

# 우리나라 과학기술의 미래

Korea Institute of Science and Technology

**KIL-CHOO MOON**

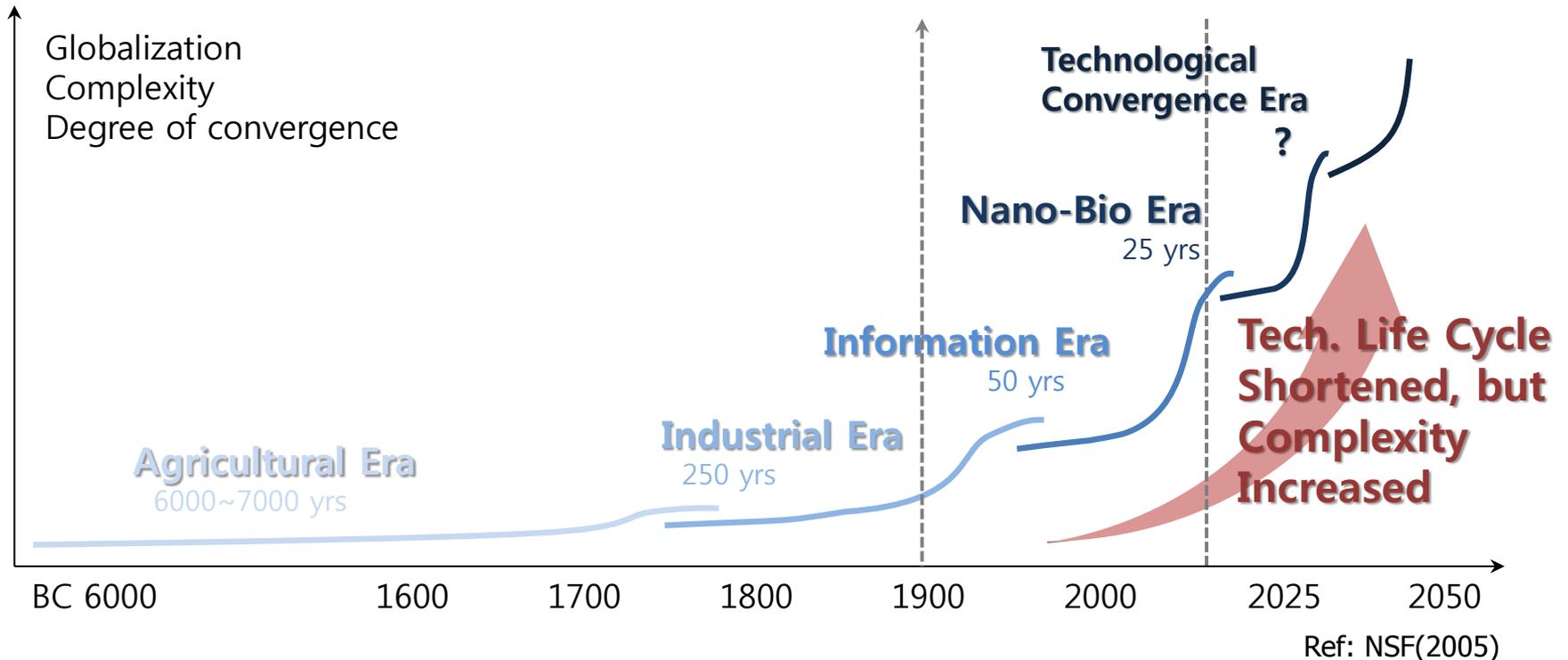
March, 2013



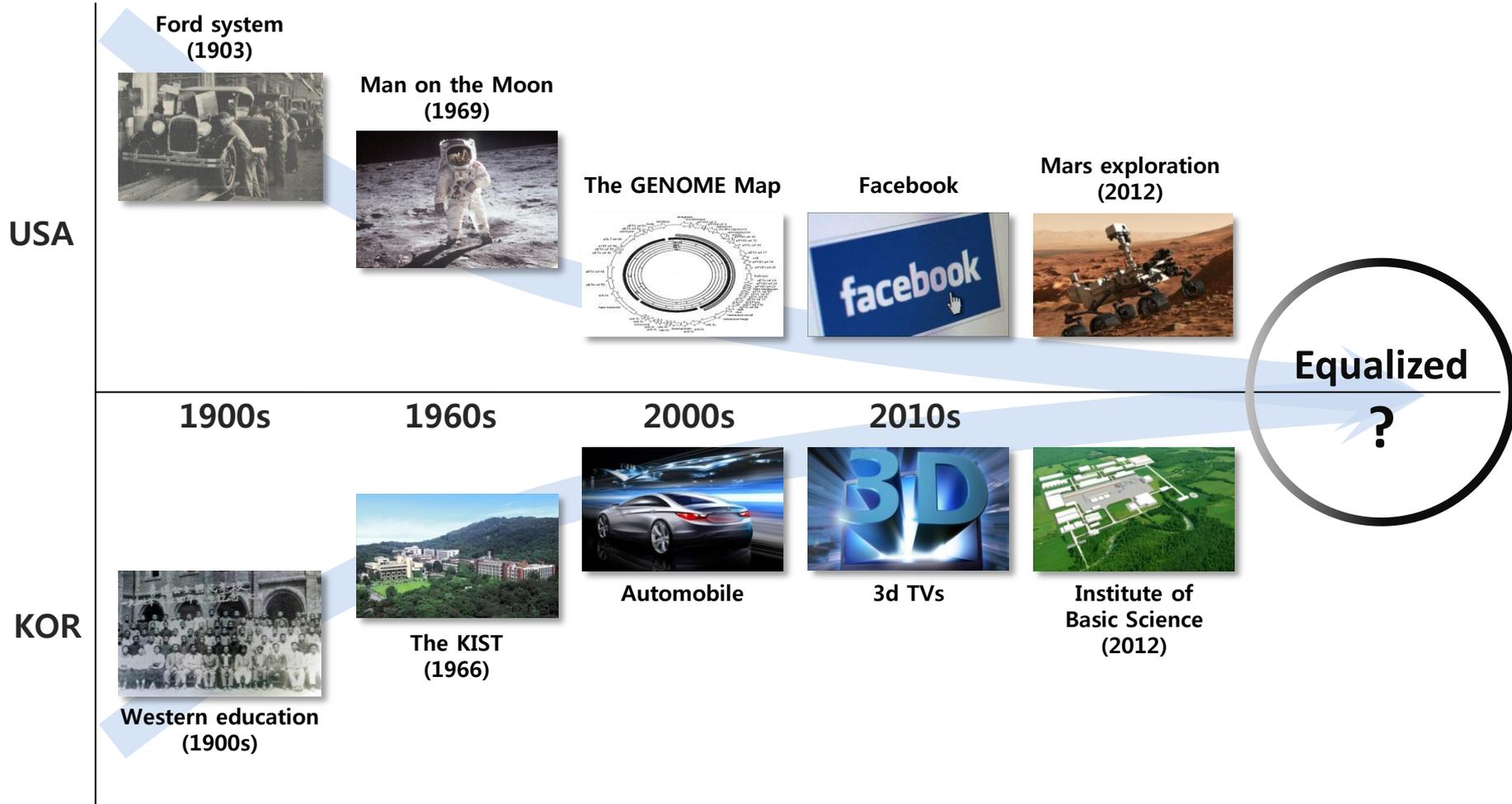
April 21, 2012, The Economist

# Technology foresight

- Not only to identify “**technologies**” but also to foresee broad “**socio-economic trends**”, inclusive of the **environment, science, art, culture**.



# Past, today – Korea & USA



# 무엇을 할 것인가?

Wikipedia : 融合

- Convergence (기술)
  - the tendency for different **technological** systems to evolve toward performing similar tasks
- Multidisciplinary (지식)
  - **knowledge** associated with more than one existing academic discipline or profession
- Fusion (실체)
  - the process of combining two or more distinct **entities** into a new whole

# Future Mega Trend

- Mega trend is changing
- From Food, Resource, Population
- To Super aging, Energy/Environment, Urbanization

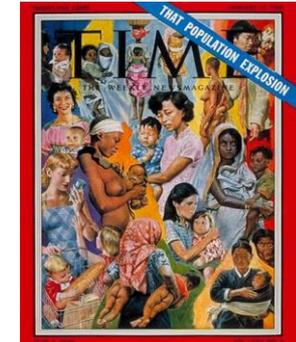
Food



Resource



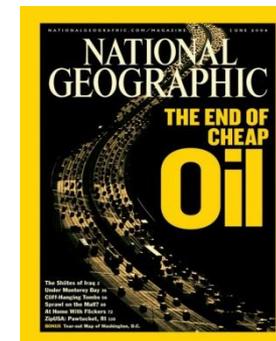
Population



Super aging

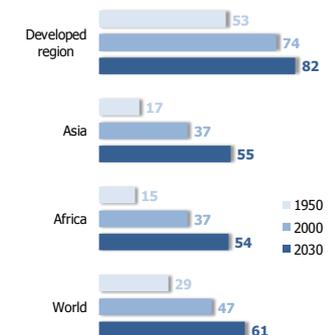


Energy / Environment



Urbanization

- Urban population (%)



# Future growth engine

Super aging

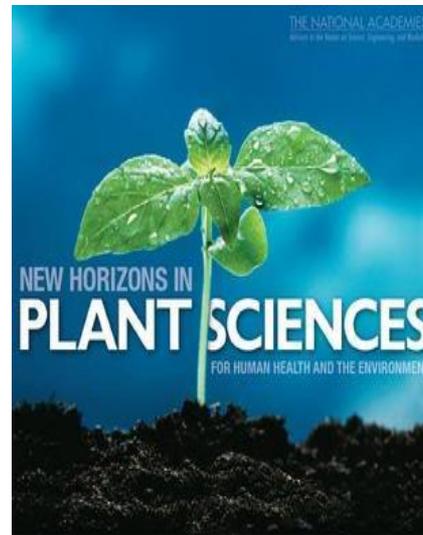
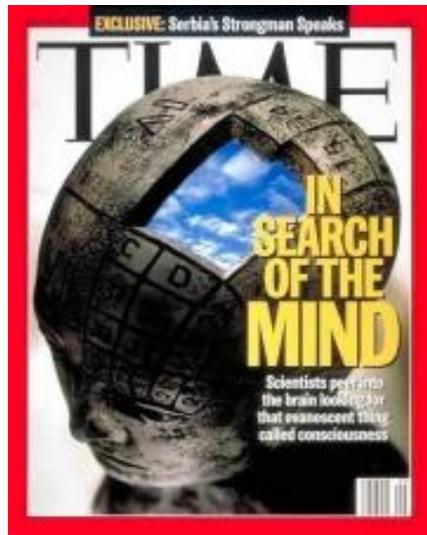
Energy /  
Environment

Urbanization

Brain

Plant Science

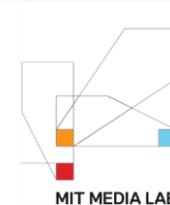
Soft technology



- Future web
- Cultural technology
- Forecasting

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Program in Ethics, Politics and Economics





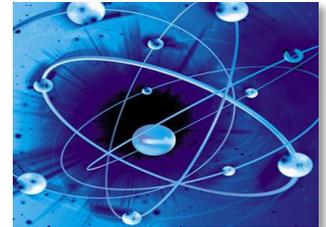
# Creativity breeds in **Fundamentals**

- “Crime breeds in **Poverty**”
- “Happiness breeds in **Relationship**”
- What are **the fundamentals** in 21C?

Math



Physics



History



Reading/Writing



English



Physical



# Conclusion

- We need a 3-dimensional or even 4-dimensional approach to create new science and future (신성장산업)(창조경제)

