Integrated Basin-wide Development in Central Japan

Management of river basins was mainly river works, but nowadays has been added another aspect, producing good water environment, biodiversity, climate change and promotion of regional development which is needed for preservation of local communities having severe problems of aging and depopulations. * River Basin is a unity area of nature, history, culture, climate, transportation

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Development

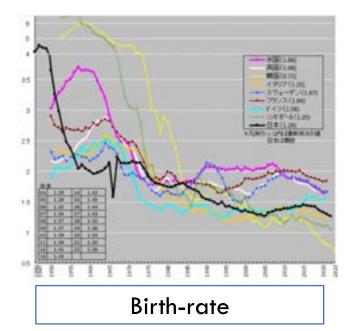
Challenges in JAPAN.

Climate-change,
Bio-diversity,
Disaster (Earthquake, Flooding)
Regional Promotion
(←Declining Birth-rate, Depopulation)

These are nation-wide.



Lifted up by Earthquake



Municipal Governments Have Important Roles

Not only national government, but also each municipal government have the responsibility of These Challenges.



Municipal governments have important roles because the countermeasures for these wide and various problems should be done by municipal governments according to national policies.

Some Considerations

First Point is the countermeasures are various and different in regions or parts of JAPAN according to condition of nature, history, culture and so on. But countermeasures should be executed by the coalition of municipal government because of efficiency and effect of



Governance

The coalition, well organized area, is a wide area or region of river basin in the Central JAPAN.

An organization is needed similar to one government of basins area.

It is difficult to establish the government in JAPAN like "Water Agency" of France because of differences of laws and historical conditions.

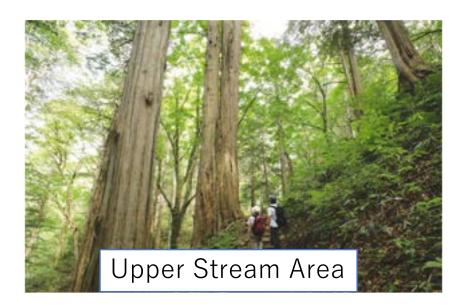


France 6 basins and Water Agencies

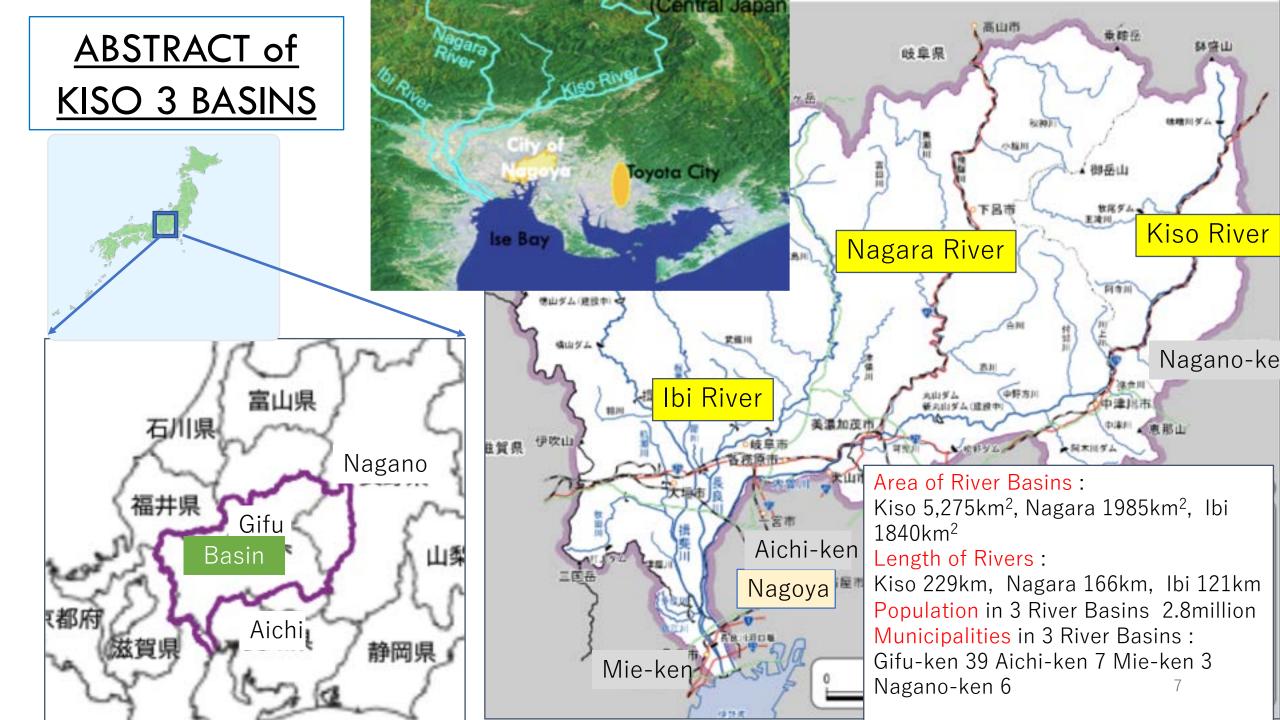
Collaboration of Municipal government of River basin-wide

Next Point is the necessity of a collaboration of municipal government of river basin-wide.

Introducing Integrated Basin-wide Development in Central Japan, in Kiso 3 river basins + Water (includes irrigation, industry) receiving Area







Area of River Basins:

Kiso 5,275km², Nagara 1985km², Ibi 1840km²

Length of Rivers:

Kiso 229km, Nagara 166km, Ibi 121km

Population

In 3 River Basins 2.8million

Municipalities

In 3 River Basins:

Gifu-ken 39 Aichi-ken 7 Mie-ken 3 Nagano-ken 6

Kiso 3 river basins + Water receiving Area



Municipal Cooperation In Kiso 3 Rivers Basins

The City of Nagoya suggested that

Taking the opportunity of holding COP10(Biodiversity) in 2010.

The Municipal Cooperation in The Kiso 3 Rivers Basins was established by 28 Municipal Governments in the basins of Kiso 3 rivers in 2011.

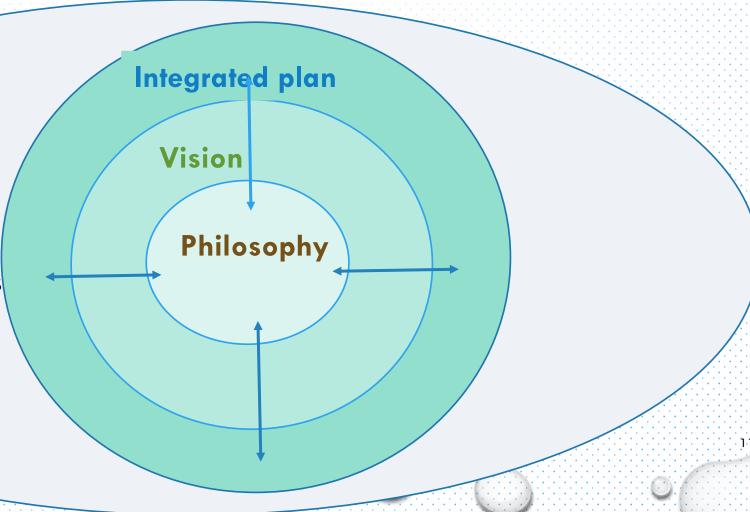


4 Factors For Integrated Management Of Municipal Cooperation



Governance
By Municipalities

Municipal governments Public, Private Sectors Citizens



4 Factors

For Integrated Management Of KISO 3 River Basins

Philosophy

Sound Water Cycle & Livings are Alive Lively and Sustainably

Vision: Image Of Philosophy

Healthily Water Circulates (Vaporization, Falling, Flow, Infiltration) from mountains to sea areas for variety of Livings will be alive, lively and sustainably

Integarated Plan: Plan For Implementation Of Vision

The plan of Water Use, Irrigation, Flood Control, Hydroelektric Power, Land Subsidence, Material Cycle, Water Environment, Biodiversity, Climate Chang, Regional Promotion

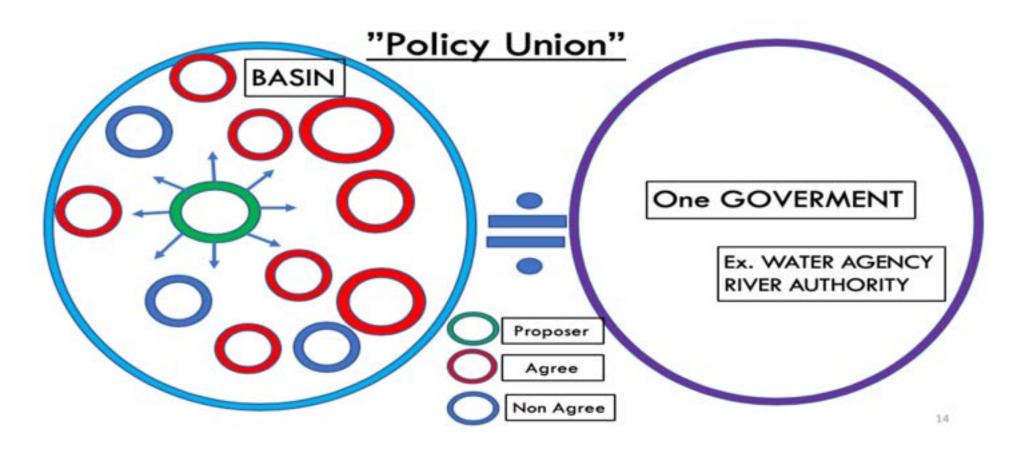
Governance For Integrated Management Of Basins

"Policy Union" Of Municipal Governments

"Policy Union"

Important concept of the collaboration is "Policy Union"

That is equivalent to the administrative activity of one government



Municipal Cooperation, Public-Private Cooperation, Public Participation

Strengthen mutual cooperation in basin municipal government

Promotion of local economy through public-private cooperation

Promotion of public participation to conserve the water environment

Mutual Understanding and Cooperation

Needs to find solutions with all the basin areas working together and sharing problems.

Important concept of the collaboration in KISO 3 River Basins is

Exchange and Mutual Understanding

of upstream or middle stream (non-urban) area and downstream (urban)

area.



Common Challenge for the Entire Basin Area

Regional Promotion

Downstream SUPPORTING Upstream

Challenges for the Upstream and Middle stream areas

- *Aging, depopulation
- *Lack of leaders

in agriculture and forestry

Decrease of flow, Muddy stream

- -Devastation of forests
- -Depression of the soil percolation capability
- -Runoff of sediment and fallen trees

Activities of Municipal Cooperation In Kiso 3 Rivers Basins











My activities going on after retirement

Urban area, supporting Non-Urban area



Nagoya Research Institute of WA-Links for Future Development

http://wa-links.net/

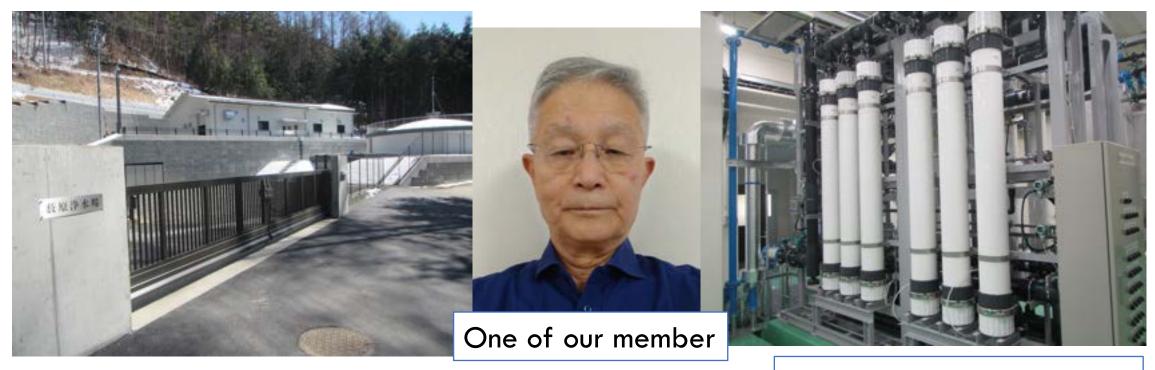


Our Activities:

- 1. Small company's business support
- 2. Overseas water and sewage works
- 3. Basin-wide development
- 4. Research water cycle and slow-sand infiltration



<u>SUPPORT of Plan, Design, Construction & Operation</u> Water Treatment Plant Reconstruction in KISO-VILLAGE



Water Treatment Plant

Tube type Membrane Filter

Promotion of Rural Water Supply in CAMBODIA Starting from SELF-SUSTAINING of WATER SUPPLY in SONGVEUY Commune

Overall Goal

The rural water supply will be promoted by the proper operation and management of Rural Water Supply based on the Songveuy model.

One of Outputs, 5years activities

The Operation and management of Rural Water Supply will be improved according with the improvement of knowledge and technical ability of each commune and the Alliance.



