



Seminar Nasional Pengkajian dan
Penerapan Sains Teknologi 2024

Smart Societies – Dukungan Teknologi Internet of Things

Jakarta, 2 Mei 2024

Prof. Dr.-Ing. Mudrik Alaydrus, IPU

Universitas Mercu Buana



Diselenggarakan Oleh :



K2

1



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SEMINAR NASIONAL PENGKAJIAN
DAN PENERAPAN SAINS
TEKNOLOGI 2024
(SNPPST 2024)



Agenda

You can only create,
what you can imagine

- Society 5.0
- IoT
- Connection to SDG



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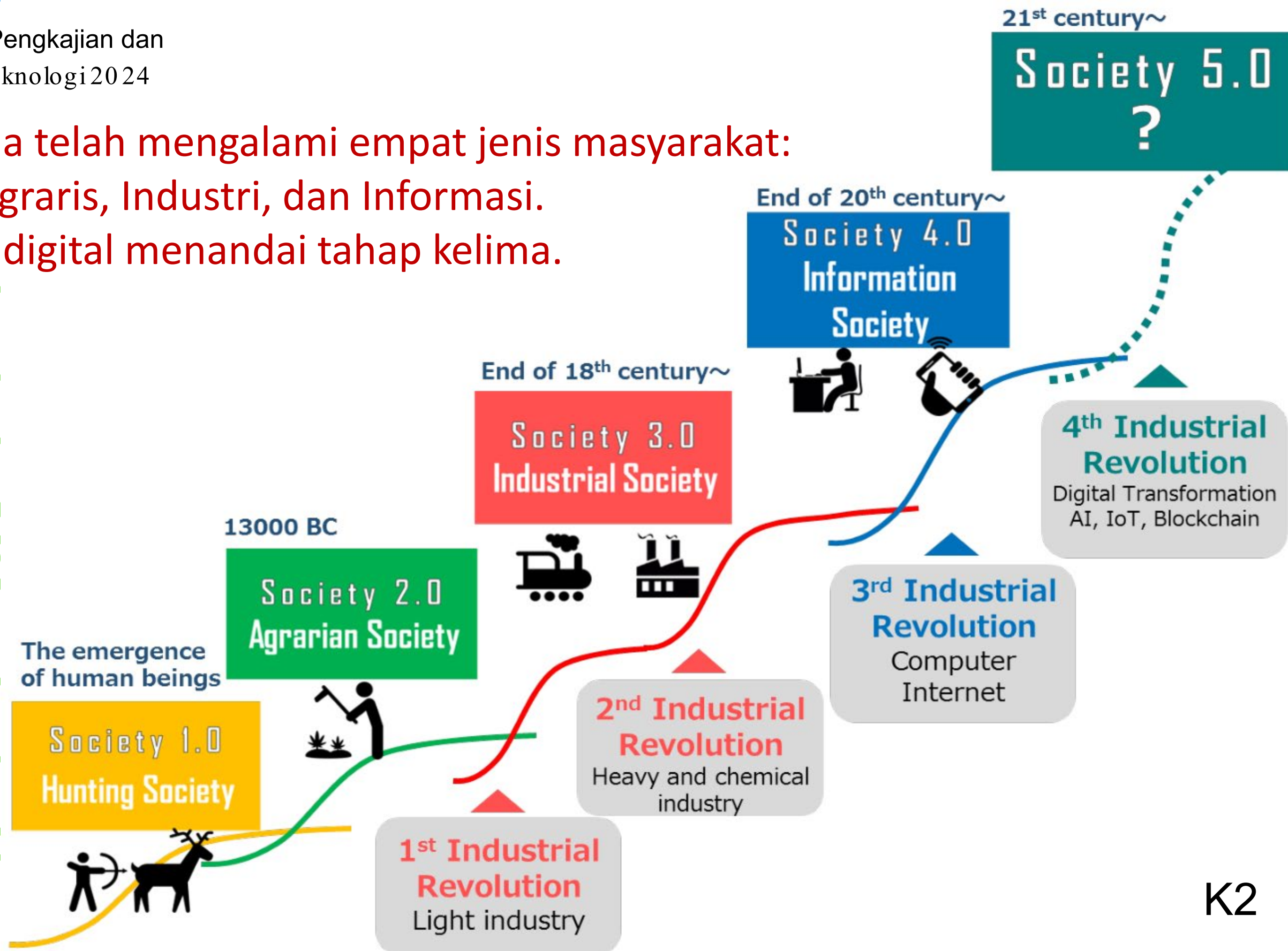
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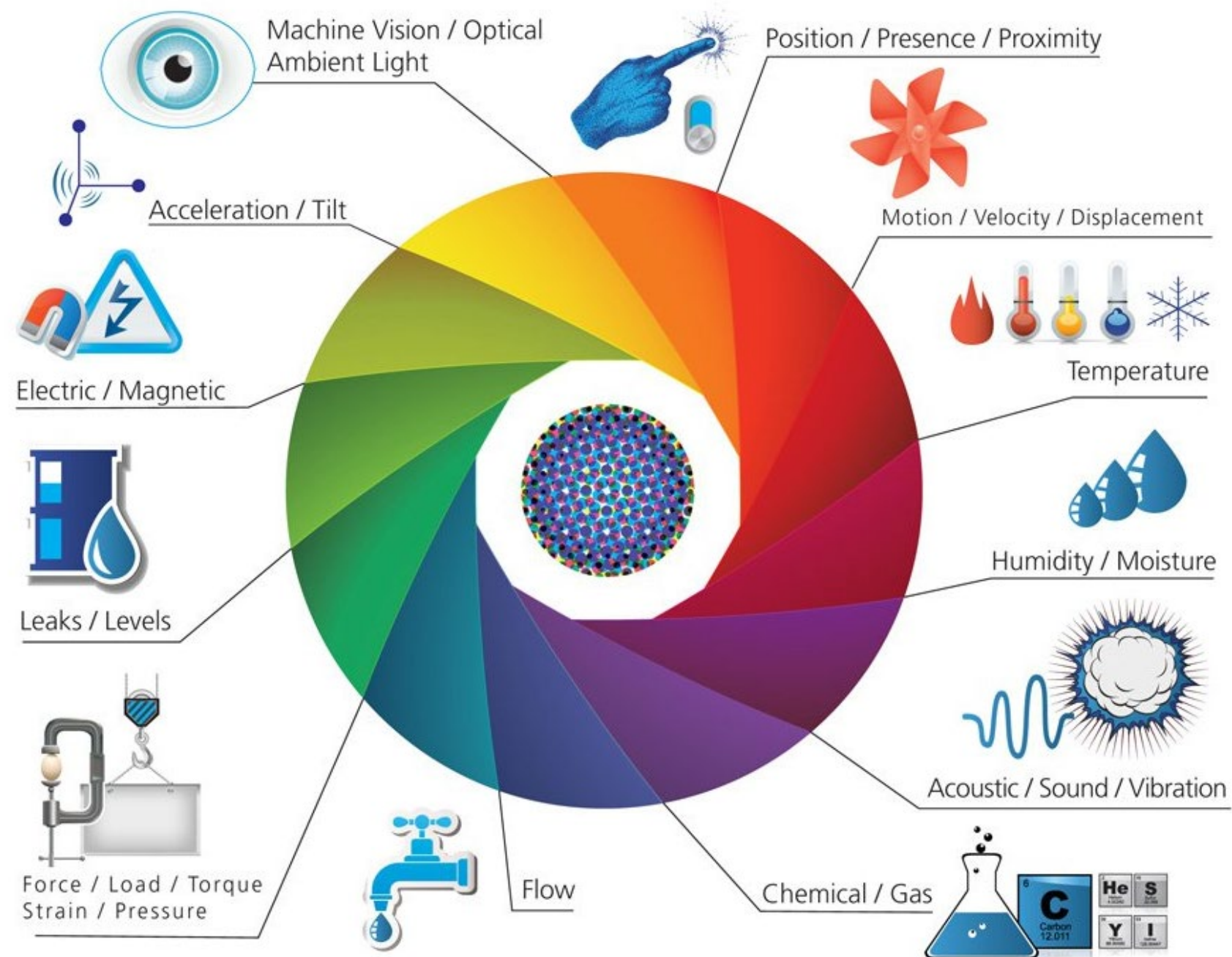


Umat manusia telah mengalami empat jenis masyarakat:
Perburuan, Agraris, Industri, dan Informasi.
Transformasi digital menandai tahap kelima.

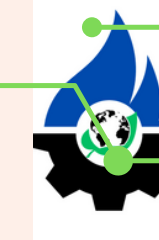


1 SENSORS & ACTUATORS

We are giving our world a **digital nervous system**. Location data using GPS sensors. Eyes and ears using cameras and microphones, along with sensory organs that can measure everything from temperature to pressure changes.



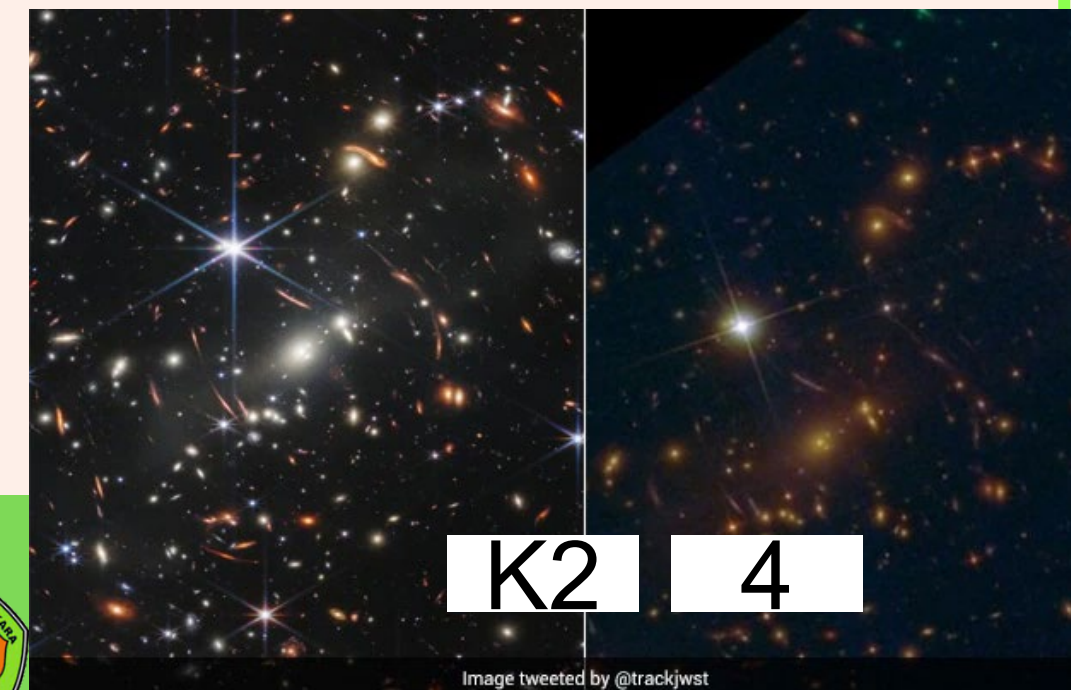
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Contoh capture High-speed camera



Contoh lain: Space Telescope
James Webb vs Hubble



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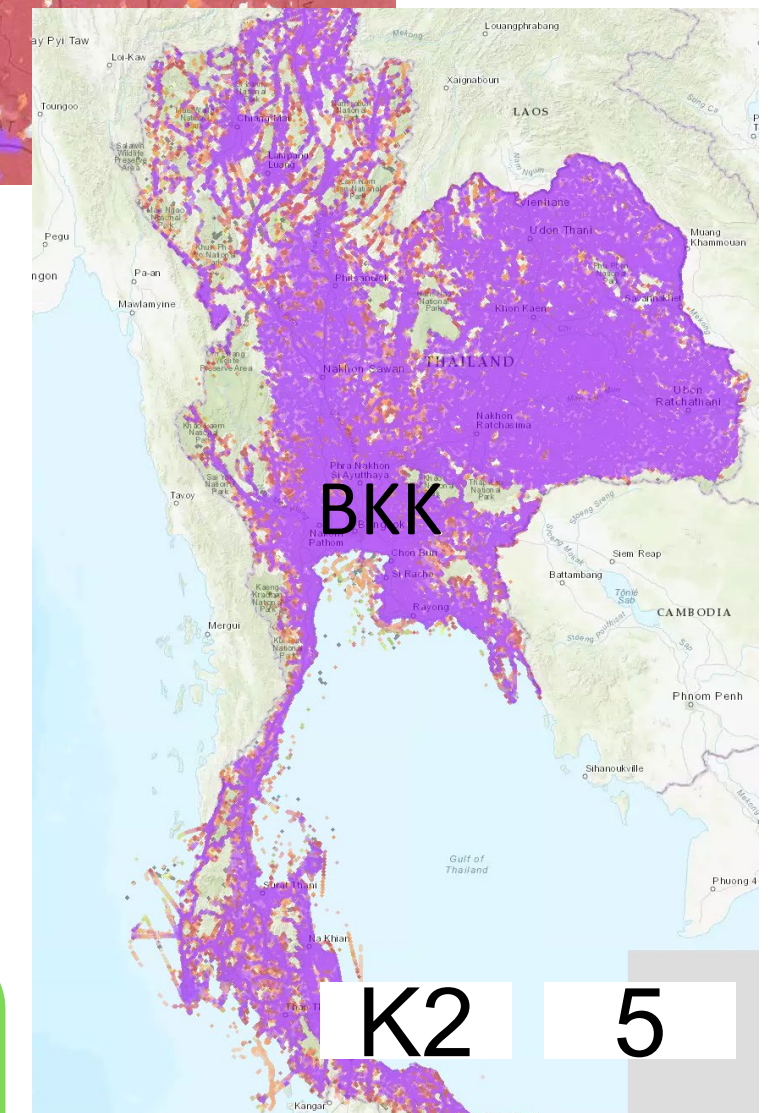
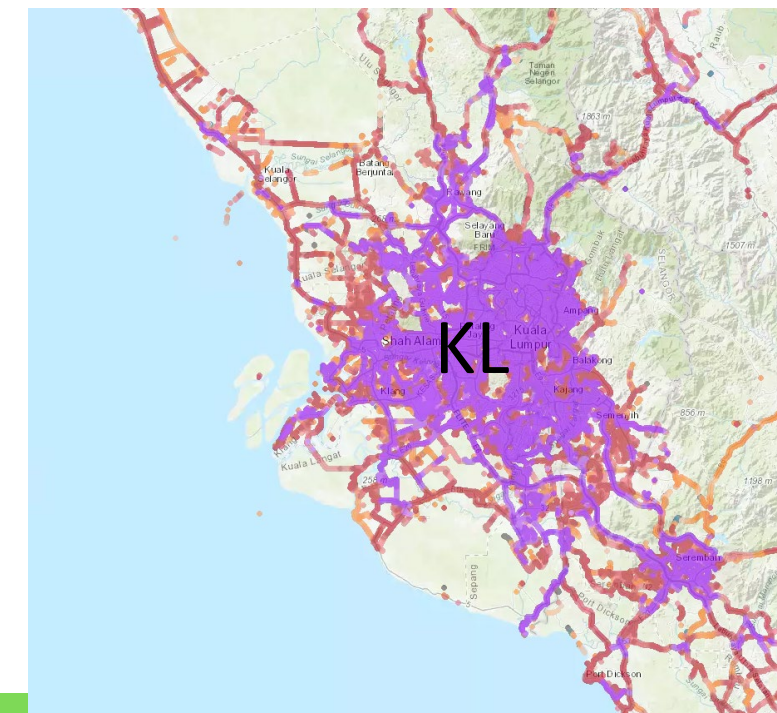
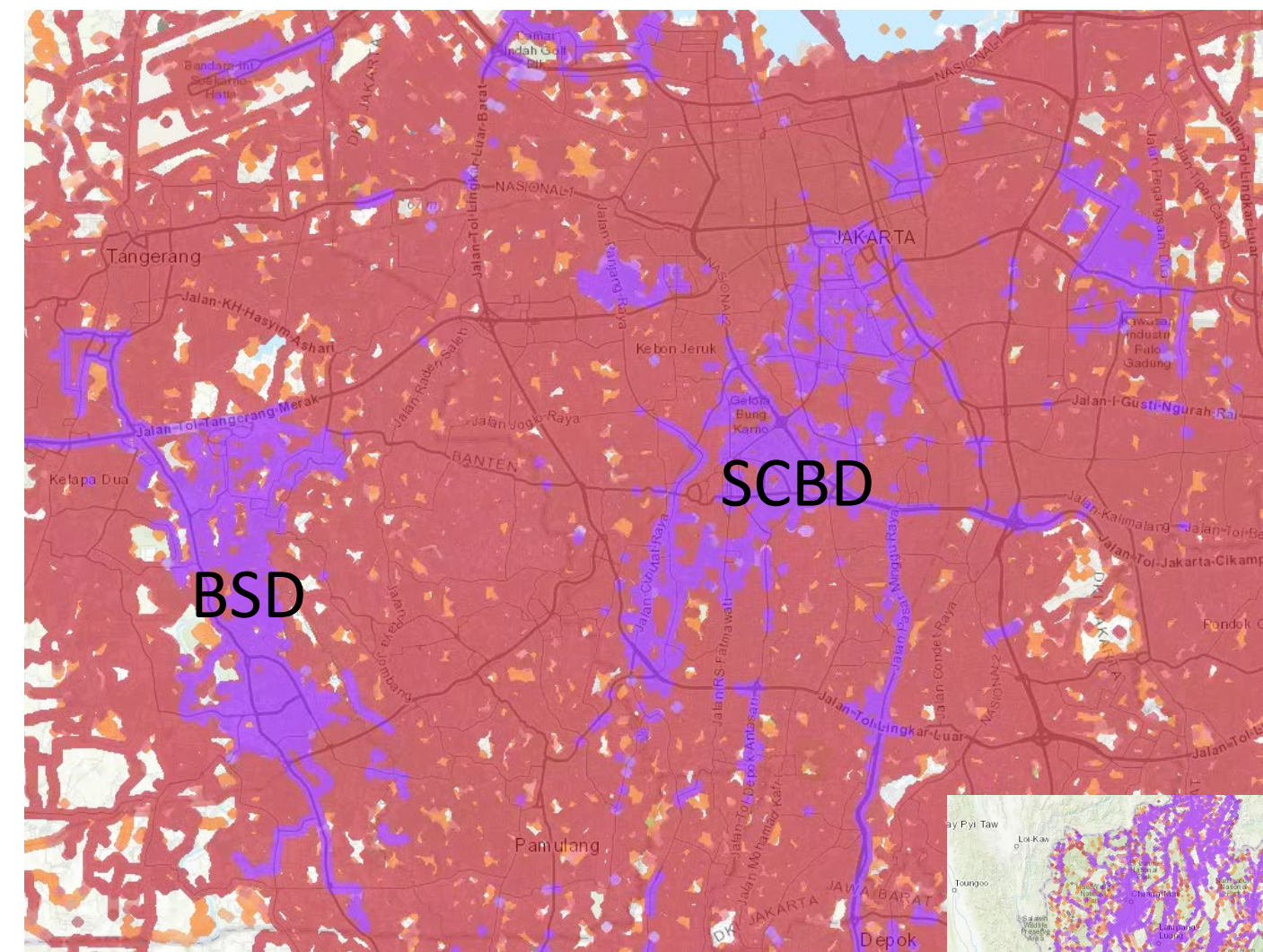
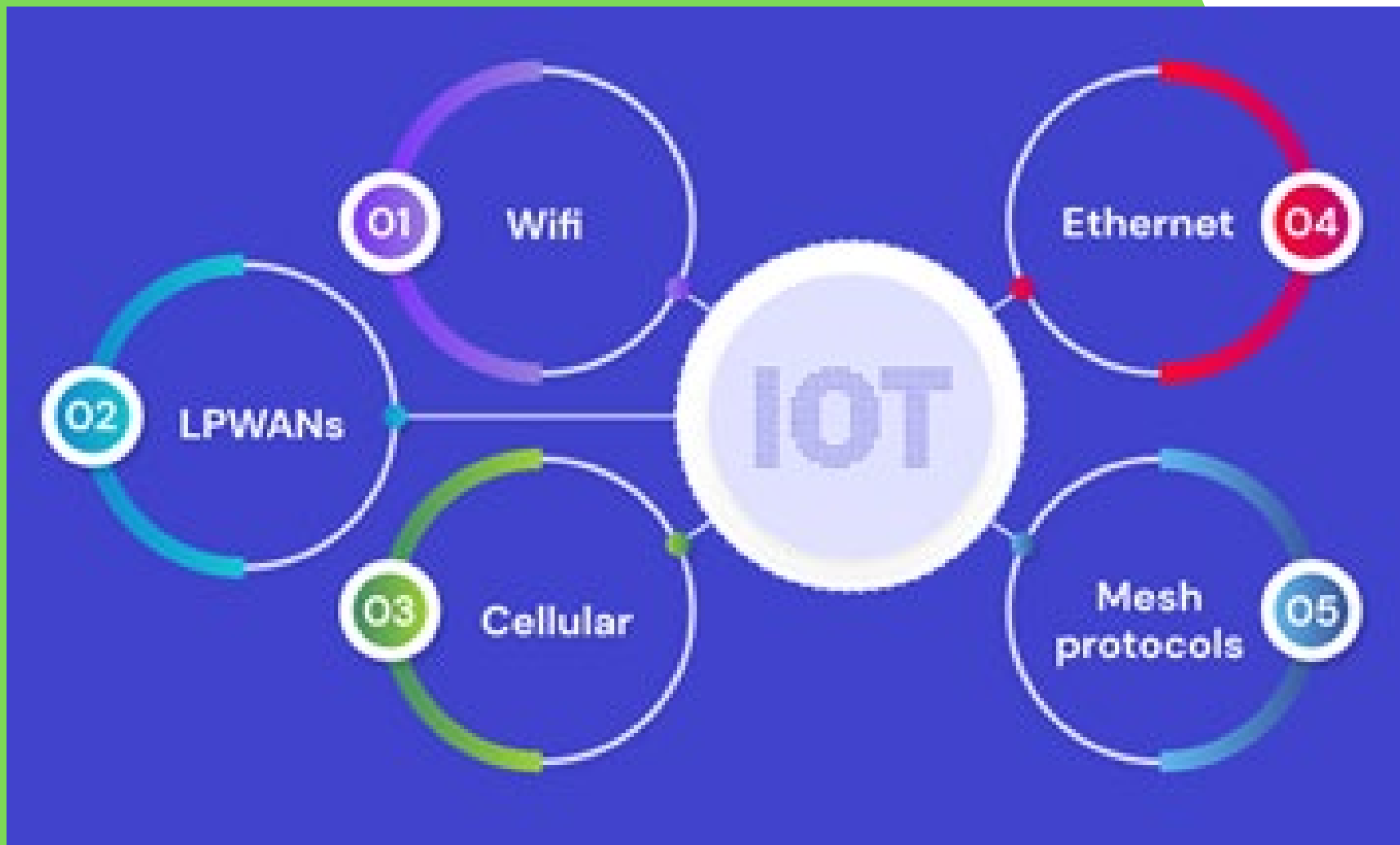


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2 CONNECTIVITY



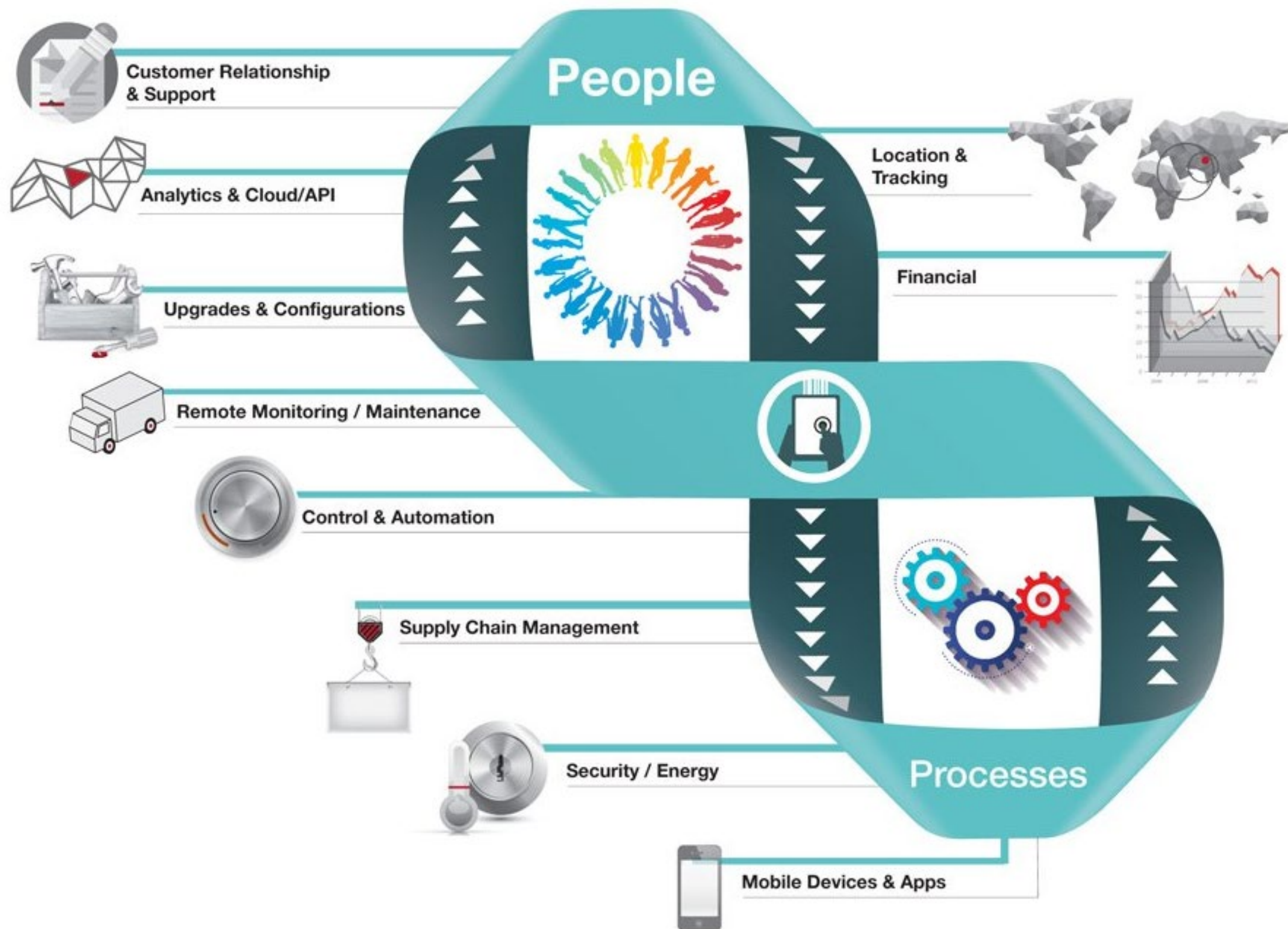
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3 PEOPLE & PROCESSES

These networked inputs can then be combined into bi-directional systems that integrate data, people, processes and systems for better decision making.



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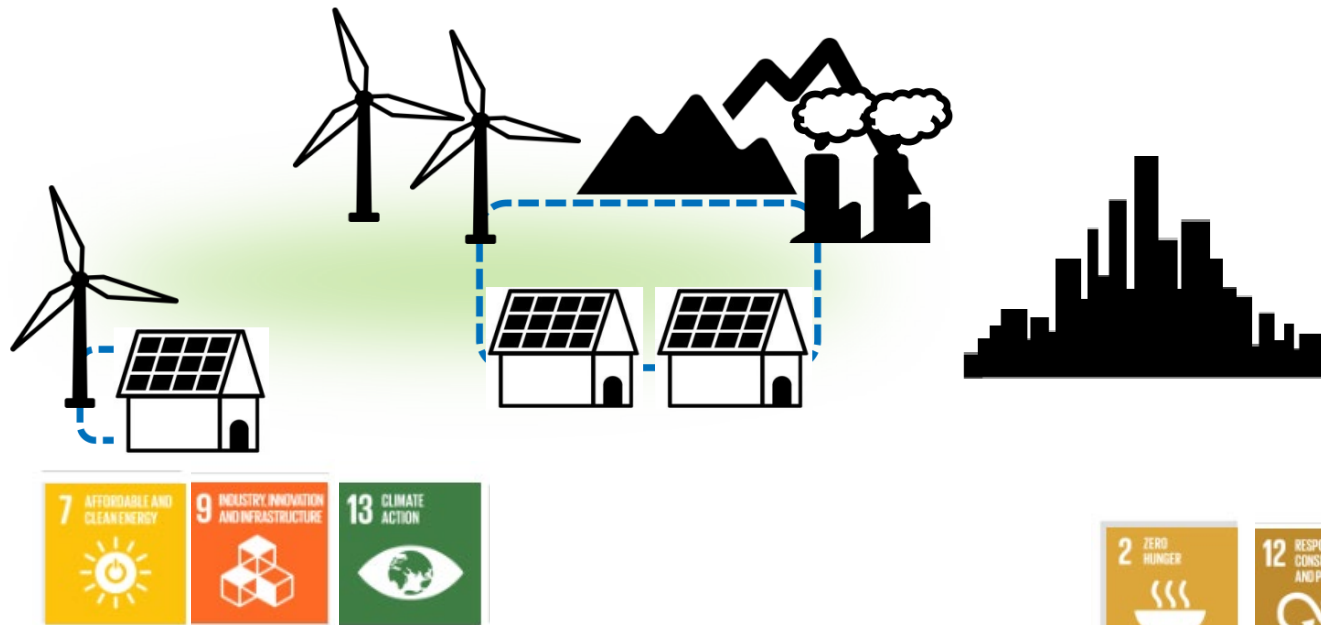
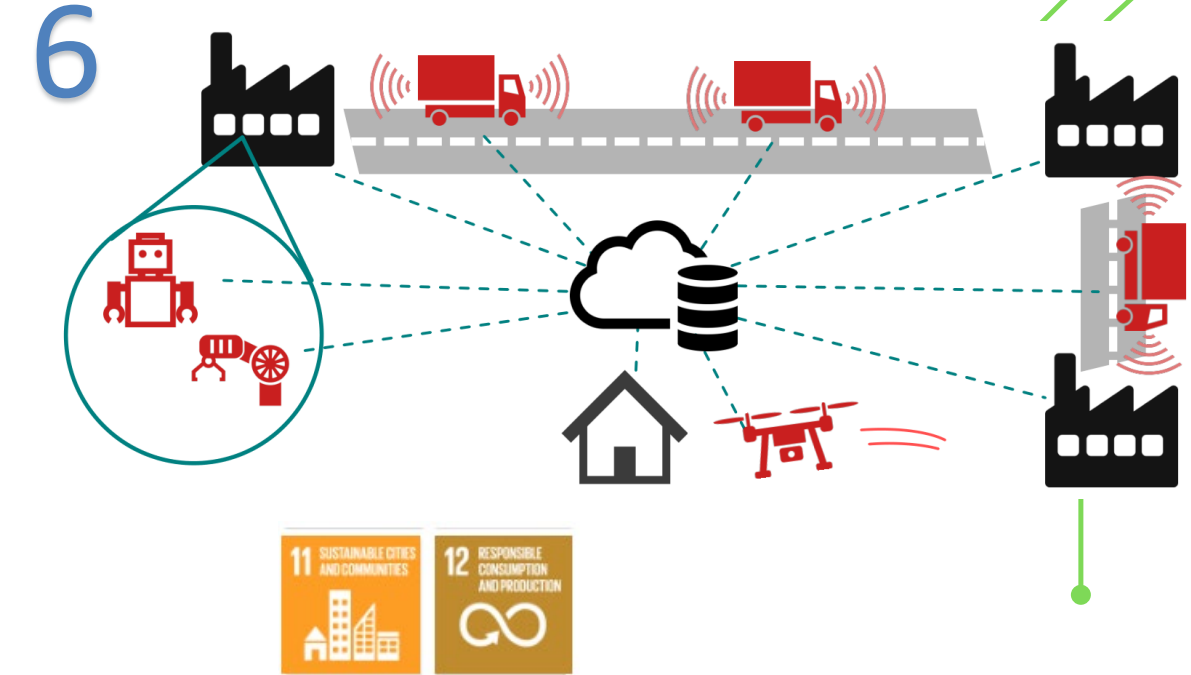


Society 5.0

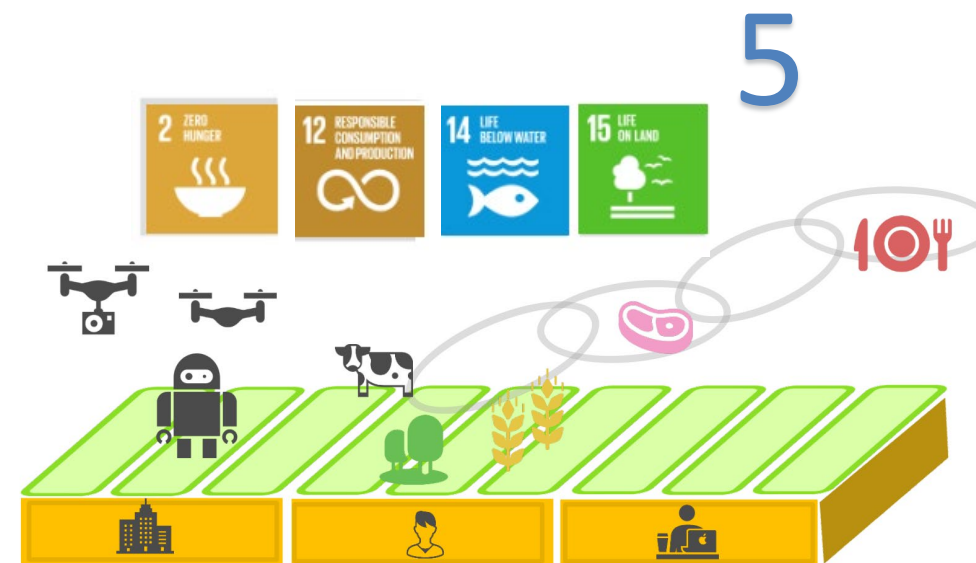
- ① Cities and Regions
- ② Energy
- ③ Disaster Prevention
- ④ Healthcare
- ⑤ Agriculture and Food
- ⑥ Logistics
- ⑦ Manufacturing and Services
- ⑧ Finance
- ⑨ Public Services



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2



Diselenggarakan Oleh :



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Thank you!

Do you have any questions?

