



Scope of Service

Geo-Fondasi Multi Konsultan (GFM Konsultan)

Phase: Initiation

Professional Engineer
Consultancy Service





About us

GFM is a consultancy firm specialising in geo-environmental, building energy, green building, risk management, and architectural design, which is made up of several different fields to achieve a single goal, as the meaning of the Latin phrase *Differentia et Singularis*, which means the difference and uniqueness of the products and services offered.

Professional Engineer

Consultancy Service





Vision

GFM

Mission

Become an Engineering Consultant Where Uniqueness Meets Ingenuity: Crafting Tailored Solutions for a World of Infinite Possibilities

To harness the power of Tailored Ingenuity and Diversity-Driven Innovation to design engineering solutions that are as unique as the challenges we solve.

Through **Client-Centric Collaboration**, we partner with our clients to co-create transformative outcomes that reflect their vision and goals.

We are committed to **Sustainability Through Uniqueness**, ensuring our solutions respect and enhance the environment and communities they serve.

By striving for a **Legacy of Singular Excellence**, we aim to set new benchmarks in engineering consultancy, leaving a lasting impact through creativity, integrity, and unparalleled expertise

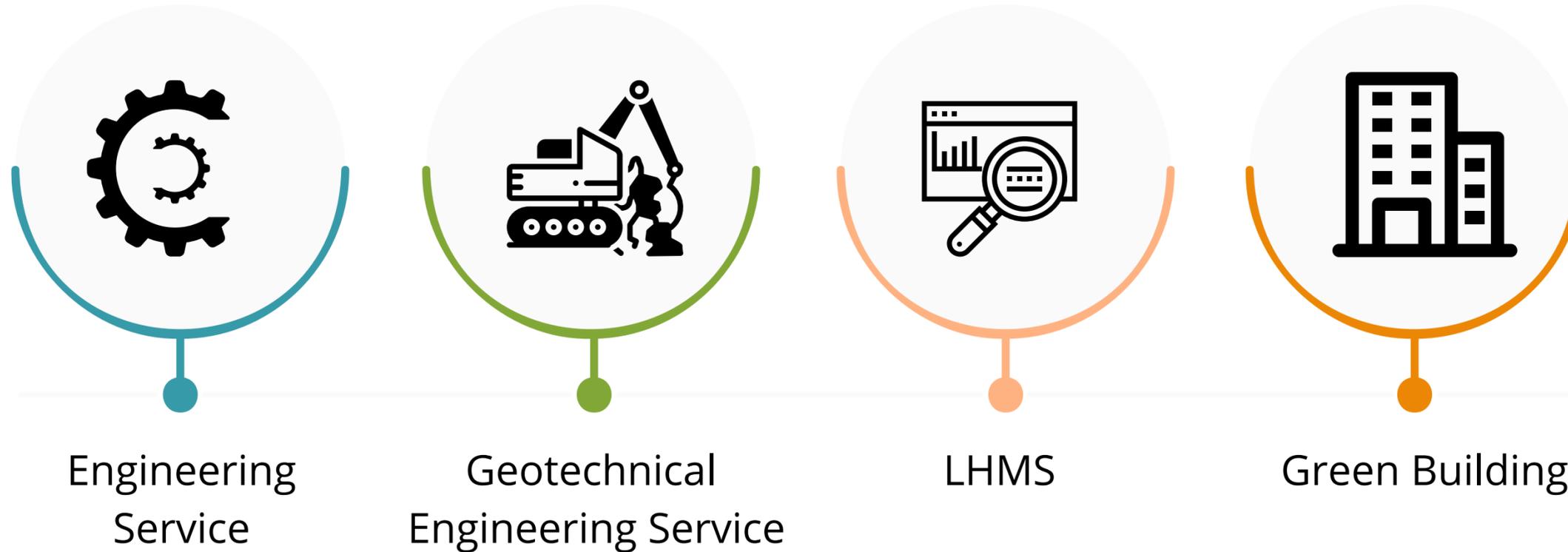
Professional Engineer

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Our Service

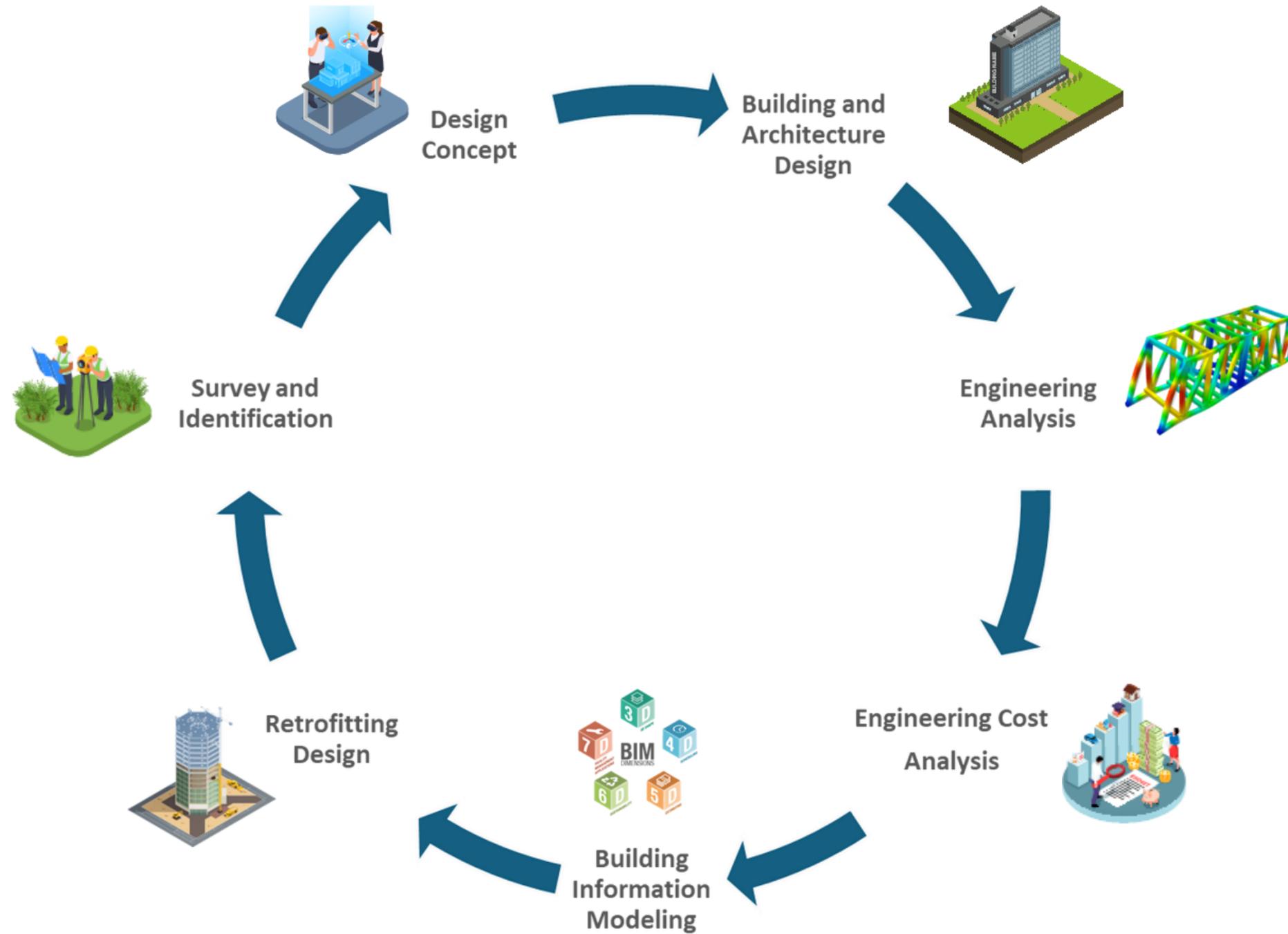


Professional Engineer
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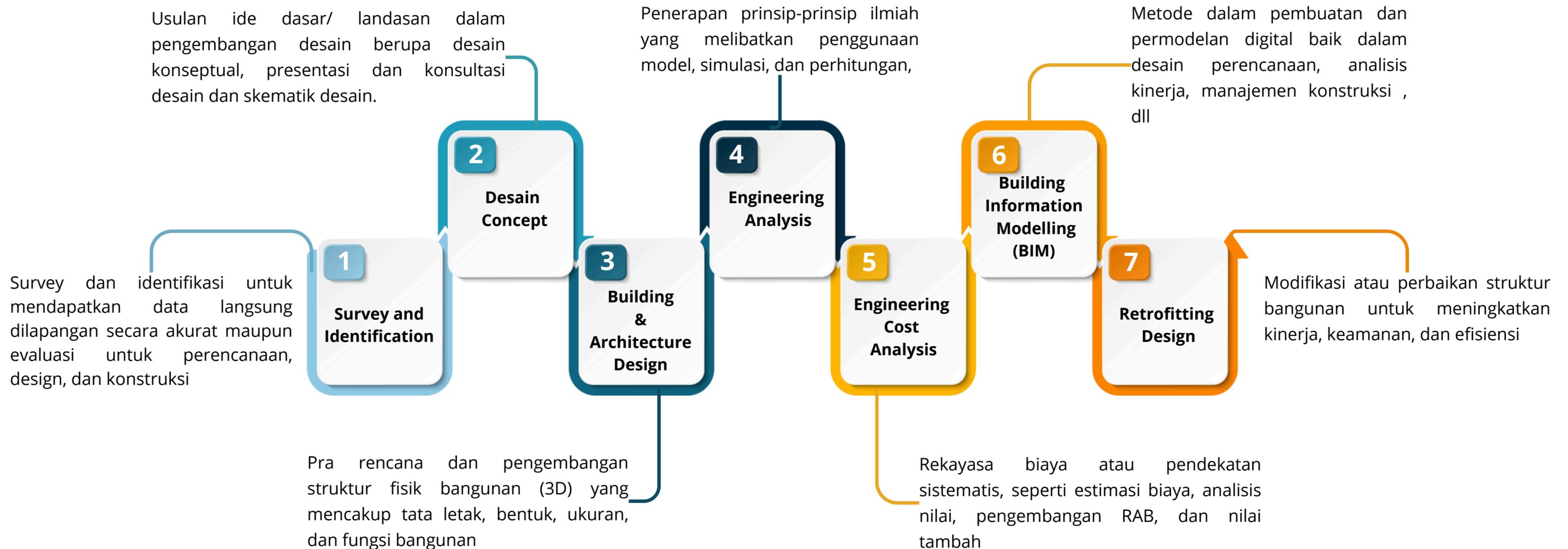
Engineering Service



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Engineering Service - Content



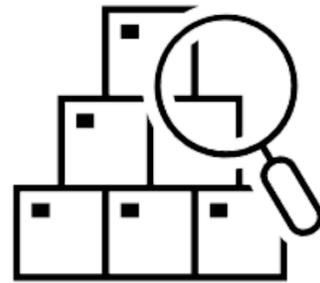
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Geotechnical Engineering Service



Geotechnical Investigation:

- In situ
- Laboratorium Test
- Deformation Observation
- Geophysical Testing



Geotechnical Engineering:

- Foundation design
- Design of earth retaining structures
- Slope stability
- Ground improvement design



Geo Hazard Assessment:

- Geological hazard check
- Creation of geological hazard maps
- Geological hazard mitigation suggestions

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Landslide Hazard and Monitoring System (LHMS)

Geo-Insight of GFM Consult

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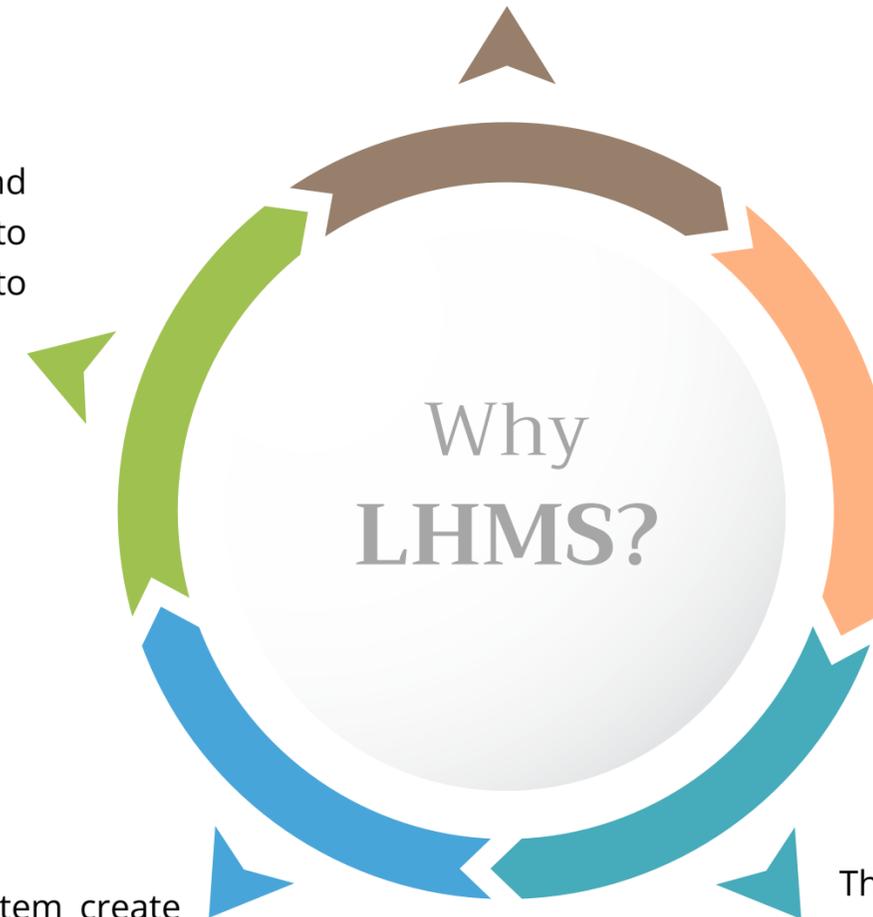
Landslide Hazard and Monitoring System helps client or Asset Owner to maintain, inspect, and mitigate the Slope Asset. The LHMS can arrange those schedule activity.

Landslide is unpredictable and sudden disaster. The LHMS is used to create the Slope Risk Rating and to arrange the Priority Slope.

Landslide Hazard and Monitoring System helps client and Asset Owner to calculate cost estimation of Maintenance, Inspection and Remedial.

Landslide Hazard and Monitoring System create comprehensive Slope Inventory which consist of Slope Geometry, Geological Feature, Slope Construction, and also Slope Disaster Record

The Landslide Hazard and Monitoring System is not just a Program. The LHMS also helps client and Asset Owner to Build Command Center of Slope Management.





Lanslide Hazard and Monitoring System (LHMS)



Slope Asset Inventory

Conducting slope inspection and listed to Inventory List.



Slope Asset Database

Compiling slope inventory to Digital GIS Database



Slope Risk Ranking

Scoring the Slope Hazard and creating the priority list



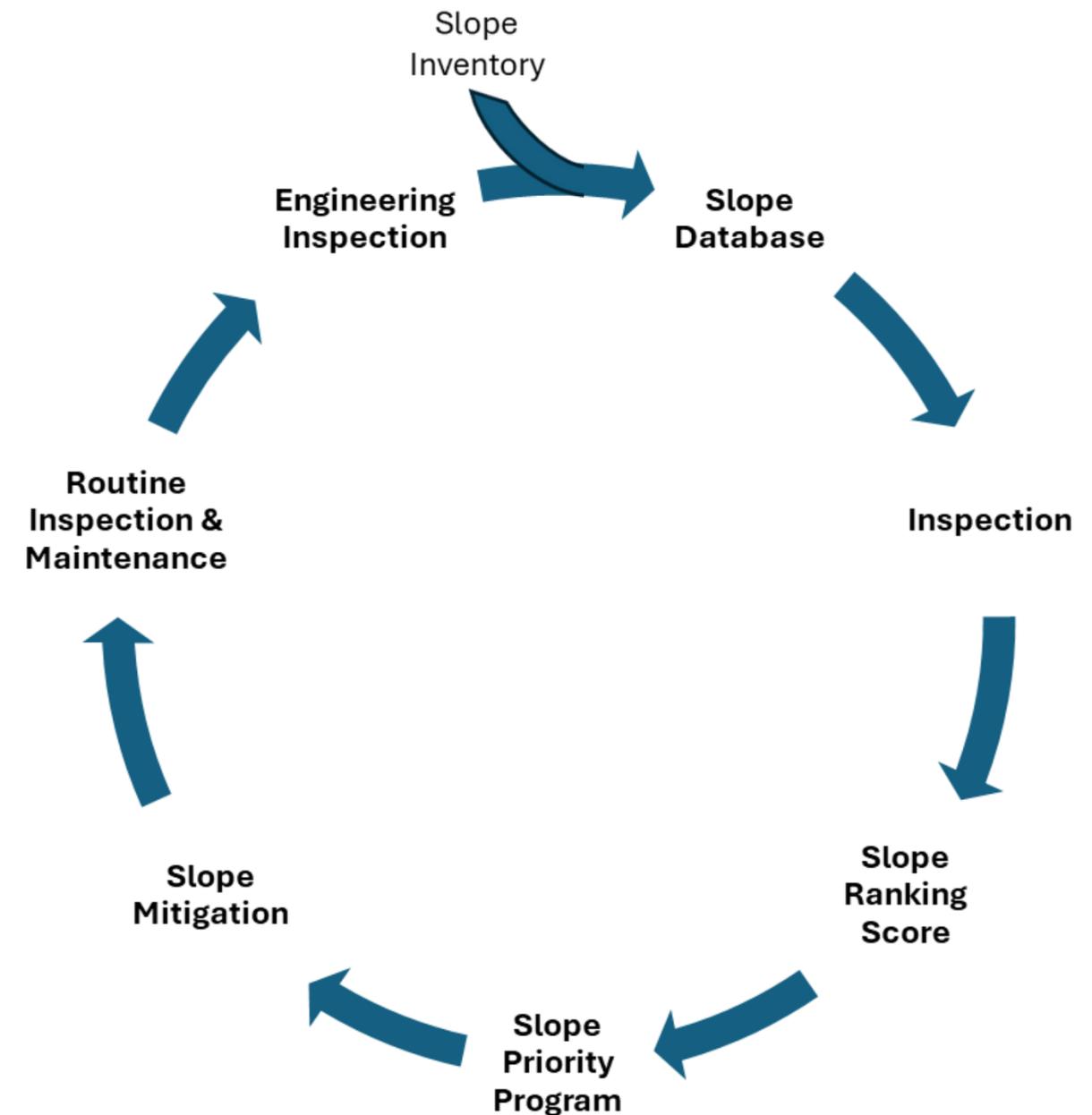
Slope Mitigation Strategy

Creating slope mitigation action based on Priority List



Slope Inspection

Creating slope inspection program based on Slope Hazard Ranking



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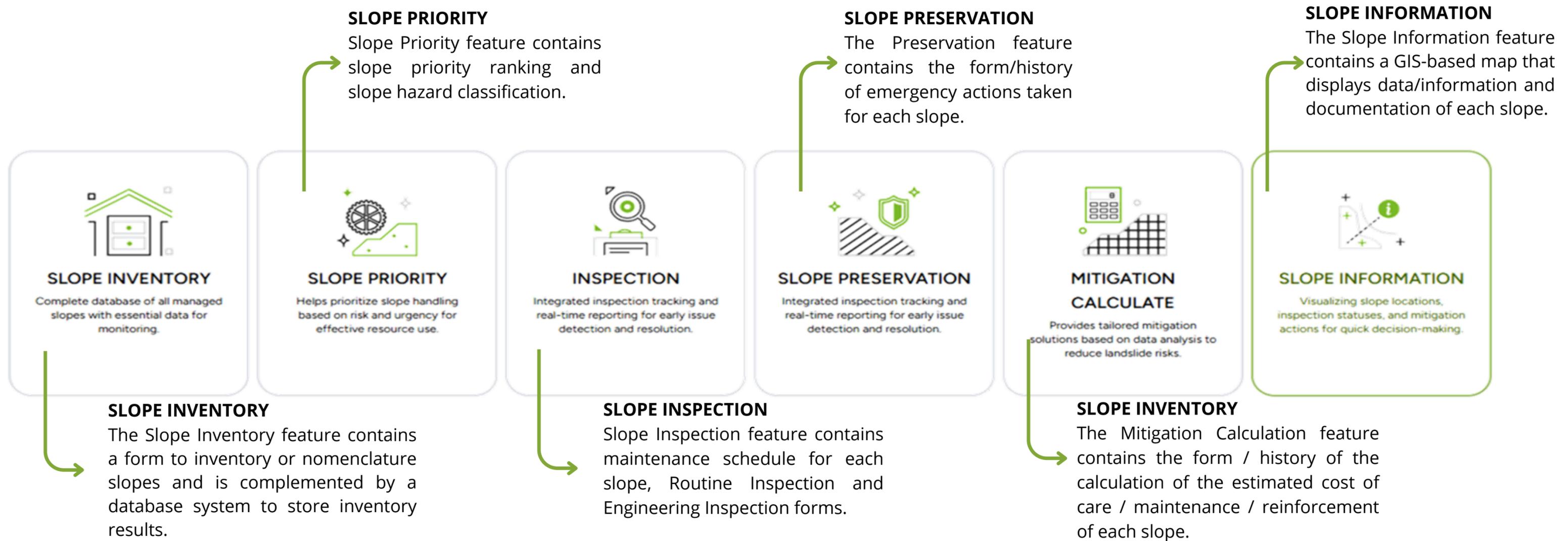




Landslide Hazard and Monitoring System - Features

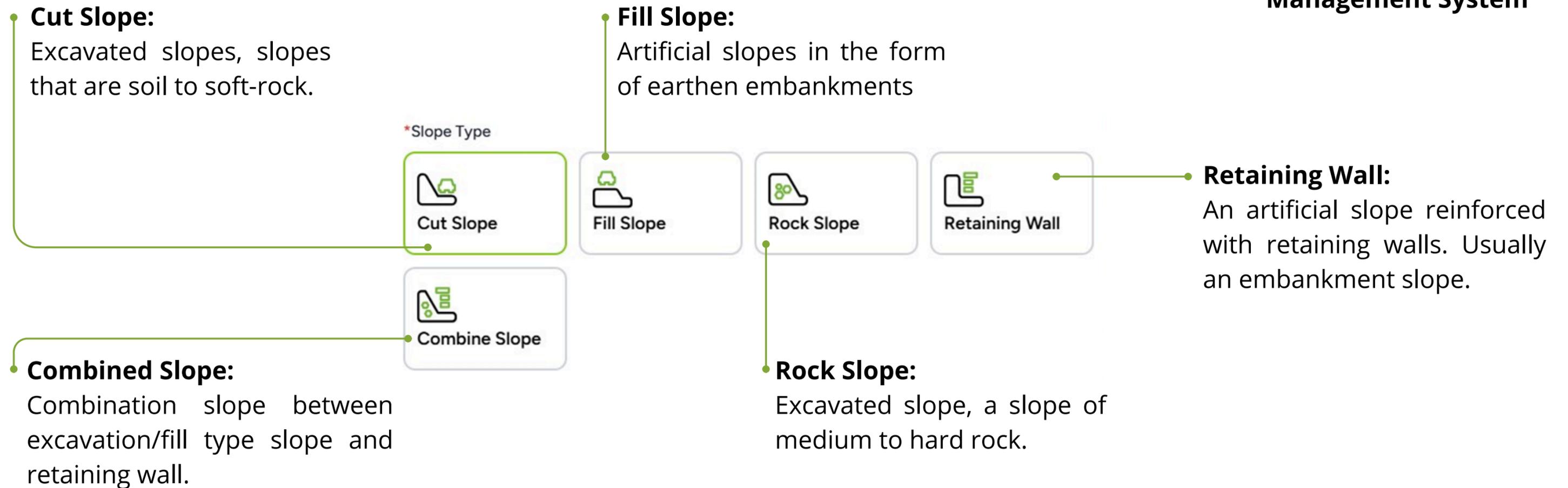


Landslide Hazard and Monitoring System - Features



Lanslide Hazard and Monitoring System (LHMS)

Database and Slope Types in Slope Management System





Landslide Hazard and Monitoring System (LHMS)



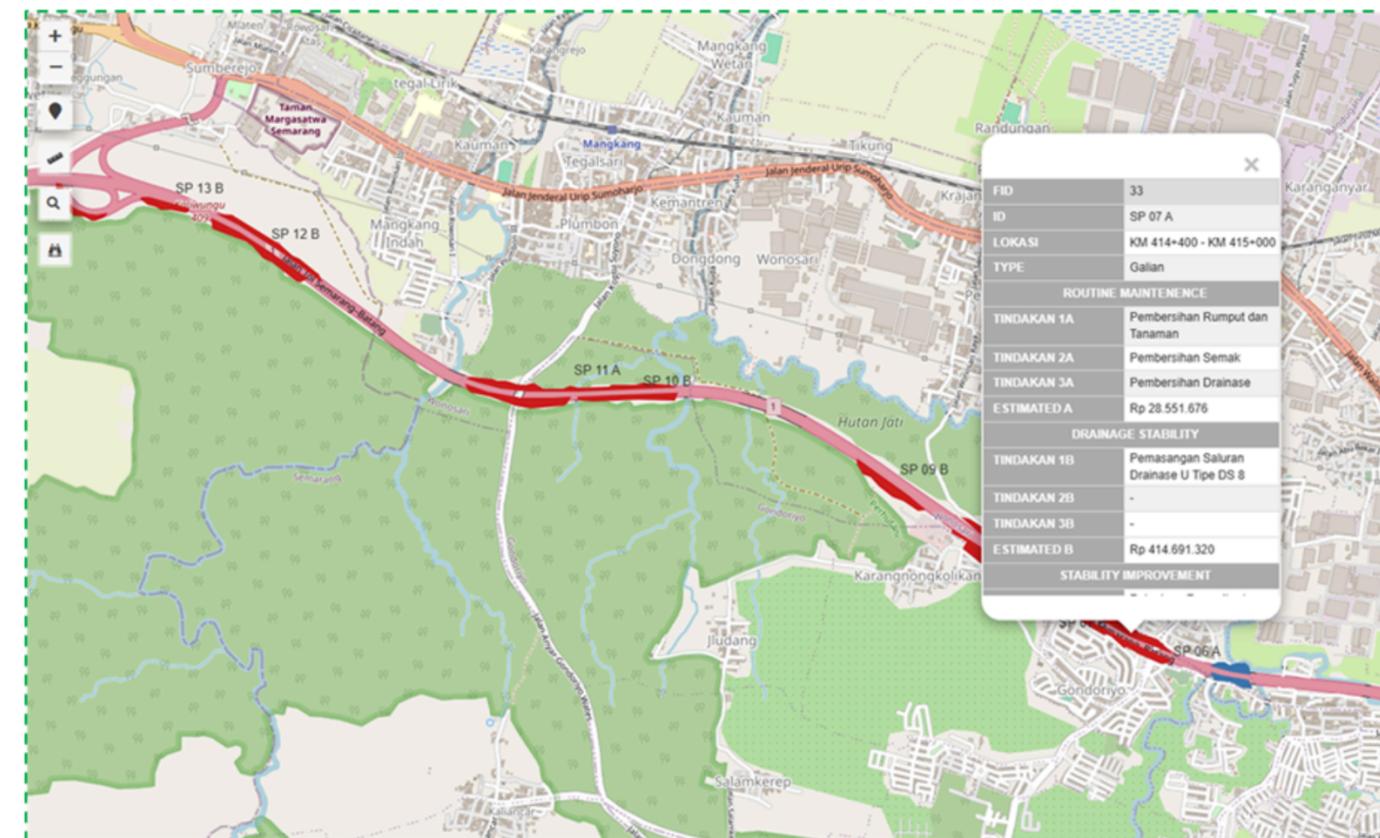
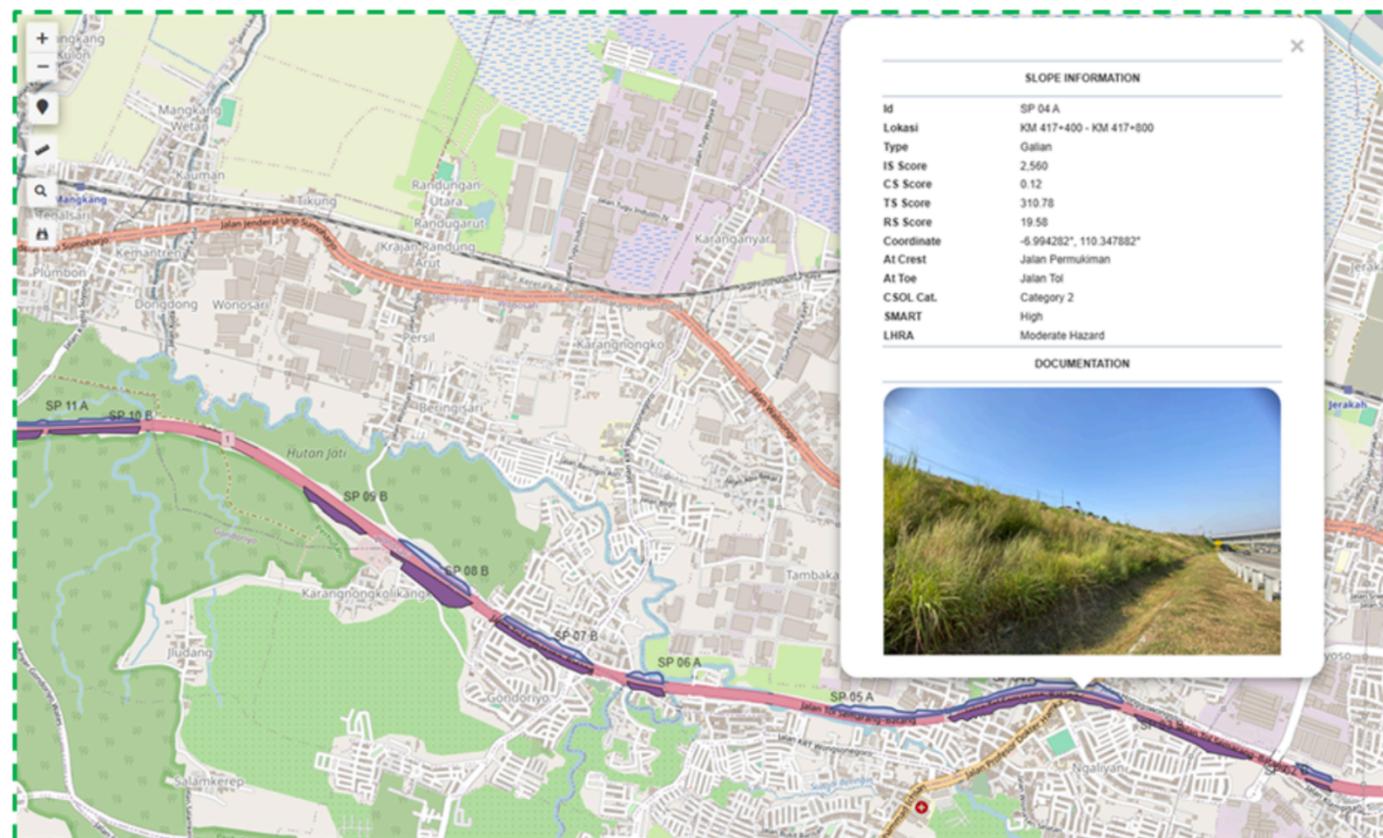
SLOPE INFORMATION MAP

Visualizing slope locations, inspection statuses, and mitigation actions for quick decision-making.



SLOPE MITIGATION MAP

Visualizing slope mitigation, preservation action, and Cost Estimation.



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GREEN BUILDING- BIM CLINIC



Limited Human Resources and Cross Discipline in Asset Management



Conventional Asset Management tends to cause missing links and loss of Data



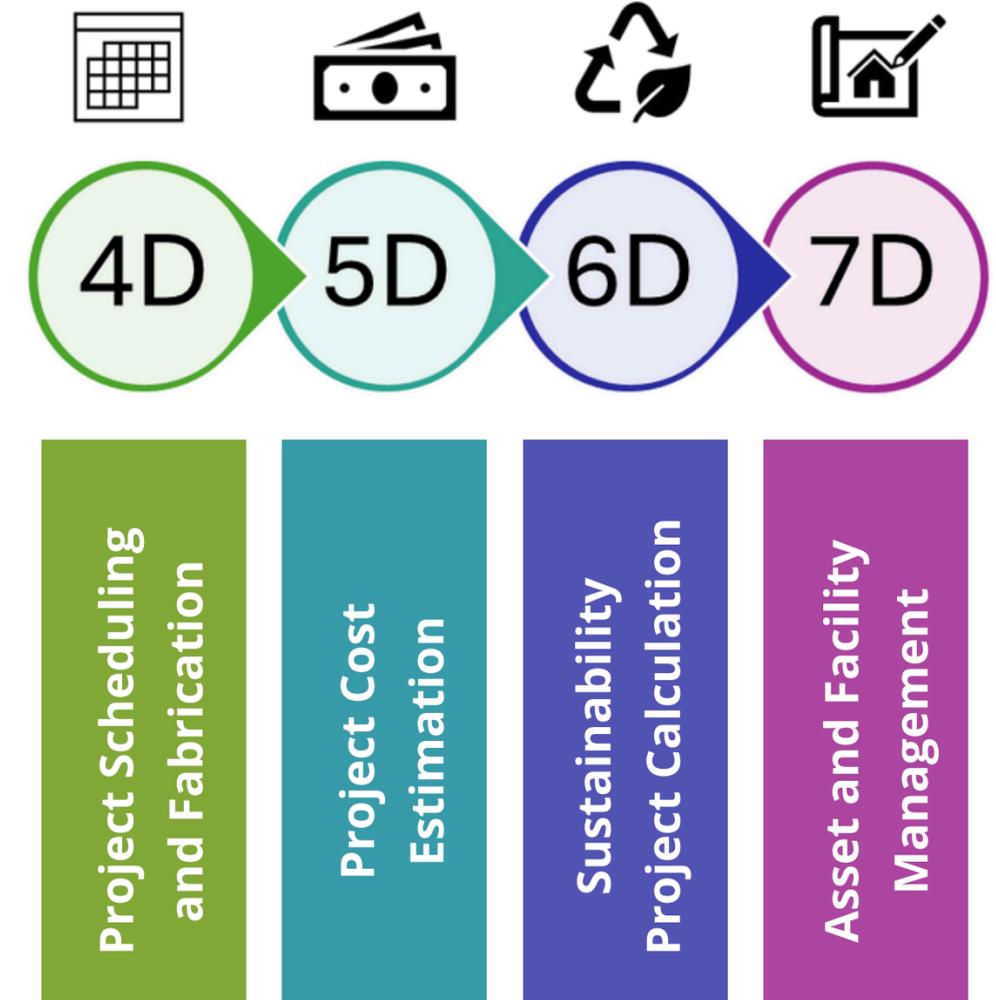
Paper-Based Database Limitation: Damaged Easily, Scattered, Decay.



Due to undocumented Initial and Routine Maintenance Databases, Conventional Asset Management tends to cause miscoordination.



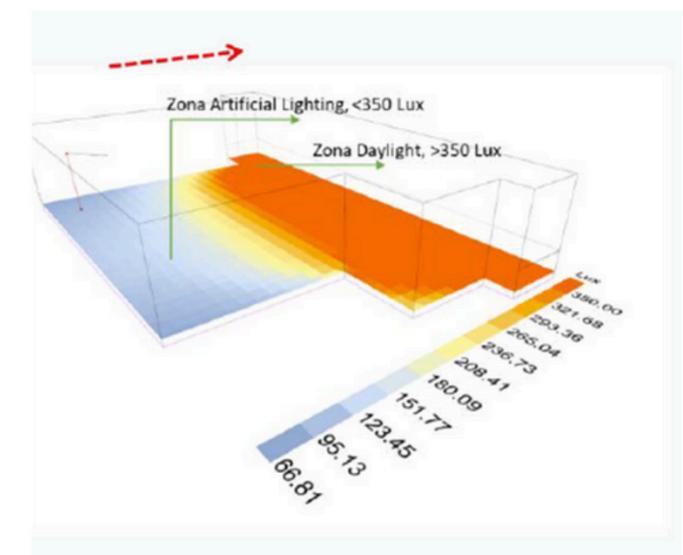
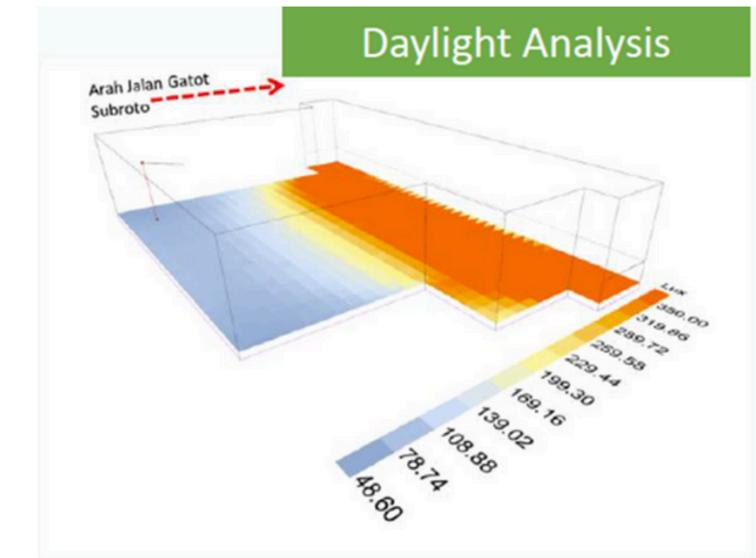
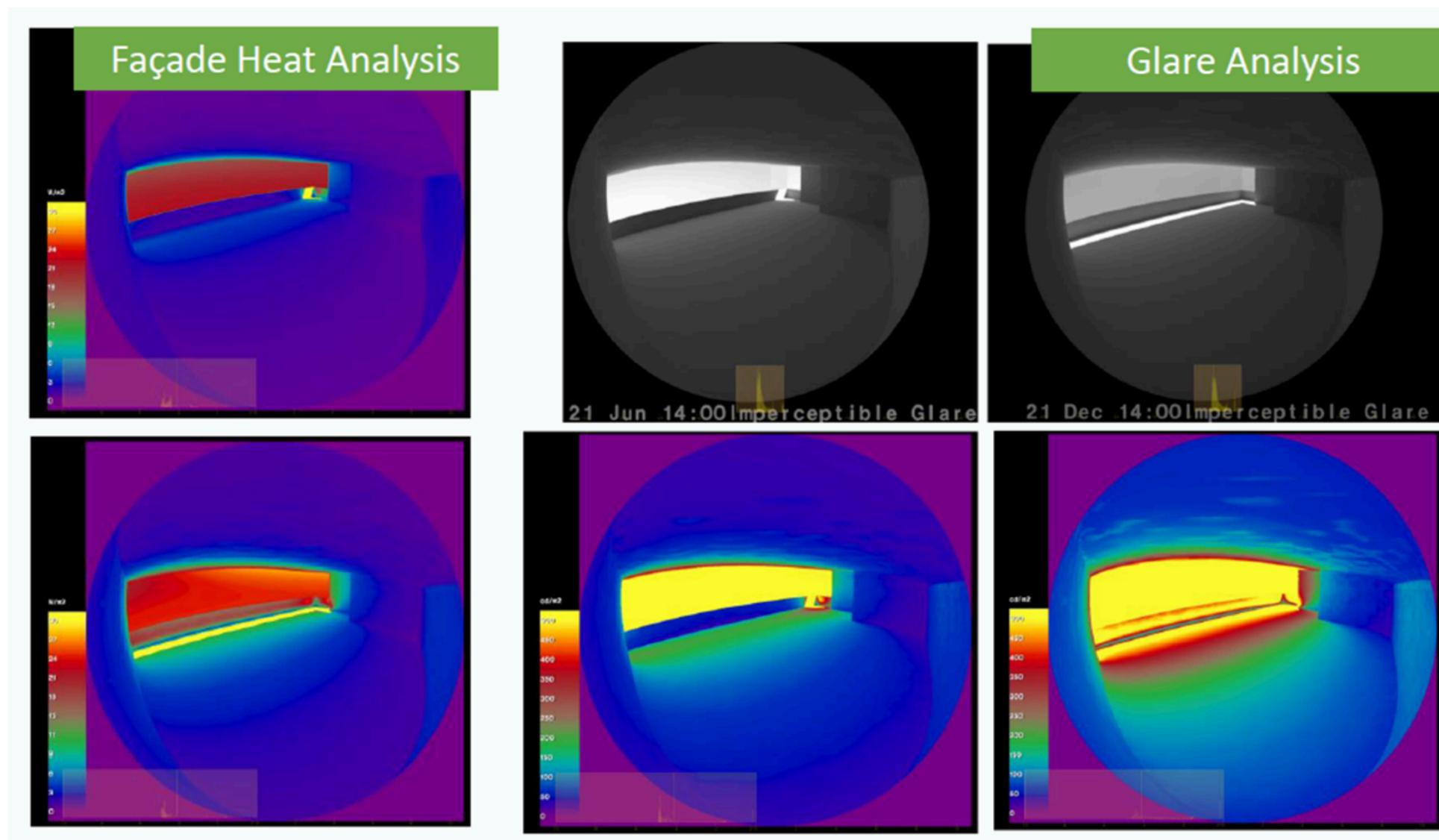
Conventional Asset Management is not economical, inefficient, unreliable because it depends on "human" (not system-based solutions).



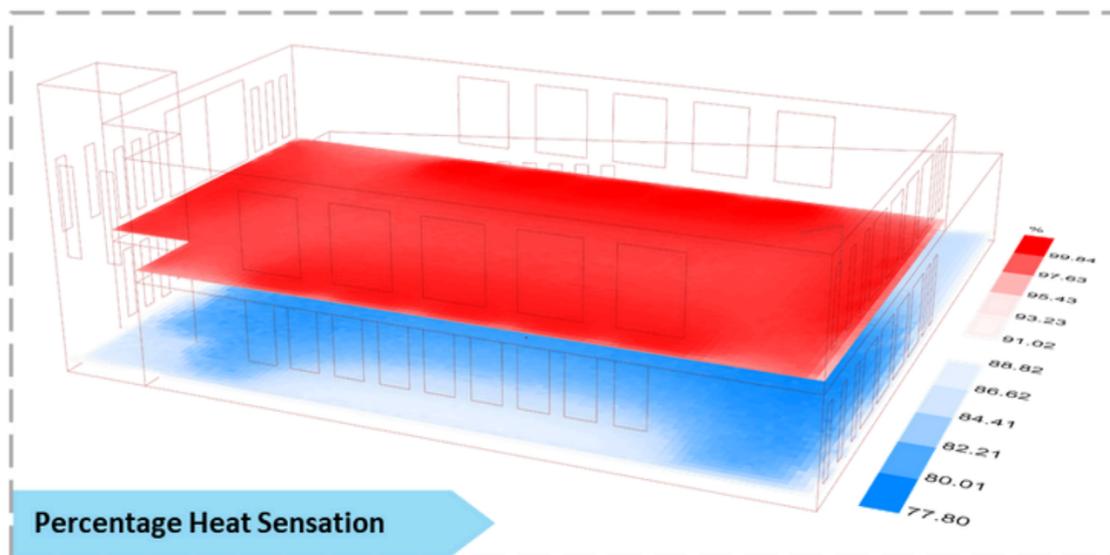
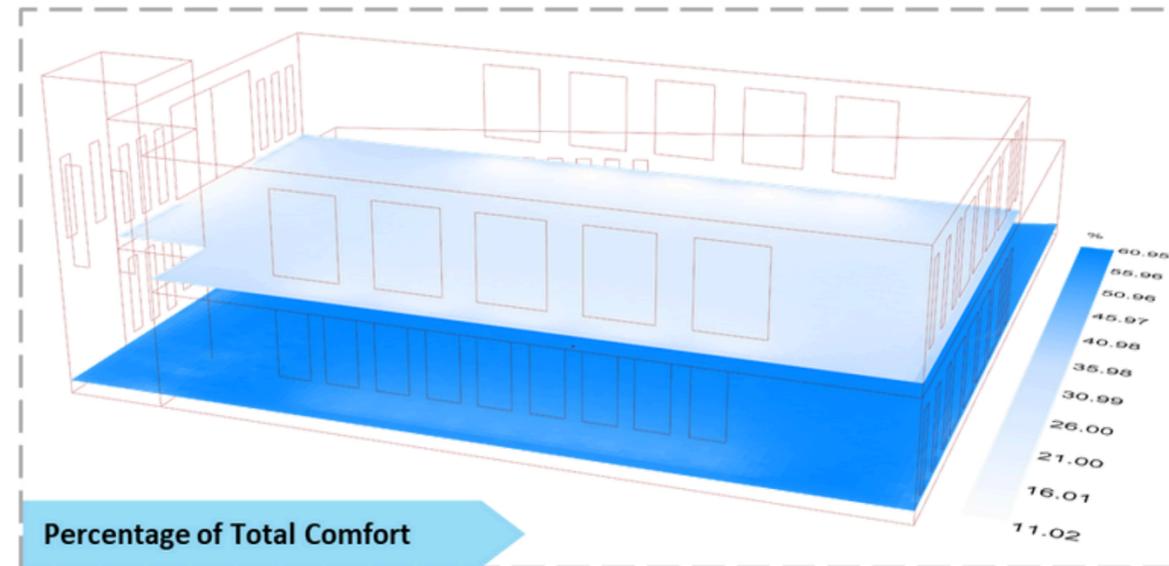
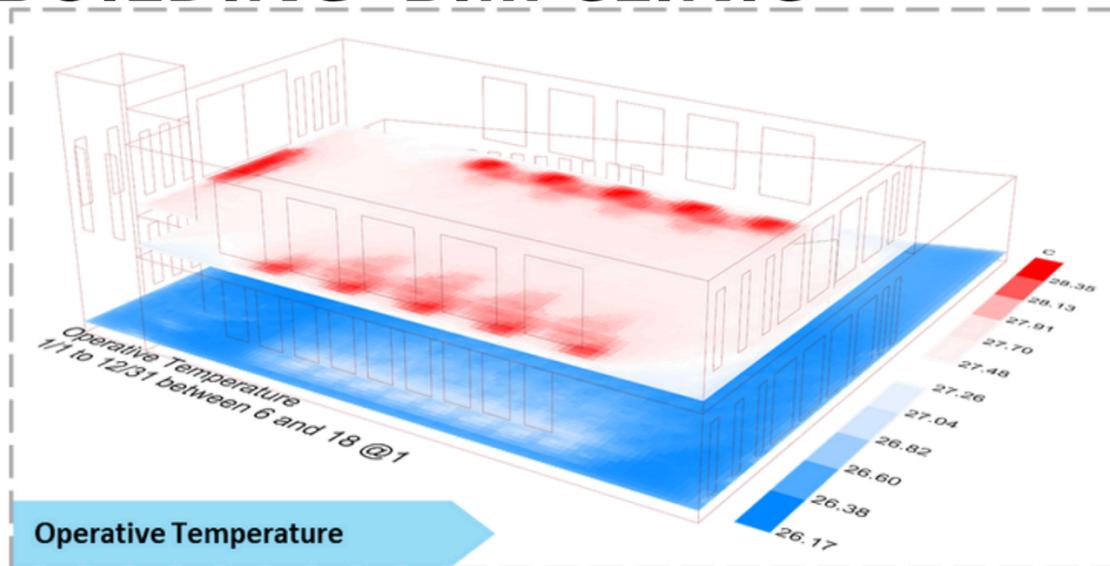
Dimension of BIM



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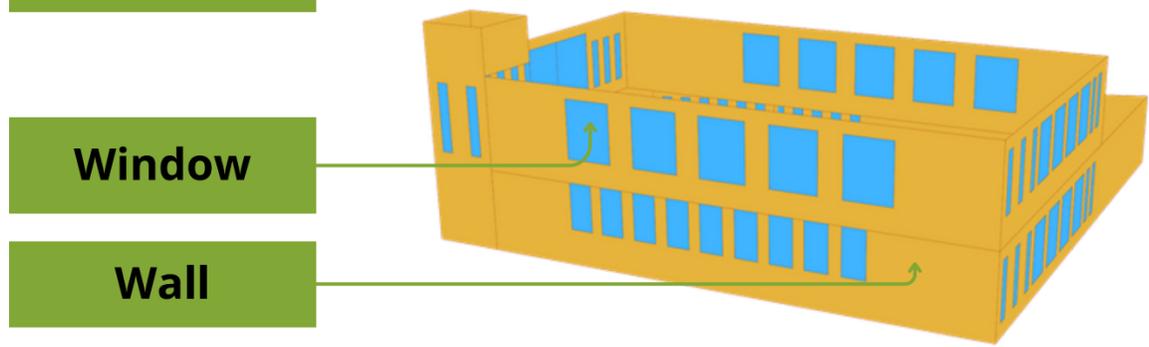
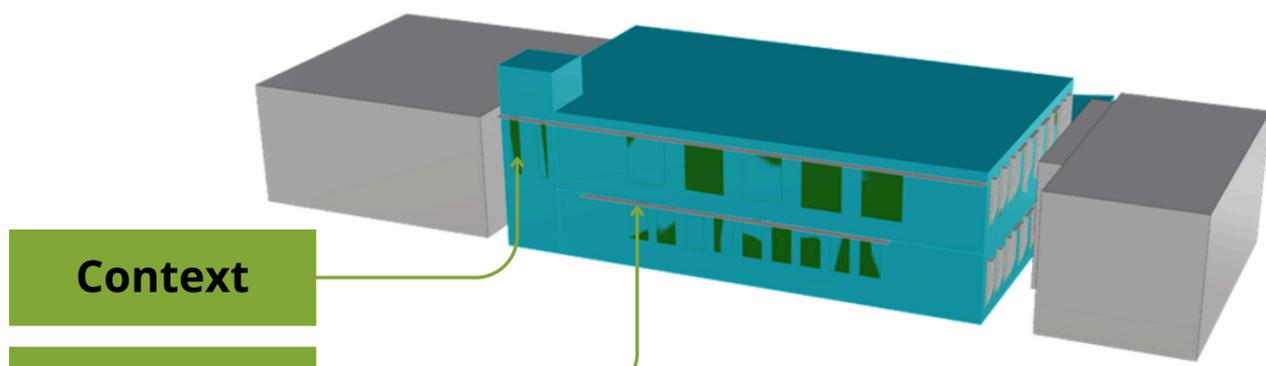
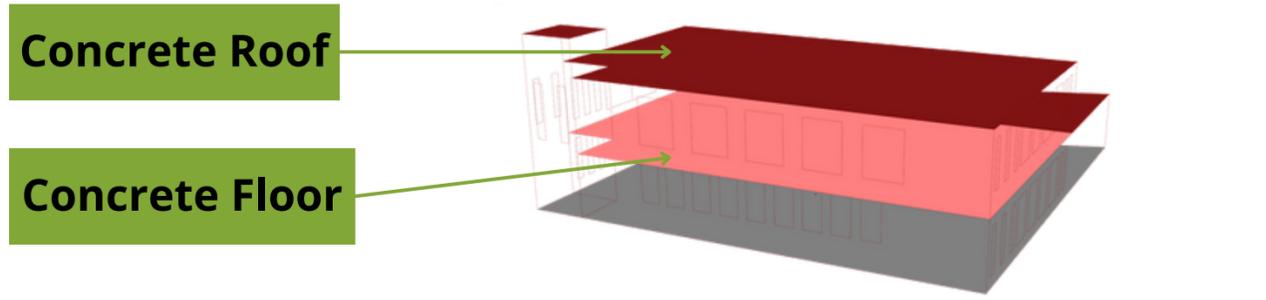
GREEN BUILDING- BIM CLINIC



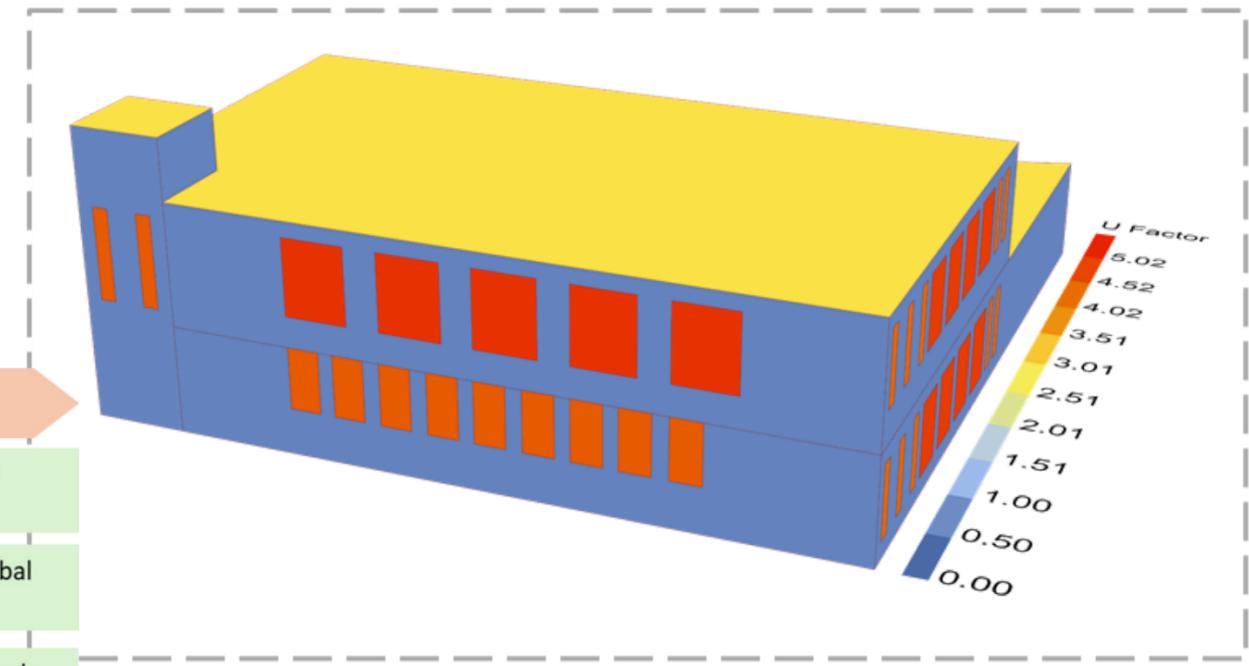
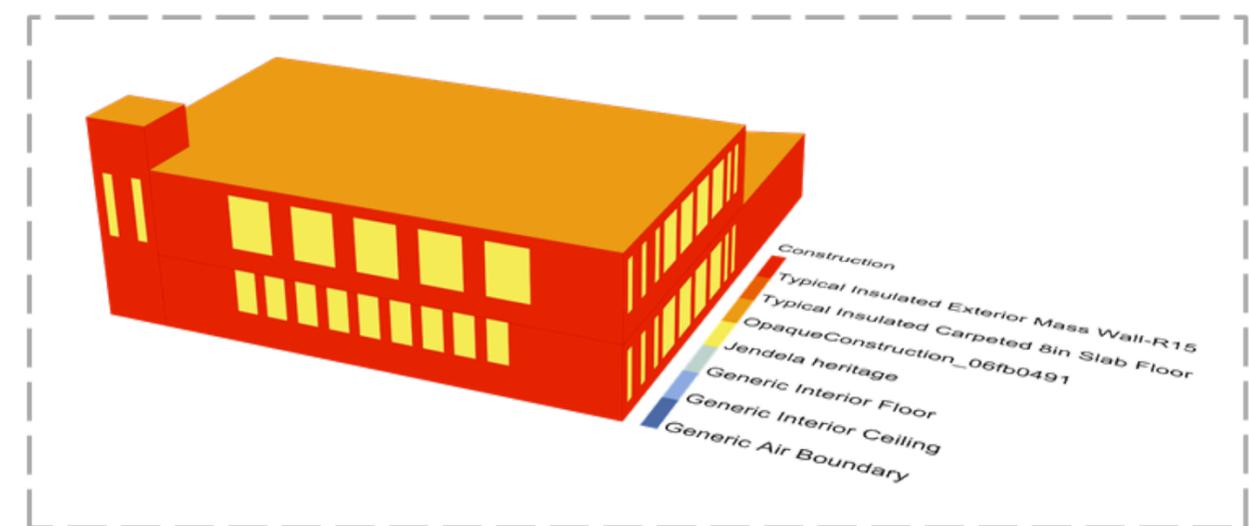
Indoor Thermal Comfort Simulation



GREEN BUILDING- BIM CLINIC



- Permodelan Energi Bangunan**
- Asumsi bangunan dengan dinding Bata Tebal 30cm, dengan U-value 0,8 W/m²-K
 - Asumsi Jendela dengan kaca single glazing tebal 12mm, dengan U-value 5.2 W/m²-K
 - Asumsi Atap dengan beton 30cm, dengan U-value 1,5 W/m²-K



>> | Algorithm Aided Design

Algorithms-Aided Design (AAD) adalah penggunaan editor-algoritma khusus untuk membantu dalam pembuatan, modifikasi, analisis, atau optimalisasi desain.



Desain Kulit Extrusi Silinder dengan Algoritma

As interior designers, we do not design for anyone, but everyone.

Waffle Design Ceiling

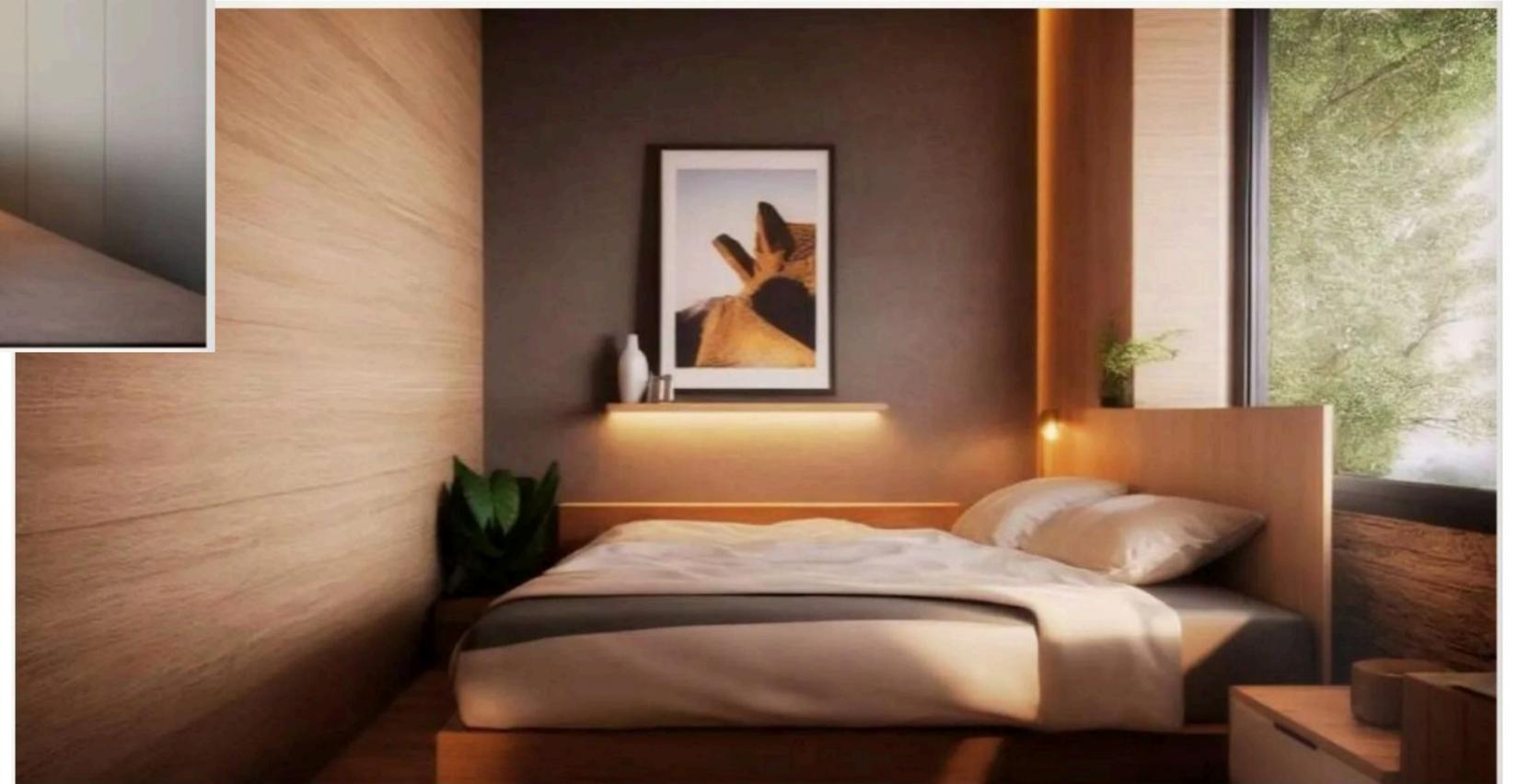


PARAMETRIC DESIGN #4

Voronoi Design untuk Kulit/Dinding



Interior Design Portfolio



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Interior Design Portfolio



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differentia
singularis