

SMART

The Role of ICT in the Creative Knowledge Society

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I . How Important is ICT



Origin of Human Development

Three Key Inventions in Human History

FIRE



Expansion of Time

WHEEL



Expansion of Space

LETTERS



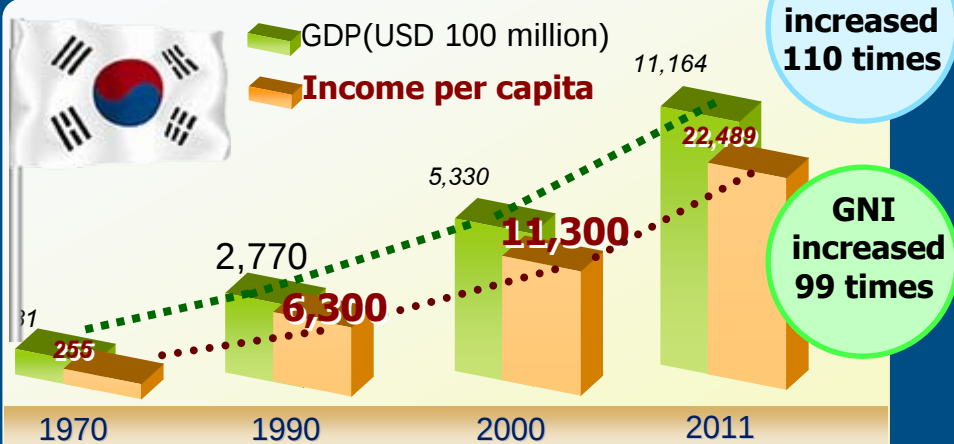
Expansion of Communication

Those who build towers will come to ruin,
but those who lay roads will prosper

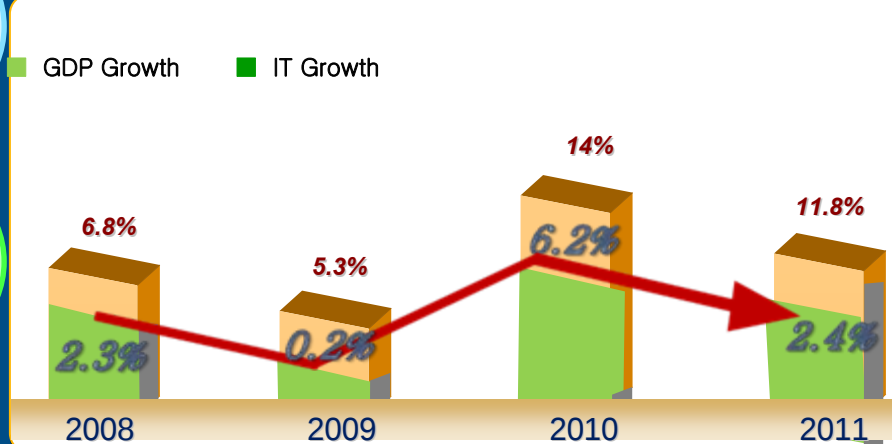


Economic Development and Growth Engine in Korea

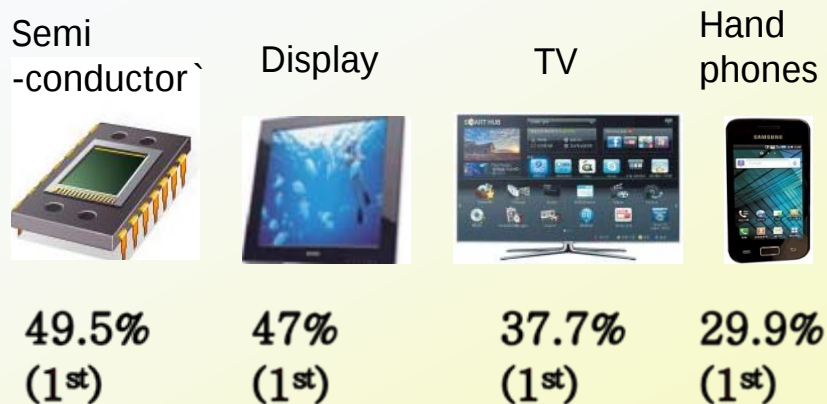
National Economic Growth



IT Productivity



IT Products' Market Share



IT Status of KOREA

- **1st in IT Country Competitiveness (Ministry of Internal Affairs and Communications, Japan, 2011)**
- **1st in Mobile broadband penetration (OECD , 2011)**
- **1st in Youth Digital Literacy (OECD , 2011)**
- **1st in Internet Speed (Akamai , 2012)**
- **1st in e-Government Readiness Index (UN, 2012)**
- **1st in ICT Development Index (ITU, 2012)**

Industrial Economy and Creative Knowledge Economy

Industrial Economy

Transportation Network



- Transportation Network : 1997(87,000km)
⇒ 2011(106,000km), increased by 1.2 times

Creative Knowledge Economy

ICT Network



- ICT Connections: 1997(310,000)
⇒ 2010(5 billion) 16,000 times expansion

Growth Engine in the Industrial Economy

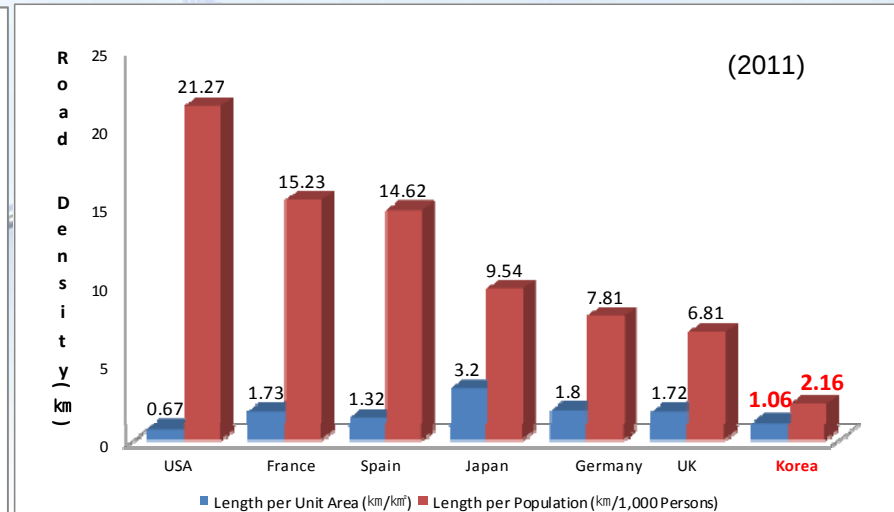
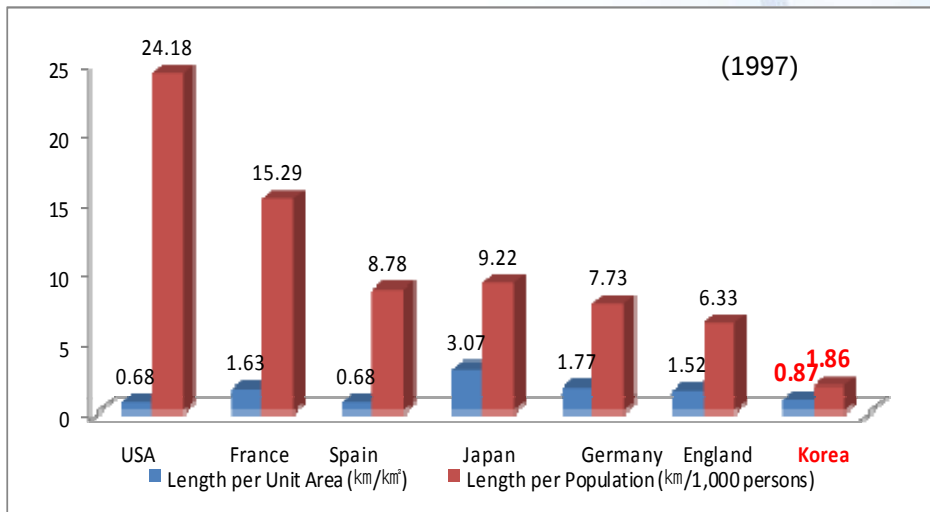
→ H/W, Manufacturing, Large Corporations based on Transportation Networks

Growth Engine in the Knowledge Creation Economy

→ Software, Content, SMEs based on ICT Networks

The Overview of World Road Networks

Country	Length(km)		Population(1,000)		Area(1,000km ²)		Length per Unit Area (km/km ²)		Length per Population (km/1,000 Persons)		Road Supply Rate per Land Coherent (%)	
	1997	2011	1997	2011	1997	2011	1997	2011	1997	2011	1997	2011
USA	6,420,000	6,545,839	265,557	307,687	9,373	9,832	0.68	0.67	24.18	21.27	4.1	3.76
Japan	1,160,000	1,207,867	125,864	126,552	378	378	3.07	3.2	9.22	9.54	5.3	5.52
France	892,500	951,260	58,380	62,445	549	549	1.63	1.73	15.29	15.23	5.0	5.14
Spain	344,847	667,064	39,270	45,638	505	505	0.68	1.32	8.78	14.62	2.4	4.39
Germany	633,000	643,969	81,877	82,405	357	357	1.77	1.8	7.73	7.81	3.7	3.75
UK	372,000	419,665	58,782	61,652	245	244	1.52	1.72	6.33	6.81	3.1	3.42
Korea	86,989	105,931	46,885	48,989	99	100	0.87	1.06	1.86	2.16	1.3	1.51



Changes in the Past 30 Years

Development



Top 15 Innovative Products for the Past 15 Years

Rank	Product	Rank	Product
1	Internet	2	PC
3	Mobile Phones	4	Email
5	Human Genome Map	6	MRI
7	Microprocessor	8	Optical Fiber
9	Office Software	10	Laser/Robot Surgery
11	Open Source S/W	12	LED
13	LCD	14	GPS
15	Online Shopping	※ Forbes('09)	



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https://www.yunbaogao.cn/report/index/report?reportId=5_7241

