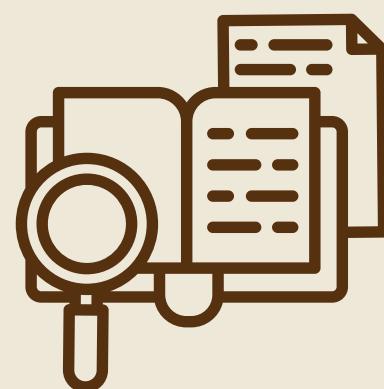
# **Our Approach**

Our dashboard adopts a decolonized thinking approach regarding urban flood issue by integrating historical insights, local knowledge, data collection, enabling participatory decision-making and challenging entrenched top-down planning paradigms



## **Methods**

**Literature Review** → **Expert Interview**



# Our Initial Findings

- Current decisions on **flood control infrastructure** are largely still adapted from Dutch-era masterplans formulated between 1919–1949, highlighting the need for more comprehensive considerations in shaping future flood management strategies.
- Planning **flood management systems** requires careful attention to local context, including both spatial characteristics and temporal dynamics.
- Historical flood management strategies often had underlying **political objectives** that warrant deeper examination, as they were sometimes oriented toward colonial power interests
- Regulations established in the past, when **poorly conceived**, have **often persisted** and evolved into entrenched maladaptive practices.
- Most solutions implemented **in the past relied on grey infrastructure**, which has proven insufficiently effective to date. Future strategies could benefit from a combination of green and grey infrastructure, adapted to the specific local flood context
- **Local communities** possess valuable knowledge and play a critical role in addressing flood issues at the micro level, making collaborative approaches essential in strategy development.
- It is important to **integrate local wisdom and community values** into flood management solutions.
- Integrating urban planning with local knowledge through participatory mapping enables adaptive, inclusive, and historically informed urban flood resilience.

# Our Dashboard

Based on the literature review and interviews, we can conclude that Jakarta's flood crisis history can be told by using these order to reach the initial findings.



## Time Series

Historical storyline about Jakarta from Kingdom Era until recently

01



## Local Wisdom Values

Missing local wisdom value from daily life

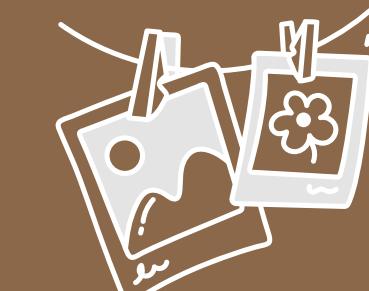
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## Map Exploring

with Dashboard\*

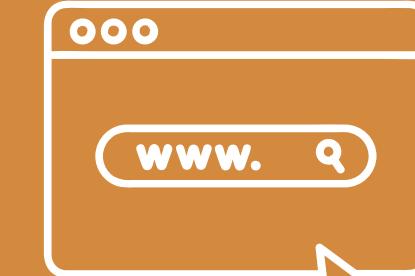
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## Mapping Memory

Recalling untold stories or experiences related to Jakarta's flood from public

04



## \*Tools

*\*This dashboard is a prototype and still need further development*

\*

# Our Dashboard

[Click here to Discover Jakarta's Flood Stories](#)

Our dashboard was created to incorporate different maps, relink events in texts by pinpointing, and visualize historical texts. And this online dashboard will be needing further development in the future.

## The Role



Visualizing  
decolonial thinking



Collaborative space  
for data collection

## The User

Citizen

↓  
*escalating local  
knowledge*

Urban  
Planner

↓  
*triggers  
collaboration*

Goverment

↓  
*triggers stakeholder's  
perspectives*

Toward Inclusive Flood Control Masterplan

# Future Development



1

Enhancement of the **timeline analysis completeness** within the Journey Timeline section.

2

**Integration** of the dashboard with the official Jakarta website.

3

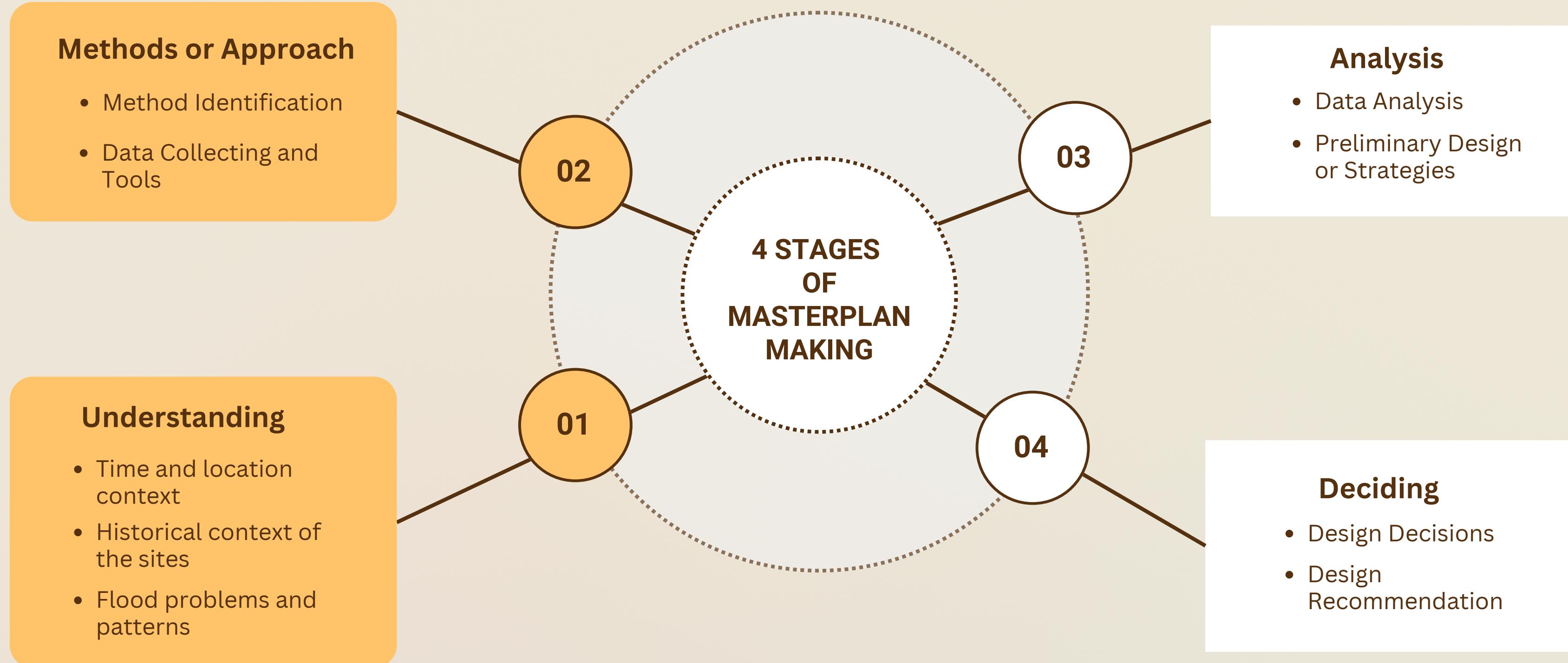
Addition of **urban morphology** data, **local wisdom** mapping, and inclusion of **photographic archives**.

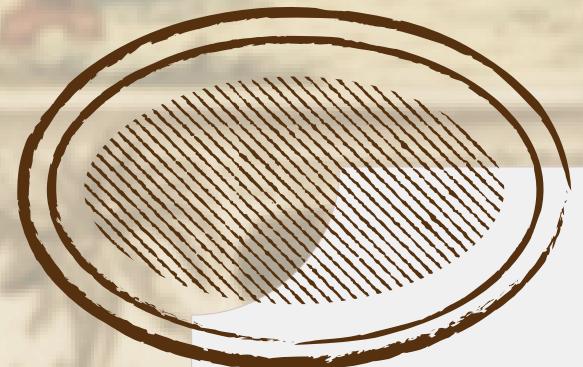
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Development of a **validation feature** for historical sources and also for participatory mapping inputs.

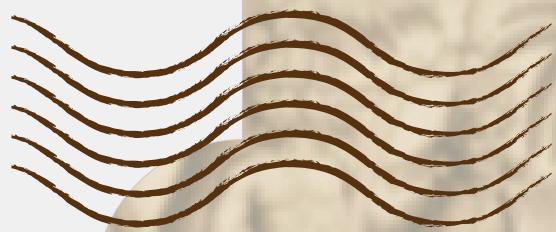
# Our Framework

This framework is designed to outline the recommended stages for formulating future flood management strategies.  
***“From Flood Control Master Plan towards Flood Resilient Master Plan”***





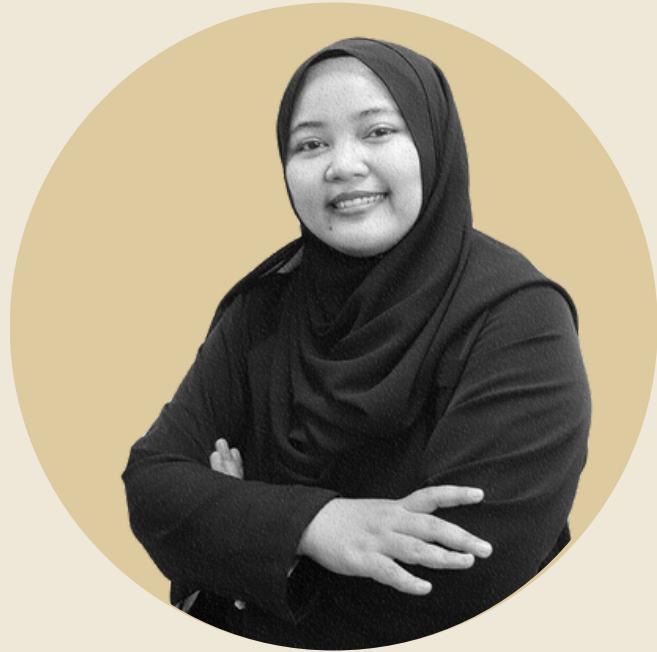
*'The Way Home' is not about returning to the past,  
but about finding new ways to live in harmony  
with water in the future*



# Our Team



**Elis A. Geminastiti**  
*Web Developer*



**Imas N. Priandani**  
*Urban History Researcher*

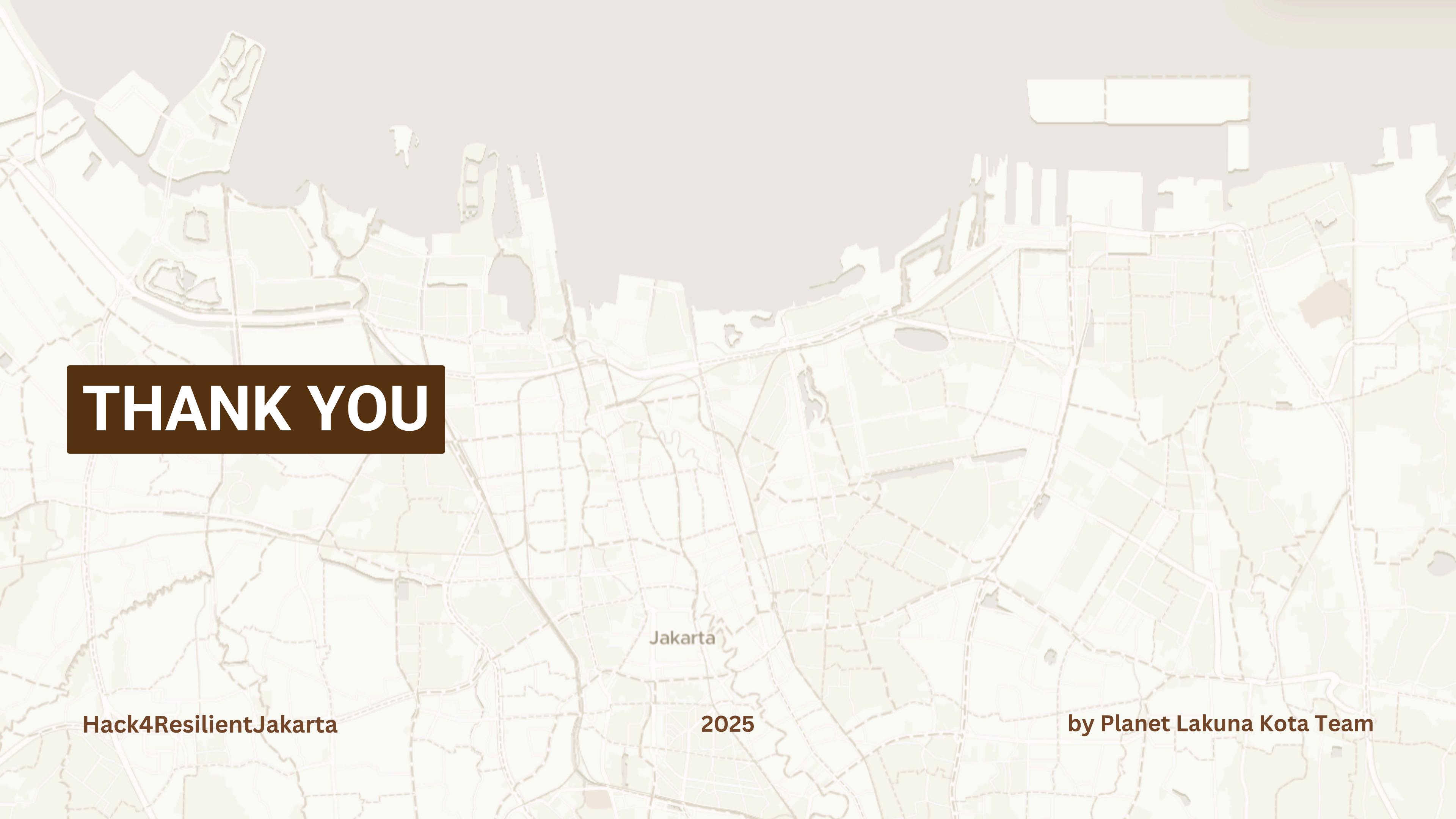


**Lyna Z. Mumtaz**  
*Data & Visualization*



**Wardatut Toyyibah**  
*Urban History Researcher*

***Planet Lakuna Kota Team***



# THANK YOU

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