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PURINO
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ITERA WEBINAR SERIES #B-058

ARSITEKTUR DIGITAL DALAM PERANCANGAN ARSITEKTUR

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Dosen Arsitektur Lanskap ITERA

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David Ricardo, S.T., M.T.
Dosen Arsitektur ITERA

Prof. Dr.-Ing. Ir. L.M.F. Purwanto, M. T
Dosen Arsitektur Unika Soegijapranata

Rabu, 25 Agustus 2021
09.00 WIB - Selesai

Zoom Link :
bit.ly/IWS-B058

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Terbuka Untuk Umum

Gratis Registrasi & E-Sertifikat

Arsitektur Digital dalam Perancangan Arsitektur

Prof. Dr.-Ing.L.M.F. Purwanto

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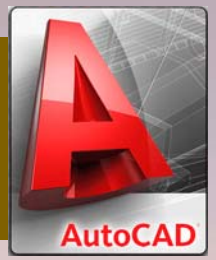
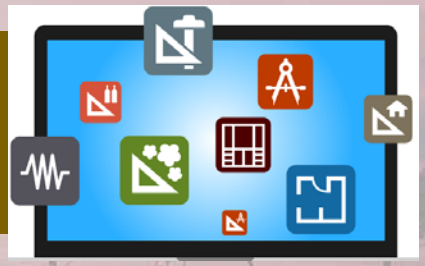
Fenomena Arsitektur Digital

Pemanfaatan Komputer



Perubahan Paradigma



Issue Go Green

Metode Baru

Evolution of Architecture

Easy → Difficult → Easier

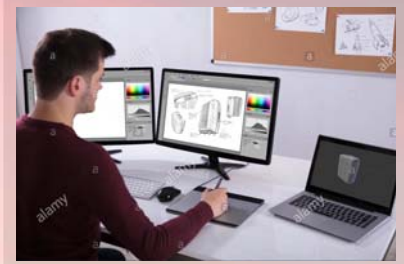
Work pattern in Architecture

Manual

Linier

Digital

Evolution of Digital Architecture

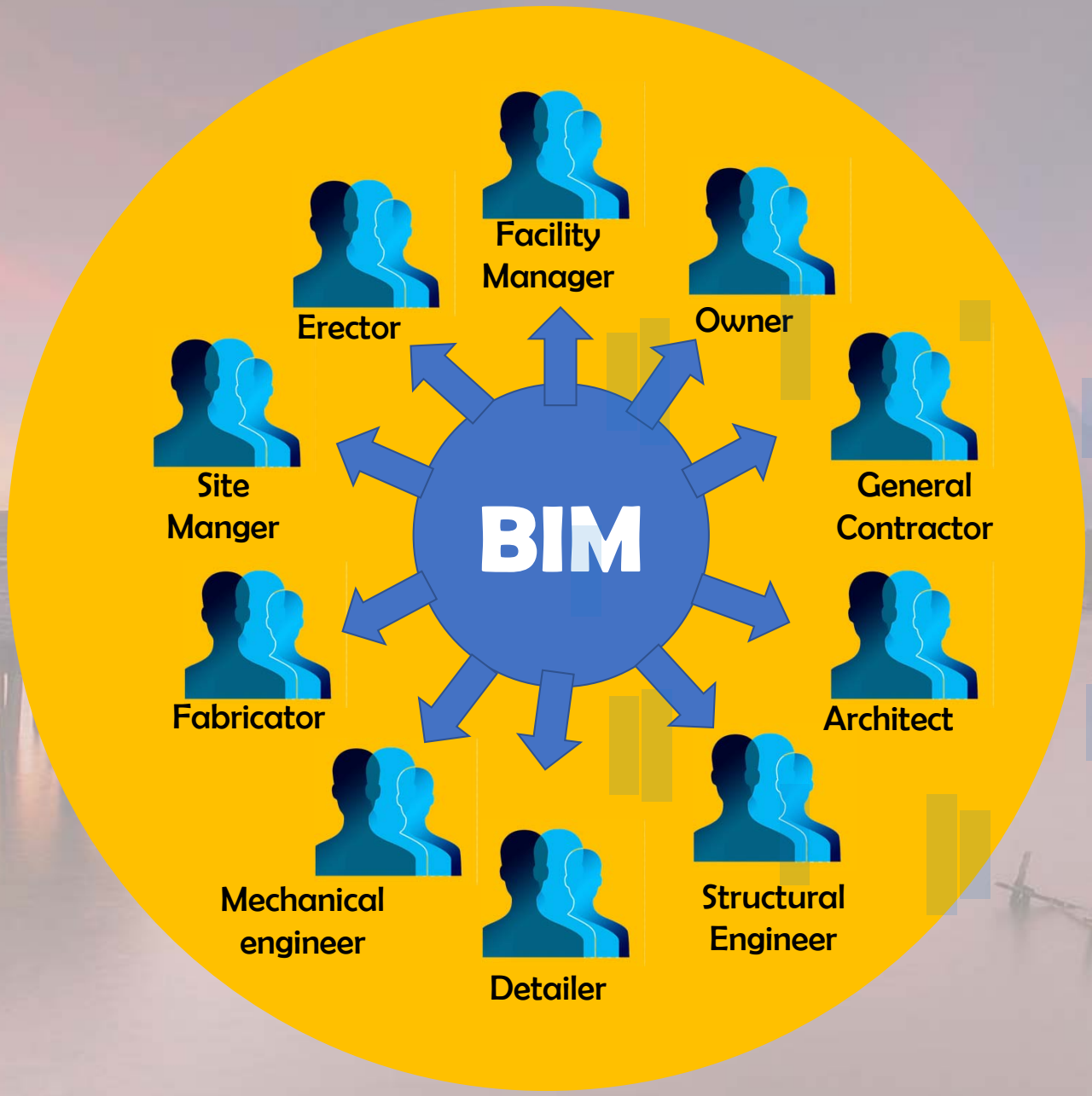


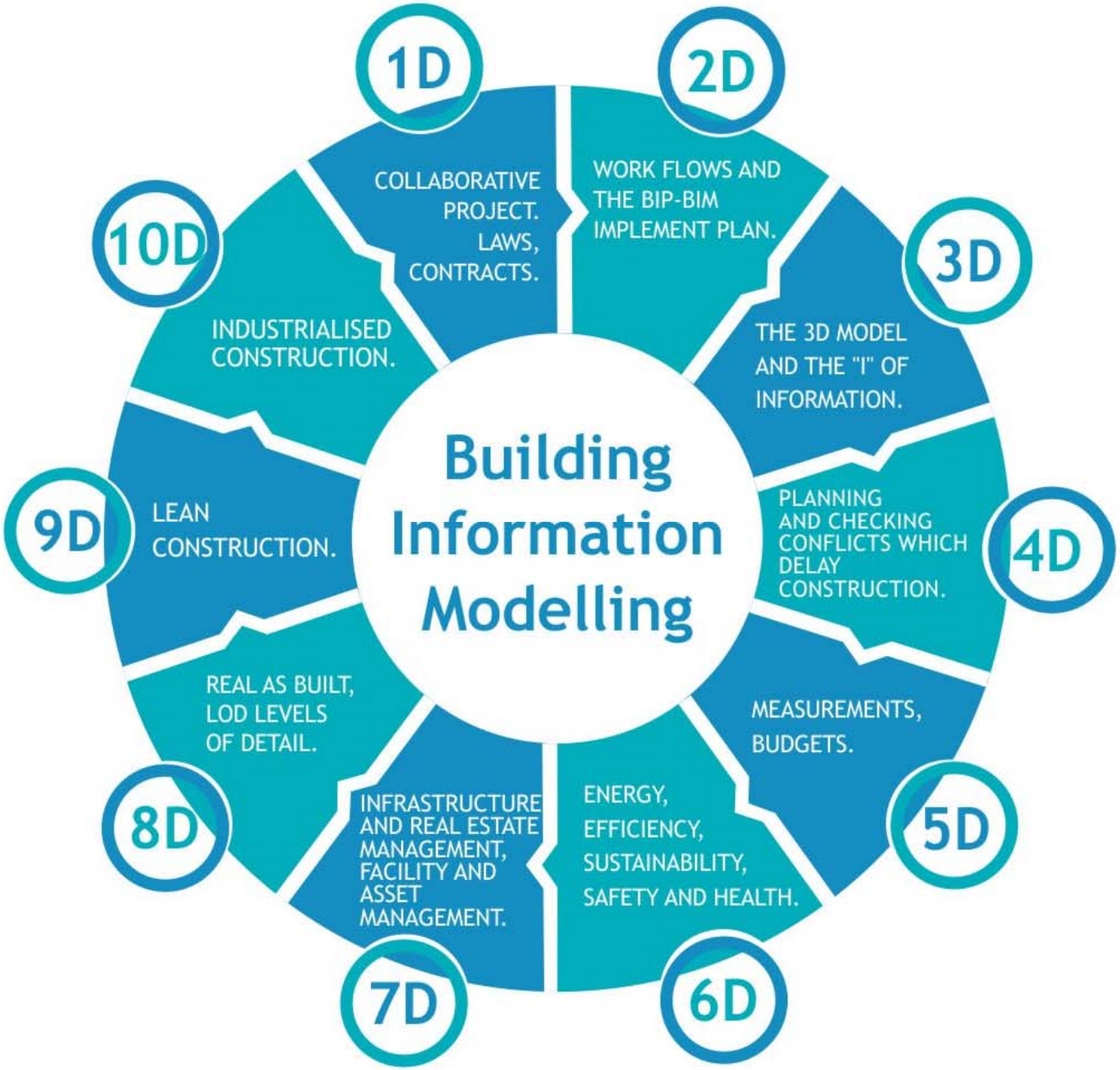
Computer Aided Design

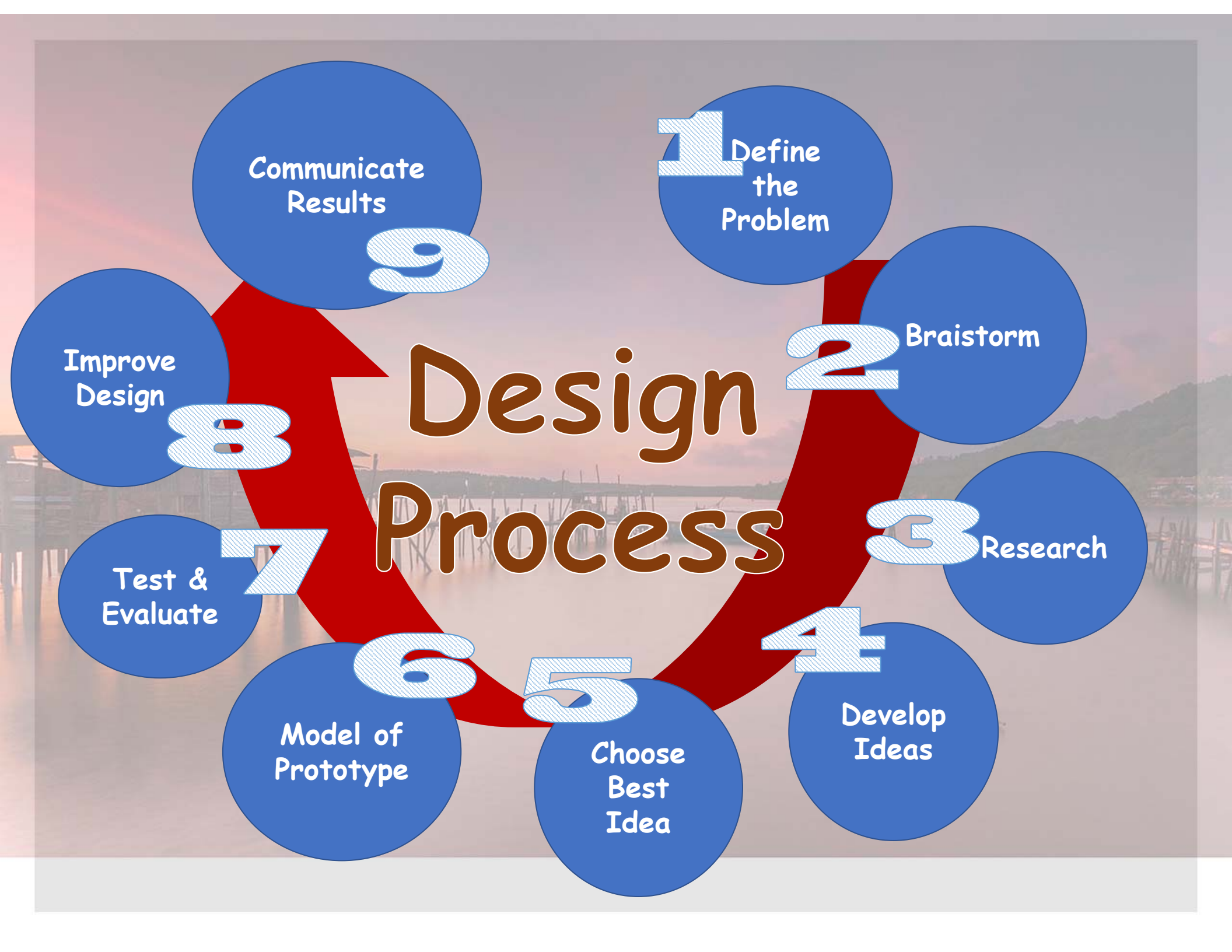
Connect to Internet

Building Information Modelling

VR, AR, AI


BIM
Facility Manager
Owner
Erector
Site Manger
General Contractor
Fabricator
Architect
Mechanical engineer
Detailer
Structural Engineer


Building Information Modelling
1D
COLLABORATIVE PROJECT. LAWS, CONTRACTS.
2D
WORK FLOWS AND THE BIP-BIM IMPLEMENT PLAN.
3D
THE 3D MODEL AND THE "I" OF INFORMATION.
4D
PLANNING AND CHECKING CONFLICTS WHICH DELAY CONSTRUCTION.
5D
MEASUREMENTS, BUDGETS.
6D
ENERGY, EFFICIENCY, SUSTAINABILITY, SAFETY AND HEALTH.
7D
INFRASTRUCTURE AND REAL ESTATE MANAGEMENT, FACILITY AND ASSET MANAGEMENT.
8D
REAL AS BUILT, LOD LEVELS OF DETAIL.
9D
LEAN CONSTRUCTION.
10D
INDUSTRIALISED CONSTRUCTION.

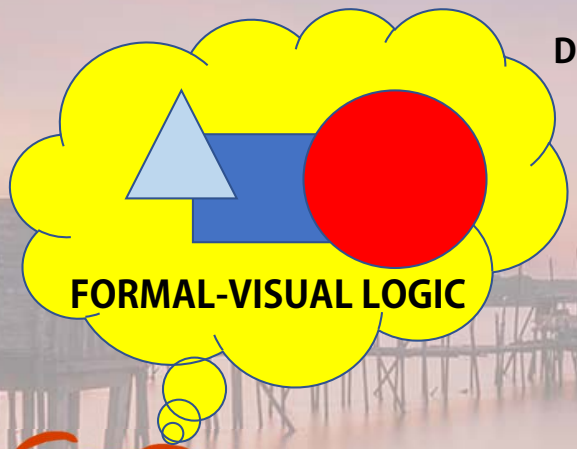

Design Process
1 Define the Problem
2 Braistorm
3 Research
4 Develop Ideas
5 Choose Best Idea
6 Model of Prototype
7 Test & Evaluate
8 Improve Design
9 Communicate Results

Design Process
Digital Architecture

- Define the Problem
- Braistorm
- Research
- Develop Ideas
- Choose Best Idea
- Model of Prototype
- Model of Prototype
- Test & Evaluate
- Improve Design
- Communicate Results

Digital Architecture

Representative digital design strategies



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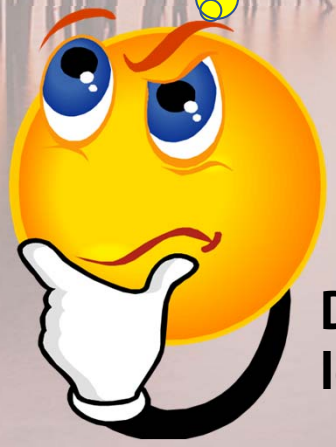
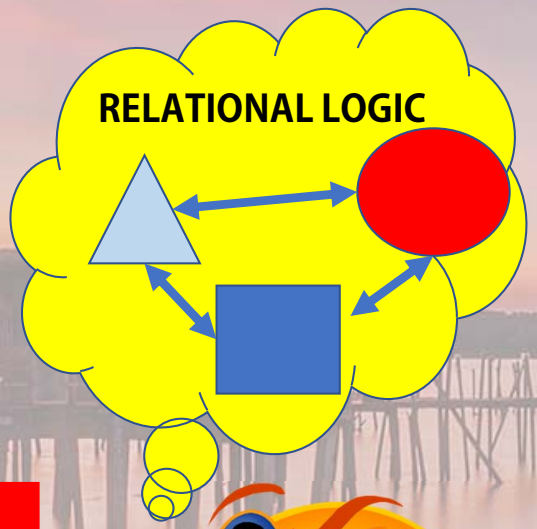


Designer
Ideas, Aesthetic Intentions

Parametric digital design strategies

PERFORMANCE-ORIENTED DESIGN

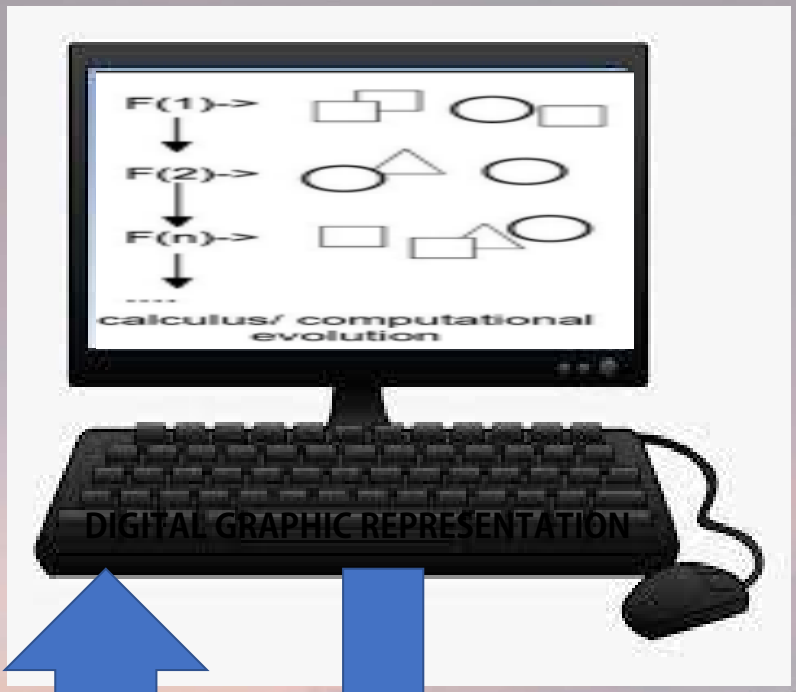


CONTEXT

Designer
Ideas, Aesthetic Intentions

Final Result

Generative digital design strategies



F(x)→ x + a/2

CONTEXT

Designer
Ideas, Aesthetic Intentions

Final Result

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LMF Purwanto

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Yuk aplikasikan Windrose ke analisis tapak

Yuk Analisis Tapak dengan WRPLOT

Berapa Gaji Arsitek Digital???

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- Quoted material
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BestIdea• Define the Problem

Zionsville Community School District on 2013-08-27