

# Super Smart City & Society 5.0 - Super Smart Society

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***Indonesia Internet Governance Forum*** (IGF.ID)

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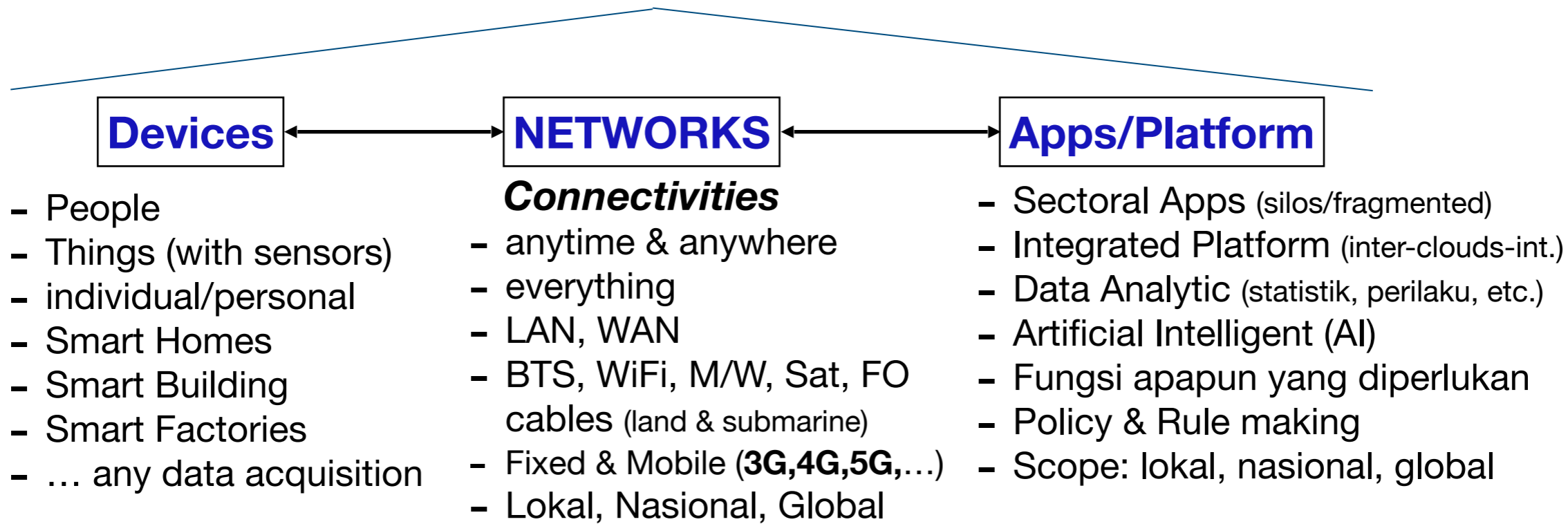
Rabu, 9 Oktober 2019

# Bahasa BPPT - Mengkaji Penerapan Teknologi

- **Memanfaatkan Teknologi ICT/TIK** (*Devices-Network-Applications*)
- Dengan teknologi ICT/TIK (telekomunikasi & internet) — **all thing could be connected** (:people, things, data, process — IoT dan IoE)
- **Billions connections** — Collecting Data — Big Data — Data Analytic — info & knowledge (tren & perilaku) — inter-process connected & communicated — Artificial Intelligent (AI) — autonomous systems for Cities, Industries, or People/Public Services/Society — policy & decision making.
- **All being connected** — dapat mensinergikan semua sumber daya & alat produksi — memaksimalkan produktifitas dan pelayanan — dengan keterpaduan kehidupan fisik dengan kehidupan Cyber.
- **Connected by** telecommunication networks — backbone, backhaul, access (fixed & mobile — ...3G, 4G, 5G, ...)—circuit/real time protocol & packet/internet protocol.

# TEKNOLOGI TIK/ICT

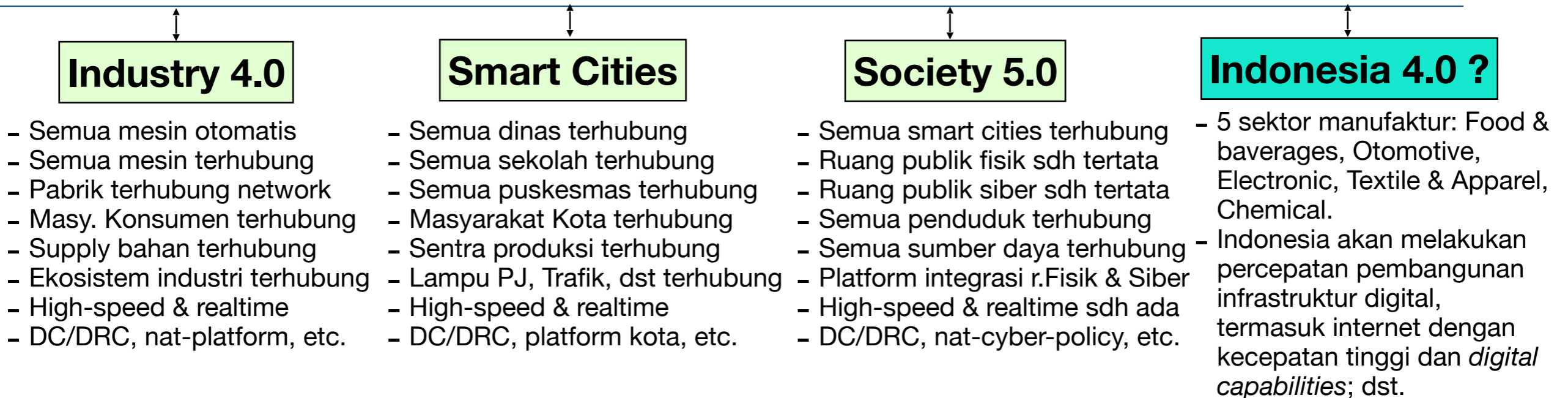
Teknologi terus Maju



Bisa apa

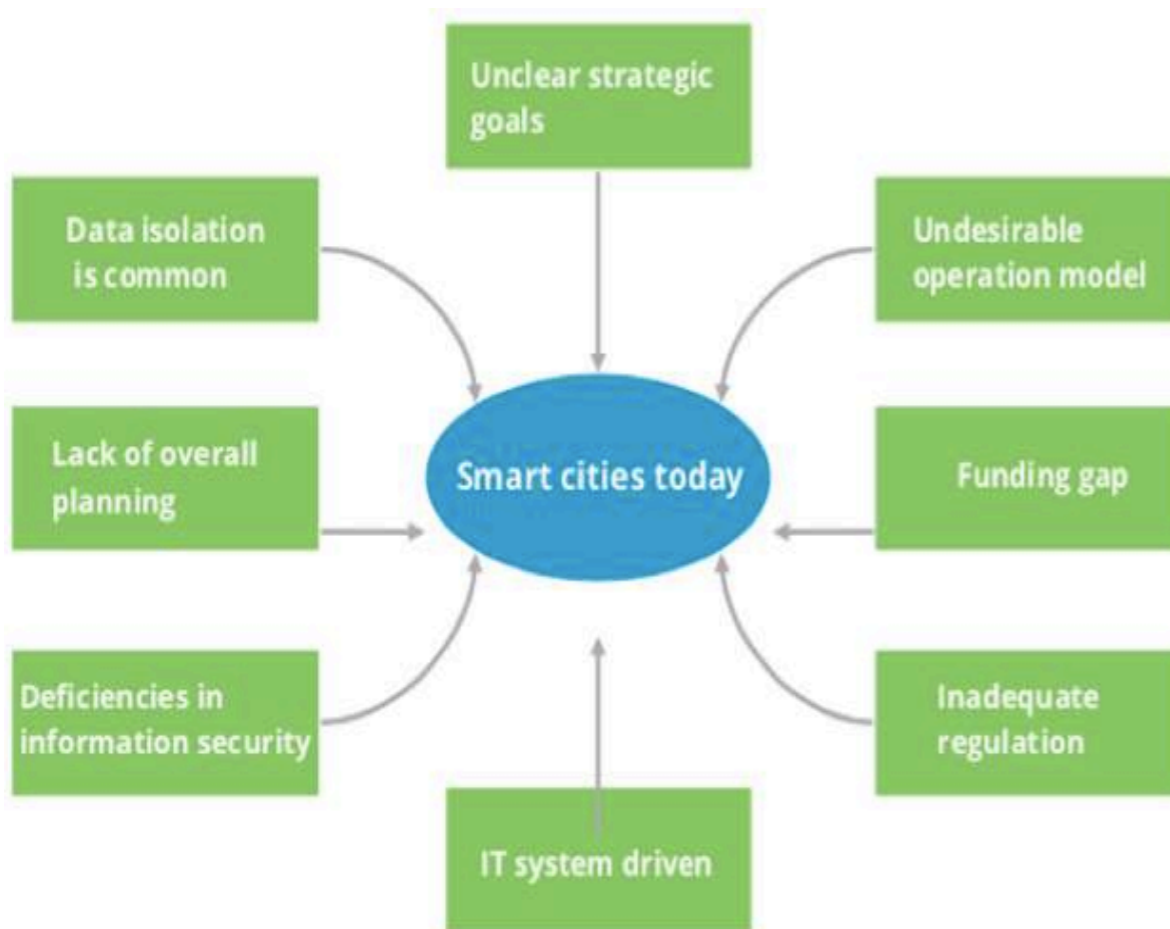
- ▶ **Dengan teknologi ICT/TIK (telekomunikasi & internet)** — all thing **could be** connected (:people, things, data, process) — *internet of things (IoT)* dan *internet of everything (IoE)*.
- ▶ **Billions connections** — Collecting Data — **Big Data** — Data Analytic — info & knowledge (tren & perilaku) — inter-process connected & communicated — **Artificial Intelligent (AI)** — **could be** autonomous smart systems for Cities, Industries, or People/Public Services, and Nations policy & decision making.

Pemanfaatan



# Smart City —> Super Smart City

Most of the "smart" cities **today are not truly "smart"** in one sense. From the perspective of multiple dimensions including strategy, design, construction, operation and maintenance, there are a number of deficiencies to prevent a city from unleashing the value and potential it would truly gain after the smart transformation.



- 1 Real time
- 2 Popular
- 3 Open



- 4 Smart
- 5 Autonomous
- 6 Integrated

Source: Deloitte Research

Compared to traditional smart cities, new-style super smart cities cover six sectors going beyond the traditional construction of smart cities, making better use of AI and data, and relying more on smart decisions to reduce human intervention and enable different sectors to be more open and integrated.

1. Smart Mobility
2. Smart Economy
3. Smart Environment
4. Smart Living
5. Smart Education
6. Smart Safety

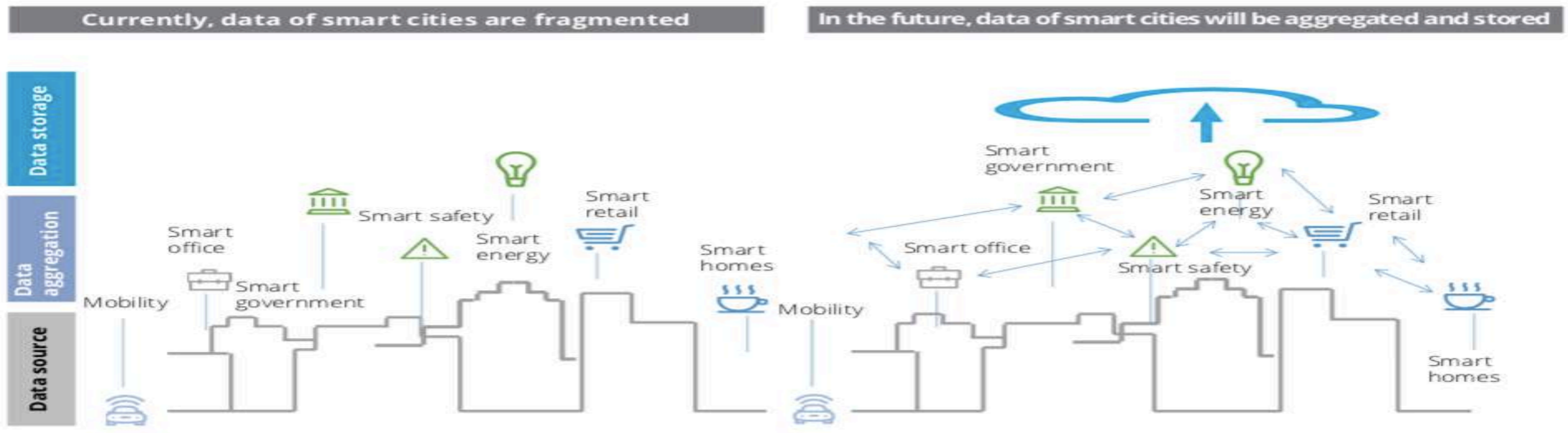


# Smart City – untuk Pemkot & Masyarakat Kota



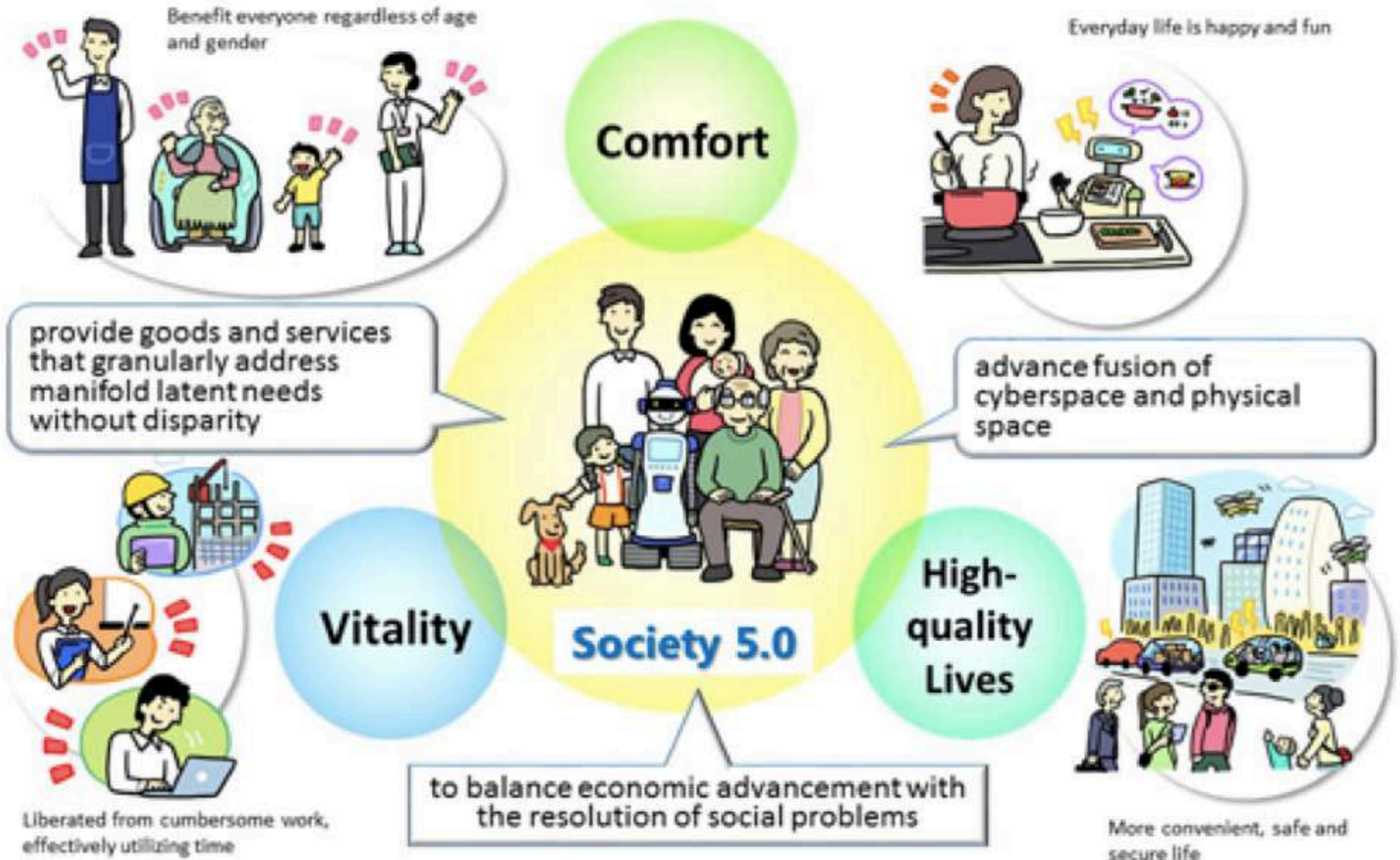
Source: Deloitte Research

Data of the sectors in the current construction of smart cities are fragmented, but technological and policy advances will break down data isolation and promote data integration in the future.





# Goals dari Konsep Society 5.0





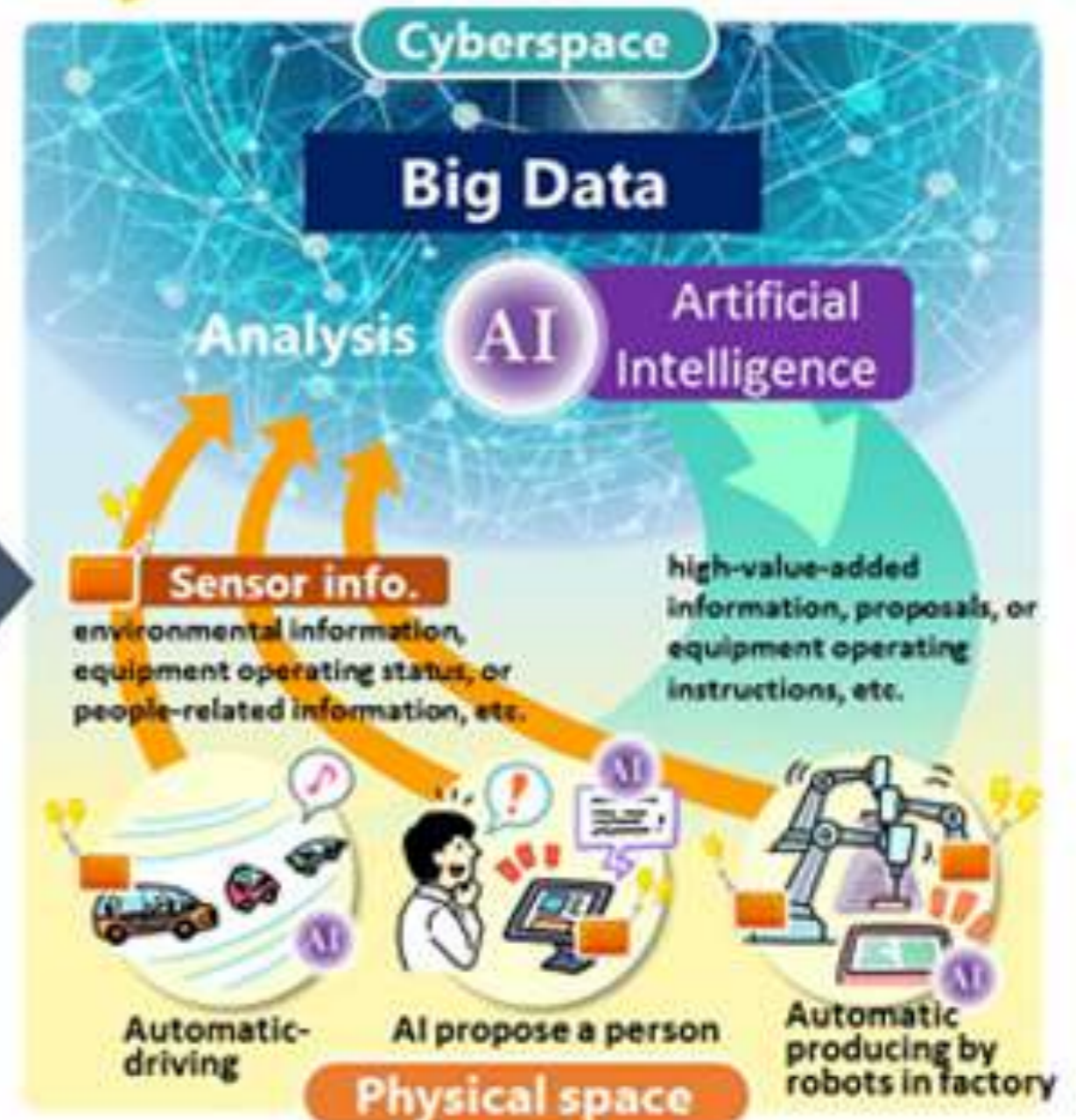
# dari Society 4.0 ke Society 5.0

Current information society (4.0)



[source: CAO, Japan]

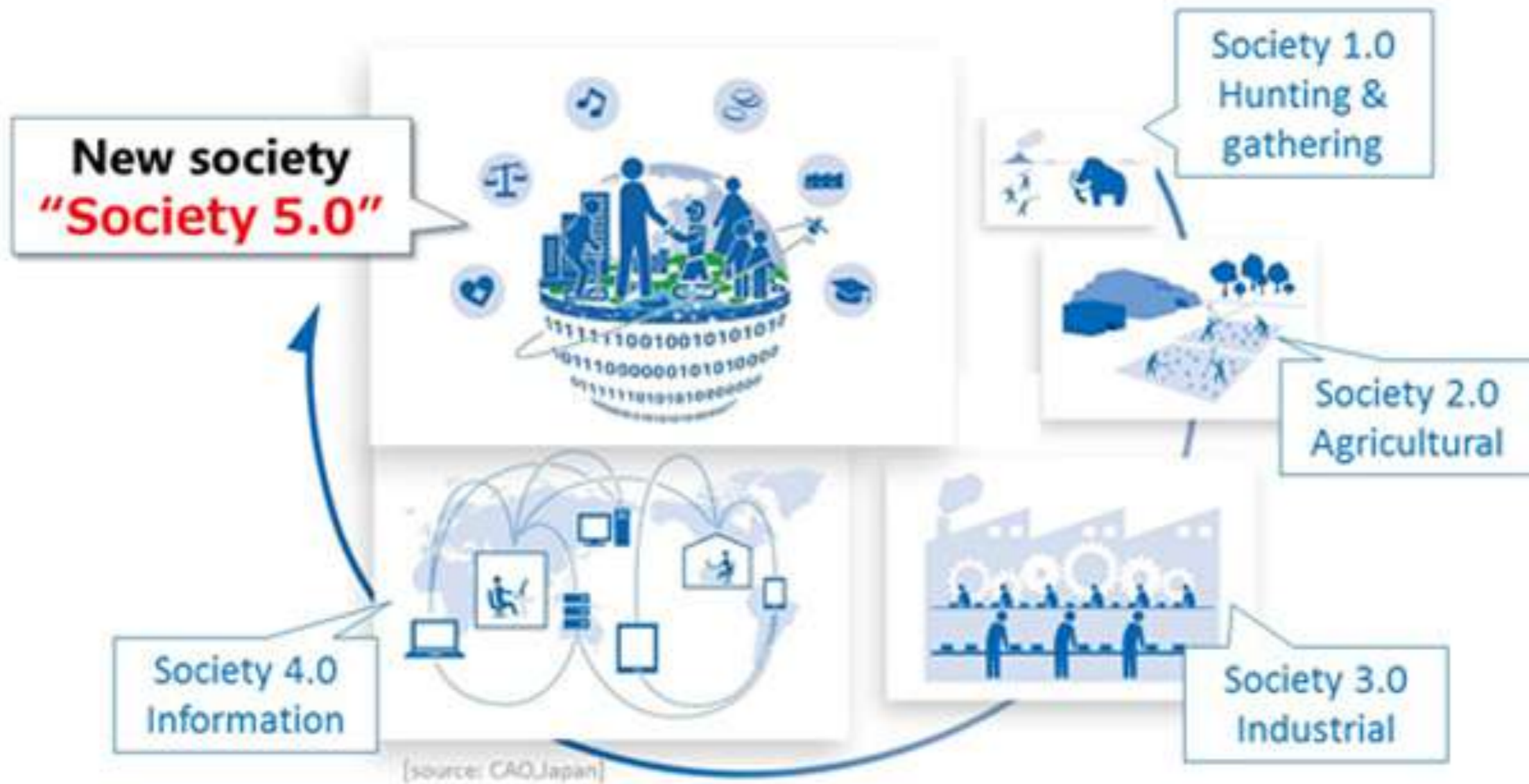
Society 5.0



Kecerdasan Buatan (AI) dalam mengolah Big Data dimaksimalkan untuk memberikan Pelayanan dan Kenyamanan Masyarakat dalam menjalani Kehidupan sehari-hari.



# Society 5.0 – Super Smart Society

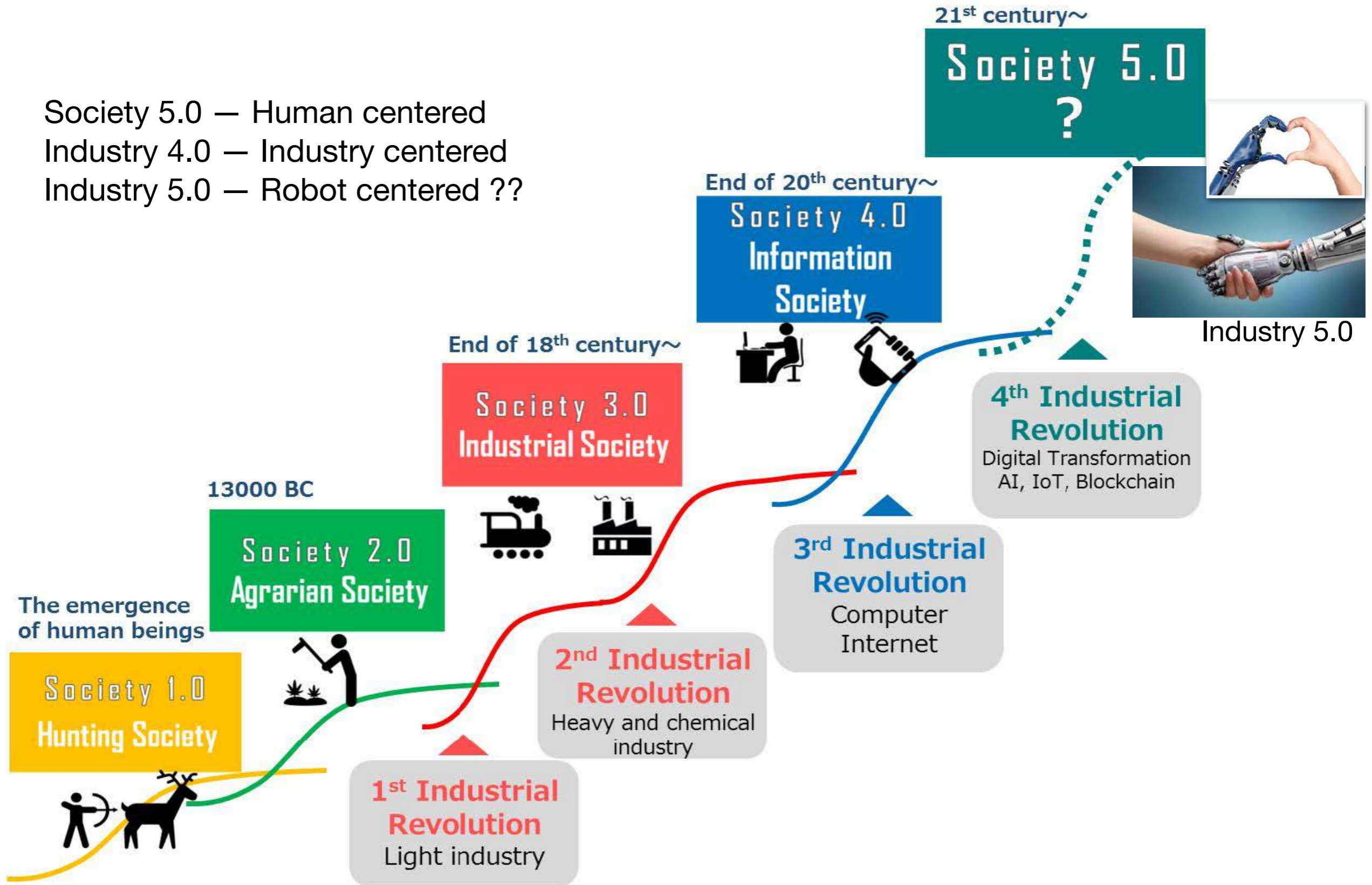


"A **human-centered** society that **balances economic advancement** with the **resolution of social problems** by a system that highly integrates **cyberspace** and **physical space**."



# Industry 4.0 & Society 5.0

Society 5.0 – Human centered  
Industry 4.0 – Industry centered  
Industry 5.0 – Robot centered ??



Source: [Keidanren Society 5.0 Co-Creating the Future 2018](#)

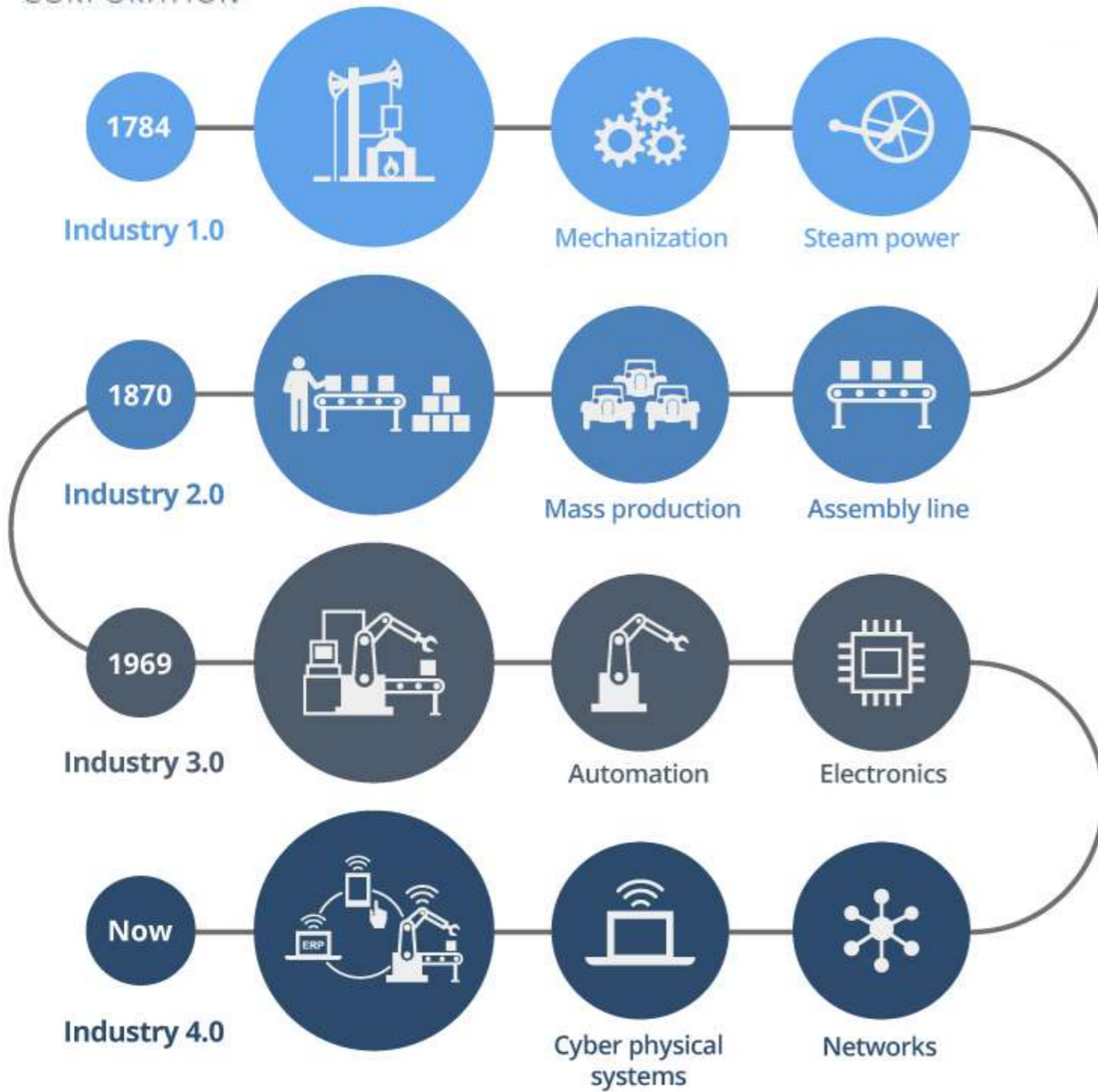
# Kesamaan MOTIVASI : Pemanfaatan Teknologi

- **Industri 4.0** — perspektif Industri Nasional & Global FreeTrade (global single market & global single sistem ?) — sejatinya adalah **Smart Manufacturing – globally**. Kepentingan industrialisasi — *industry centered* memanfaatkan teknologi TIK/ICT.
- **Smart City** — perspektif Kota (kepentingan Pemkot dan Masyarakat Kota) Kepentingan Kota — *City Centered* — kepentingan bersama Pemkot, warga kota, dan dunia usaha/industri kota, memanfaatkan teknologi TIK/ICT.
- **Society 5.0** — perspektif Negara Jepang untuk Masyarakatnya. *Human-Centered-Society* yang **menyeimbangkan** antara kemajuan ekonomi dengan penyelesaian masalah sosial menggunakan suatu sistem yang **memadukan** antara **kehidupan-siber** dan **kehidupan-fisik**/tatap muka — teknologi TIK/ICT untuk peningkatan ekonomi dan sosial masyarakat.
- **Indonesia 4.0** — perspektif Pemerintah Indonesia (menumpang momentum) Motivasi dalam dokumen : meningkatkan ekspor dengan memperbaiki 5 (lima) sektor manufaktur, yaitu Food & Beverage, Textile & Apparel, Otomotive, Electronic, Kimia. **belum menampilkan strategi pemanfaatan teknologi TIK/ICT.**

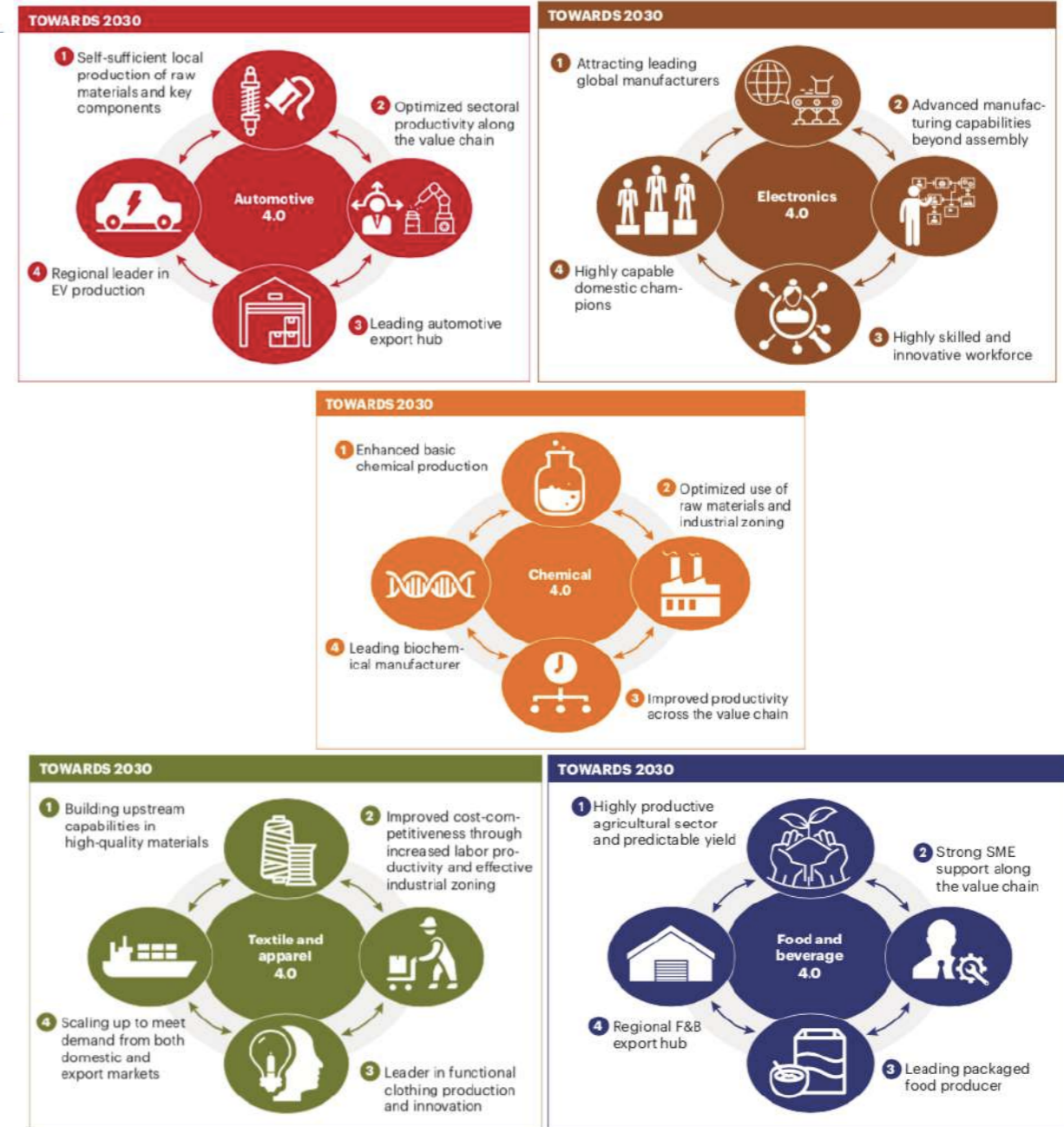


# Industry 4.0 & Indonesia 4.0

**SIMUL8**  
CORPORATION



**EVOLUSI Pemanfaatan TEKNOLOGI menuju Industri 4.0**



**Masih berupa Daftar Cita-Cita & harapan Indonesia 4.0**

# **Terimakasih**

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