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SESSION 2: Catalyzing Improved Source-to-Sea (S2S) Governance, Management and Investment in East Asia and Southeast Asia

Integrated management of the Vu Gia - Thu Bon River Basin and the coastal area of Quang Nam - Da Nang

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Vu Gia - Thu Bon River Basin and the coastal area of Quang Nam - Da Nang
Major issues

• **Urbanization**
  Uncontrolled urban development, especially construction on the coast
  Destruction of forests & Biodiverse areas
  Unsustainable forestry and encroachment through urbanization of forest land

• **Water**
  Unsustainable hydro development & operation
  Limitation of available quantity and quality of water
  Competing & overuse of available water sources
  Flood and drought
  Salt intrusion from sea

• **Sewerage**
  Untreated sewerage discharge
  Toxic & pathogenic discharges from industry, residential, commercial and mining sectors
  Uncontrolled discharge of nutrients (T, N) and pesticides from agricultural sector
  Insufficient treatment of sewerage

• **Solid waste**
  Non recycling of waste
  Untreated disposal of waste into environment or dumpsites
  Uncontrolled disposal and discharge of plastics into rivers, lakes and coastal waters

• **Unsustainable extensive agricultural & fishing practices**
Hydropower plants planning in Quang Nam province
Existing IRBM governance mechanism

Da Nang City and Quang Nam Province recognize the need to work together to solve common issues in the Vu Gia - Thu Bon River Basin and the associated coastal areas, and have agreed on the followings:
• To apply An integrated from source to sea management approach;
• To establish & operate a Coordination Committee for Integrated Management of the VG-TB River Basin and the Quang Nam - Da Nang Coastal area (established in August, 2017) and Permanent Working Groups of Quang Nam and Da Nang to assist the Coordination Committee;
• To improve the regulation of water use between dry season and flood season in VGTB River Basin;
• To develop an inter-provincial coordination mechanism to monitor hydropower on the upper reaches of VG-TB for improved implementation of multi-reservoir operation procedures;
• To plan for development of a monitoring network of natural resources and environment in VGTB River Basin and to invest in automatic monitoring in the river basin;
• To strengthen measures to control sources of pollution and waste from urban areas and downstream industries.
Major problems/challenges

• The coordination organizations are newly established, has just performed some initial activities, such as seeking partners and working with stakeholders, analyzing issues and developing plans; not yet solved the issues in reality.

• Lack of orientation and technical capacity for managing multi-purpose water use and solving conflicts of the water use.

• Lack of technical capacity for waste water and solid waste treatment and management.

• Limited investment to waste treatment and management, lack of involvement of private sector in the waste treatment and management.
Needs to address the identified challenges

- Developing sustainable and effective governance and management mechanisms for the Vu Gia – Thu Bon River Basin and Coastal Regions of Da Nang City and Quang Nam Province (strengthening the interprovincial multi-sectoral coordination/cooperation)
- Strengthening local technical capacity (human, tools)
- Integrated management planning for river basin and coastal areas (for solving the water use and environmental issues in overall)
- Formulating and conducting pilot projects on solid waste and waste water treatment and management for replication (to reduce and control the pollution sources discharged into water bodies)