

The 15th ITS Asia-Pacific Conference (ITS Bangkok 2019)
[Plenary Session: 5G, IOT and AI for Building a Sustainable Society]

Do more AIs imply greater sustainability of economy and society?

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1. Relationship between 5G and AIs

AI	A planet to go
Machine learning	A rocket to the planet
Big data	Fuel for the rocket
5G	A launch pad for the rocket

2. Demand for 5G

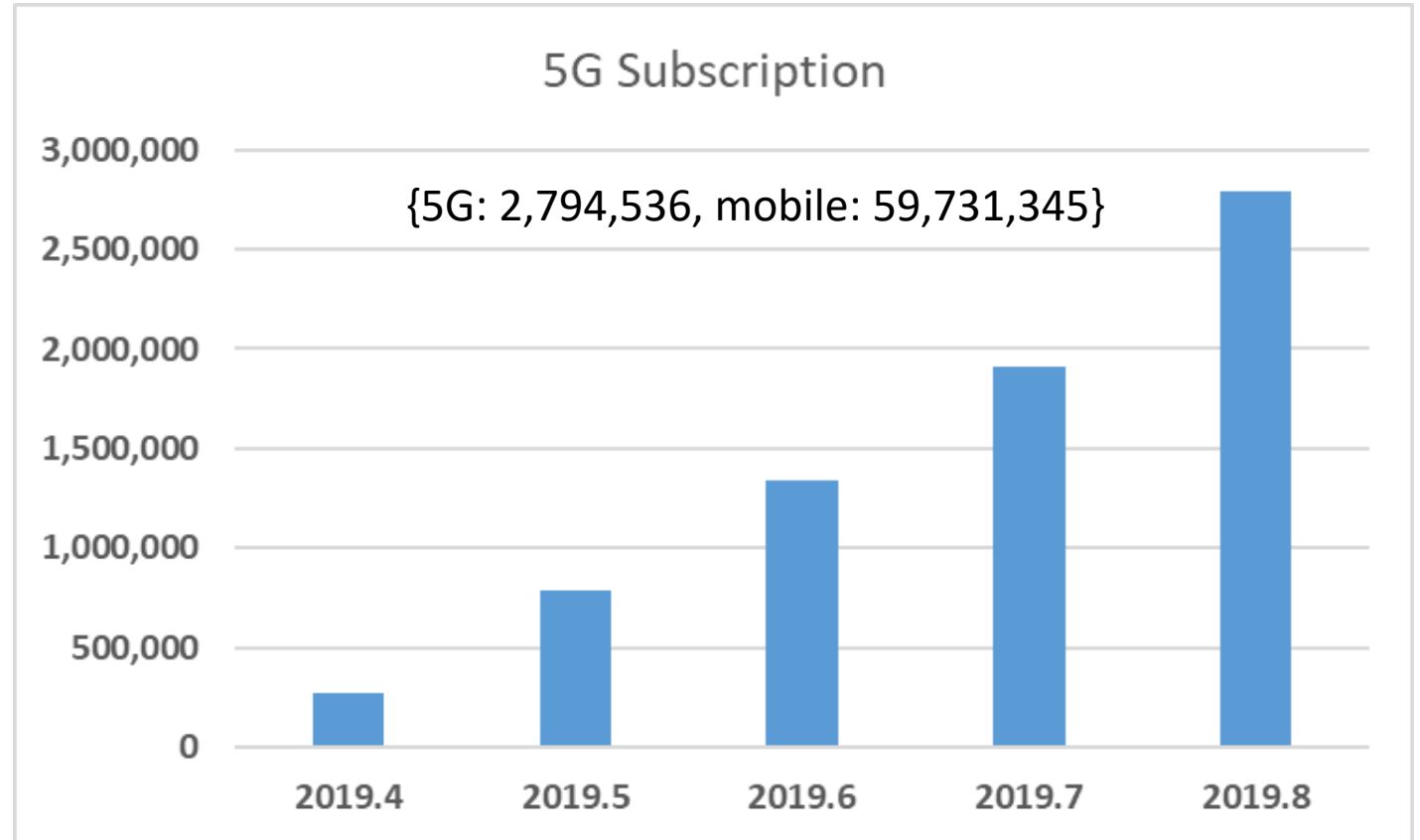
Networks have been **derived demand!**

What will lead **the growth of network traffics?**

Sensor networks connecting all things and beings!

3. 5G subscription in Korea

4.7% of total mobile subscription as of August 2019.



4. Demand for 5G

Industrial use of 5G!

What will lead **the growth of industrial use of 5G?**

Artificial Intelligence Services!

5. More AIs mean greater sustainability?

Yes!

1. Greater productivity! Especially, combined with population.
2. Less use of natural resources! Less CO₂!
3. Creative solutions for environmental protection

5. More AIs mean greater sustainability?

Nay!

1. Reduced jobs and increased income inequality
2. Panopticon society: reduced privacy and individual autonomy
3. AI reinforces unbalance in international political economy