

The Power of ICT to Reduce GHG Emission and Green ICT Activities of Fujitsu Group

GHG排出を削減するICTの力と富士通のグリーンICT

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Impacts of Global Warming 地球温暖化の影響



Increases in drought



Changes in the ecosystem



Decreases in staple grain productivity



Increases in damage by floods and rainstorms



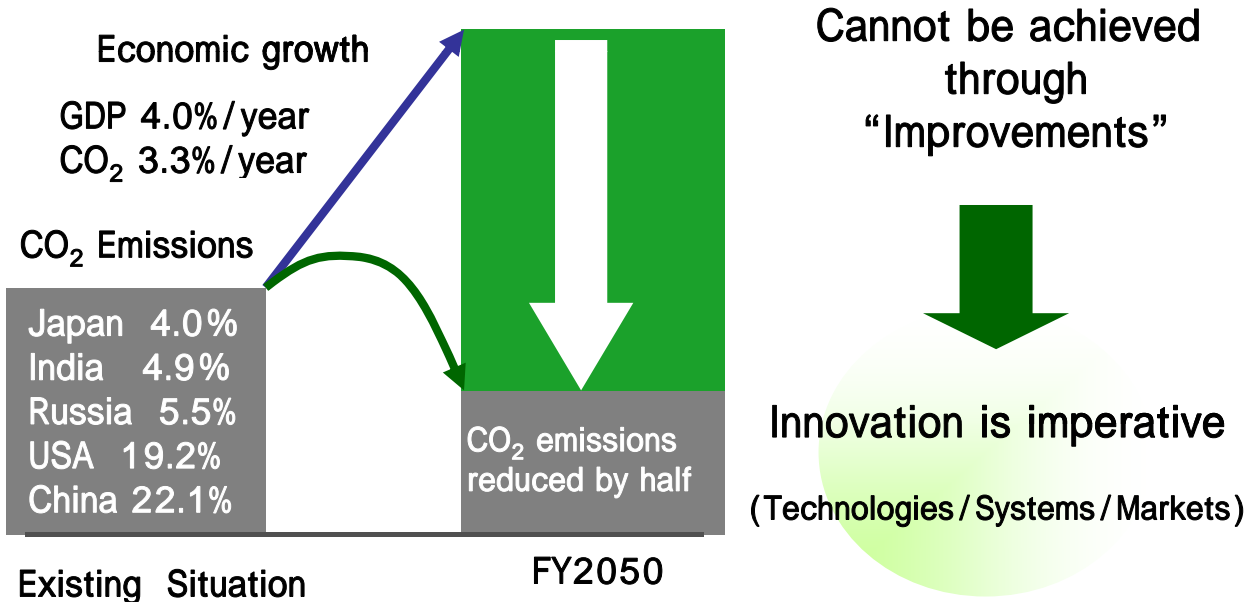
Increases in communicable diseases

Source: Seminar Materials for Fujitsu Forum 2007 (Yoichi Kaya)

Reducing GHG Emission by 50% by 2050 2050年までにGHG排出量を50%削減



Consequences of reducing CO₂ emissions by 50% by FY2050



What to do against Global Warming 地球温暖化防止のために『何をすべきか』



We need innovation. (Technology/institution/market)



- Change life style
- Change work style
- Change transfer style
- Change resources
- Change manufacturing
- Change Business-style





- Efficiency improvement
- Downsizing
- Reduction of paper
- Reduction of movement of the materials
- Dematerialization
- Transcendence of time and space



Further progress of ICT
is necessary for energy saving and
the low carbon society.

“Green by ICT” CO2 reduction effect in 2020
グリーンICTによる2020年のCO2削減効果

Sector	Major solutions	2020 CO2 reduction effect (Japan)	2020 CO2 reduction effect (Worldwide)
Industry	<ul style="list-style-type: none"> · High-performance boiler, energy efficient facilities · Energy management, energy conservation business, etc. 	7 ~ 14	140 ~ 276
Business	<ul style="list-style-type: none"> · BEMS · Tele-work, TV conference, paperless office 	9 ~ 18 (including other sectors)	122 ~ 239
Home	<ul style="list-style-type: none"> · HEMS · On-line shopping, electronic contents · Renewable energy, Smart Grid 	16 ~ 32 (including other sectors)	200 ~ 393
Transportation	<ul style="list-style-type: none"> · Improvement of fuel efficiency for automobiles · ITS (ETC, VICS), Eco-drive · Improvement of efficiency of distribution (SCM · Improvement of loading ratio, etc.) 	36 ~ 73 (including other sectors)	1,578 ~ 3,101
TOTAL		68 ~ 137	2,041 ~ 4,009

Million ton -CO2 / year

Source: Green IT Promotion Council

Fujitsu group " Green ICT Project "

富士通グループのグリーンICTプロジェクト



Green Policy Innovation

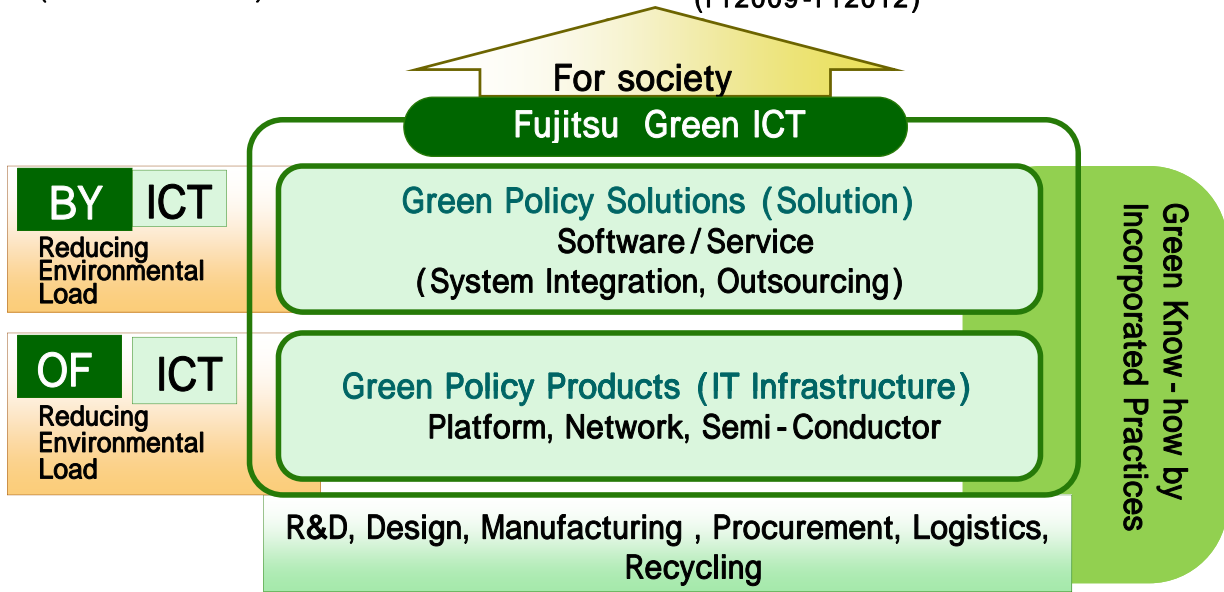
Reducing Society's Environmental Load by leveraging ICT

BY ICT
(FY2009-FY2012)

Cumulative approx.
12 million tons

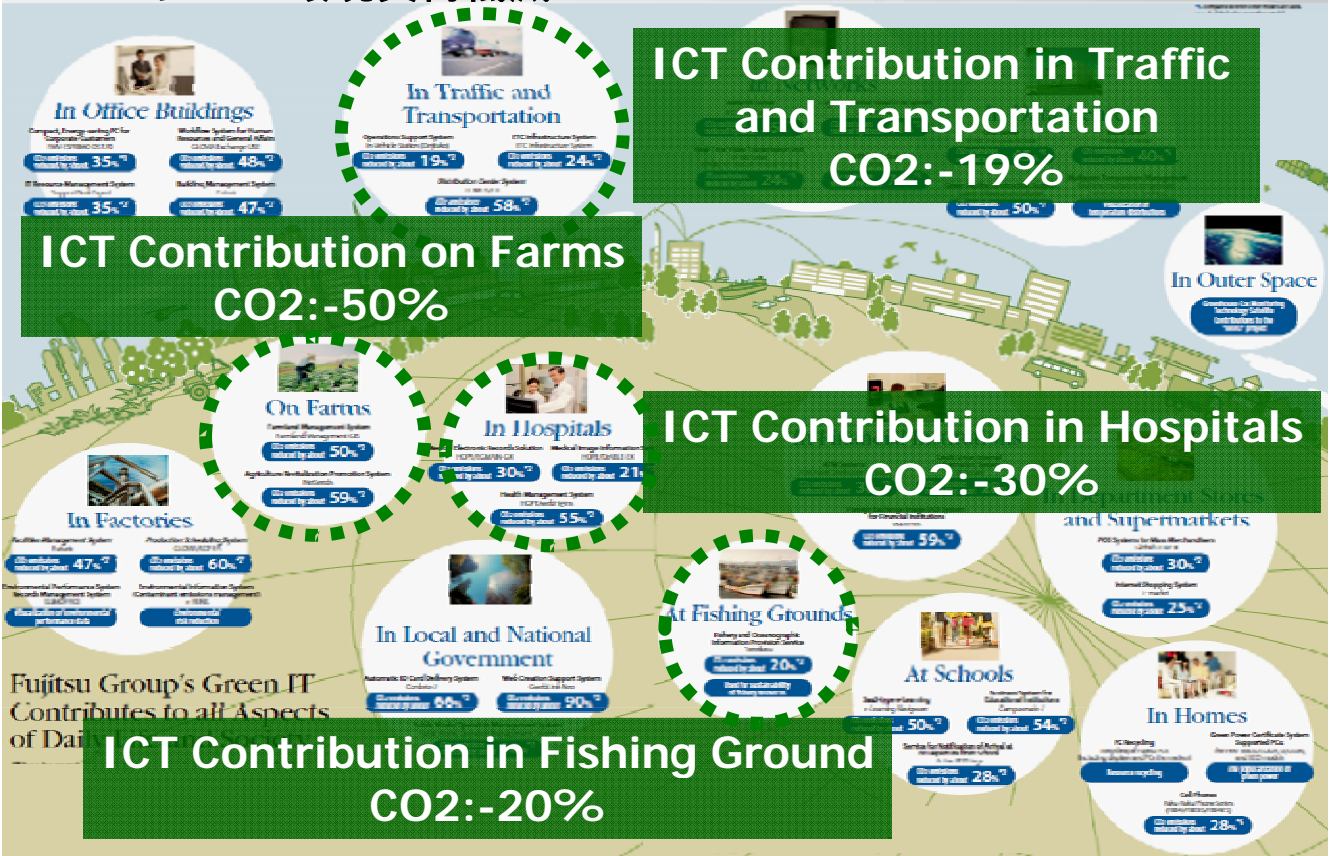
OF ICT
(FY2009-FY2012)

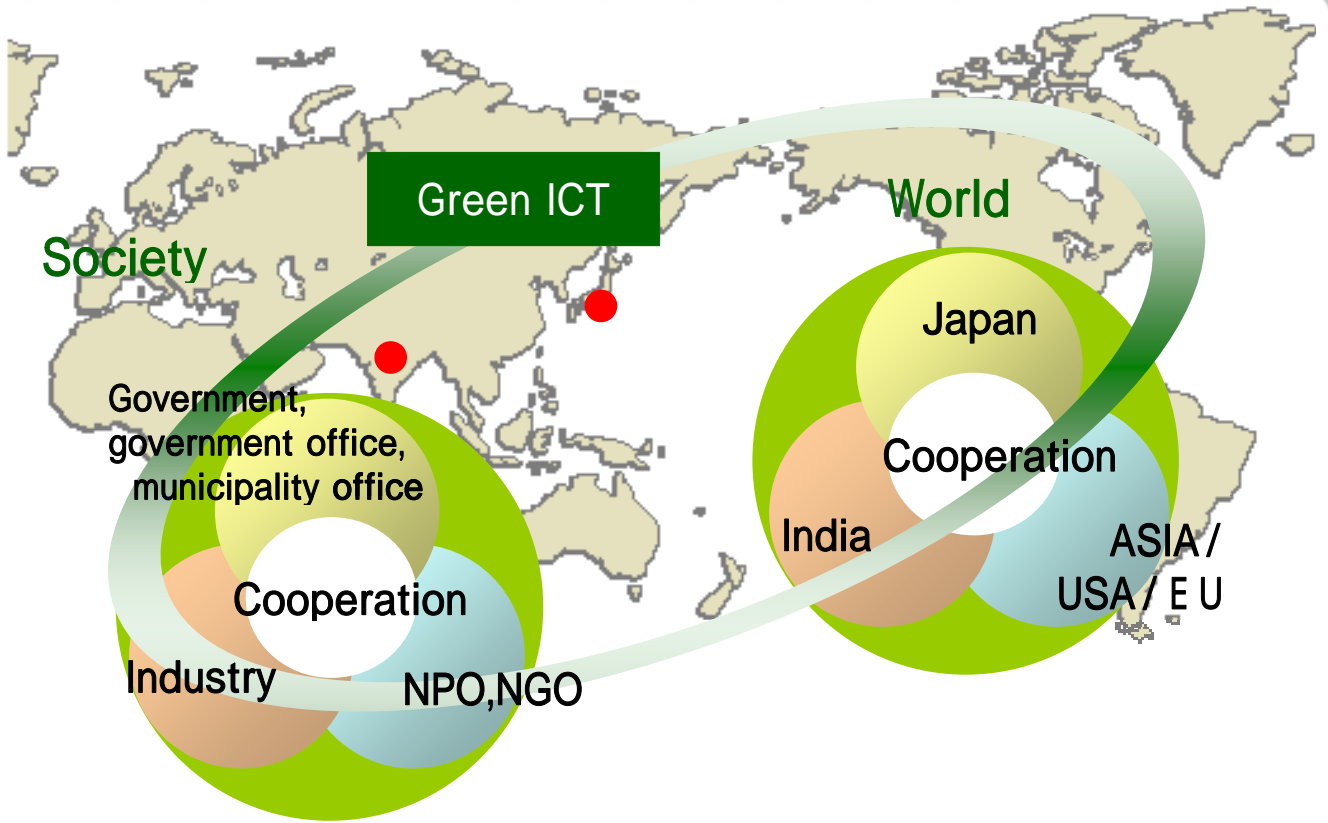
Cumulative approx.
3 million tons



Reduce Environmental Load: BY ICT

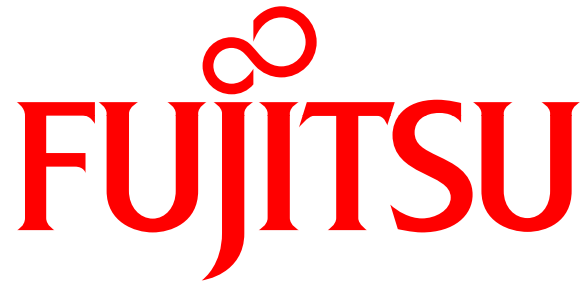
BY ICTによる環境負荷低減





It is our obligation to hand the beautiful "Earth" to the next generation.





shaping tomorrow with you