ICT Strategy and Solutions to Overcome the Climate Change

April 16, 2008

Akira Arutaki NEC Communication Systems

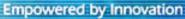
Empowered by Innovation



NCOS Confidential and Proprietary

Outline

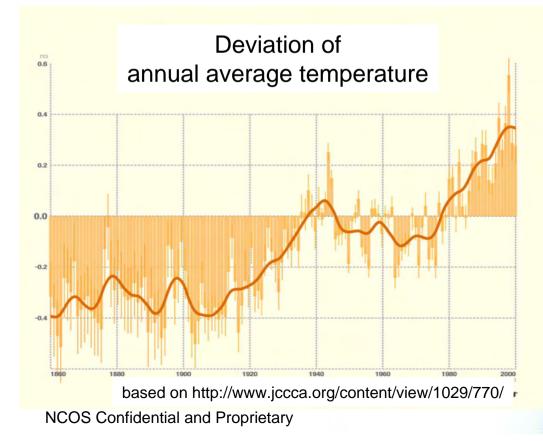
- Background
- Expectation to ICT
- Overall strategy and system model
- ICT solutions to cope with the climate change

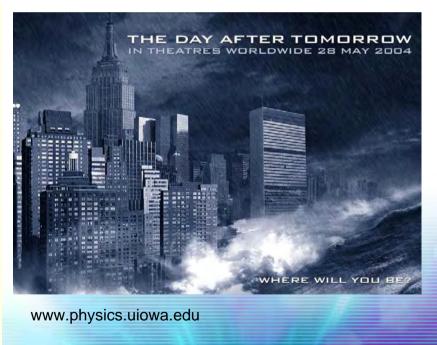




Background

The climate change is not a science fiction. ICT can/should be taken advantage of to cope with it.

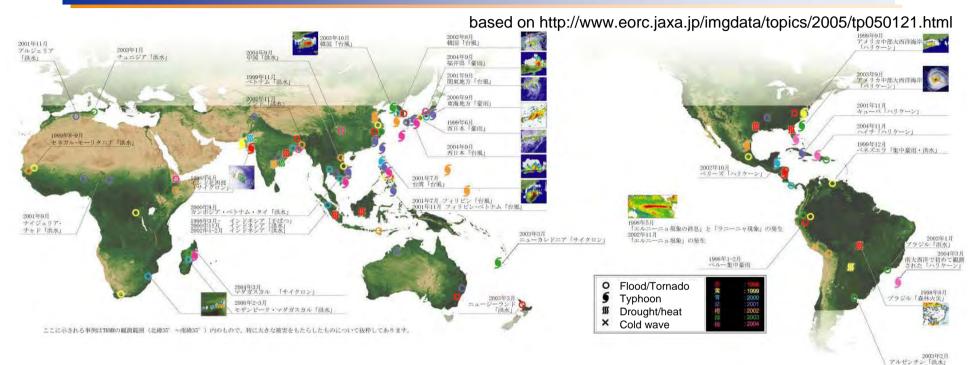




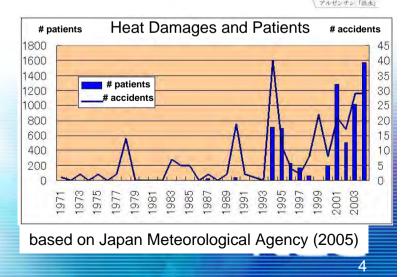
Empowered by Innovation



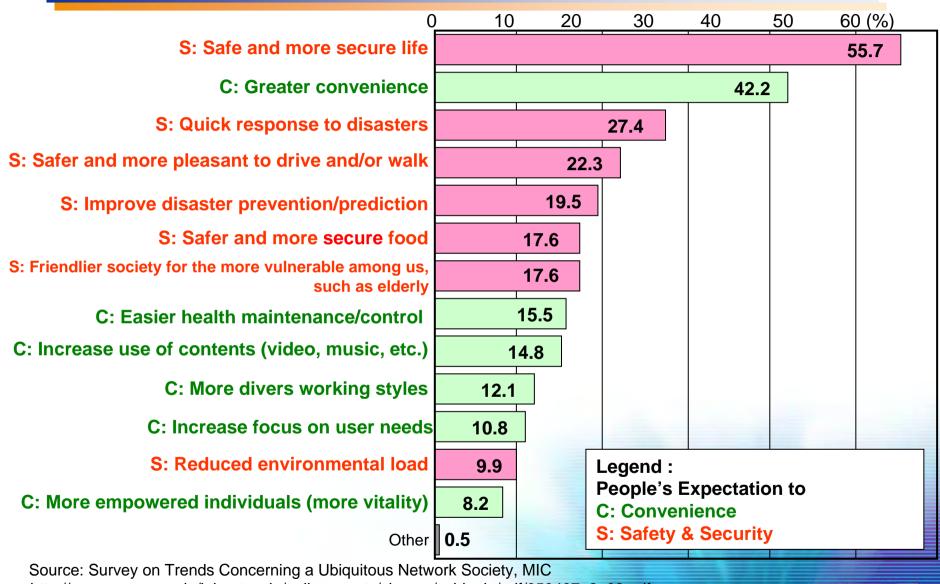
Damages of the Clime Change



Disasters threaten daily life.
May cause hidden panicky atmosphere in the world.
ICT can be a white knight?



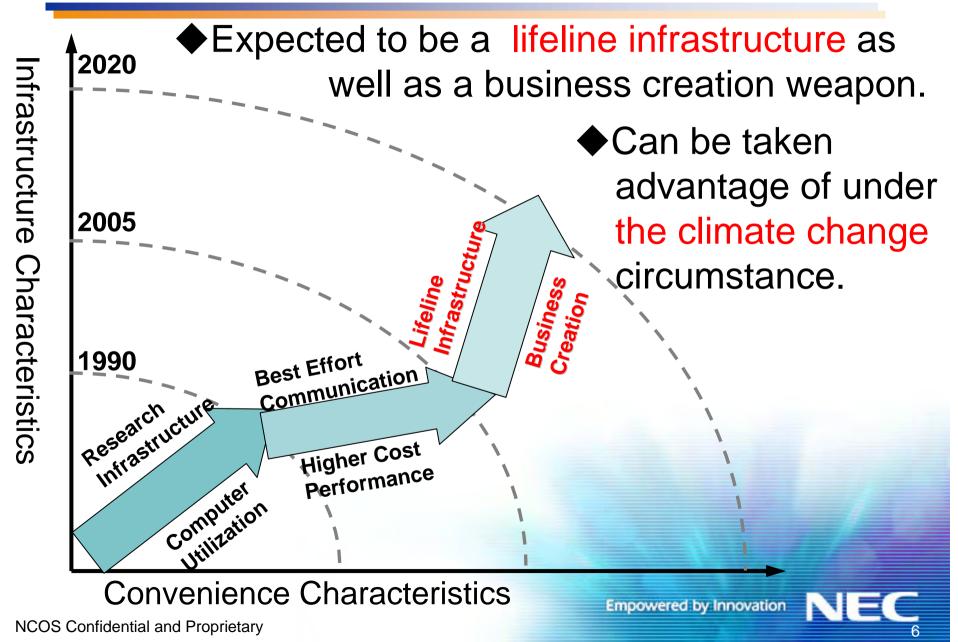
Opinion Survey in Japan



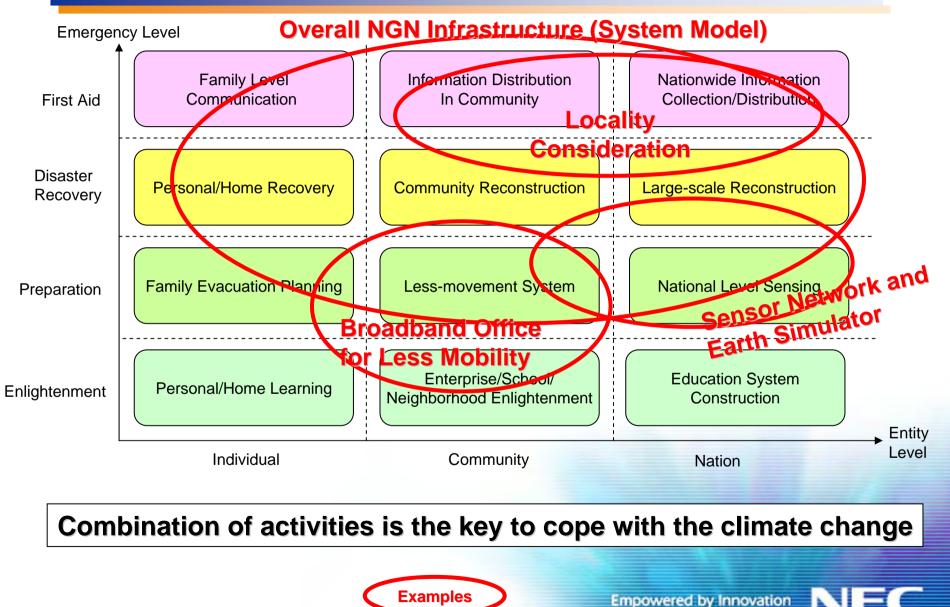
http://www.soumu.go.jp/joho_tsusin/policyreports/chousa/yubi_pla/pdf/050407_2_03.pdf



The Internet Growth and its Direction



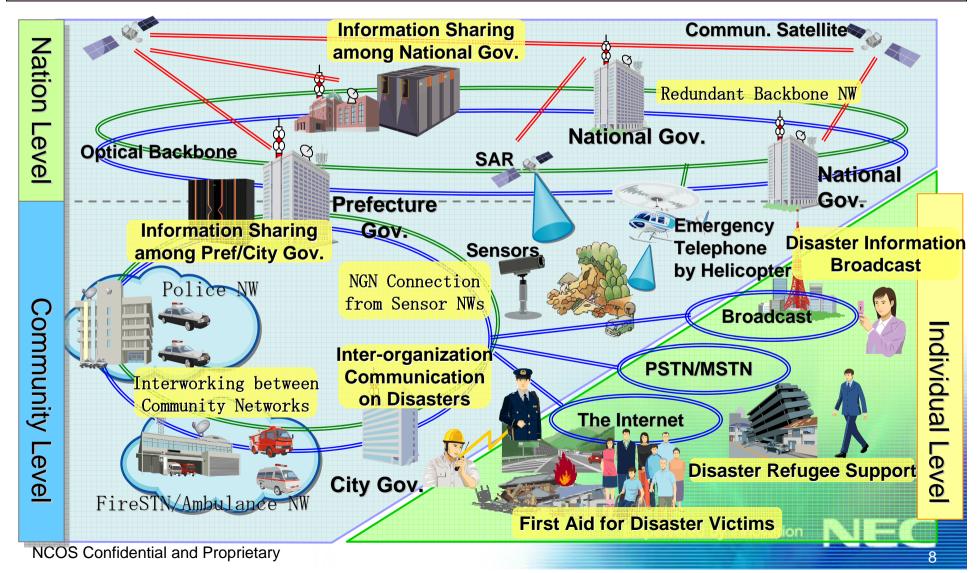
Overall Strategy



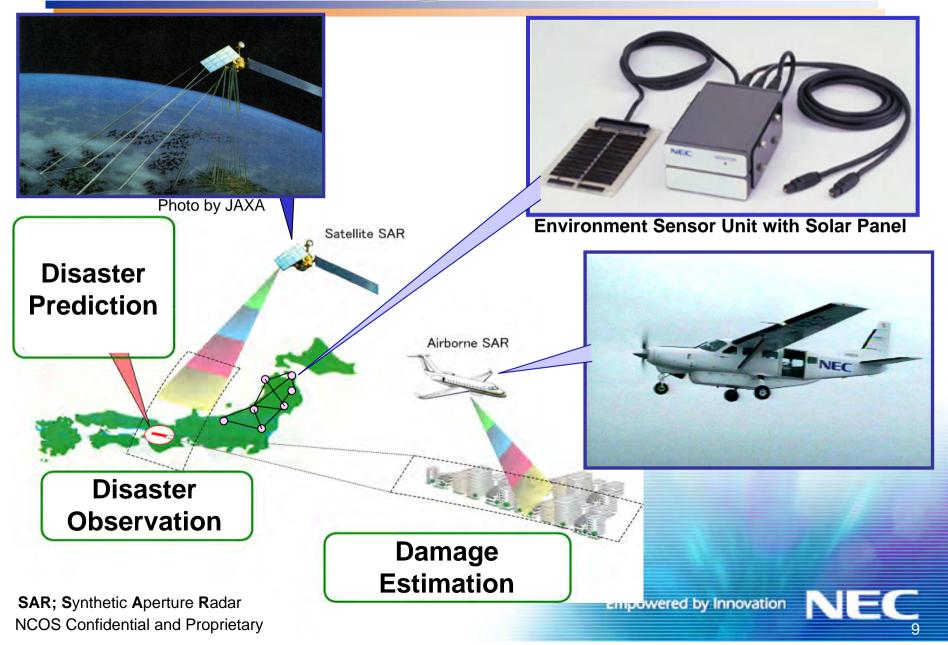


SAR; Synthetic Aperture Radar PSTN; Public Switch Telephone NW MSTN; Mobile Switch Telephone NW FireSTN; Fire Station

Combination of Dependable ICT among Organization

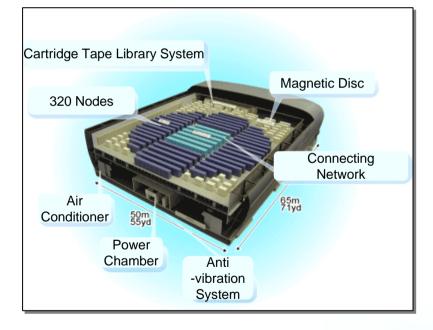


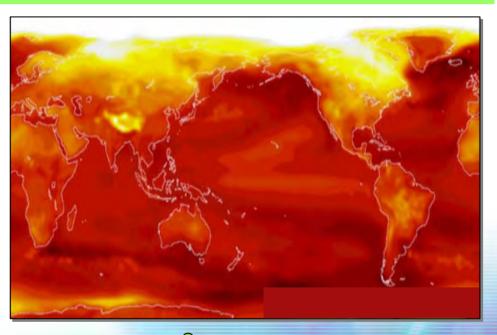
Sensing the World



Earth Simulator

Was the fastest super-computer.
Simulates global-level climates.
Taken advantage of by meteorology, agriculture, etc.





Visit NEC Booth for More Information

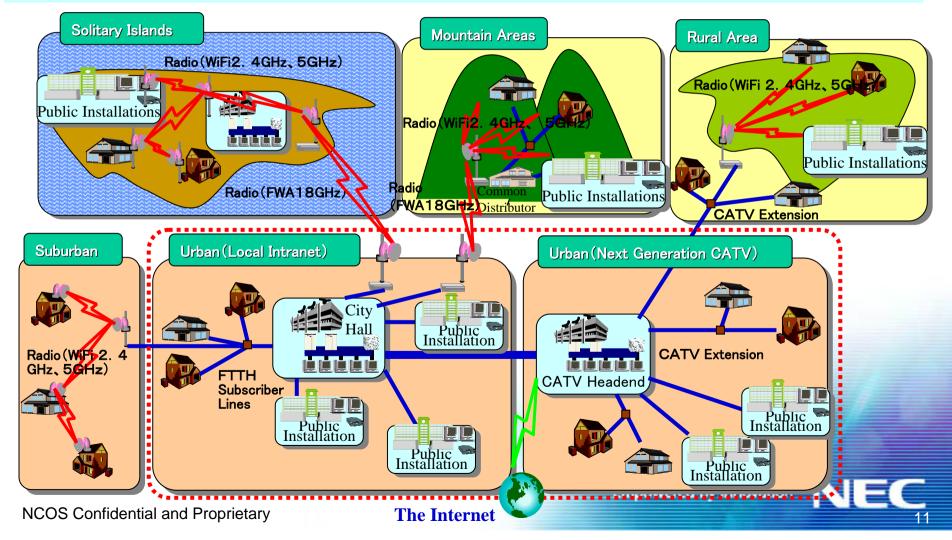
NCOS Confidential and Proprietary

Empowered by Innovation



Locality Consideration

No digital divide in case of disaster/preparation
 Standardization required for world level connection/collaboration



Broadband Office for Less Mobility

Less Mobility for Less CO2/Heatdisease. Green-evaluation Standard Required.

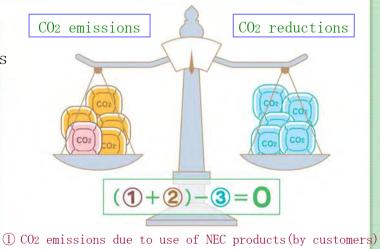


NEC's Vision

NEC Environmental Management Vision 2010

Prevent global warming by reducing NEC's overall net impact on CO₂ emissions to zero by 2010.

The NEC Group aims to be a truly excellent organization, one that promotes the development of social systems, business practices, and lifestyles and that contributes to achieving a sustainable society by providing IT solutions.



- ② CO2 emissions due to production activities
- ③ Reductions in CO2 emissions of customers and society through IT solutions

Conclusion

- "The Climate Change" is not a science fiction anymore.
- ICT must be a white knight for preparation/recovery.
- Strategic combination is necessary for Nation/Community/Individual level activities.
- Standardization by ITU-T is expected for global cooperation to cope with the climate change.







NEC launched the concept of "Ecology through IT" in FY 2002, and we are accelerating the proliferation of specific actions toward environmental management both within and outside NEC.







Thank you!

NCOS Confidential and Proprietary

