NEAC12/6

Session3

Environmental Cooperation Initiatives of Local Authorities



REN Yong

Policy Research Center, State Environmental Protection Administration



Local environmental cooperation between China and Japan

1. Chinese government has long paid importance to both multilateral and bilateral environmental cooperation. Up to now, China has ratified 32 international environmental conventions and protocol and reached 50 bilateral environmental cooperation agreements.

2. Among bilateral environmental cooperation, cooperation between China and Japan has been one of the most successful and fruitful cases in many respects such as the range covered, the actor involved and the amount of funds input.

Local environmental cooperation between China and Japan

- 3. Substantial cooperation between China and Japan started in the early 1980s. The cooperated areas cover pollution control, research and technology development, capacity building, and training and environmental education.
- 4. While national government oriented cooperation smoothly and successfully keeps going forward, local initiatives between two countries has increased their presence since the 1990s.
- 5. Up to now, 193 Chinese cities from 26 provinces has coupled with their Japanese partners as sister/friendship cities, such as Dalian vs. Kitakyushu, Chongqing vs. Hiroshima, Shanghai vs. Yokohama.
- 6. Cooperation initiatives between friendship cities are very diversified and flexible in many respects.

Kitakyushu Initiatives for a Clean Environment in China

- 1. The Kitakyushu Initiatives for a Clean Environment was adopted at the Fourth Ministerial Conference on Environment and Development in Asian and the Pacific held in Kitakyushu Japan 2000.
- 2. Beijing Seminar on Kitakyushu Initiatives for a Clean Environment, March 2001: 13 Chinese cities.
- 3. Surveys and studies on successful practice of urban environmental management in ten Chinese cities.
- 5. The First Meeting of the Kitakyushu Initiative Network, Nov. 2001, Kitakyushu Japan: 4 Chinese cities as the first members of the Network.

Kitakyushu Initiatives for a Clean Environment in China

- 6. 2 of 11 Pilot Activities/ demonstration projects in China:
 - Weihai city on public-and-private partnership in wastewater management;
 - Chongqing city on urban air quality management
- 7. Thematic Seminar on Public-Private Partnerships for Urban Water Supply and Wastewater Treatment, Nov. 2002, Beijing China.
- 8. The Second Meeting of the Kitakyushu Initiative Network, Sept. 2003, Weihai China: several other Chinese cities involved in the Network.



Kitakyushu Initiatives for a Clean **Environment in China** Some implications Local authority has always been a key actor in implementation of 1. international environmental cooperation programs. Environmental cooperation between local authorities is getting more 2. and more active now and gradually getting into a mainstream of national bilateral cooperation. Environmental cooperation between local authorities is a more 3. direct-dialog-oriented, needs-targeted and flexible approach, yet, National government always plays an important role in promoting 4 local initiatives of environmental cooperation. Local environmental cooperation could be very diversified, however, 5. necessary financial and technological inputs need to promote substantial activities of cooperation. Therefore,

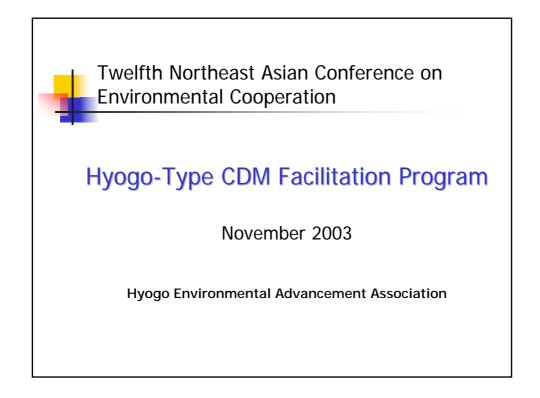
Kitakyushu Initiatives for a Clean Environment in China

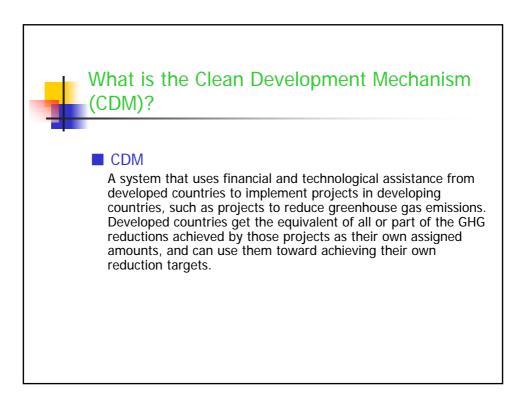
Some implications

- 5. National government, international and regional organizations, and private donors are importantly invited to involve in local cooperation.
- 6. Experiences and lessons from developed countries are useful to latecomers learning, at the same time, the successful or failure stories which are going on in one developing countries are more relevant to other developing countries.
 - China would like to share its experiences and lessons of environmental protection with other developing partners.

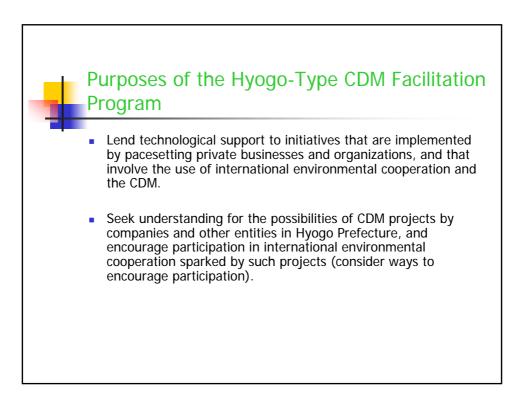
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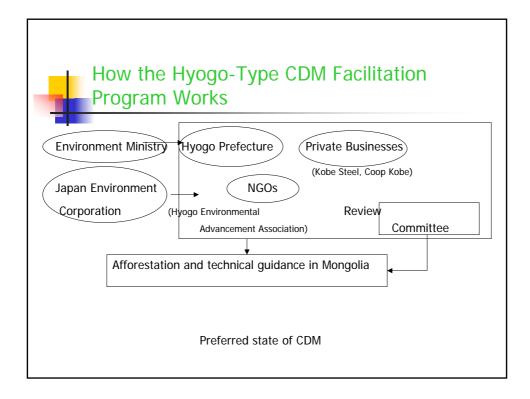


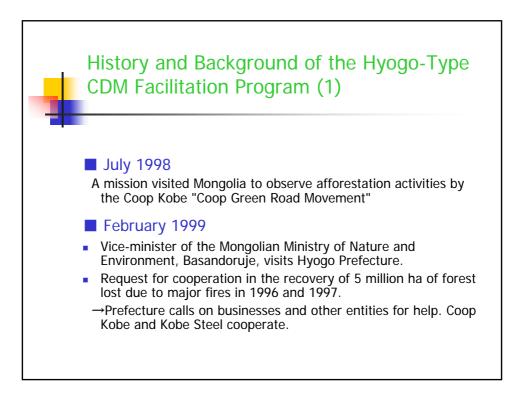




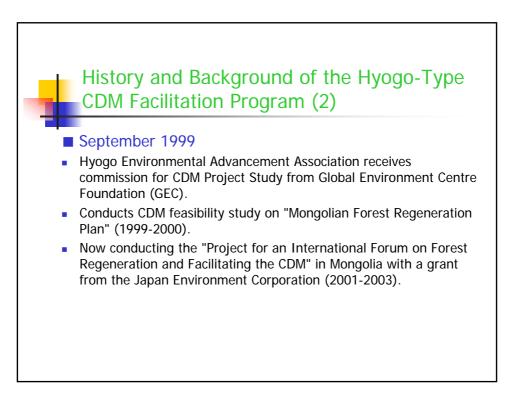














June 2001

- Hyogo Prefecture launches Hyogo-Type CDM Facilitation Program Project as an Environment Ministry "International Environmental Cooperation Model Project.
- Links up with Hyogo Environmental Advancement Association's "Mongolian Forest Regeneration Plan Assistance Project" (2001-2003; in 2003 the Hyogo Environmental Advancement Association will implement the plan under a commission from the Overseas Environmental Cooperation Center).

ect Plan		
2001	2002	2003
 Review 		
Committee (twice		
a year)		
•On-site studies		L
		•CDM Project
• •		Manual
•	 Monitoring of 	 Invitations to
	afforestation area	engineers, training
International	 International 	
forum (Mongolia)	forum (Mongolia)	International
		forum (Mongolia)
 Asking businesses ; 	and others	
-	Committee (twice	•Review Committee (twice a year) •On-site studies and guidance by experts •Preliminary survey •International •Monitoring of afforestation area •International

Hyogo-Type CDM Facilitation Program Project Description

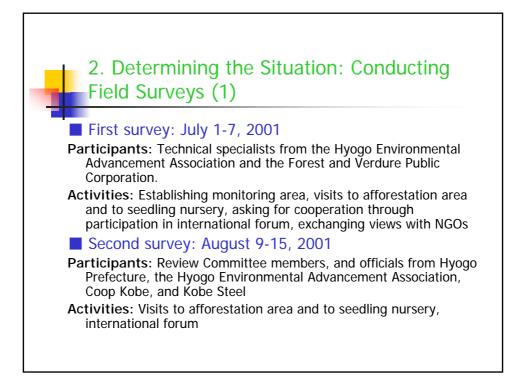
1. Studies to ascertain the state of initiatives by businesses and involved organizations in the prefecture

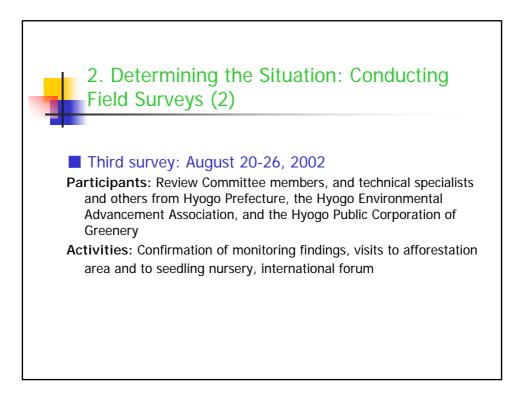
2. Meetings of Hyogo-type CDM Facilitation Review Committee

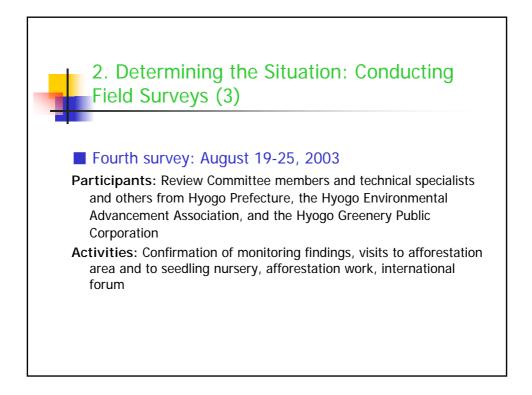
3. Visits to afforestation sites in Mongolia

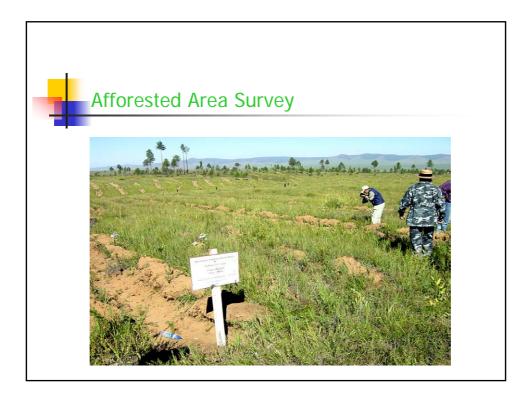
4. Cooperation with International Forum on Mongolian Forest Regeneration







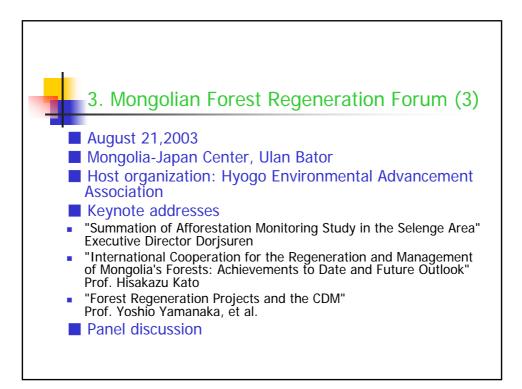




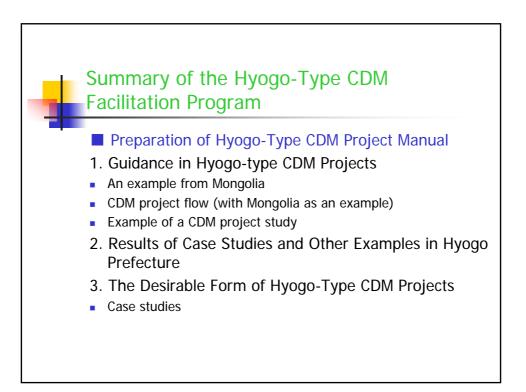


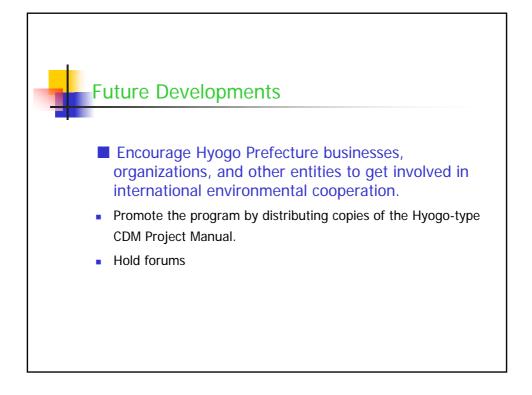












□ Session 3

Environmental Cooperation Initiatives of Local Authority in North East Asia:

-Based on Seoul City's Experiences and Potential Lessons-

2003.11.25



WoonSoo Kim : woonkim@sdi.re.kr Seoul Development Institute



- Challenges for Sustainable City Initiatives
- Community-Based Environment Protection **Through Citizen Participation**
- Seoul City's Experiences and Potential Lessons
- Environmental Cooperation of Local Authority in pursuit of Sustainable City
- Concluding Remarks

Challenges for Sustainable City Initiatives

Issues on New Paradigm

- Introduction of ESSD to Urban Development
- Sustainability is the Key Idea
- Environment is the necessary Condition
- Transition of Role Definition

The role of the locality in environmental management is increasingly coming to the fore.

Sustainable development has become one of the touchstones of urban policy in recent years.



- Changes in the urban environment:
- Globalization
- Increased use of information
- Localization
- Increased power and awareness of rights of civil society
- <u>Good Governance</u> is the term that symbolizes the paradigm shift of the role of governments.
- How to pursue sustainable city?

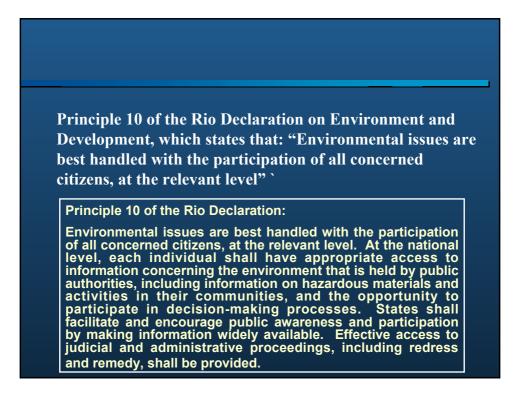
The generic characteristics of good governance are such as participation, rule of law, transparency, responsiveness, consensus orientation, equity, effectiveness and efficiency, accountability, empowerment, and partnership. Community-Based Environmental Protection through Citizen Participation

Mechanisms for Public Participation

- Voting
- Public Referendum
- Non-binding Direct Involvement
- Binding Direct Involvement

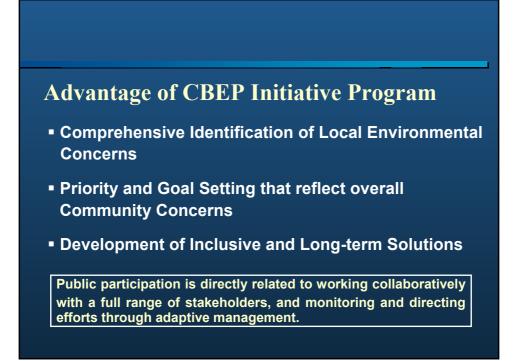
The theory of citizen participation has translated into numerous provisions, initiatives, and approaches. Often woven into the very fabric of policymaking, public participation falls into four broad categories.

Public participation is defined as the legal right and practical opportunities to affect decision-making, e.g. through statements to authorities making decisions on an activity, project, plan, process or programs.

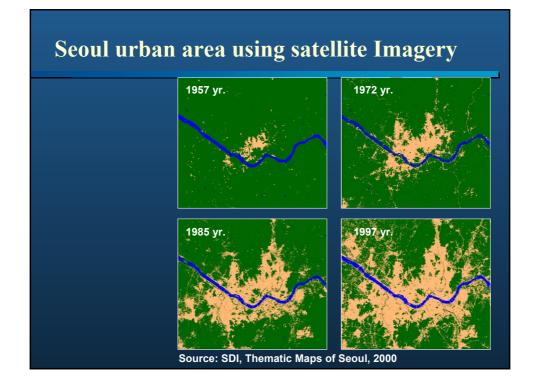


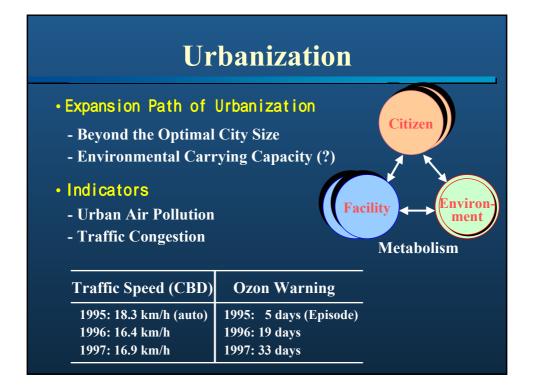
Principles of Community-Based Environment Protection (CBEP) Initiative Program

- Focus on a definable area
- Work collaboratively with a full range of stakeholders
- Assess the local quality of the air, water, land, and living resources as parts of a whole
- Integrate environmental, economic, and social objectives and foster local stewardship of all community resources
- Use the appropriate regulatory and non-regulatory tools
- Monitor and direct efforts through adaptive management









Past, Present,	Past, Present, and Future	
• Land Use Pattern - Residential Area: 49.8% - Open Space : 41.9% - Others : 8.3%	1958	
• Future Urban Development - Sustainable Development - Environment-friendliness	1972 1978 1978	
• Key Factors for Consideration - Transportation - Air Quality	1985 1990	

Air Pollution in Seoul



Statement of the Problem Visibility

v

Air Quality Trends

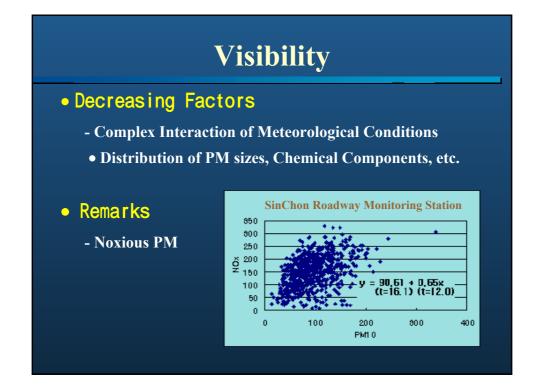
Area-wide Air Pollution

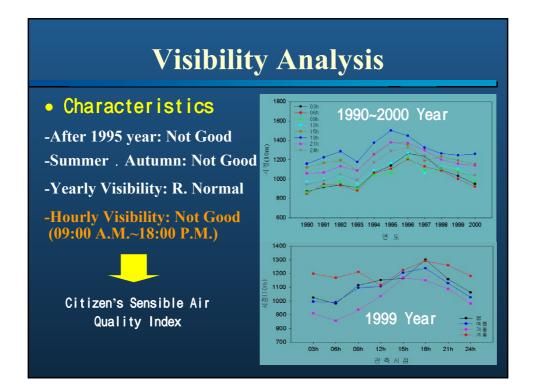
Paradigm Shift in Seoul

Statement of Problem: Air Pollution

• Natural Condition:

- Pollutants from West, North-West by Inverse Urban Form
- Basin Area Surrounded by Mountains
- Characteristics of Population/ Land-Use – High Density · Over-Crowded than Carrying Capacity
- Transport Urban Planning
 - Increase of Total VMT
 - Excessive Travel Demand
 - Short-span of Transport and Land-use Plan
- Energy Consumption Industries – High Dependency on Energy Consumption





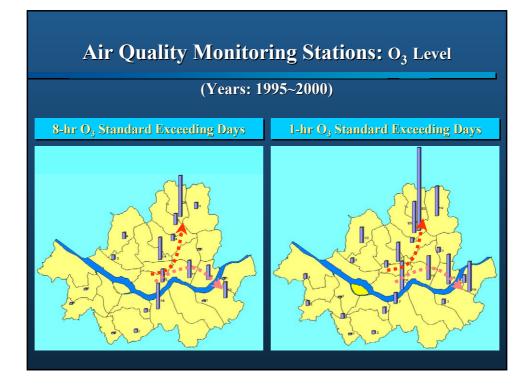
Air Quality Trends

• 1985~2000 Year

- Decreasing Pattern: SO₂, PM10(within WHO Recommendation)
 - Supply of Clean Fuel, Road Pavement, etc.
- Incremental Increase of Pollution Level: NO₂, O₃
 - Traffic Flows, VOC Emissions
- Seasonal Properties : Summer(O₃), Spring(Dust, SO₂)

• Key Properties

- Satisfaction of Long-term Ambient Air Quality Standards
- Increasing Episode Days of Short-term Standards
 - PM10, NO₂, O₃(North-East, South-West Region)
- Area-wide Smog Occurrence



Area-wide Air Pollution Problems

• KeyongGi Province

- Population Increase and Industry Location
- High NOx Emission from Power Generation Facility

• InChon City

- Transport and Power Plants: High
- Industry Complex : VOC and Od

• Implications

- Area-wide O₃ Episodes Days

- Influence from Surrounding Cities
 - NO₂ (KeyongGi
 - SO₂ (InChon

PM (InChon

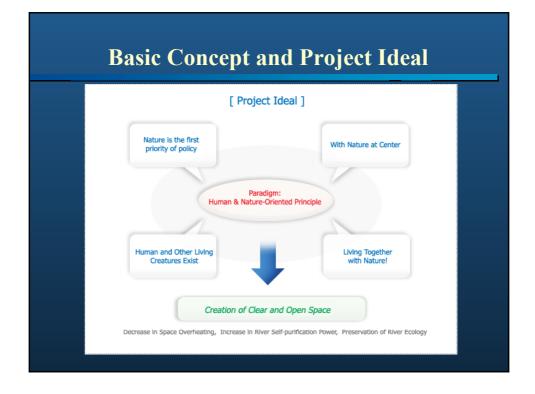


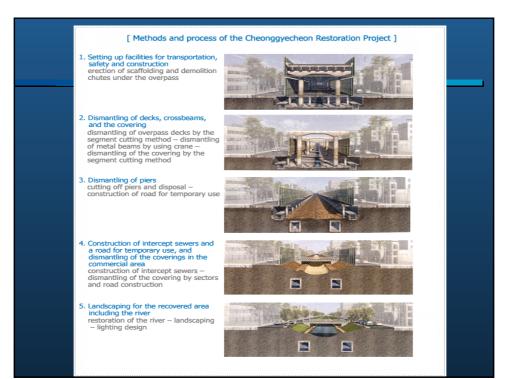
Daradigm Shifts to ESSD Principles with Building Good Governance in Seoul Since UNCED (Rio Conference in 1992) suggested the ESSD, Environmentally Sound & Sustainable Development, as the world project for the next generation, the Seoul city has tried to protect and reorganize the urban environment. Citizen participation as a way of building good governance is being implemented to deal with environmental problems efficiently.





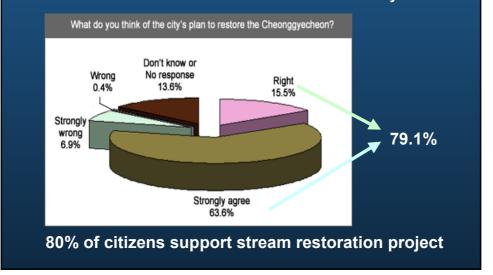


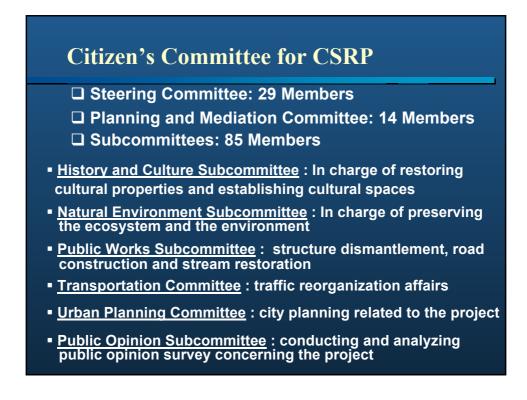






 Telephone survey of 1,000 citizens over 20 years old from Aug. 11 to 14 to find out how much people are aware of the project, and whether they are satisfied with the city affairs since the launch of the CSRP July 1 2003.



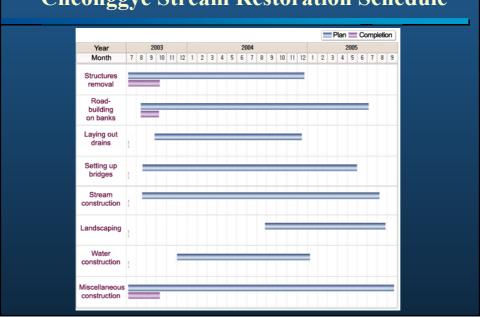


Brief view of Citizen's Committee for CSRP

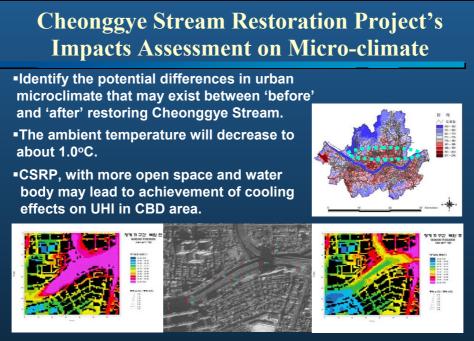
The Citizen's Committee for CSRP is made up of citizens representing various social circles and experts in the environment, culture and traffic fields.

The Committee do research, review initiatives and make a decision on the project. It also implements the project closely with the executive organization, the CSRP Headquarters of the Seoul Metropolitan Government, and the research group of the Seoul Development Institute (SDI).

The Committee members are made up of as follows: 53% of experts in related fields, 17% of civilian groups, 16% of citizen representatives in the fields of religion, economy, law and the media, and 16% of the city councilmen and general directors from relevant offices or divisions.

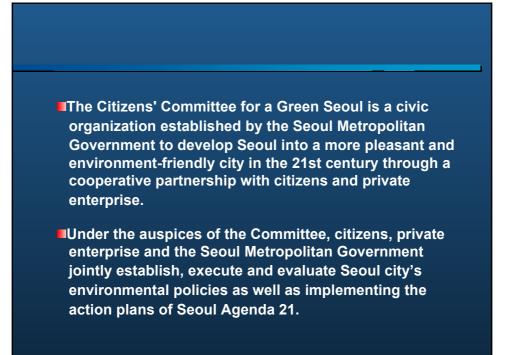


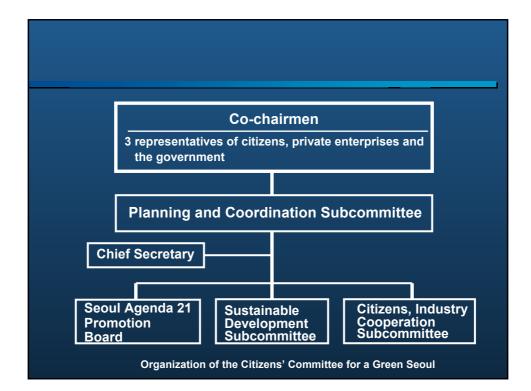
Cheonggye Stream Restoration Schedule



Microclimate Change Before/After Cheonggye Restoration Project







Institutionalization of Citizens' Committee for a Green Seoul

Overview

The Citizens' Committee for a Green Seoul has been institutionalized over three stages, each of which introducing changes in the characteristics and the status of the Committee.

1st stage

A transformation from the stage of cooperation and settlement among different interest groups over the issue of participation in the environmental administration of the Seoul Metropolitan Government to the stage where various groups sought compromise and cooperation to facilitate sustainability took place.

2nd stage

A transformation from the stage where compromise and cooperation over the issue of establishing independent organizations (i.e. Sustainable Development Council) to realize sustainability to the stage where confrontation, compromise and cooperation among interest groups over the methods and strategies to promote sustainability (i.e. formulation, revision and implementation of Agenda 21) was achieved.

3rd stage

At first, confrontation and conflict among the three sectors of citizens, private enterprises and the government amounted to a serious crisis in partnership. However, the Committee was able to overcome the crisis through a compromise on the principle of collective governance, as reflected in the drafting of the Ordinance.

Measurement Method for Sustainability Index of Seoul Agenda 21

ITEM	INDEX(unit)	MEASUREMENT METHOD
	Per capita oil consumption(unit#)	Per capita oil consumption (gasoline, diesel oil, kerosene, Bunker-C oil) - Annual statistics, Seoul city
Seoul, a city where	Number of ozone alerts(frequency)	Number of ozone alerts - Seoul city
the air is fresh and	Emission from motor vehicles	Statistics on volume of air pollutants generated
clean	(10,000 tons)	nationwide - Ministry of Environment
	Noise in residential areas along	Measurement of noise in residential areas
	roadsides(dB)	along roadsides in Seoul - Seoul city
Seoul, a city where children can enjoy	Water quality of Han River(BOD, mg/l)	Measurement of water quality of Han River - Seoul city
playing in water as	Per capita water consumption(1)	Average volume of piped water production ÷ pollution x leakage ratio
much as they please	Number of streams being restored to their natural condition(number)	Survey by Seoul city and district governments
Seoul, a city where	Per capita volume of waste generated	(Total volume of waste generated reduction
the citizens work hard to reduce	(kg/person)	and treatment at source of generation) ÷ population
waste and recycle it into useful	Recycling ratio(%)	(Recyclable goods collected ÷ total volume generated) x 100
resources	Food waste generation(kg/person/day)	Total waste generated ÷ population

ITEM	INDEX(unit)	MEASUREMENT METHOD
	Ratio of urban green areas(%)	Statistics on current state of parks - Seoul city
Seoul, a city where	Number of wetlands to be created	Survey of implementation performance of Se
wildlife has		city and district governments
returned	Number of freshwater fish species in the	Survey of ecosystem of the Han River - Seoul
	Han River	
	Citizens' satisfaction with pedestrian	Survey of citizens' satisfaction - Seoul city
Seoul, a city where	environment(based on scale of 0 to 100)	
the streets are	Ratio of cars stopping before the stop	Survey of traffic volume - Green Consumers
pleasant, and	line at crosswalks	Network
where promenades	Citizen satisfaction with public	Survey of citizens' satisfaction - Seoul city
and public	transportation system	
transportation are	Number of pedestrian fatalities in traffic	Statistics on traffic accidents - National Polic
favored.	accidents(person)	Agency
	Number of bicycles per household	Survey - Seoul city
Seoul, a city where	Per capita park area in residential areas	[park area - (national parks + urban natural
citizens work		parks + other parks + areas of cemeteries)]
together to create	L	population
a pleasant and	Citizens' environmental conservation	Survey by Seoul city and district government
friendly environment	programs supported by Seoul city	
Seoul, a cultural	Number of cultural facilities	Survey by Seoul city and district governmen
center imbued with	Number of experts in district culture	Survey by Seoul city and district government
the richness of	Number of cultural programs per district	Survey by Seoul city and district governmen
history and nature		
	Ratio of convenience facilities	Ratio of convenience facilities - Seoul city
Seoul, a city of	Number of youth halls	Number of youth halls - Seoul city
neighborly	Ratio of employment of the elderly	(Number of the elderly employed through the
togetherness		municipal employment service center ÷
	Lii	population of the elderly aged 65 or older)x 1
	Ratio of economically active women	White paper on Women - Seoul city









Session 3. Environmental Cooperation Initiatives of Local Authorities

The Integration of Efforts of the Regional Authorities and the Local Population and Their Governmental Support in Russia

T. Petrova, Ministry of Natural Resources RF

The rising importance of the local environmental initiatives for the national and global sustainable development and recognition of this fact by the governments and international organizations is a common feature of the modern society. The World Summit on Sustainable Development in 2002 in Johannesburg and its follow-up processes have been significantly influenced by the different stakeholders initiatives.

In Russia it has been facilitated by the following factors:

- 1. The enhanced capacity of the different social groups in identifying their environmental interests and building partnership with governmental bodies and international organizations and financial institutions that is in turn the result of their involvement into the environmental project implementation.
- 2. The decentralization of the governmental functions in the environmental sphere.

The involvement of different stakeholders into the environmental protection activity is an implication of ideas of the sustainable development when the environmental objectives are integrated with a poverty reduction, social progress, etc. In practice it can be achieved through the institutional support and capacity building projects.

The integration of local initiatives and governmental measures in Russia in most cases has being achieved through the following stages:

1. First the non-governmental organizations or local communities upon their initiative launch the pilot projects. Sometimes they are based on the financial support of the international organization responsible for implementation of the global environmental conventions and agreements.

2. Inspired by the good output of the projects the regional administrations formulate the Plan of Actions in the follow-up of those projects, adhere the local legislation in accordance with an innovative practice of environmental protection activities prior to the federal acts.

3. Further on the competent federal body accumulates and assesses this experience to incorporate it into the national environmental strategies (for example, the Ecological Doctrine of Russian Federation) or federal programs (the Federal program "Ecology and Natural Resources").

Integration and coordination of local initiatives within the framework of the large-scale strategies under the governmental support provide their legislative and institutional base and facilitate the inflow of financial assistance.

Usually the "pilot projects" are of small scale in respect to territory size and number of involved participants and addressed to the objective of limited local significance.

"Model forests" project in the Komi Republic or Khabarovskiy krai is a good example. They proved their effectiveness at a pilot stage and further on have been developed into the administrative plan of actions.

There should be also mentioned the joint Russian-Japanese projects on forest management by local communities (participatory approach) in Siberia. They are supposed to be used by the Japanese part to offset the obligations of the Kyoto Protocol as joint implementation projects in future. The most promising forms of the local population involvement are:

- participation in the forums, conferences and new institutional bodies (coordination committees) aimed at formulation and implementation of regional strategies of sustainable development (Local Agenda 21) or environmental challenges.
- participation in the environmental monitoring and nature management (eco-tourism,etc.).

The Ministry of Natural Resources of Russia renders support to the local environmental projects of international cooperation in the NEA region on bilateral and multilateral base.

The joint commissions of Russia on environmental protection with the NEA countries (Russian-Japanese Joint Commission on Environmental Protection, Russian-Chinese Working Group on Environmental Protection, Russian-Korean Joint Committee on Environmental Protection) have performed the inventory of bilateral local projects launched by regional administrations and local communities in the Russian Far East.

Those activities are:

Implementation of the bilateral conventions on Migratory Birds protection (Russia-Japan, Russia-Republic of Korea)

At the recent Russian-Japanese meeting on the Migratory Birds Convention (22-24 Oct., in Khabarovsk) there have been summarized the activities on joint project implementation, such as:

North East Asian Crane Site Network Workshop (1997), Amur Wetlands assessment (1998-1999), Census and banding of migratory songbirds (1997-2003), Ussury valley waterbird inventory (1999-2000), Amur down-stream waterbird survey (1999-2000), Fish owl study (2000-2002), Amur 2000: Oriental white stork and Amur wetland protection, etc.

As for these projects the federal and local administrative bodies provide major contribution through the management and support of existing nature protected areas and the wetland sites important as bird habitats, wintering sites and flyways and also the establishment of new protected territories. On the other side the involvement of citizens in this activity is also important mainly in the form of performing the census and banding of migratory birds along the flyways and monitoring the routs of their migration.

In this respect the arrangement of seminars and training courses with citizens, the publication and distribution of the project results, also atlases of bird species are the most efficient activities in respect of extension of participants contigent. The output of the projects is the Amur wetlands map, the inventory (cadaster) of wetlands, so on. The future output is the planed publication of the book - "Birds of the Amur".

In this respect we also welcome the idea of the NEA to launch project on environmental education on wetlands.

Strategic Plan of Actions "TumenNET"

The severe environmental threats in the estuary of the Tumen River made it necessary to introduce advanced mechanisms of biodiversity and transboundary waters protection and involvement of inhabitants of this region. To start the implementation of the Strategic Plan the establishment of the biosphere natural reserve in the lower river by efforts of three countries – China, Russia and North Korea is now under way. The participation of the local population in nature reserve planning activities is a compulsory component of the project.

The Plan of Actions on the biodiversity Protection of the Baikal Region

The principal output of the Baikal Component of this GEF project (1997-2002)

- the Plan of Actions of Baikal Region Biodiversity Protection that had been developed on "bottom-up" approach. The program of small-scale grants "Local Initiatives" encompassed more than 1,5 th. project proposals.

The Subjects of Federation have been coordinated through the Supervising Committee. The enormous number of participants has been integrated within the Baikalskaya Declaration.

The outputs of the project are: 1) protection of plant and animals species, 2) establishment of new nature protected areas, 3) rehabilitation of natural landscapes, 4) the rising environmental awareness, 5) new base data on plant and animal diversity prepared by local communities.

Under the support of the Japanese Government there has been produced the General Plan of the eco-tourism development in the Baikal region (1993-1995). The objective of the Plan – to define the admissible environmental load on the Baikal ecosystems.

Strategic Plan of Actions on Amur Protection

At present the environmental situation at the Middle and Low Amur is recognized as the most critical in the NEA region. The decline of drinking water quality and contamination of river fish stock is aggravating the social problems. It is now recognized by the international community that situation should be radically changed in the nearest future. The approval of the comprehensive Plan of actions covering a huge territory and based on fixed deadlines is urgent.

This year the government of the Khabarovskiy krai initiated the establishment of the Interregional committee encompassing the 6 Subjects of Federation adjacent to the Amur River basin with co-ordinative functions under support of the territorial bodies of the Ministry of Natural Resources RF. A notable contribution was from the NGO (especially the WWF)

This idea has received a support from international organizations (UNEP-GEF) as a large-scale project "The Comprehensive Management of the Amur River Basin" aimed at mitigation of environmental threats to the Transboundary River Amur. The project has two objectives – to develop the general management pattern and mechanisms of its implementation followed with a number of pilot projects and development of international cooperation model in the Khanka lake basin. The participants of the project – Russia, China and Mongolia. They are expected to make the equal conceptual contribution to the development of the new water basin management mechanisms.

Some of them have been already considered at the International Conference on the Environmental Problems in the NEA Region in Khabarovsk on 3-7 th November.

The Russian part is actively developing the mechanisms of involvement of all stakeholders for implementation of Amur River Strategic Plan. A new concept of the Russian-Chinese cooperation - the "Green Belt" has been proposed upon the initiative of the NGO first of all the WWF and the local inhabitants. During a visit of the Chinese Minister on the Environment to Moscow on 11th August this year a presentation of this concept by the WWF was done in the Ministry of Natural Resources. The main idea of the concept – the establishment of network of the key nature protected areas equally by Russian and Chinese parts with different type of restriction on economic activity.

There has been established the Working Group of NGO and 8 subgroups. Just soon before the Conference in Khabarovsk there has been implemented the marathon campaign "Nature Reserve Wave", the seminars have been held that resulted in the creation of "initiative groups".

The projects of the Northern Forum

Some regional authorities in the Russian Far East have an experience of participation in the international organization "Northern Forum".

For example, Sakhalinskaya oblast (in cooperation with the territorial body of our Ministry) is an active participant and the initiator of a number of projects. The participation in the working groups on Environmental education and the Brown Bears protection has been appreciated highly. The future cooperation projects within this organization – "Eco-tourism in the North", "Joint training on response measures in the extraordinary situations", etc. *The climate change projects*

The climate change projects represent good opportunities for involvement of different stakeholders into the international cooperation. This type of activities has been actively developed in the NEA countries. The capacity of Russian organizations is not used at full extent.

The reason is that the national strategy providing the implementation of the national obligations of the Kyoto Protocol in Russia has not yet been developed. The official and non-formal organizations responsible for the cooperation between governmental, public and private sectors of Russia with those of other countries are still being developed.

In the course of the World Conference on Climate Change in Moscow (29 Sept-3rd Oct) the documents were formulated the documents on the consolidation of the civil society to prevent and mitigate the negative effects of the climate change.

A notable contribution in this respect has been done by the Russian Regional Environmental Center. It renders support to the ideas of the Renewable Energy and Energy Efficiency Partnership – REEEP of the WSSD and took part in its presentation.

The development of the renewable energy projects is crucial for Russia and its Far East regions rich in this type of energy and by far suffering a great shortage of energy supply.

Prior to the ratification of the Kyoto Protocol the Ministry of Natural Resources renders support to all types of the climate change projects in the framework of the Russian-Japanese Joint Environmental Commission – educational, forest, inventory projects (greenhouse gases sources and sinks), etc. that to a great extent need a support of citizens and local communities. A good opportunity in this respect is provided my a number of pilot projects on greenhouse gases inventories in separate regions of Russia.

We also find very promising the idea of establishing the capacity building centers on climate change in Russia on cooperation base with the NEA countries including their municipal organizations within the "Kitakyushyu Initiative" framework.

Summarizing this presentation we want to propose the most important directions for cooperation of local authorities in the NEA region that are of mutual significance and boast good experience and institutional framework for cooperation activities:

- protection of the transboundary waters and their ecosystems;
- biodiversity protection (including all types of ecosystems);
- climate change projects;
- ecotourism;
- capacity building, etc.