



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

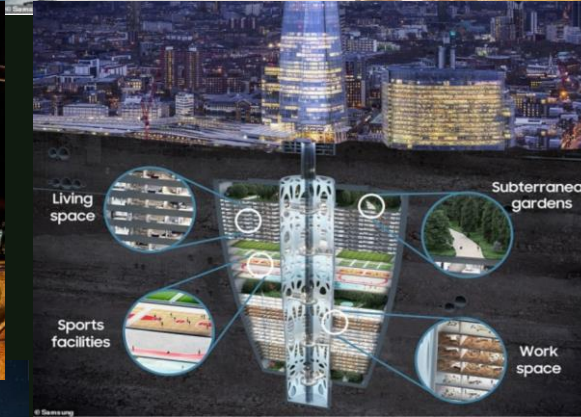
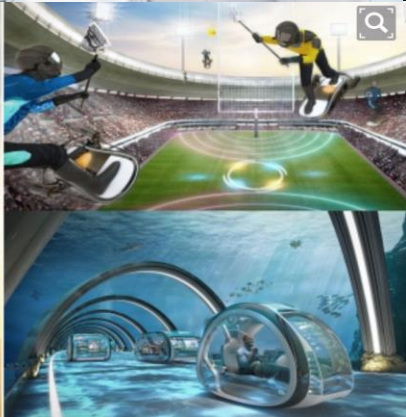
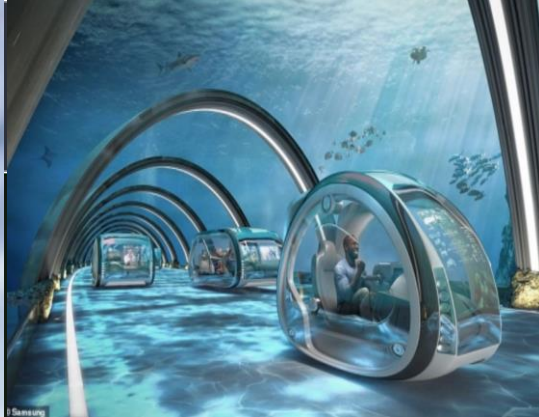
Mega Trend and Future?



The Future Society Made by ChatGPT



Prompt: AI+Future society+ ROBOT



HISTORY OF INDUSTRIAL REVOLUTION ON LIFE

Korea vs. EU

-1982 : TDX
-1987 : 4DM
-1991 : CDMA
-2009 : Smart

- Policy
- Education
- Research

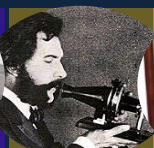
- Influence on economy
- Impact on technology
- Effecting of job

- New customer
- New market

Representative Technology



Steam Eng.



Tel



TV



PC



Net



Smartphone

ICT

Analog

Digital

Smart

Melt

Agriculture Revolution

Industry Revolution

Information Revolution

4th industrial revolution

1705

1873

1920

1973

1981

2009

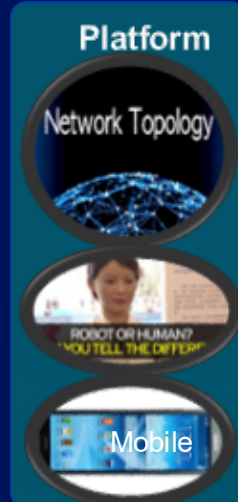
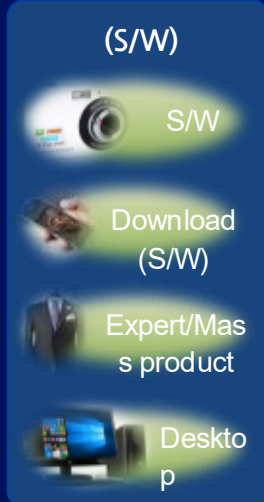
- New technology
- New job

Megatrend



Mega-trend

Technology trend



Human based recognition



Robot based work



Human based work

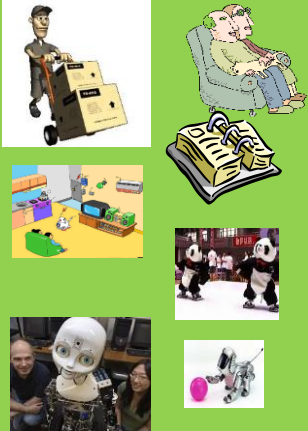


AI based work/Creation

Human being Society AI



Step 1: Now



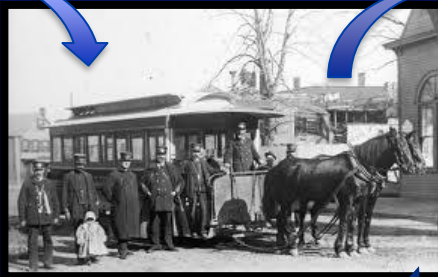
Step 2: Helper



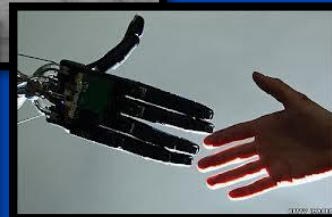
Step 3: Self and Human



Learn of History



????



Why did they lose?



sears



Oct. 18, 2018, Sears

The timeline consists of several stages, each with a representative image and a label below it:

- 1886**: Image of a two-story brick building.
- 1887**: Image of a man with a mustache.
- 1890s**: Image of a man's head and shoulders.
- 1925**: Image of a man wearing glasses.
- Early 1900s**: Image of a woman sitting at a desk.
- 1930s**: Image of a man in a suit with the word "TALKING" above him.
- 1940s-1970s**: Image of a large, modern building.
- 1980s-today**: Image of the Sears logo.

The background image shows a large "Sears" sign on a building facade. Below the sign is a yellow banner that reads "STORE CLOSING". In the foreground, several orange cylindrical objects are visible.

Why did Sears Crashed



Richard Sears begins selling watches in Minneapolis



Closes last store in Chicago

1886

1888

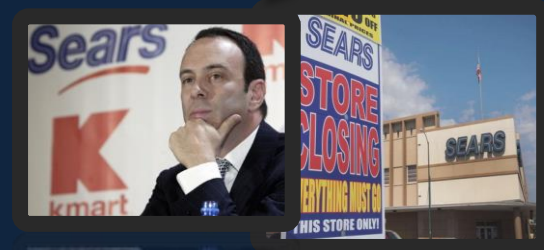
July 15, 2018

Jan. 16, 2019

First catalog released



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



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

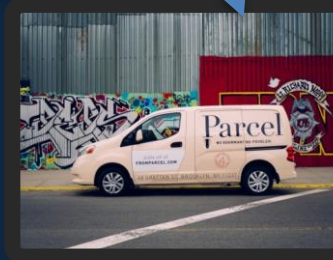
2014-present

WALMART 1962 WAL-MART 1964

WAL-MART 1992 Walmart 2008



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

Core value of University
Education & Megatrend



○ Business Target
○ Promotion Target

	Experience	Symbol	Interesting	Communication	Job Philosophy
Z-Era 1995- (-30 age)	Global warming Cloud Com U-Tube	Wearable 3D Printer	Personal happy	Vision Communication	Flexible job Multitasking
Millennium 1981-1995 (30-44 age)	9.11 Facebook Show	Smart Phone Tablet	Freedom	Social media	Venture Balance with Org.
X-Era 1961-1980 (45-64 age)	Berlin Barrier PC	PC	Balance Job & Life	Email Text	Personal Portopolio Capability
Baby Boomer 1945-1960 (- 65 age)	Cold war Apolo space	TV	Job Stability	Telephone	Loyalty

Nokia and Samsung

Ground wood pulp mill



Founder of Nokia (1865)

Missing on time

DX 200:Telephone exchanger



First electronic device in 1962

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



Sept. 2, 2013: 70Billion USD



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

The Nokia N8



2009

Released:
September 2010
Missing time

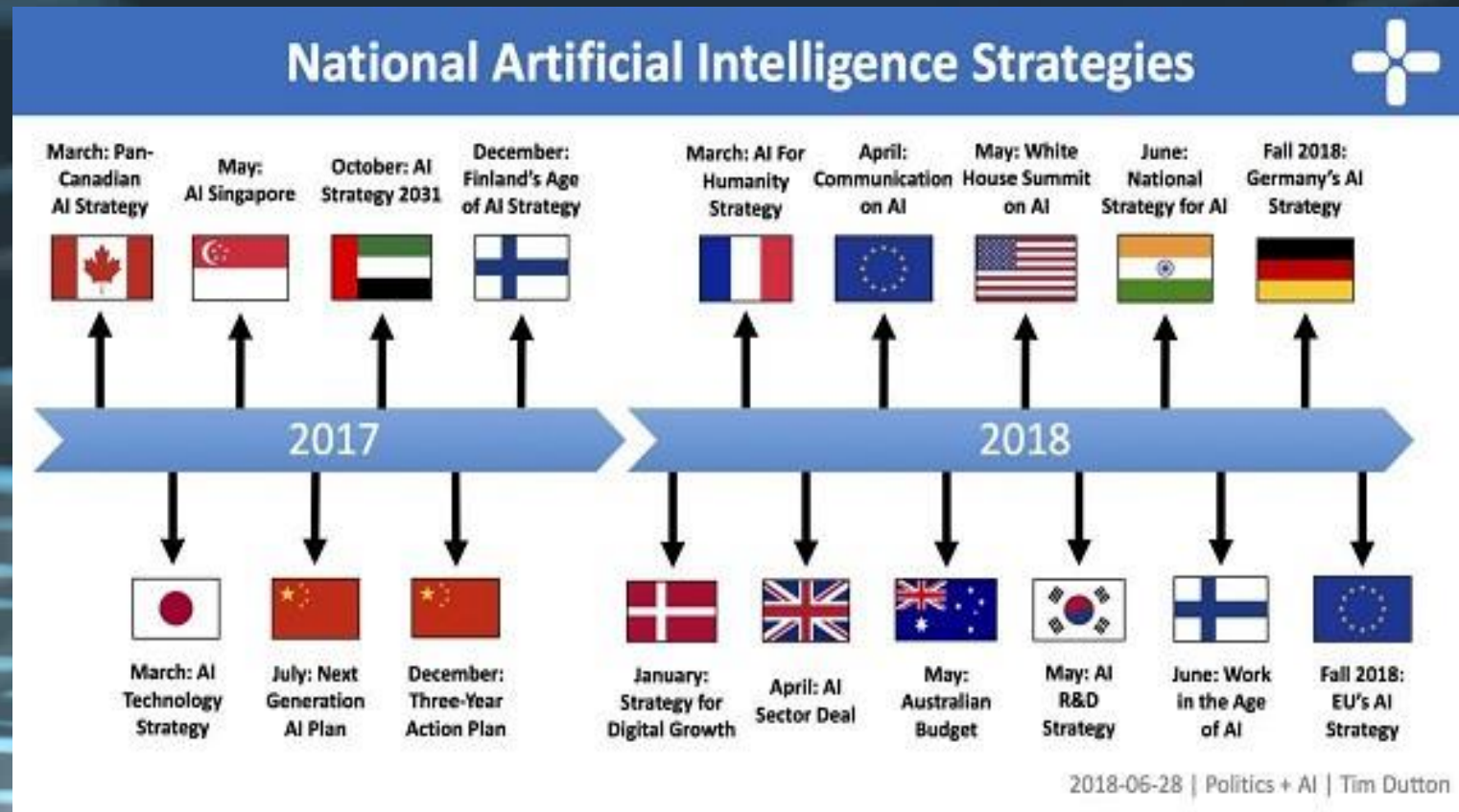


2008: 40%

POLICY AND GLOBAL COM. STATUS





























NATIONAL AI POLICY



EU AI Policy

National AI strategies in the EU Member States and Norway

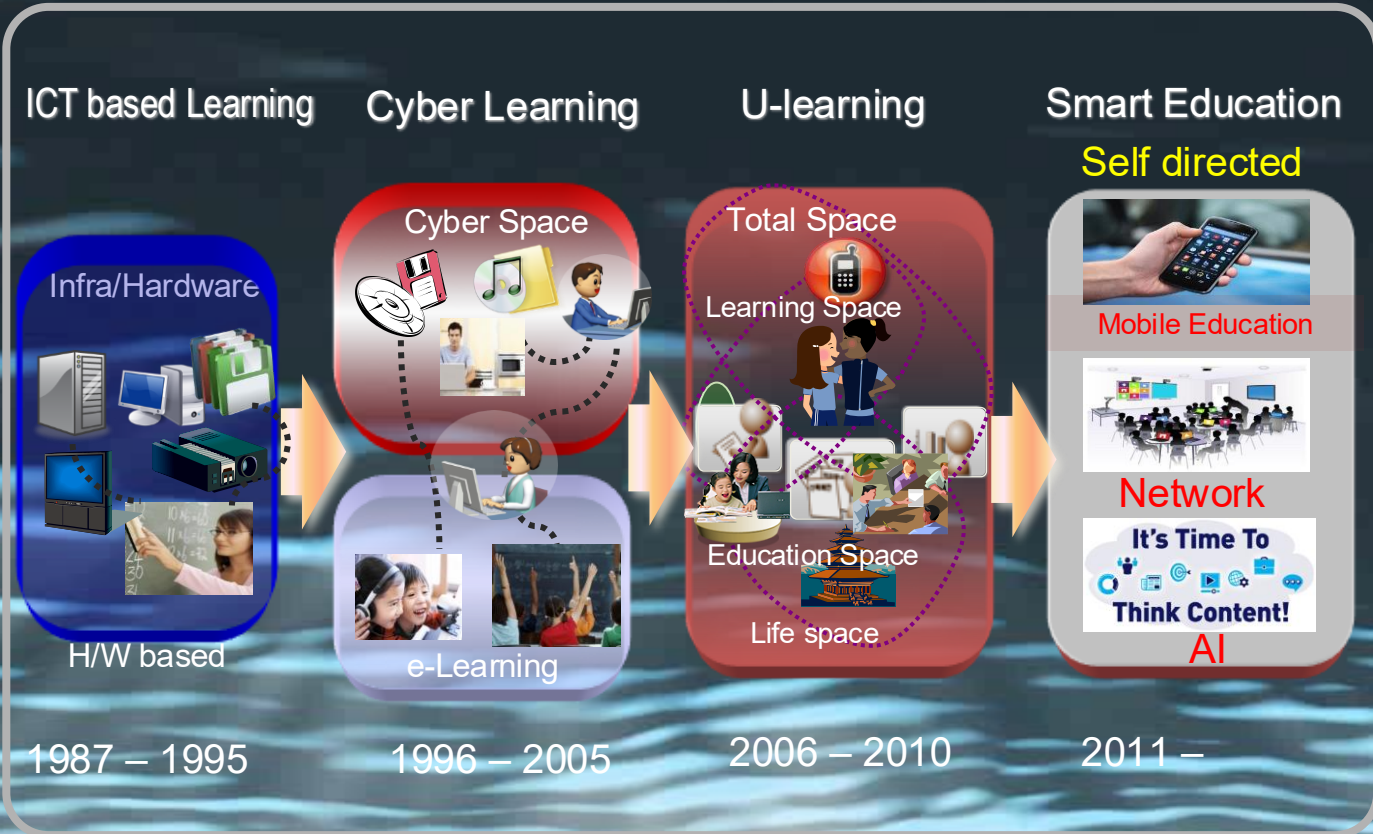
	Country	Status	Date
	Austria	In progress	
	Belgium	In progress	
	Bulgaria	Published	Dec. 2020
	Croatia	In progress	
	Cyprus	Published Last update	Jan. 2020 Jun. 2020
	Czech Republic	Published	May 2019
	Denmark	Published	Mar. 2019
	Estonia	Published	Jul. 2019
	Finland	Published Last update	Oct. 2017 Nov. 2020
	France	Published	Mar. 2018
	Germany	Published Last update	Nov. 2018 Dec. 2020
	Greece	In progress	
	Hungary	Published	Sept. 2020
	Ireland	In progress	

	Country	Status	Date
	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!

