Uncertain Times: Changing Principles

International Symposium on Sustainability

Role of Science ad Technology in Disaster Recovery and Preparedness

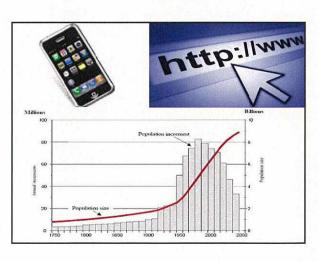
Knowledge vs Wisdom

Kiyoshi Kurokawa, MD

Science Council of Japan; Tokyo, January 17, 2013







web 1.0: 1991-2000

End of Cold War world wide web Globalization

Financial crises: 90, 92, 97

Rio de Janeiro

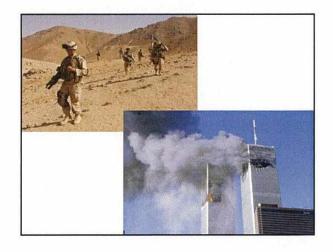
web 2.0: 2001-2010 web 3.0: 2011-



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







National Diet of Japan Fukushima Nuclear Accident Independent Investigation Commission

Dec 8, 2011- July 5, 2012

www.naiic.go.jp/en/

'Black Swan event'

Accidents Occur Machines Break Human Err

Issues Unique to Japan?

"Regulatory Capture"

George Stigler (Nobel laureate, 1982)

Many examples in the world

Age of Uncertainty

Have we become wiser?

Knowledge is digitalizeable

Wisdom has to be earned

Richard Feynman (1986)

"For a successful technology, reality must take precedence over public relations, for nature cannot be fooled."

Kiyoshi Kurokawa (2012)

'For daring to tell a complacent country that groupthink can kill'; Foreign Policy's '100 Top Global Thinkers 2012'

AAAS Scientific Freedom and Responsibility Award, 2013

The Principles

- •RESILIENCE
- · PRACTICE
- · RISK
- · DISOBEDIENCE
- -SYSTEMS
- · CROWDS
- · COMPASSES
- LEARNING
- -PULL

Thank you

Google me!

www.kiyoshikurokawa.com/en/