



MegaTrend and AI

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Content

- Megatrend
- Why Did they lose

Lecture Schedule

Month	Date	Category	Topic	Remark
		Overview	Introduction and Megatrend Korea innovation Project assignment and description	
		Human Knowledge Representation (KR) and AI	Knowledge representation and AI Human being's mind and AI AI introduction Thinking, Knowledge, and Language KR type and Implementation AI basic theory and Application	
		KR and AI	NN-DL-CNN	
		AI type	DCGAN-RNN-RCNN-FASTER	
		AI Reasoning	KR and reasoning Logic reasoning Fuzzy reasoning of KR Bayesian reasoning of KR Neural network learning of KR	

Lecture Schedule

Month	Date	Category	Topic	Remark
		AI Learning	Self-supervised learning and GAN	If there is time
			Neural network learning of KR	
			Neural network learning of KR	
			GAN learning of KR	
			GRU and LSTM	
			RCNN and Others	
		AI application	Functions of Learning	
			Robot and AI	
		AI application	Robot and AI	
			Smart education and AI	
			Smart farm and AI	
		Data	Smart grid/City and AI	
			Data Basic	
			Data and AI	
		Knowledge Graph	Labeling and Preprocessing	
			Knowledge graph introduction	
			Knowledge graph building	
			Knowledge graph example in industry	
		Project	Knowledge graph practice	
			Project explain	
			Project explain	
			Project explain	

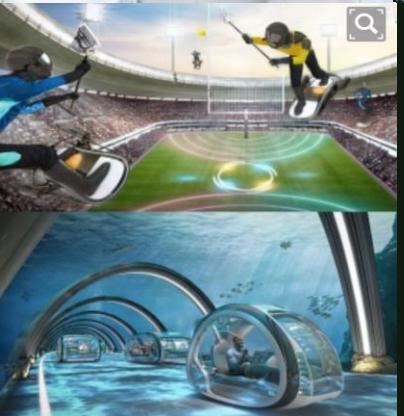
A photograph of a person running on a paved road. In the background, there are three large, curved, metallic structures that resemble cooling towers or industrial chimneys. The sky is blue with some white clouds. The person is wearing a backpack and appears to be in motion.

Mega Trend and Future?

The Future Society Made by ChatGPT

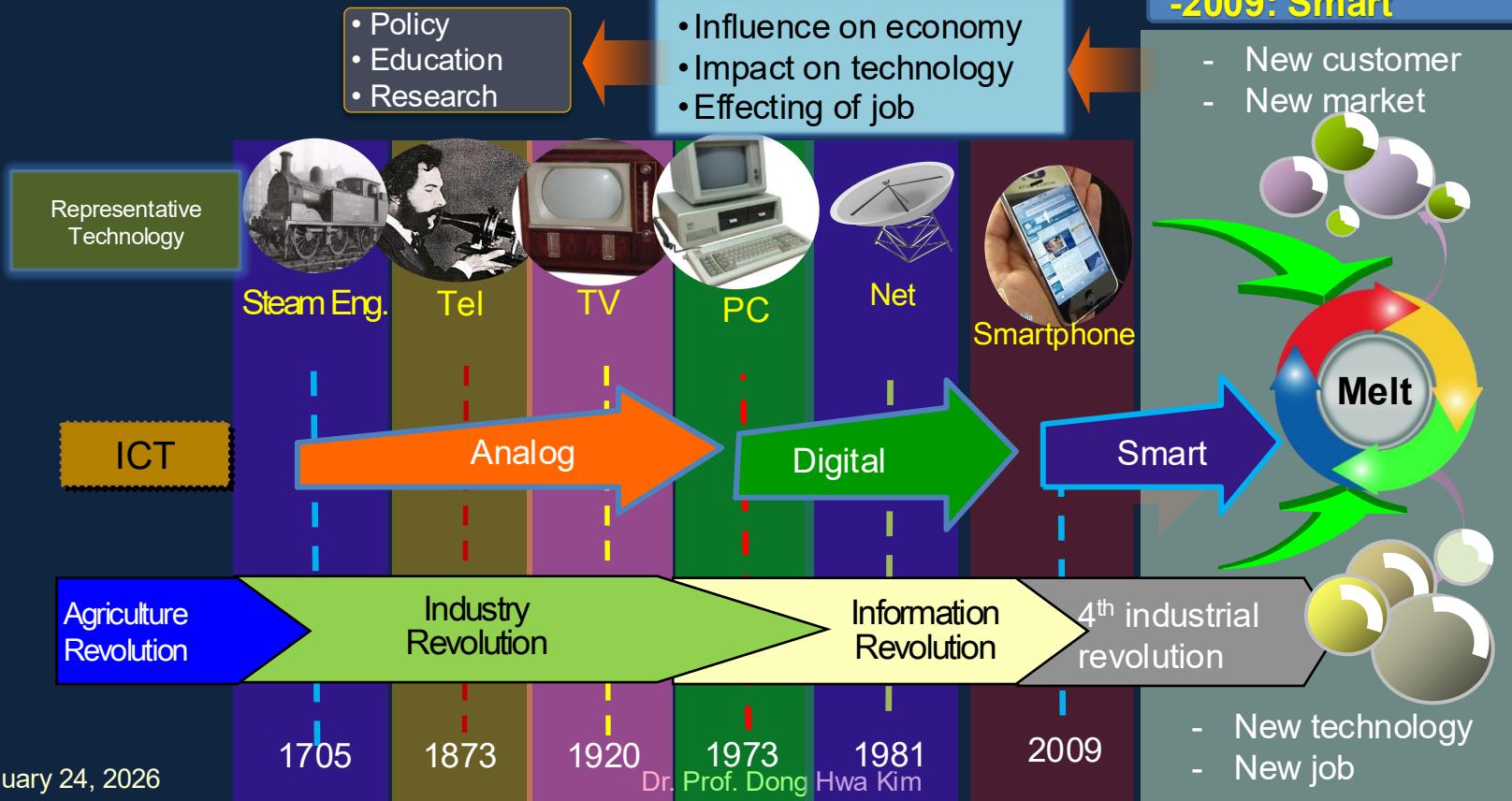


Prompt: AI+Future society+ ROBOT



HISTORY OF INDUSTRIAL REVOLUTION ON LIFE

Korea vs. EU



Megatrend

H/W



H/W Based Film



H/W Based Music



Machine by themself

S/W



SW Based Photo



Download SW Based Music



Product by Expert



Window/
Desktop

Platform



AI 기반



Network



Human robot



모바일

Mega-trend

Technology trend

(H/W)



Film
(H/W)

Tape
(H/W)



Self
Nonexperts

(S/W)



S/W

Download
(S/W)

Expert/Mas
s product

Desktop

Platform

Network Topology



ROBOT OR HUMAN?
YOU TELL THE DIFFER

Mobile

Human based recognition



Robot based work



Human based work



AI based work/Creation

Human being Society AI



Step 1: Now

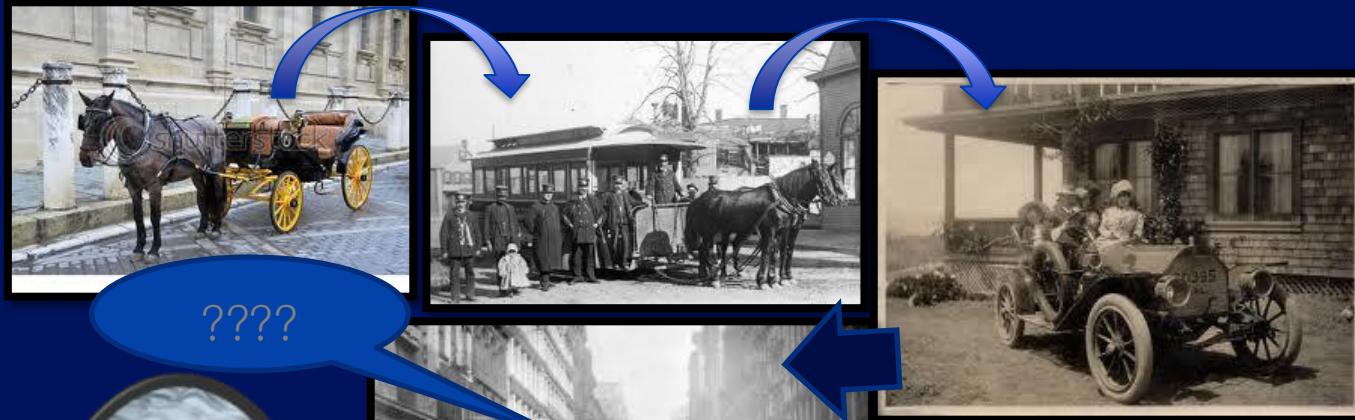
Step 2: Helper

Step 3: Self and Human

Dr. Dong Hwa Kim

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Learn of History



Why did they lose?



sears



Oct. 18, 2018, Sears



Why did Sears Crashed



Richard Sears begins selling watches in Minneapolis

1886

First catalog released



1888

• Stays in business:
Sears largest creditor **Chairman Eddie Lampert**'s bid - valued at more than \$5 billion - prevails over competing proposals from liquidators



July 15, 2018

Closes last store in Chicago

Jan. 16, 2019



How did Walmart Recovered?



Sam Walton opens the first Walmart store in Rogers, Arkansas



Doug McMillon succeeds Mike Duke as CEO.

July 2, 1962

1994

2013

2014-present



Walmart expands into Canada with the purchase of 122 Woolco stores.



John Furner: Walmart launches free two-day shipping on more than 2 million items, no membership required.



They missed

(Sony, Sahan, Iriver, Smartphone)

- Compact
- Pocket

- Internet
- S/W

- Download
- Simple function

- Multi Function



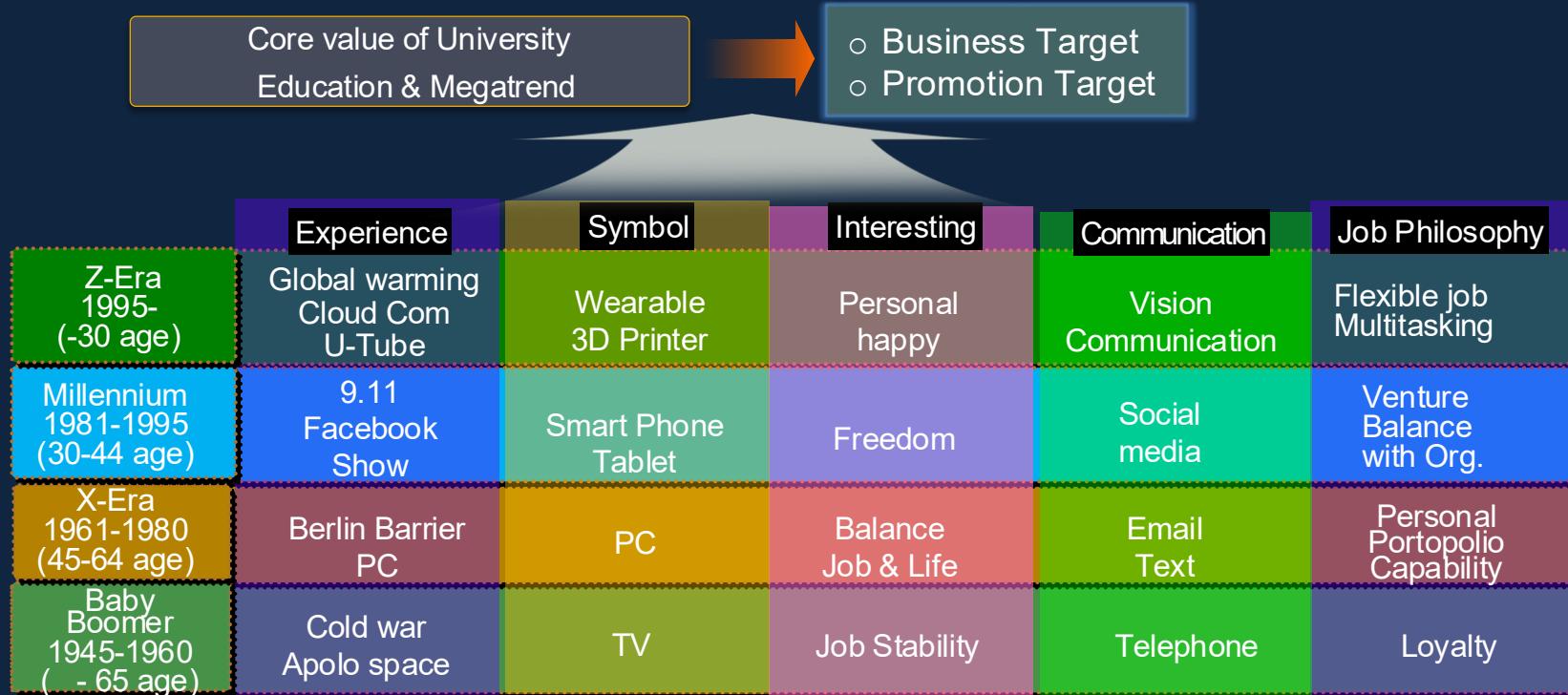
- 1979
- Walkman(Sony, TPS-L2)
- 220 Mil set

- 3. 1998
- MP3:
- Saehan(Korea)

- Iriver, Appl
- Sony
- Walkman/MP3P
- Samsung, YEPP
- 2005

- Samsung
- I-phone

Pattern of ages



Nokia and Samsung

Missing on time

Ground wood pulp mill



Founder of Nokia (1865)

DX 200: Telephone exchanger



Nokia was one of the key developers of GSM (Global System for Mobile Communications)



First electronic device in 1962

The Nokia N8

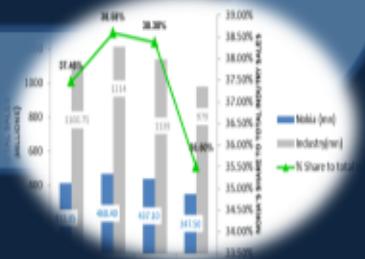
Sept. 2, 2013: 70Billion USD



Left : steve ballmer (MS)
Right: Stphen Elop (Nokia)

2009

Released:
September 2010
Missing time



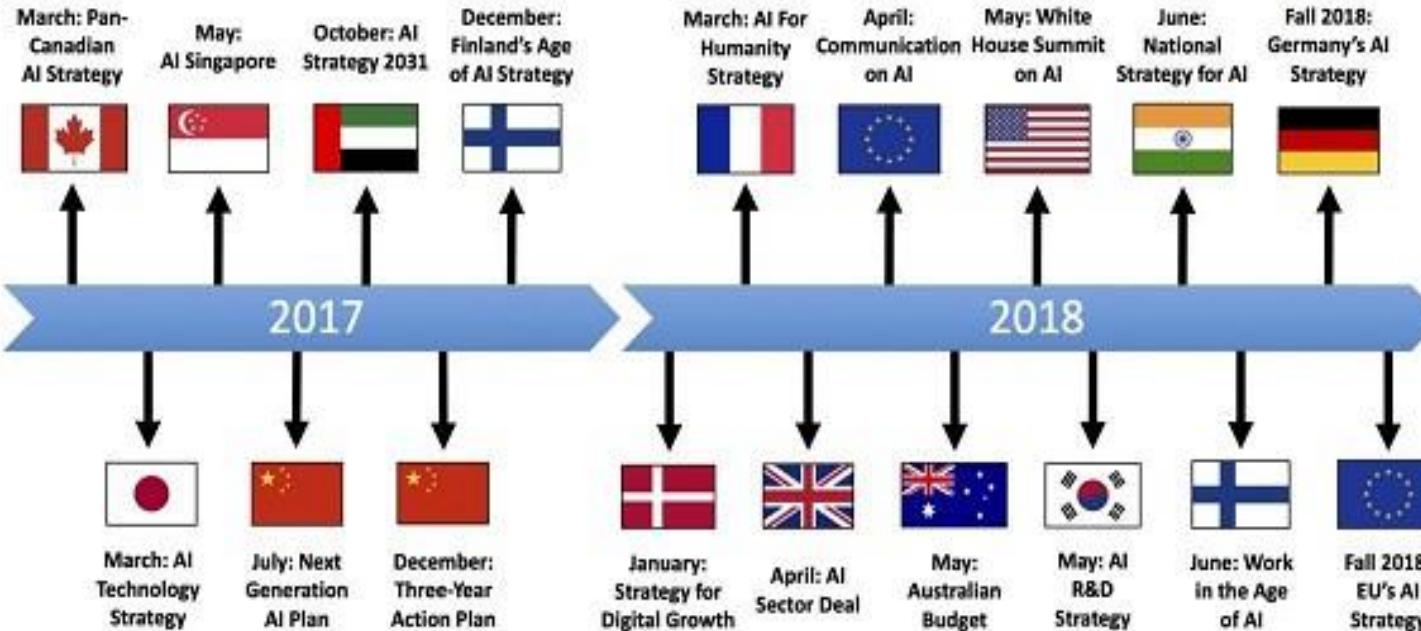
2008: 40%

POLICY AND GLOBAL COM. STATUS



NATIONAL AI POLICY

National Artificial Intelligence Strategies

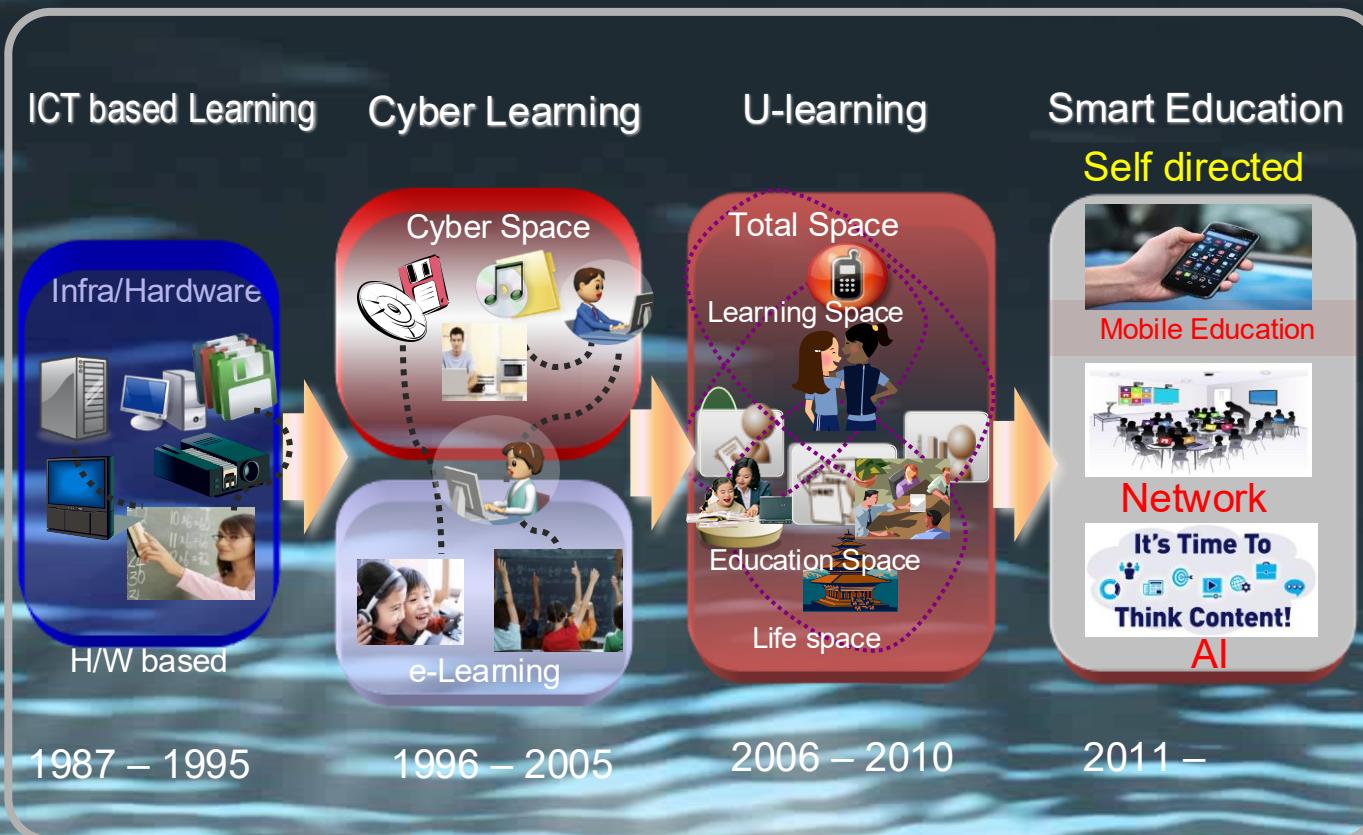


Country	Status	Date	
 Austria	In progress		
 Belgium	In progress		
 Bulgaria	Published	Dec. 2020	
 Croatia	In progress		
 Cyprus	Published Last update	Jan. 2020 Jun. 2020	
 Czech Republic	Published	May 2019	
 Denmark	Published	Mar. 2019	
 Estonia	Published	Jul. 2019	
 Finland	Published Last update	Oct. 2017 Nov. 2020	
 France	Published	Mar. 2018	
 Germany	Published Last update	Nov. 2018 Dec. 2020	
 Greece	In progress		
 Hungary	Published	Sept. 2020	
 Ireland	In progress		
 Italy	In progress		
 Latvia	Published	Feb. 2020	
 Lithuania	Published	Mar. 2019	
 Luxembourg	Published	May 2019	
 Malta	Published	Oct. 2019	
 Netherlands	Published	Oct. 2019	
 Norway ^{AC}	Published	Jan. 2020	
 Poland	Published	Dec. 2020	
 Portugal	Published	Jun. 2019	
 Romania	In progress		
 Slovakia	Published	Jul. 2019	
 Slovenia	Published	May 2021	
 Spain	Published	Dec. 2020	
 Sweden	Published	May 2018	

Source: JRC – European Commission

Note: Last update of the table on the 1st of June 2021. The information in the table is based on input from national contact points or public sources. It present release dates of national AI strategies in their native language. Countries in bold have published or updated their national AI strategy since the release of the [previous AI Watch report](#) in February 2020. In addition to EU Member States, this table also includes Norway as Associated Country highlighted with the superscript ^{AC}. Switzerland does not intend to release a national AI strategy.

EDUCATION MEGA TREND



Final Conclusion

- AI will cover all technology and human being life.
- If we lose, our economy and job will lose faster.
- Those who control AI will control the world.
- If you hesitate, you will be lost your chances in all.



- AI is not an option anymore.
- It's a matter of survival!
- Earlier is Better!!

Thanks!

