



2008 EU-Japan Cooperation Forum on ICT Research



Harnessing the Power of ICT to solve global challenge

4th March, 2008

Chiaki Ito

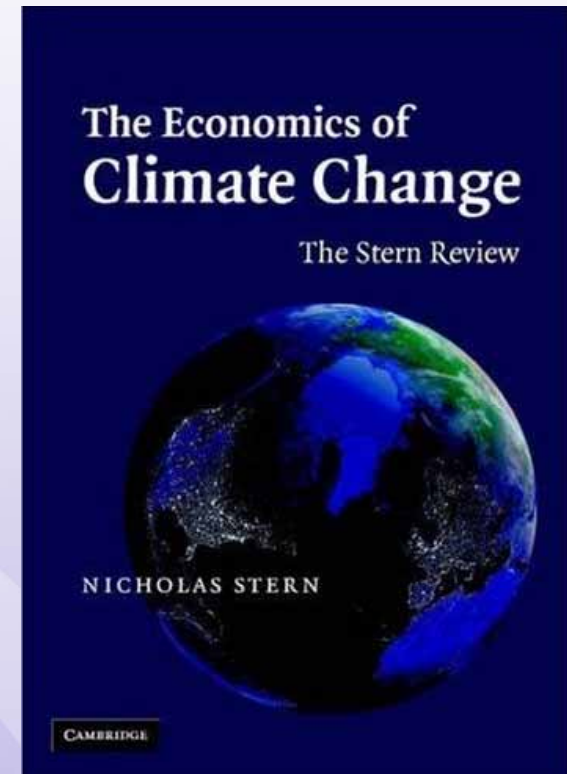
Corporate Senior Executive Vice President
and Representative Director
Fujitsu Limited

Global Agenda

Global Warming and Climate Change

Stern Review

- If we don't act, the overall costs and risks will be equivalent to losing at least 5% of global GDP each year
- It could rise to 20% of GDP
- The costs of action can be limited to around 1% of global GDP each year



Climate Change Mitigation

ICT as an energy efficiency driver

Unified Message on the Role of ICT

“The ICT industry is responsible for approximately 2% of global CO₂ emissions.

ICT solutions have the potential to be an enabler to reduce a significant part of the remaining 98% of total CO₂ emitted by non-ICT industries and the public”

(Source : Gartner/HP/McKinsey/WWF)

Climate Change Mitigation ICT Contributions

Infrastructure Innovation

- BEMS : Building Energy Management System
- Manufacturing : Intelligent Systems, Design and Business Model
- Smarter Management of Energy : Supply and Demand
- Sustainable Energy Production

Behavioural Change

- Tracking of GHGs emissions through the Supply Chain
- Virtual Meetings

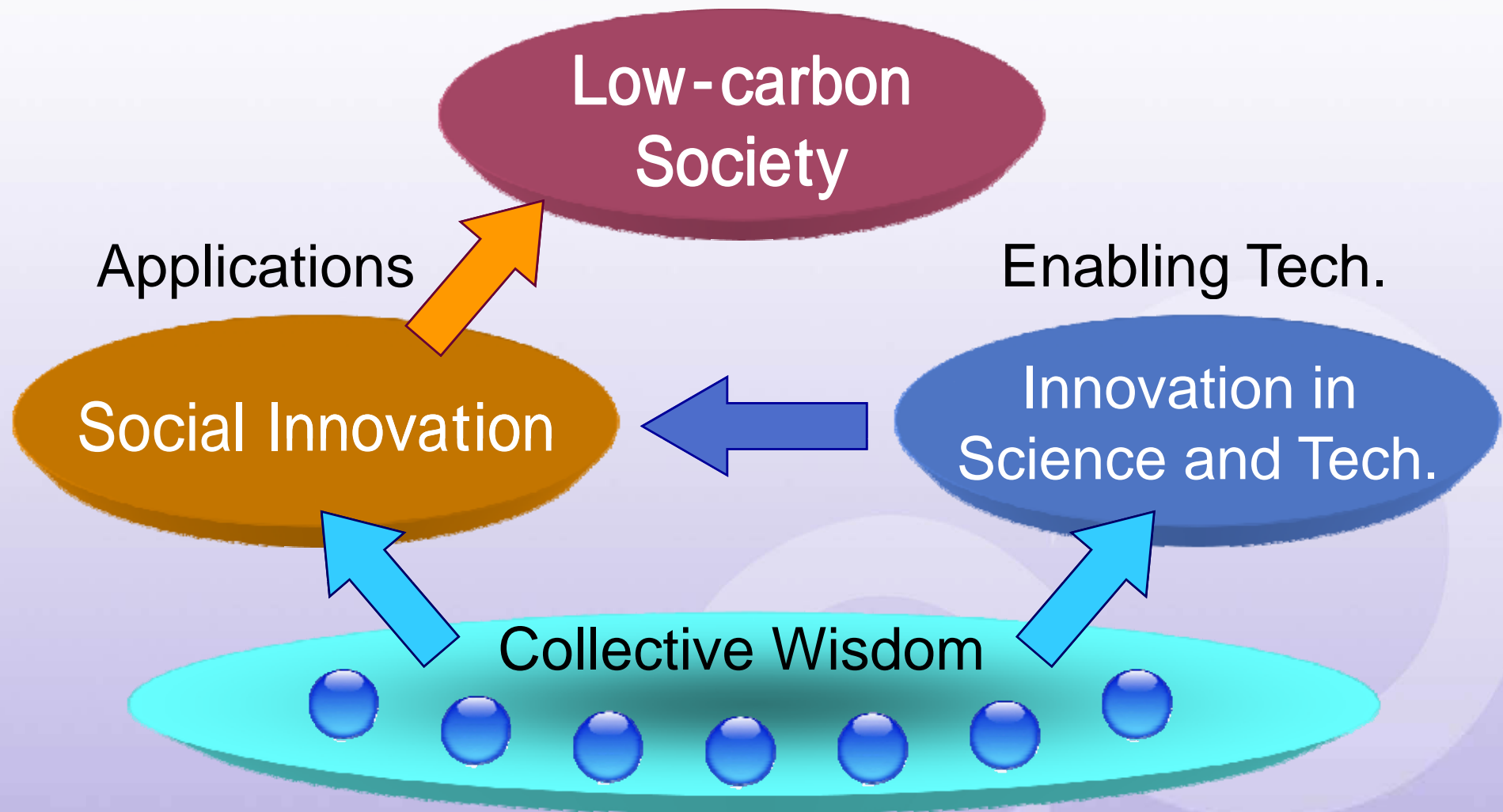
Energy Efficiency of ICT Products and solutions

- Data Centres and Electronic Devices

Open Innovation

Gather Our Wisdom Together

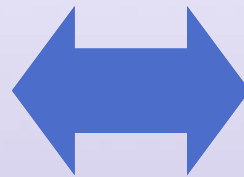
Global Warming Issues



Real World and ICT Application Innovation

“ If you can't measure it, you can't manage it ”

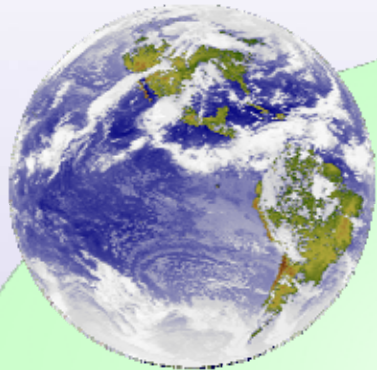
- Dr. Peter Drucker



ICT enables R&D Innovation

Computer Science Opens up New Horizon

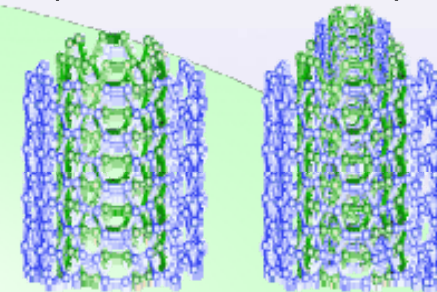
Climate Change Prediction



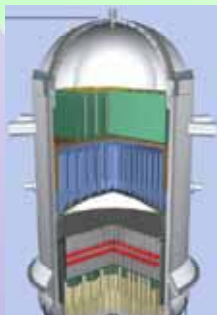
High Performance Computing



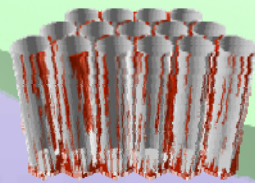
New Material
(Nano Science)



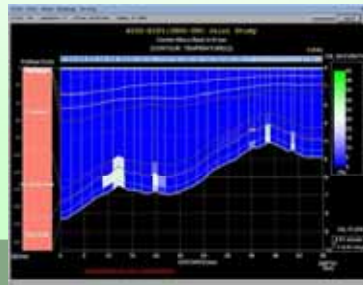
Large Scale Analysis



(reactor)



Energy Exploration

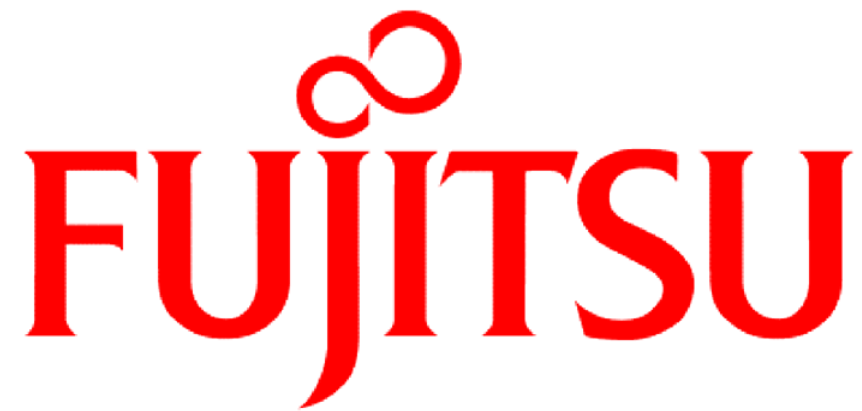


New Manufacturing



EU-Japan Open Innovation Leads Us to a Higher Stage





THE POSSIBILITIES ARE INFINITE