

An ICT Company's Efforts to Create Corporate Social Value

Atsuhisa Takahashi

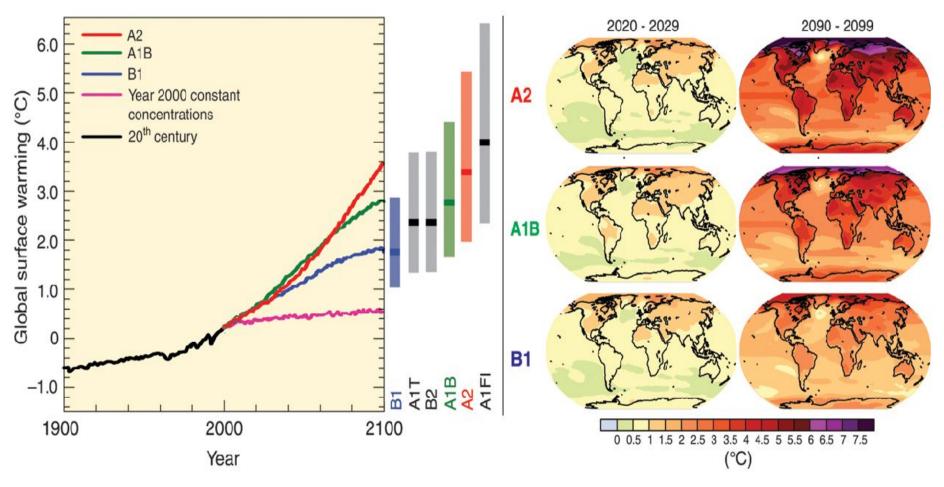
President Corporate Environmental Affairs Unit FUJITSU LIMITED

15th April 2008

Copyright 2008 FUJITSU LIMITED

Global Warming by GHG





<Increase in ground temperature (comparison with 1980 to 1999)>

*Increases in 2090 to 2099 based on 1980 to 1999

<Increase in annual average temperature
in 21st century (comparison with 1980 to 1999)>

[Source: IPCC 4th evaluation report (Integrated report) (November 2007)]

Role of ICT Company against Global Warming



•Minimize Environmental Load on Business Operations

•Reduce Environmental Load "Of" ICT itself

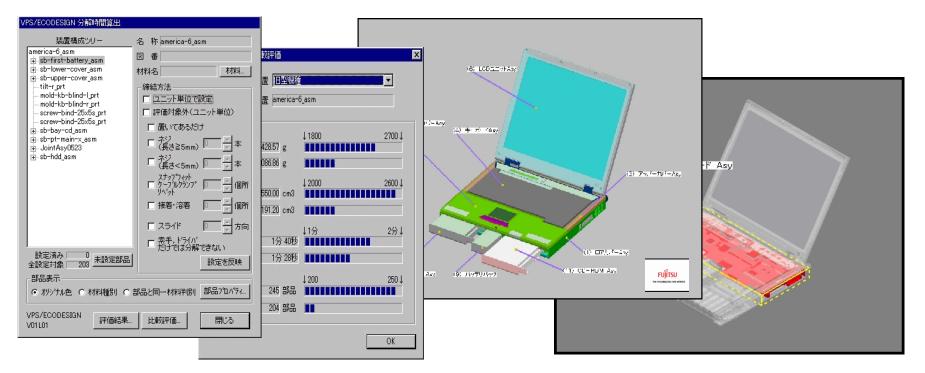
•Reduce Environmental Load "By" ICT solutions

FUITSU

Minimize Environmental Load on Business Operations FUITSU

Environment-Conscious Efforts at Design Stage

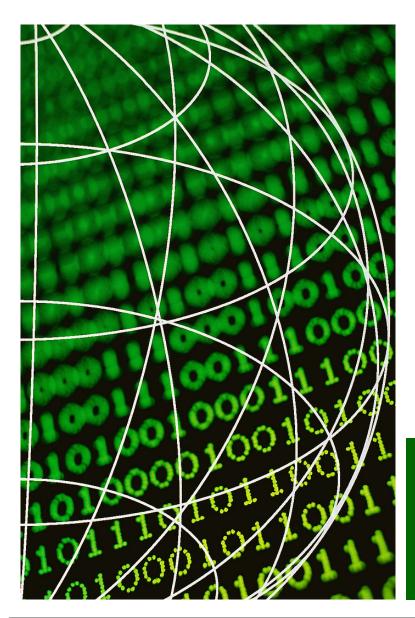
- Manufacturing not making prototype
- Environmental load simulation
- Remote meeting sharing the blueprint
- Disassembly evaluation



Use of VPS (Virtual Product Simulator)

Major Strengths of ICT





Labor saving / efficiency improvement

Downsizing

Reduction of paper

Dematerialization

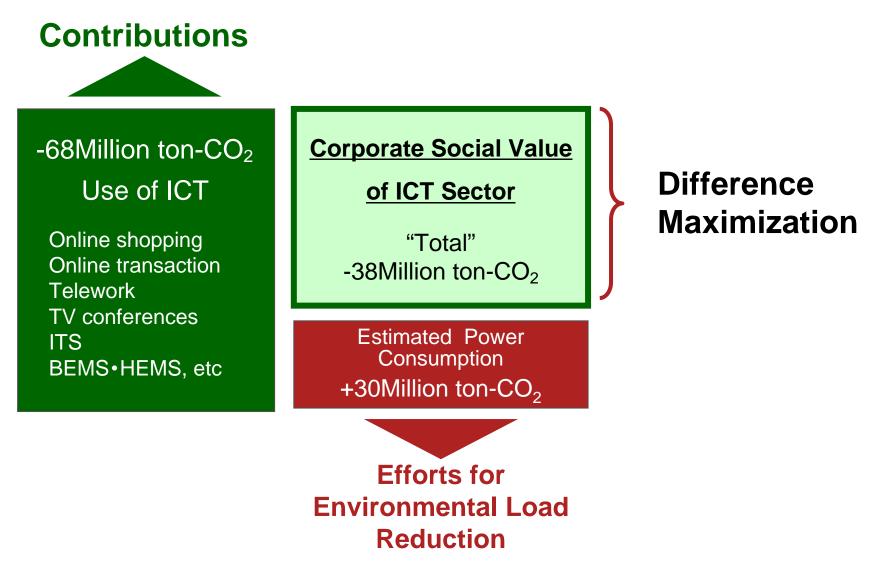
Transcendence of time and space



Further progress of ICT is necessary for energy saving and the low carbonization securing convenience.





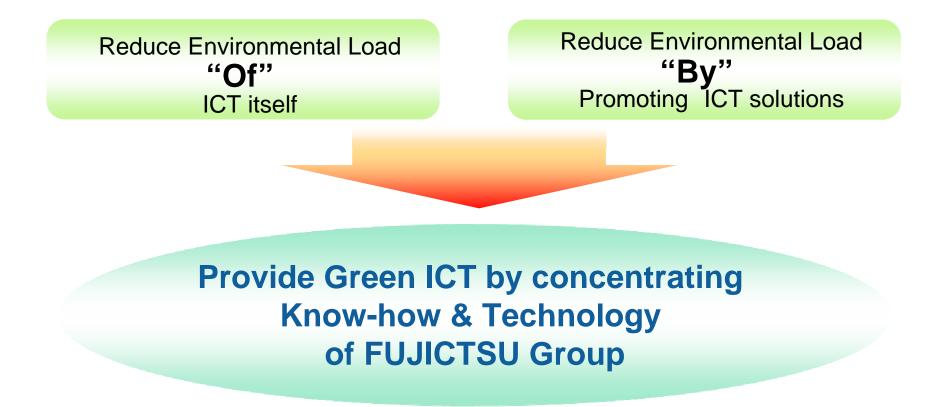


<CO2 reduction by use of ICT in Japan, 2012>

[Source: MIC Japan]

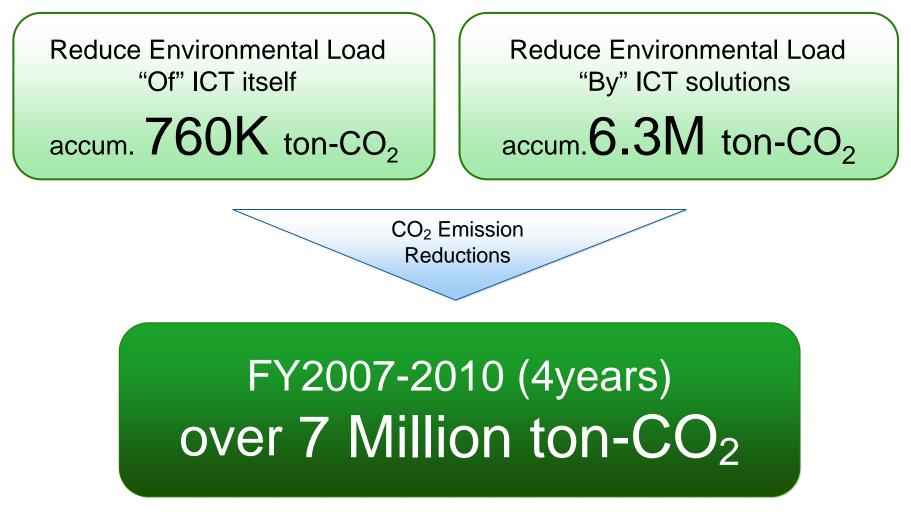
Fujitsu's Approach





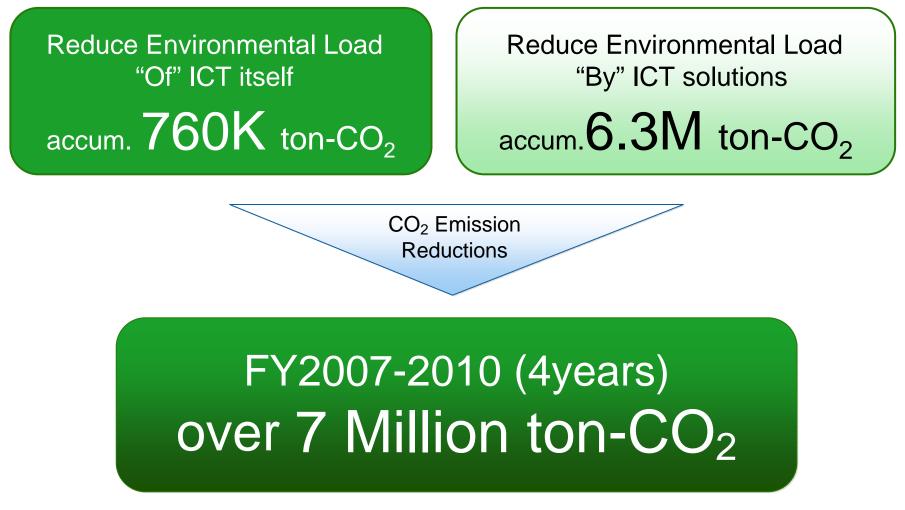
FUITSU **Contribution for Reducing Social Environmental Load Green Policy Innovation Reducing Social Environmental Load** For Customers Fujitsu Green ICT Reducing **Solutions Environmental** Load "By" introducing Software/Services (Outsourcing, Consulting, etc) ICT solutions Practices By Incorporated Green Know-How **ICT** Infrastructure Reducing **Environmental Load** Platforms, Network, Software "Of" ICT itself Ubiquitous, Electronic Devices, Semi-Conductors Research, Development, Design, Manufacturing, Procurement, Promotion, Recycle, etc.

Carbon Reduction by "Green Policy Innovation"



Note: This trial calculation is based on amount of Japanese market of FY2006.

Carbon Reduction by "Green Policy Innovation"



Note: This trial calculation is based on amount of Japanese market of FY2006.

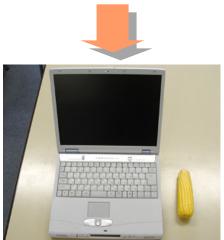
Environmental Load Reduction "Of" ICT itself

FUĴITSU

Development of Environmental Materials



Made from corn* * Made from industrial corn



Application to housing of PC

Equipment Design for Environment

- Reduced power consumption by 57%
- Reduced installation space into 1/8,
- Reduced number of cables into 1/3

By function integration and consolidation of the equipment



Network server IPCOM EX2000

Environmental Conscious System Architecture

Reduced carbon emission by equipment integration and consolidation for IDC application





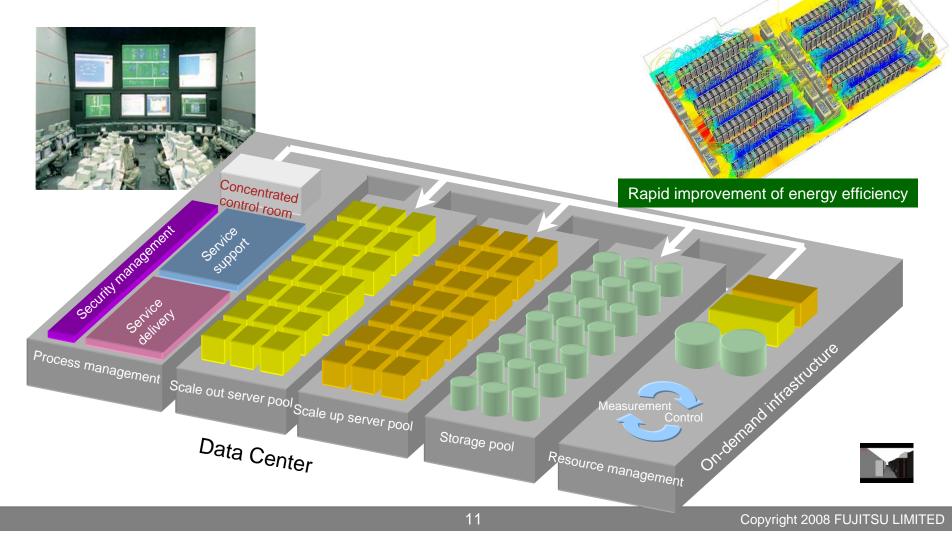
Blade Server BX Series

Environmental Load Reduction "Of" ICT itself

Energy saving and optimization of data center

FUJITSU

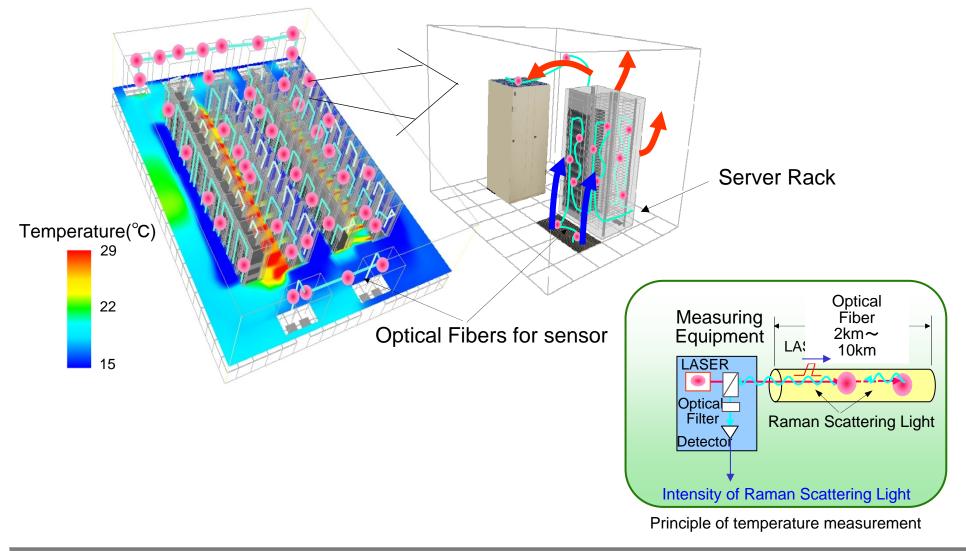
Efficiency improvement of facilities of building and air-conditioning and total solution of energy saving and optimization including ICT infrastructure



Environmental Load Reduction "Of" ICT itself

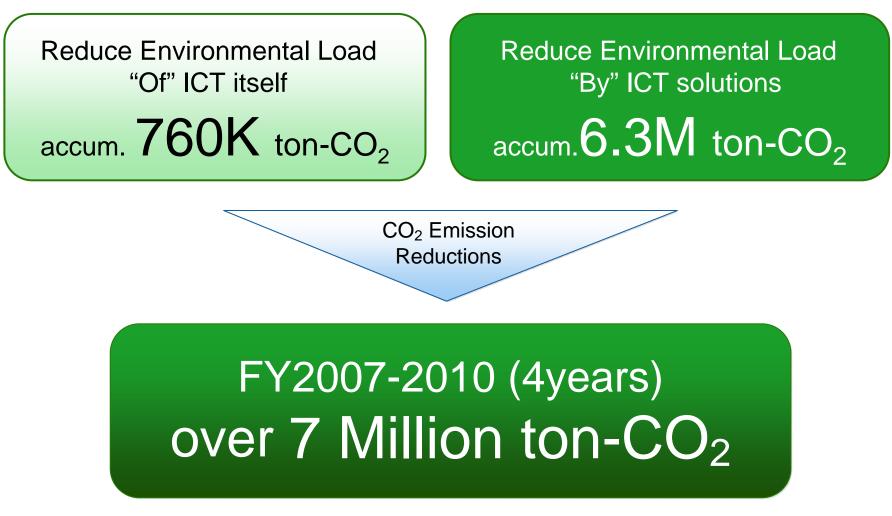


Optical Fiber-based Multi-Point Temperature Measurement Technology



Carbon Reduction by "Green Policy Innovation"





Note: This trial calculation is based on amount of Japanese market of FY2006.



<u>Effects by introducing ICT solutions</u> Increasing work efficiency, productivity and quality etc.

Electronic distribution of information

 \Rightarrow reduction of energy and raw materials related to products

Elimination of human movement and goods transportation

 \Rightarrow reduction of energy related to transportation

Efficient use of space

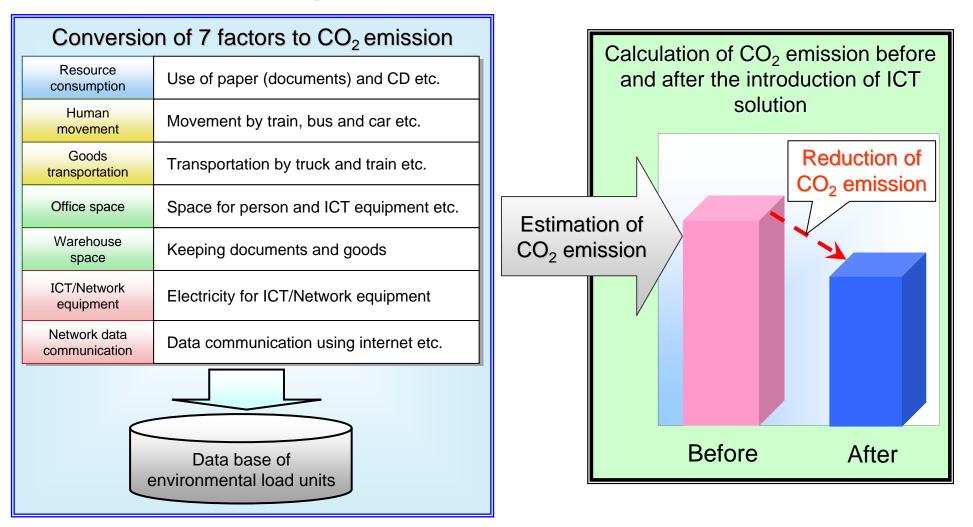
Environmental aspects

 \Rightarrow reduction of energy related to offices and warehouses

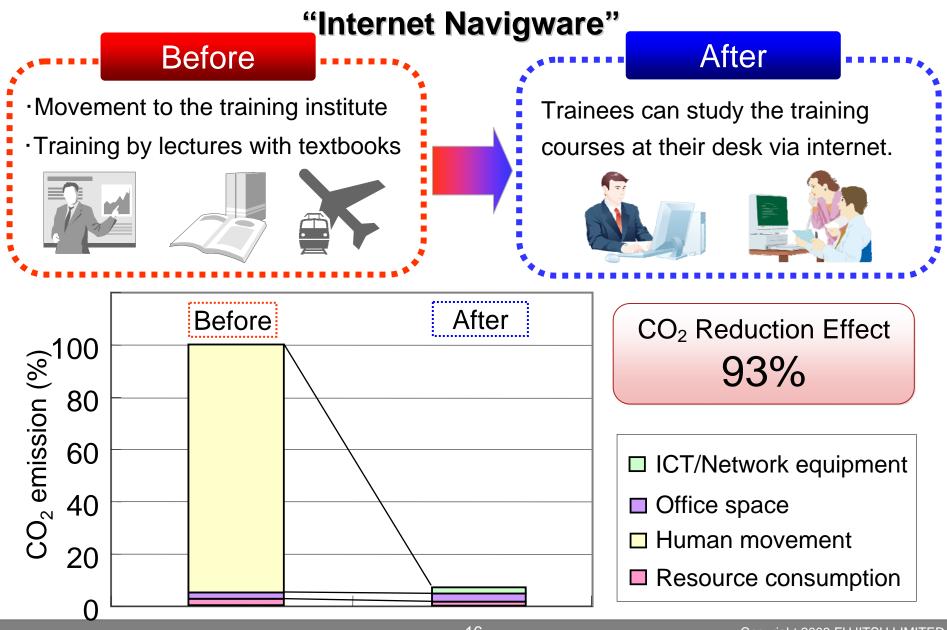
Evaluation Method of ICT Solutions



Evaluation of CO₂ emission in 7 environmental factors at the operation stage of an ICT solution

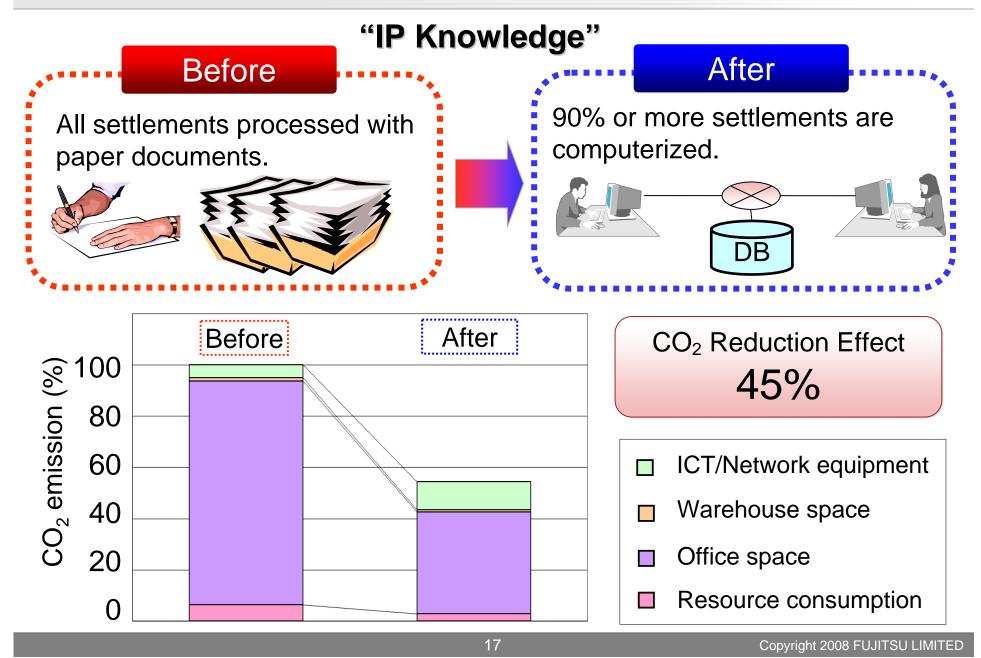


e-learning system ~ A case study with 5,000 trainees scale ~ FUJITSU



A Ward office inside business information system





Corporate Social Value of ICT Sector

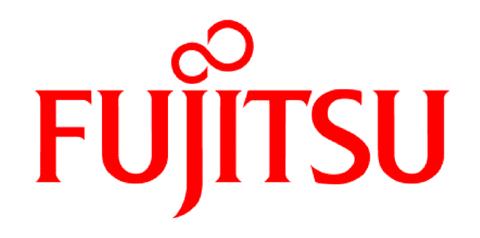


Standardization of the analysis & evaluation method, etc. are important.

- Building consensus about contribution of ICT to the whole of society
- Realizing the concept of CO₂ emissions credit through ICT

Maximizing Corporate Social Value of ICT sector

A positive efforts of related organizations including ITU is requested.



THE POSSIBILITIES ARE INFINITE