Panel Discussion on International Cooperation in the Civil Engineering Field

"Don't stay inside the country. Civil engineers shall cross the borders."

Katsuji Fukumoto Secretary General International Activities Committee JSCE

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2. International Cooperative Actions of JSCE

3. International Cooperative Actions of Civil Engineers in Japan

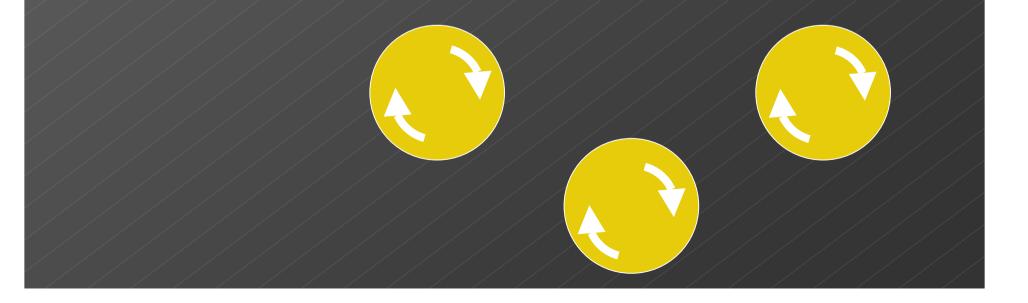
4. Expected International Cooperative Actions Now and for the Future



The area where civil engineers work will be expanded as the society becomes matured.



Activities of civil engineers are limited inside the own country.



The area where civil engineers work will be expanded as the society becomes matured.

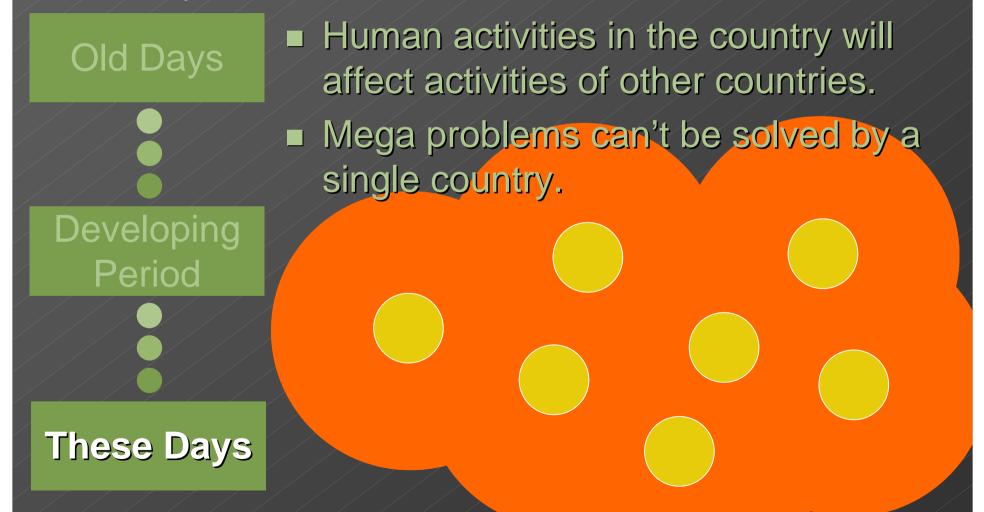
Old Days

Developing Period

 Activities of civil engineers are expanded to the foreign countries.

- For Importing advanced technologies
 - Technology exchanges
 - Exporting technologies

The area where civil engineers work will be expanded as the society becomes matured.



Civil engineers in related countries shall work together to solve confronting problems.

Pollution	Natural	Global	Climate
	disaster	Warming	changes

- Marine pollution
- Floating debris in the ocean
- Air pollution

Destruction of coral reef

By: National Institute for Environmental Studies

Civil engineers in related countries shall work together to solve confronting problems.

PollutionNatural
disasterGlobalClimate
changes

- Earthquake
- Typhoon Earthquake in Java Island

Hurricane Katrina in August 2005

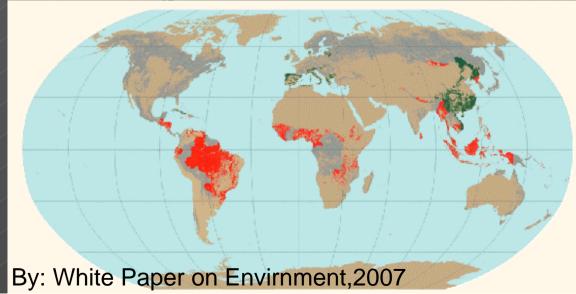


Civil engineers in related countries shall work together to solve confronting problems.

Pollution	Natural	Global	Climate
	disaster	Warming	changes

- Carbon dioxide

- Diminishing rain forest



Annual diminishing rate of forest in the world between 2000 through 2005



diminishing more than 0.5%



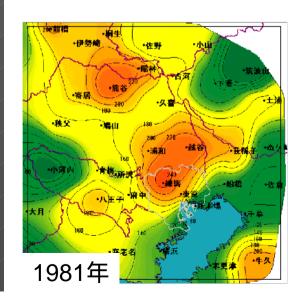
increasing more than 0.5%

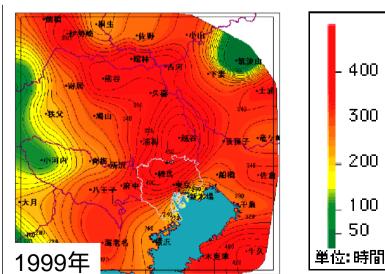
fluctuation within 0.5%

Civil engineers in related countries shall work together to solve confronting problems.

Pollution	Natural	Global	Climate
	disaster	Warming	changes

- Severe weather
- Heat island





Cumulative hours when temperature is more than 30 degree in Tokyo

400

300

200

100 50

By: White Paper on Envirnment,2007

International Cooperative Actions of JSCE

"Agreement of Cooperation" with 25 institutions

- ASCE, USA (1988)
- CSCE, Canada (1988)
- KSCE, Korea (1989)
- The Institution of Engineers, Australia (1990)
- SSCSE, Sweden (1990)
- ICE, UK (1991)
- CICHE, Taiwan R.O.C. (1992)
- CNISF, France (1993)
- PICE, The Philippines (1997)
- FECIC, Mexico (1988)
- ECCE, EU (1989)
- CCES, China (1989)
- / EIT, Thailand (1989)
- The Institution of Engineers, Singapore (1989)

- The Institution of Engineers, Bangladesh (2000)
- VCA, Vietnam (2000)
- The Institution of Engineers, Pakistan (2001)
- TCCE, Turkey (2001)
- The Institution of Engineers, Malaysia (2002)
- HKIE, Hong Kong (2002)
- MACE, Mongolia (2002)
- The Institution of Engineers, India (2002)
- NEA, Nepal (2003)
- The Institutions of Engineers, Indonesia :PII (2005)
- Korea Disaster Prevention Association, Korea (2007)

International Cooperative Actions of JSCE

International activities on the JSCE Annual Meeting

- Round Table Meeting
 Panel Discussion
- English Session



By: JSCE

International Cooperative Actions of JSCE

Annual Summer Symposium for International Students in Japan



өндөр

ISCE

International Cooperative Actions of JSCE

Recent Progress of Concrete/Steel

Organizing Joint Seminars

Барилгын менежментийн систем ба

モンゴル 日本 センター

By: JSCE

In 2006, 4 joint seminars were organized in China, Vietnam, and Korea.

5

International Cooperative Actions of JSCE

Study Tour Grant

Recent STG recipients 2003: MACE, Mongolia 2004: NEA, Nepal 2005: IEM, Malaysia 2006: EIT, Thailand 2007: PII, Indonesia



By: JSCE

International Cooperative Actions of JSCE

Emergency Relief Assistance

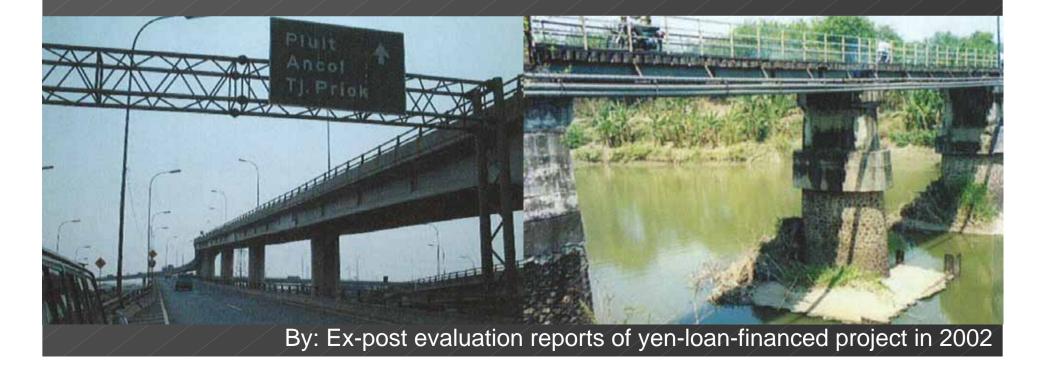
Dispatching disaster research teams 19 times since 1999



3. International Cooperative Actions Of Civil Engineers in Japan

A. Government

International cooperation through an economical assistant program is implemented through JICA and JBIC.



3. International Cooperative Actions Of Civil Engineers in Japan

B. University

Collaboration with overseas universities
 Organizing joint seminars



3. International Cooperative Actions Of Civil Engineers in Japan

C. Industry

 Organizing joint ventures for foreign projects – uniting advanced technologies and local expertise
 Technology transfer through joint ventures



4. Expected International Cooperative Actions Now and for the Future

Technical cooperation between Japanese civil engineers and local civil engineers is organized through the project, which is necessary in the local country.

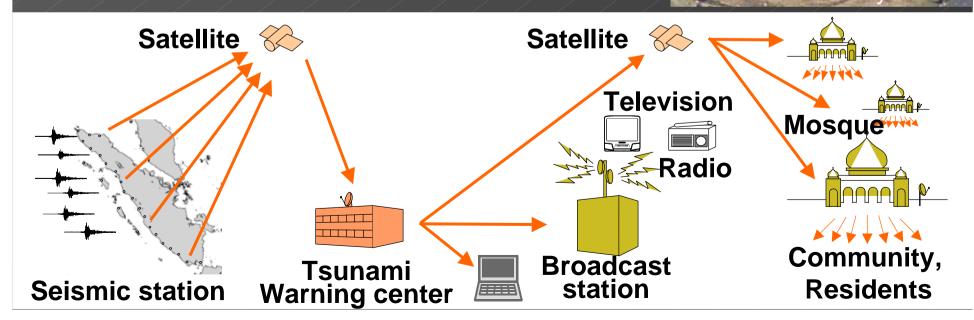
Technology transfer can be achieved through the real projects in technical cooperative manner.

4. Expected International Cooperative Actions Now and for the Future

Big project, which can't be solved by a single country

- Mekong River (ACECC)
- Other big river improvement projects
- Tsunami early detection and warning

- Typhoon early warning system



4. Expected International Cooperative Actions Now and for the Future

Technical cooperation is not limited to the construction field, but can be organized beyond the boundary of academic fields.

Biological and Agricultural Engineering and Civil Engineering

- Increasing output of agricultural products

- Ocean and Marine Engineering and Civil Engineering
 - Increasing output of fish products
 - Preserving environment of ocean
- Meteorology and Civil Engineering
 - More efficient irrigation system
 - Flood control system

Conclusion

Functions of Civil Engineer's Society are as follows,

Coordinating with organizations of other fields, such as agriculture, mechanical engineering, biotechnology

Coordinating researches and development of various universities and institutions

Initiating international cooperative activities

Organizing multi-national organizations

FIN

Thank you very much for your attention