
Industrial revolution by IT evolution

November 17, 2015

Japan OSS Promotion Forum
Chairman, Masatoshi YOSHIDA

(Fujitsu, Senior Vice President Software Technology Unit)



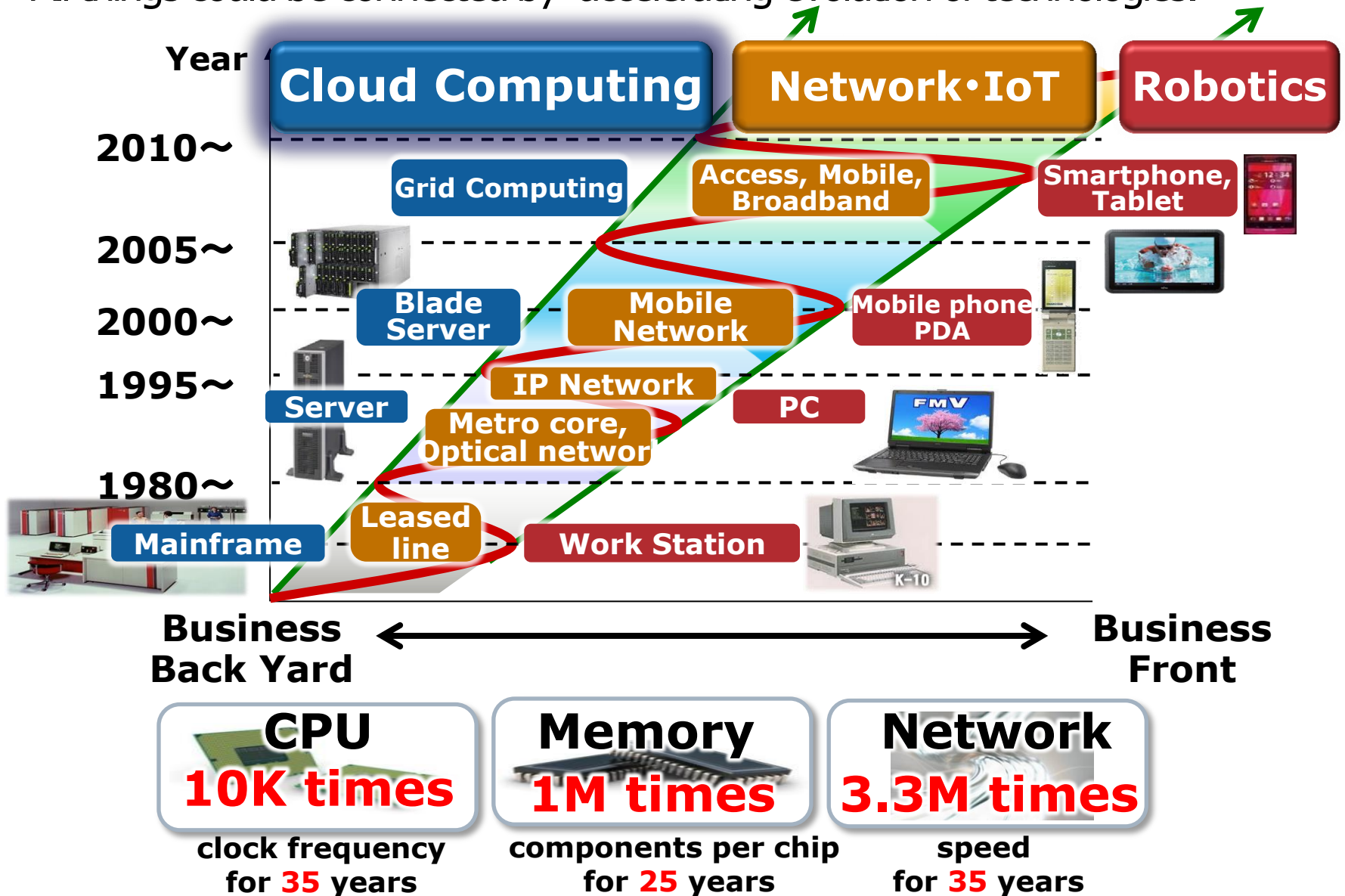
1.IT evolution

2. Industrial Revolution

3. Japan OSS Promotion Forum

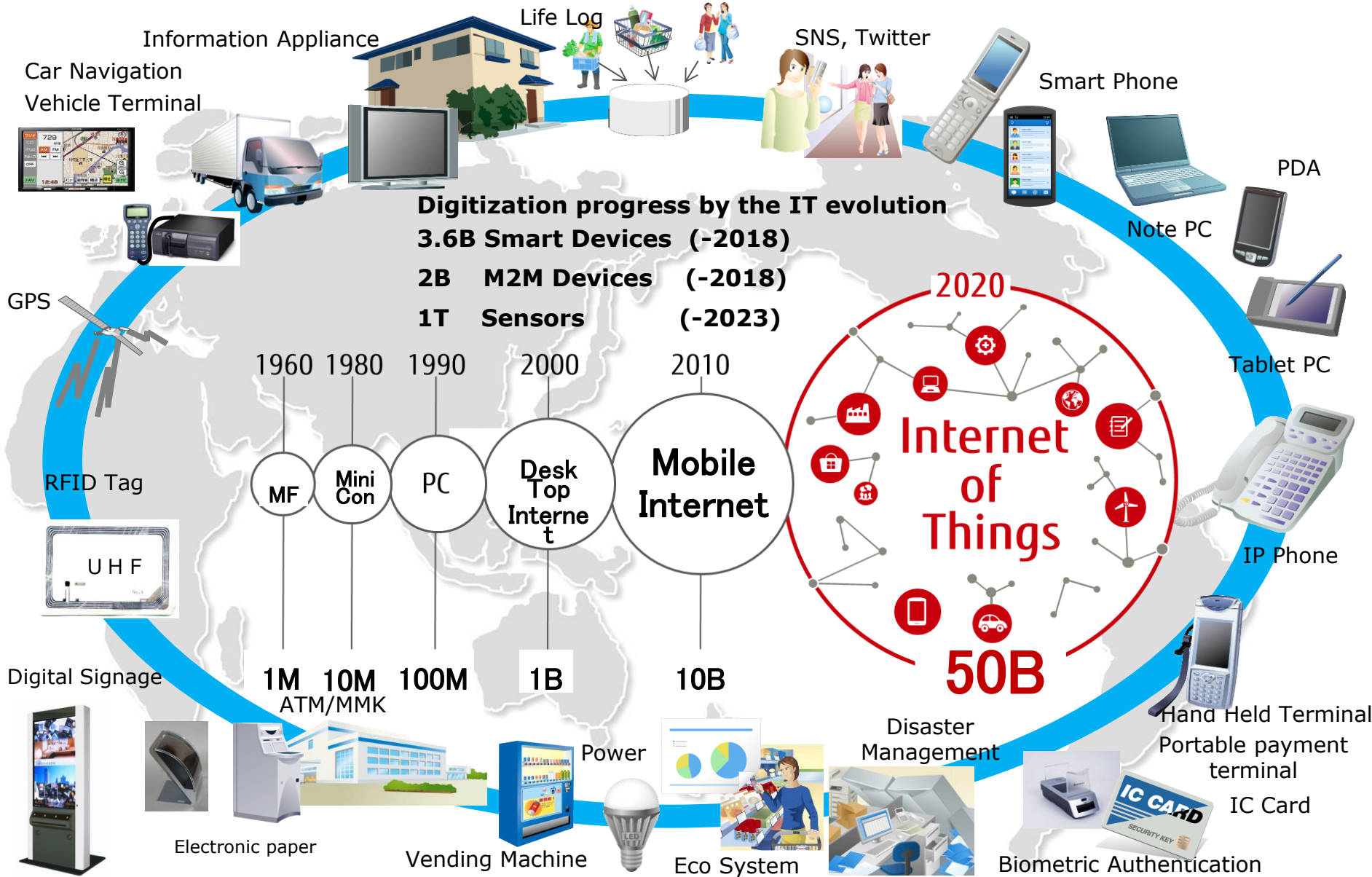
IT evolution

- All things could be connected by accelerating evolution of technologies.



IT evolution

- The impossible becomes the possible with the power of ICT.



- ❑ The dramatic changes in the IT environment moves the industry
 - ✓ DELL Acquires EMC. HP turns into two companies.
 - ✓ Different industries entry.
(Ex. Google and Apple have entered the automotive industry)
- ❑ A new innovation, is achieved in open innovation
 - ✓ Many companies entered the OpenStack development for Open Innovation.
(Platinum=8,Gold=18,Corporate=126 at Nov. 4)



OpenStack Summit Tokyo 2015



OpenStack Foundation Board of Directors
Chairman Mr. Alan Clark in board meeting

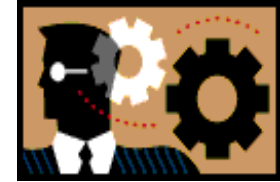
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Industrial Revolution

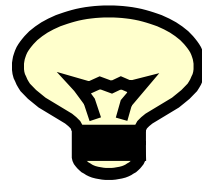
- ❑ 4th Industrial Revolution will come soon.
- ❑ Cyber-Physical Systems & IoT promote new revolution.



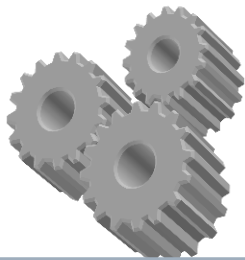
4th Industrial Revolution
The autonomous
by IoT & AI
21 century ~



3rd Industrial Revolution
Automated by IT
20 century ~



2nd Industrial Revolution
The mass production
by electric power
19th century ~



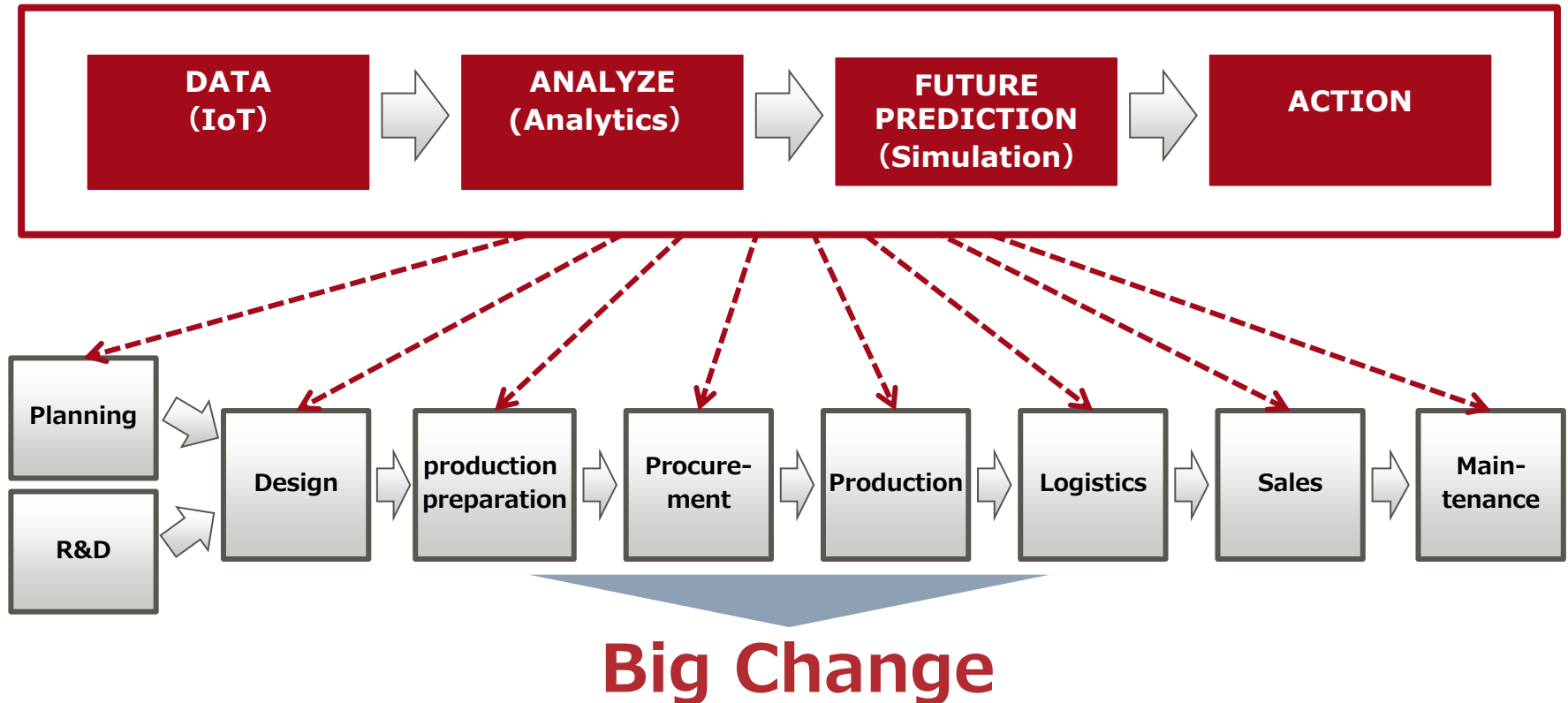
1st Industrial Revolution
The industrialization
by steam power
18 century ~

Industrial Revolution

Smart Factory

Industry4.0 IIC

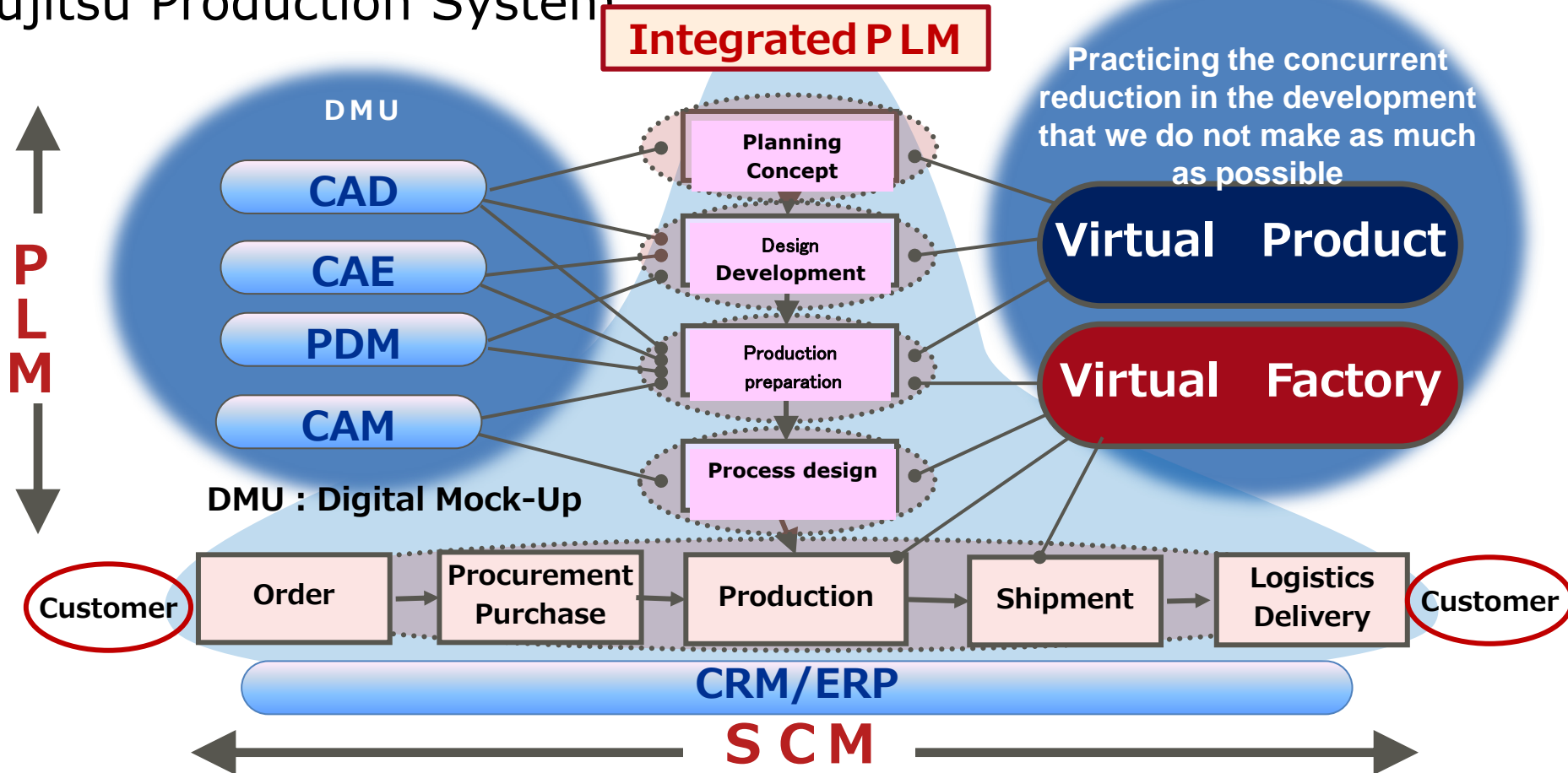
- ❑ IoT accelerates the digitization of the factory.
- ❑ IoT collects the data and Analysis system analyzes the data and Simulation is to predict the future.
- ❑ Big changes began in all of the Manufacturing and SCM.



Industrial Revolution

- Integrated PLM is to strengthen the production cooperation and the planning capabilities and development capabilities.

Fujitsu Production System



Embedding advanced ICT in the whole area of manufacturing
Collaborating and integrating PLM and SCM
Aggregating the knowledge of the field in-house

1. evolution

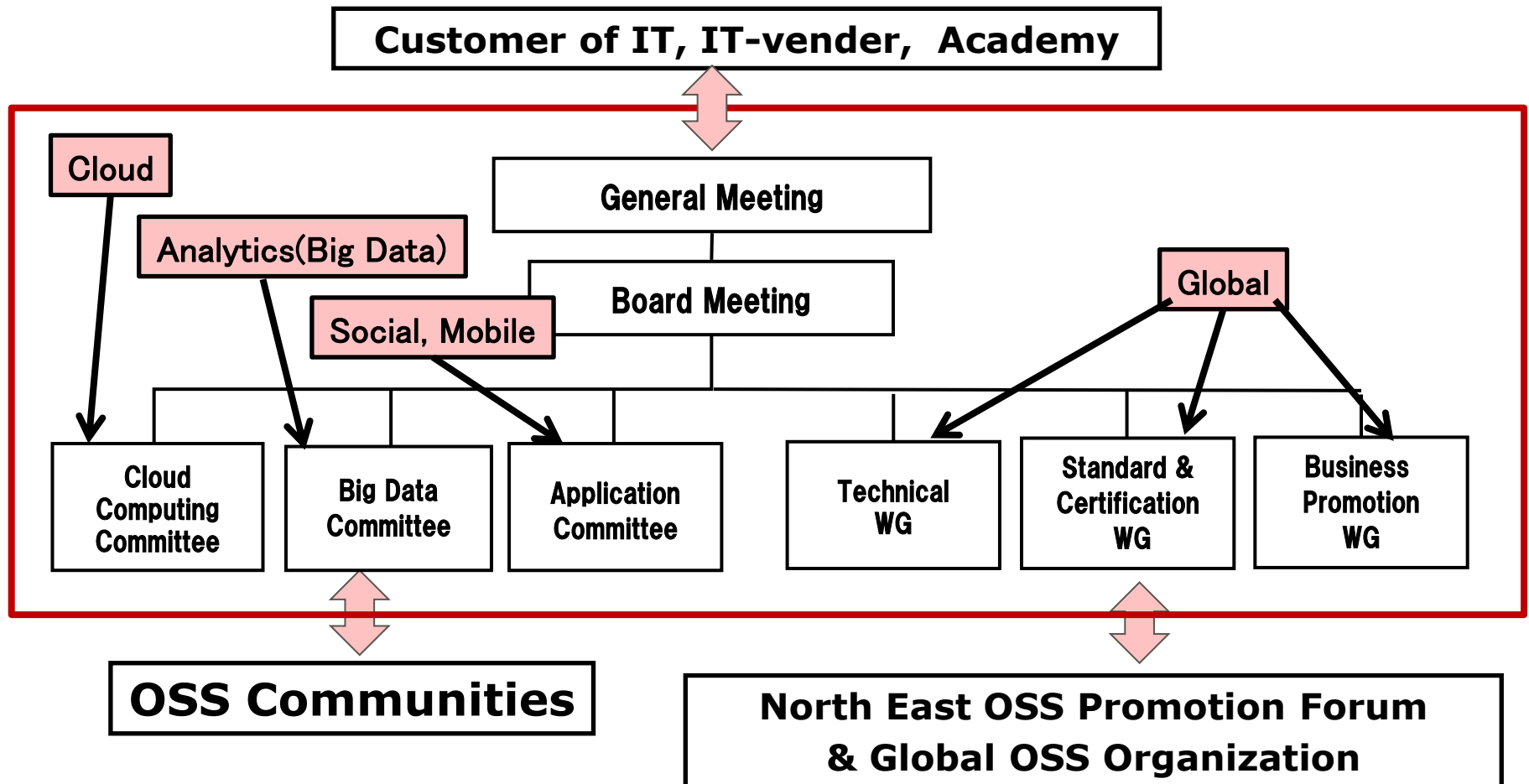
2. Industrial Revolution

**3. Japan OSS Promotion
Forum(JOPF)**

Policy and Structure of JOPF

■ Our current activities

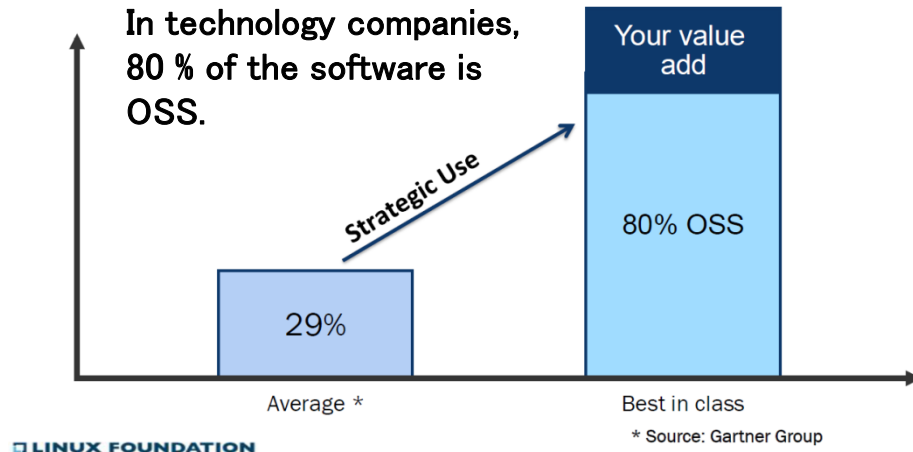
- ✓ 3 committees are organized to study SMAC (Social, Mobile, Analytics, Cloud) and IoT.
- ✓ 3 WG are organized to study global activities.



- Japan OSS promotion Forum “OSS Symposium 2015” Keynote
“The role of open source in global competitiveness”

The Linux Foundation Executive Director Mr. Jim Zemlin

- ✓ OSS is used in new technologic area. (IoT, Auto Mobile)
 - 80 percent of the software in any Tesla car is open source.
 - 85 percent of the software in any GoPro Camera is open source.
- ✓ In the figure below, HW is commoditized and SW is also commoditized by OSS, so discrimination region is small.
 - For example, if 80% of the innovation is to use the results of external R & D, external R & D use strategy is important
- ✓ MS declared “Loves Linux” and now MS is one of the companies that actively contribute to the OSS.



Microsoft Loves Linux says Satya Nadella

Thank you very much

谢谢

감사합니다

ありがとうございました