



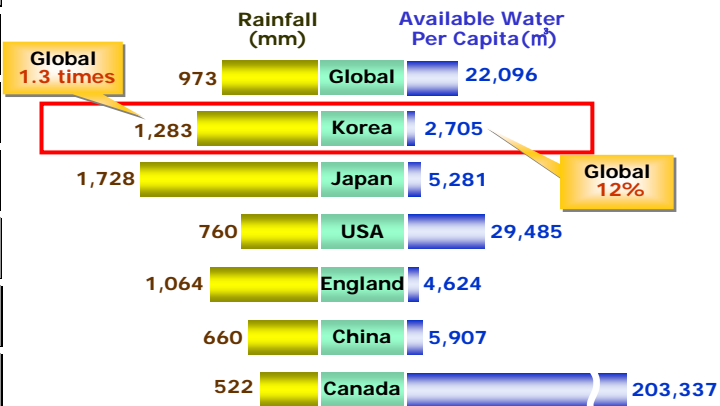
Advanced Technologies and Systems

Water Resources Operations Center

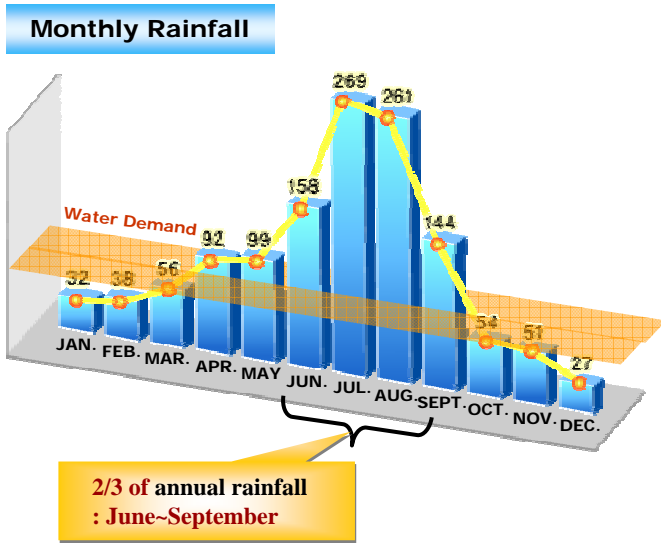


- Water Resources in Korea
- Dams & Reservoirs in Korea
- WROC
- Rainfall Forecast
- Hydrological Data Acquisition & Process
- Flood Control
- Water Supply
- Hydropower Operation
- Vision of WROC

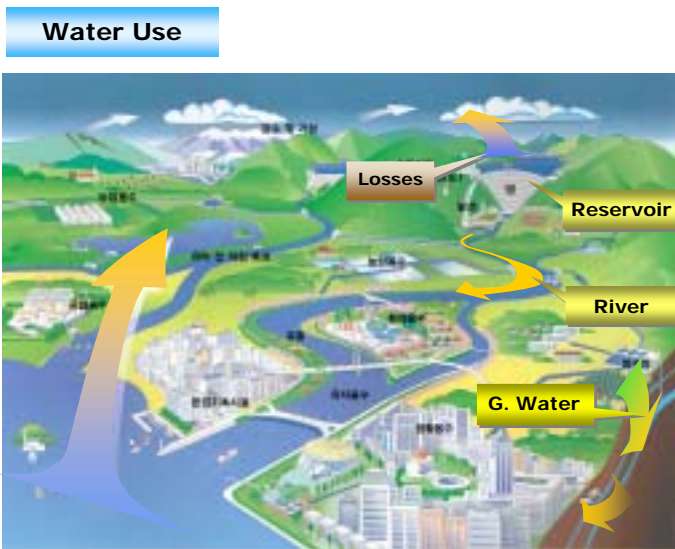
Annual Rainfall



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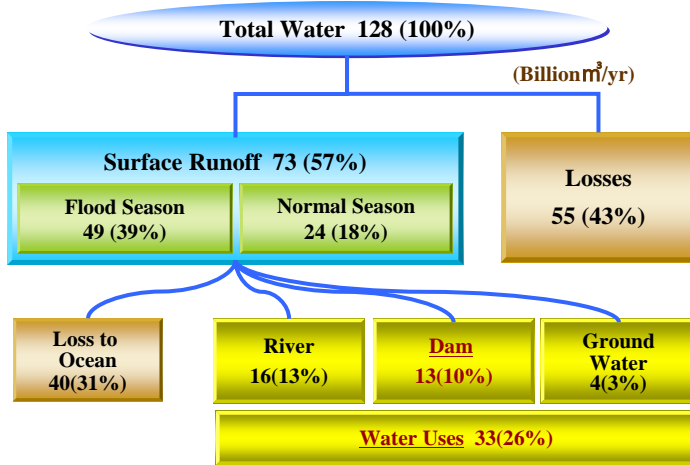


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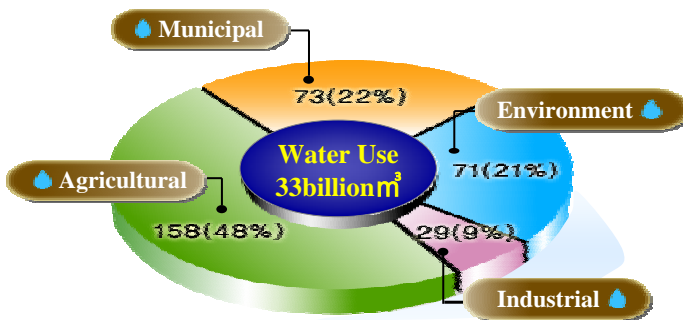
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Water Use



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Water Use



Water Resources in Korea

Dams & Reservoirs in Korea

WROC

Rainfall Forecast

Hydrological Data Acquisition & Process

Flood Control

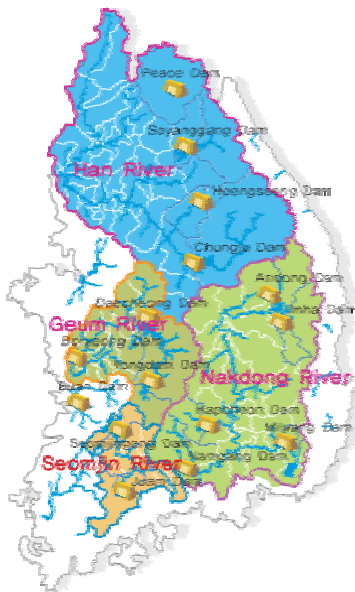
Water Supply

Hydropower Operation

Vision of WROC

Dams in Korea

- ➔ Total 18,000
- ➔ Large Dam 1,206
 - ❖ Multi purpose 14
 - ❖ M.&Industrial 60
 - ❖ Hydropower 16
 - ❖ Agricultural 1,114
 - ❖ Flood control 1



Water Resources in Korea

Dams & Reservoirs in Korea

WROC

Rainfall Forecast

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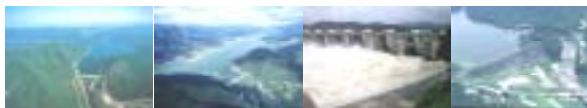
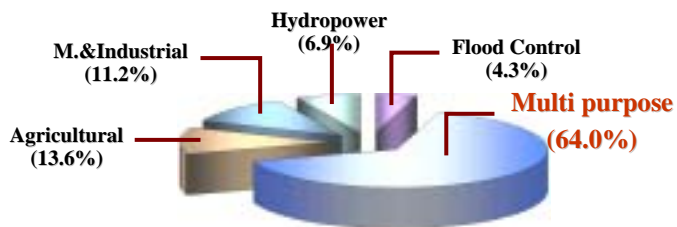
Flood Control

Water Supply

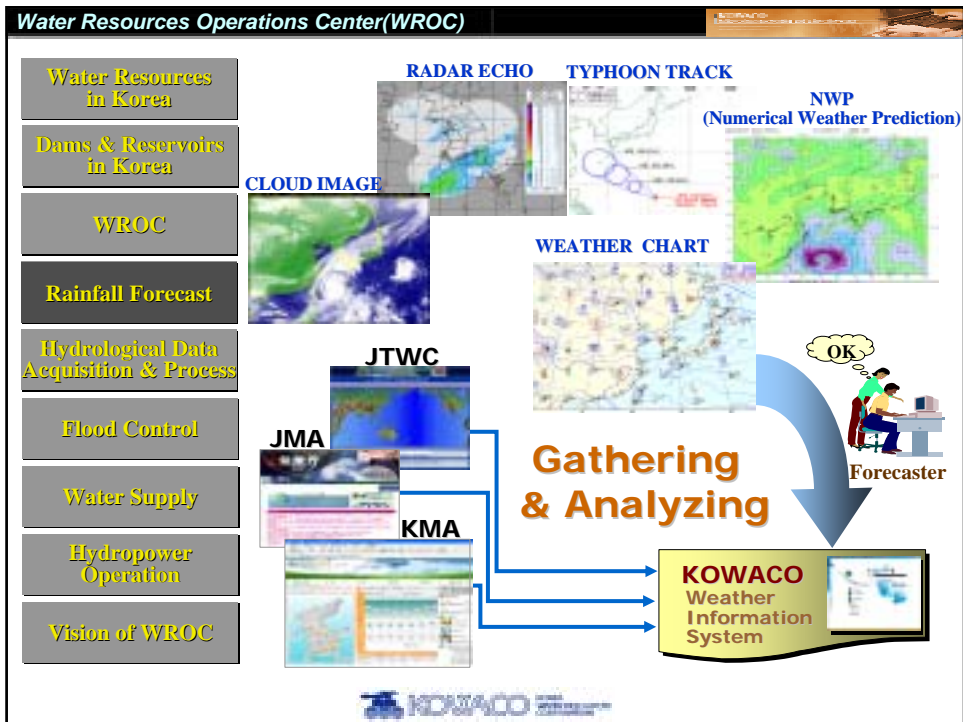
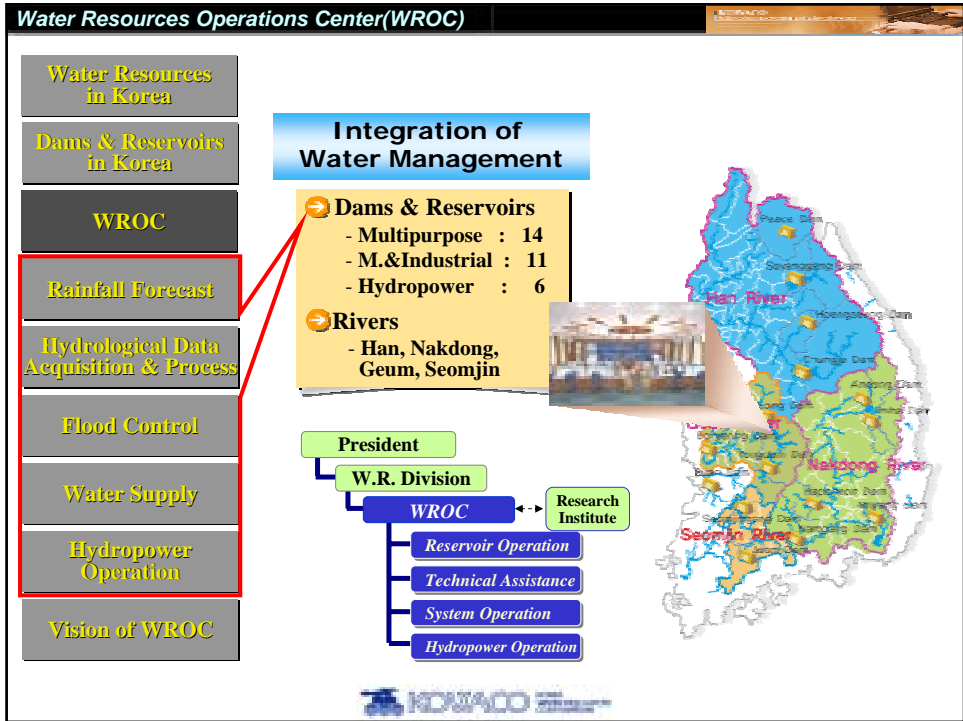
Hydropower Operation

Vision of WROC

Storage Volume

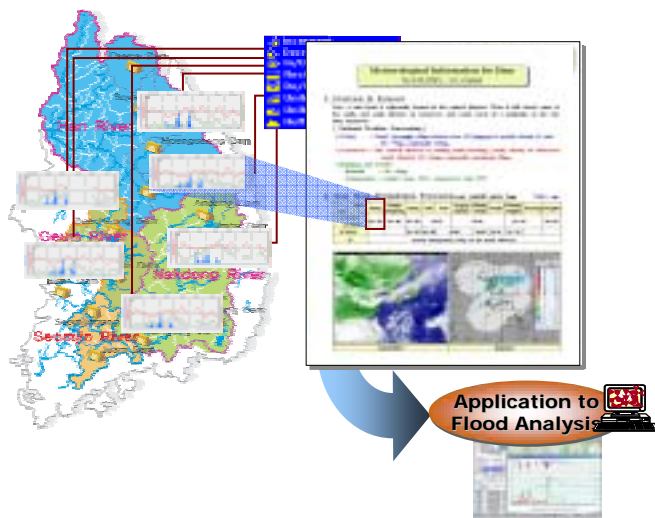


Multi purpose M.&Industrial Hydropower Agricultural



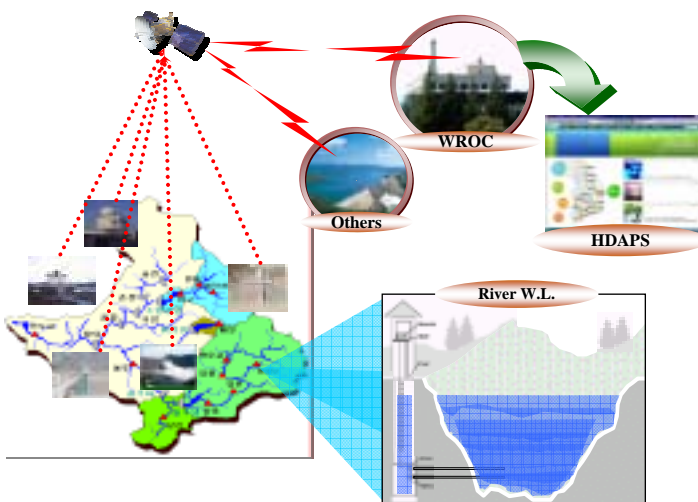
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Rainfall Forecast on Dam Basin



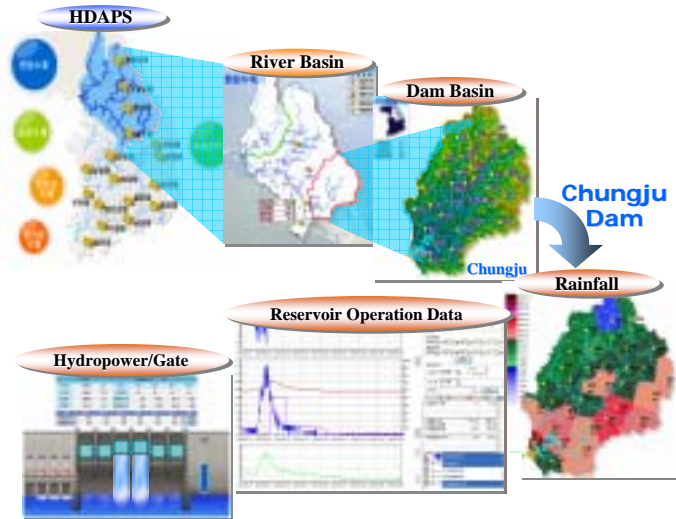
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Hydrological Observation



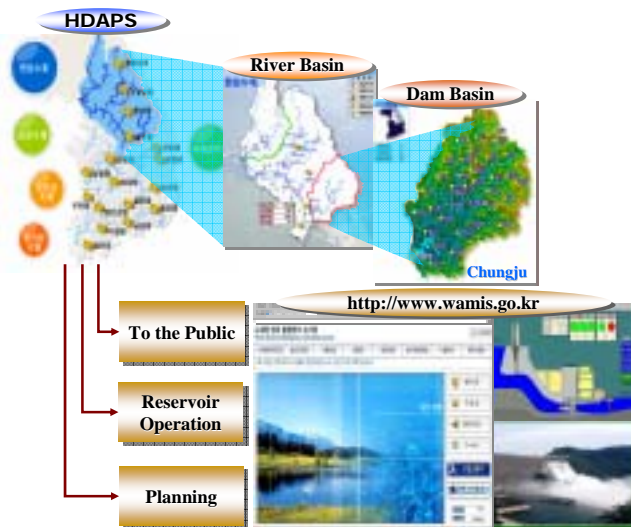
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Data Acquisition & Process



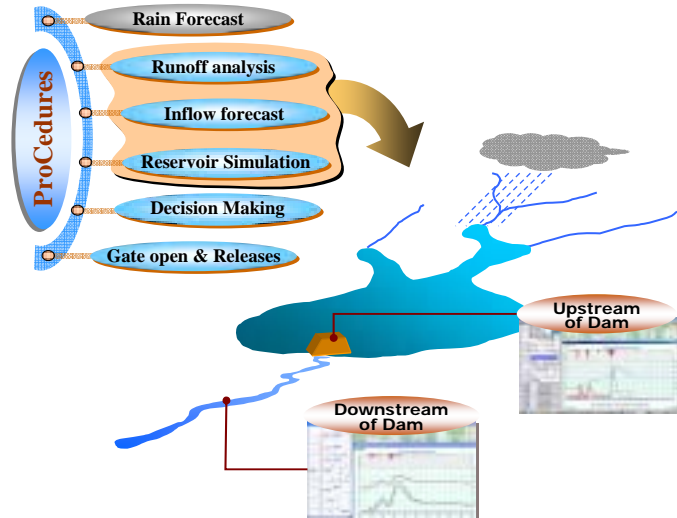
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Data Acquisition & Process



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Procedures of Flood Control



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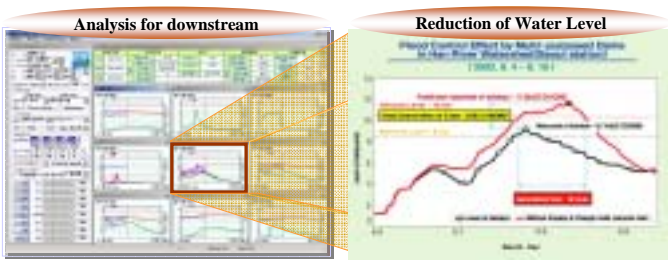
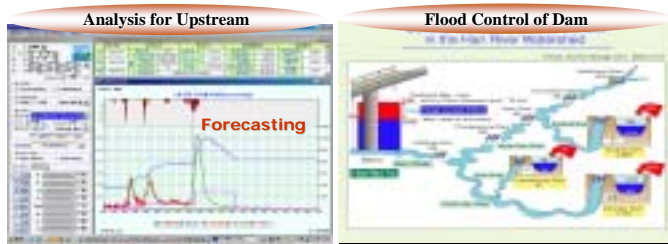
Flood Control

Water Supply

Hydropower Operation

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Evaluation of Flood Control



Water Resources in Korea

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Target of Reservoir Operation

Stable water supply of municipal, industrial, agricultural and environment



Water Resources in Korea

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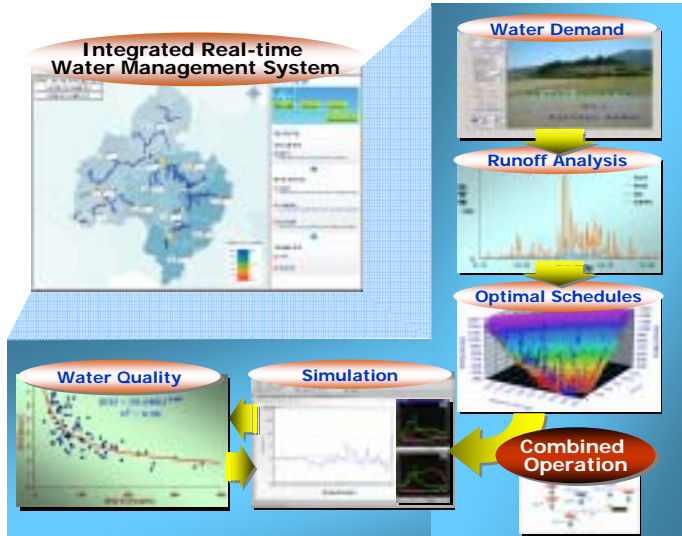
Flood Control

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Stable Water Supply



Water Resources in Korea

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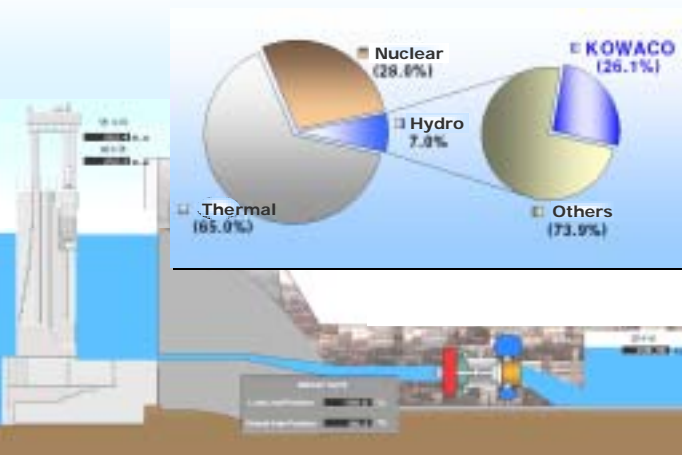
Flood Control

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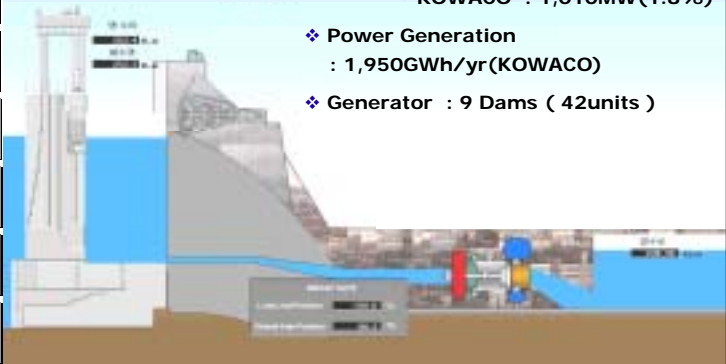
Power by Sources in Korea



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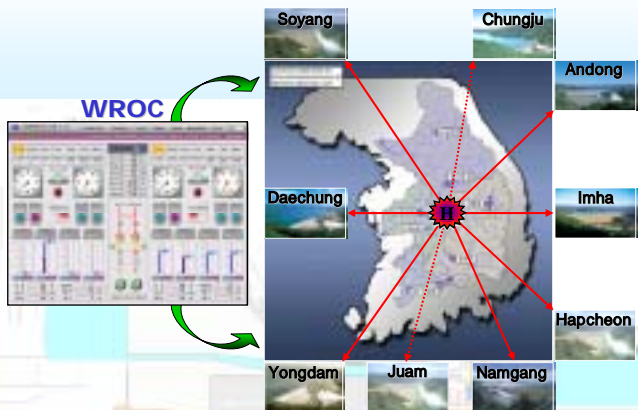
Hydropower Facilities

- ❖ Installed Capacity
 - Total : 56,053MW
 - Hydropower : 3,877MW (7%)
 - KOWACO : 1,010MW(1.8%)
- ❖ Power Generation : 1,950GWh/yr(KOWACO)
- ❖ Generator : 9 Dams (42units)



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Generation Integrated Operation System(GIOS)



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Water, Nature and People



Innovation in IWRM Technology

Expansion of Participation of Local Groups

Effectiveness in Water Management

Enhancement of Social & Economical Roles

Water, Nature and People

Thank for your attention !