

Uncertain Times: Changing Principles

Kiyoshi Kurokawa

IAP, Rio de Janeiro, February 26, 2013

Incunabula

Printed books in West thru 1501



an inconvenient truth











Fukushima Daiichi





Figure 1. Long-term world population growth, 1750-2050. Source: United Nations Population Division

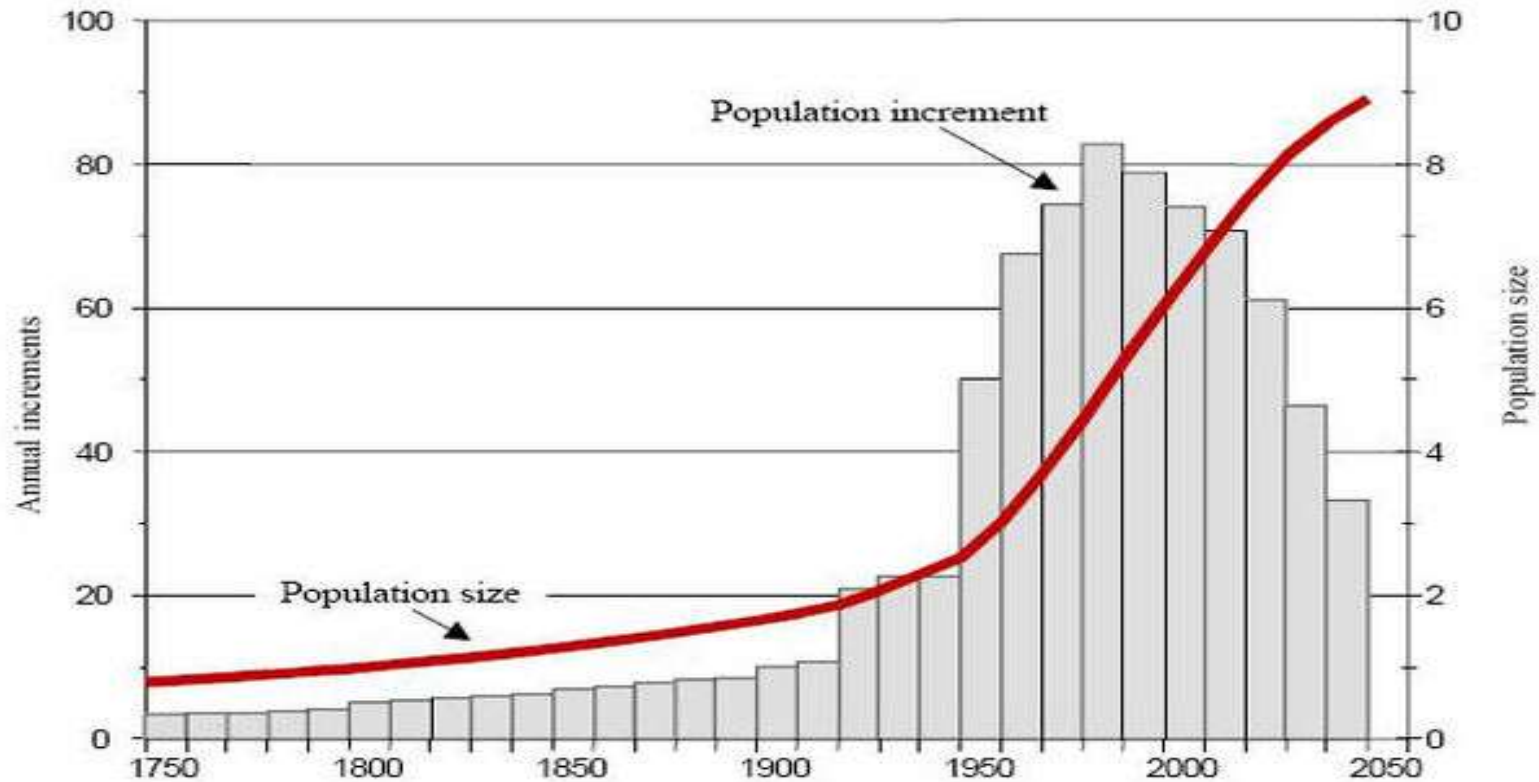
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Millions

Billions



web 1.0: 1991-2000

End of Cold War

world wide web

Globalization

Financial crises: 90, 92, 97

Rio de Janeiro

web 2.0: 2001-2010

web 3.0: 2011-

web 1.0: 1991-2000

web 2.0: 2001-2010

9.11

digital age, wireless,

touch panel

emerging economies, BRICs

global financial crisis, 2007

Barak Obama

web 3.0: 2011-

web 1.0: 1991-2000

web 2.0: 2001-2010

web 3.0: 2011-

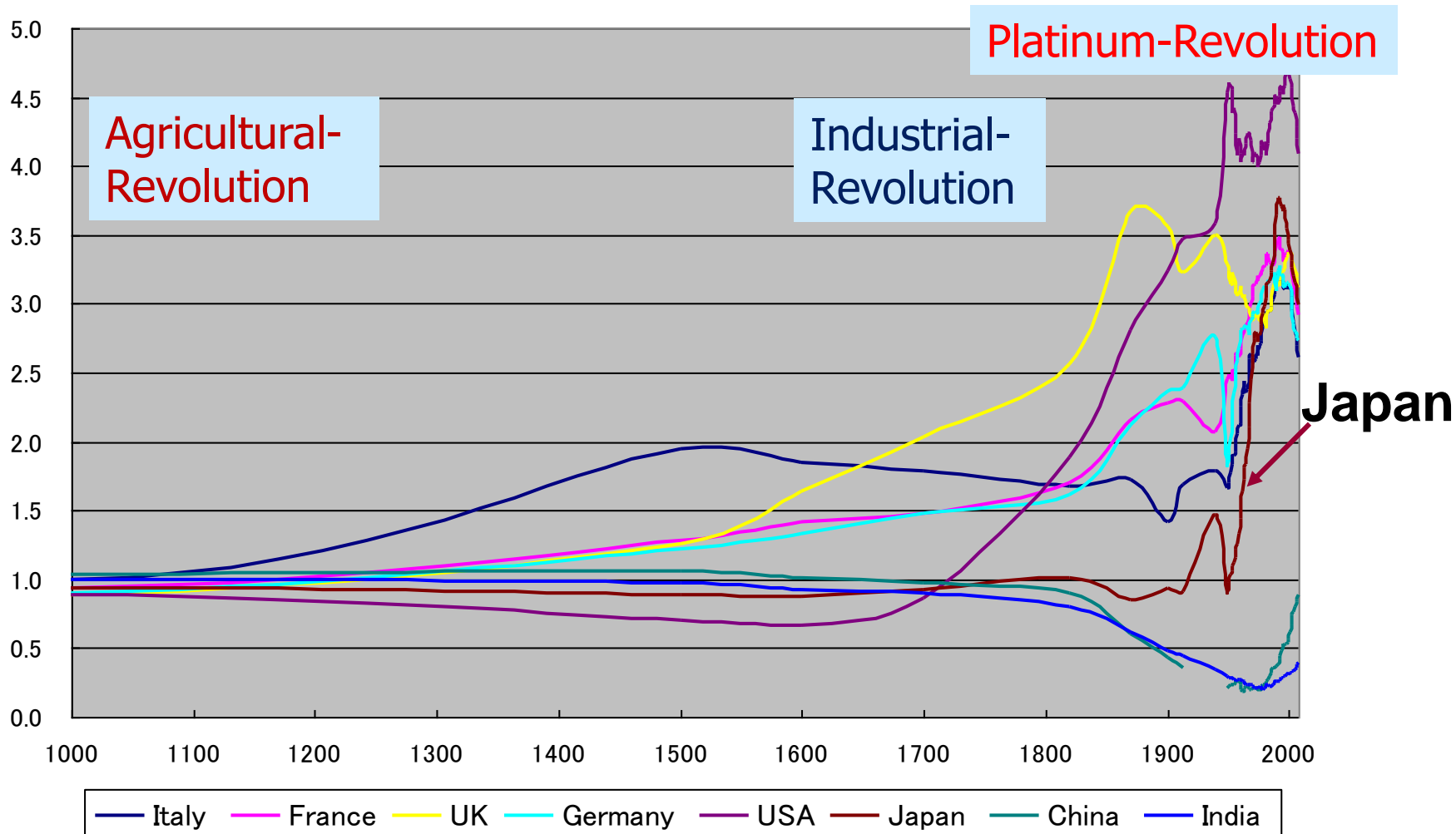
Arab spring

3.11

Towards equally rich countries

Normal citizens own food, clothing, shelter, mobility and information.

Per-capita GDP of a country normalized by that of the world.



source: Angus Maddison : [Statistics on World Population, GDP and Per Capita GDP, 1-2008 AD](#)

Saturation of artifacts in developed countries

The number of automobile ownership (2007)

	No. of automobiles million	No. of automobiles per population
Japan	58	0.45
USA	138	0.45
Britain	31	0.51
France	31	0.50
Germany	41	0.49
China	32	0.02
India	13	0.01

Source: Japan Automobile Manufacturers Association,
Ministry of Internal Affairs & Communications

The Principles -1

RESILIENCE	instead of Strength
RISK	instead of Safety
SYSTEMS	instead of Objects

The Principles -2

COMPASSES	instead of Maps
PULL	instead of Push
PRACTICE	instead of Theory

The Principles -3

DISOBEDIENCE instead of Compliance
CROWDS instead of Experts
LEARNING instead of Education

Joi Ito, MIT Media Lab
Kiyoshi Kurokawa, GRIPS

Knowledge is digitalizeable

Wisdom has to be earned

-Historia majistra vitae est-

Thank you

Google me!

www.kiyoshikurokawa.com/en/

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'Black Swan event'

Accidents Occur

Machines Break

Human Err