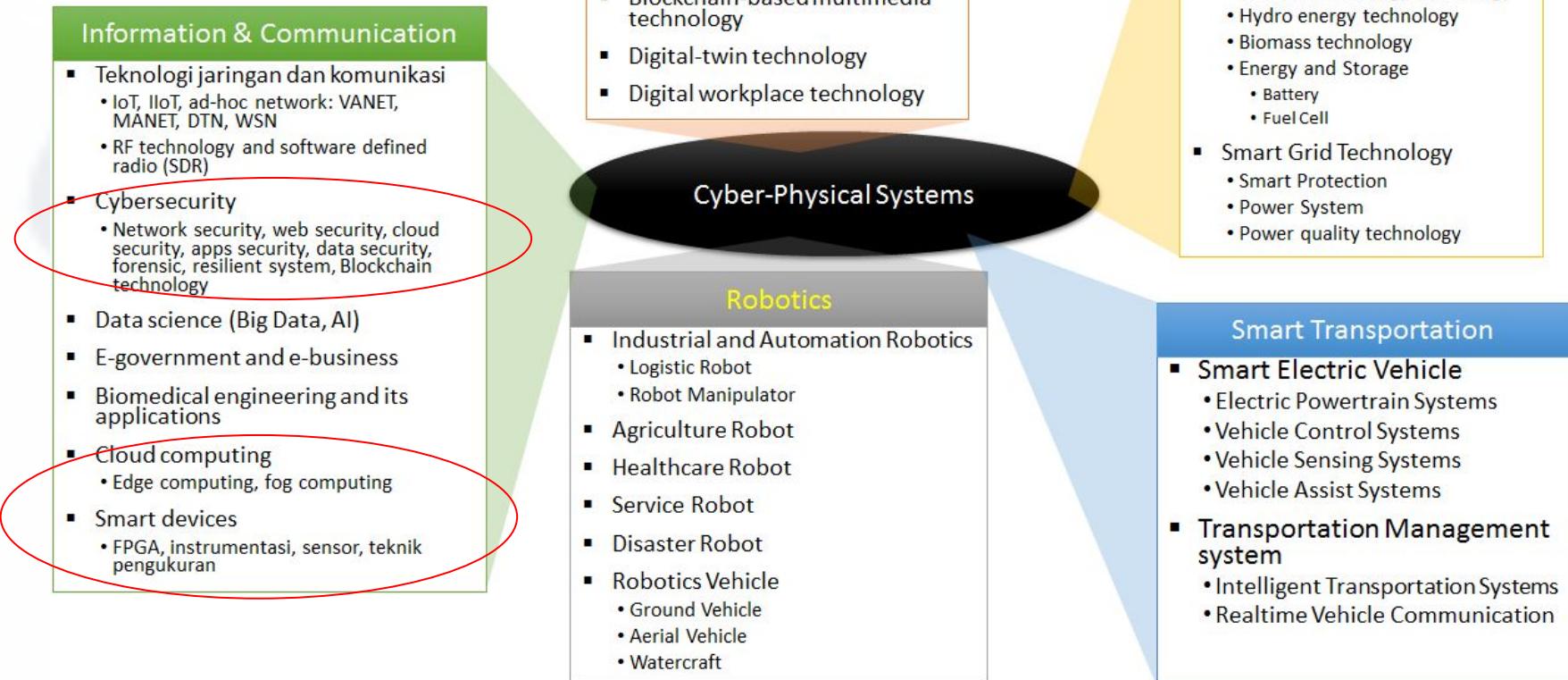


Pervasive Computing

Research Group

Lima Bidang Unggulan Inovasi Teknologi



Deskripsi

- Konsep dalam rekayasa perangkat lunak dan ilmu komputer dimana komputasi dibuat untuk dimunculkan di mana saja dan kapan saja.
- Komputasi dimana-mana dapat dilakukan pada perangkat, lokasi dan format apa pun dalam objek sehari-hari seperti lemari es, kacamata dan lain-lain.
- Kata kunci: *HCI, autonomous, distributed, Intelligent, Context Aware.*

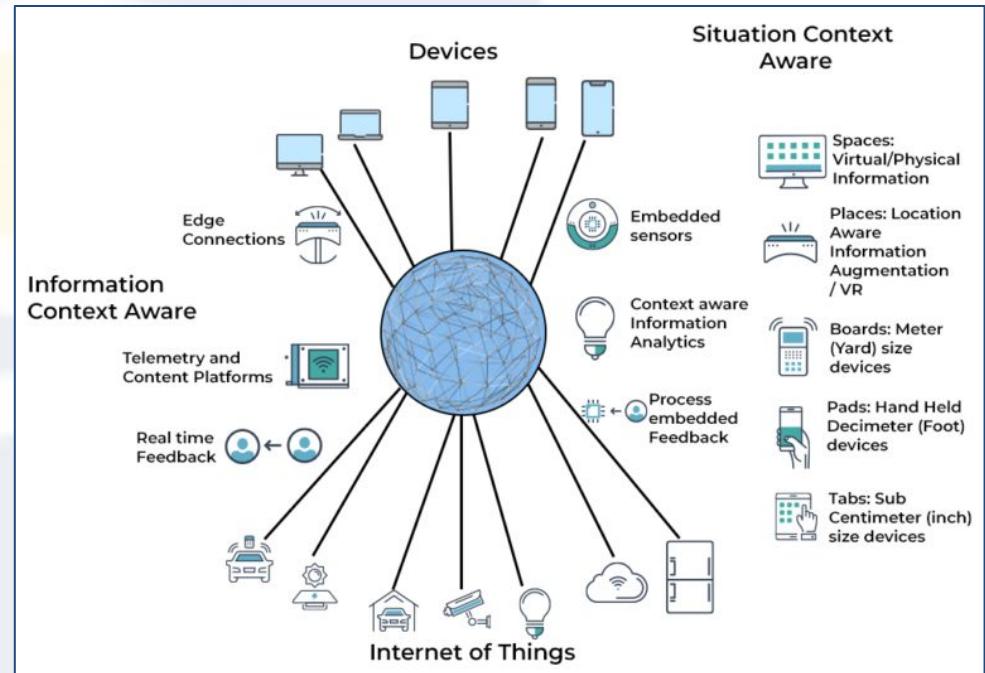
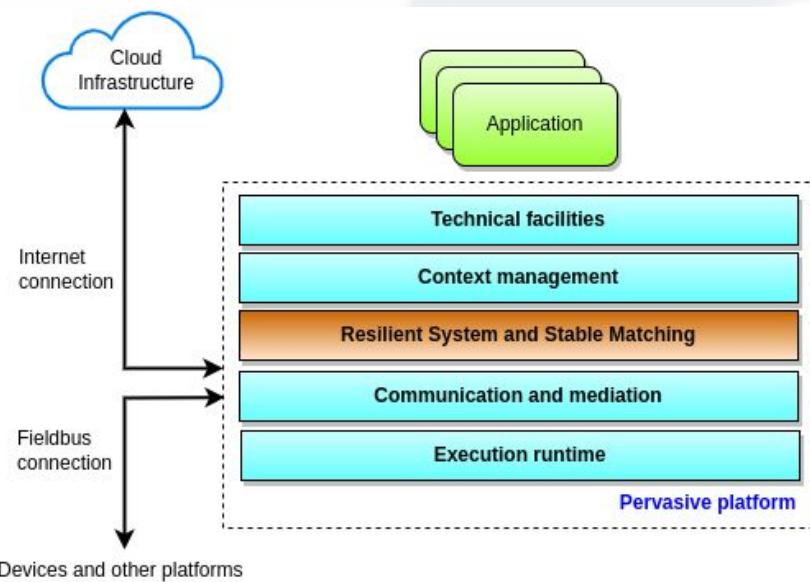


Deskripsi

- Pervasive Computing Layer:
 - Layer 1: The Management Layer → “examines user tasks, context, and index”
 - Layer 2: The environment management layer → “responsible for mapping service needs, user-level conditions of specific attributes, and resource and capability tracking”
 - Layer 3: The environment layer → “monitors and maintains essential resources”
- Implementation:

Logistics, Self-driving vehicles, Home automation, e-Commerce, National security, Medical Technology, Military and armed forces

Framework



Roadmap

2023

2024

2025

2026

2027

Data Center:

- Self-reconfiguration: Job Scheduler
- Auto recovery (homogeneous)

Data Center:

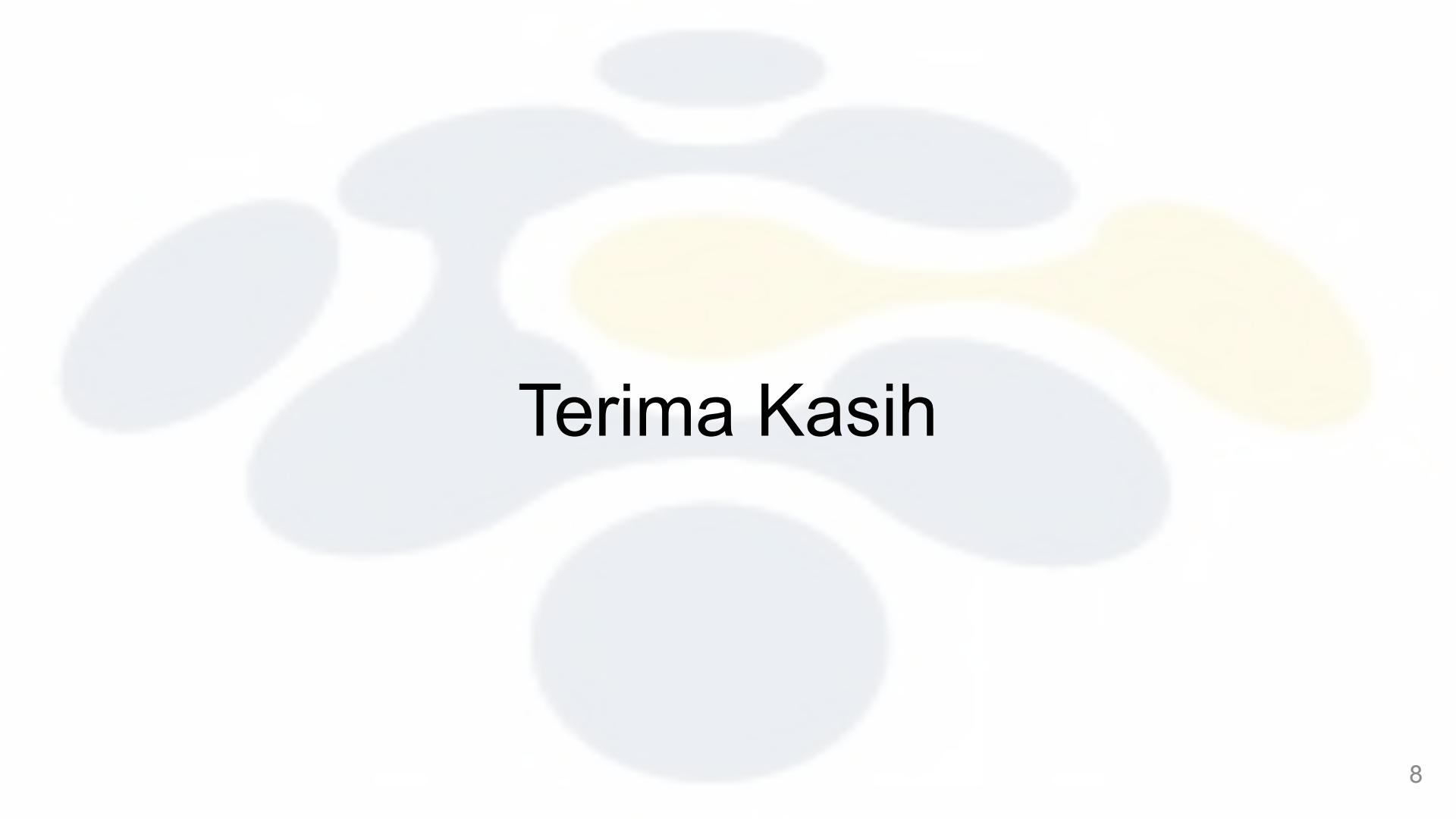
- Self-reconfiguration
- Auto recovery (hybrid)

Data Center:

- VM migration recommendation
- Auto recovery (heterogeneous)

Target Capaian dalam 5 Tahun

Luaran	2023	2024	2025	2026	2027
Publikasi	2	3	2	3	2
HKI	2	2	2	2	2
Feasibility Study	1	1	1	1	1
Produk (implementasi)	1	2	1	2	1
Kerjasama Industri	1	1	1	1	1



Terima Kasih