

The importance of stakeholder engagement in data sharing towards sustainable surface water quality monitoring in global megadeltas

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South-East Asian deltas are changing



River mega-deltas, have stakeholders operating at multiple spatial scales
Varying degrees of knowledge and empowerment

State vs. municipal government,

• up vs. downstream users

onsite users vs. offsite landowners

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Long-term changes





Continuous monitoring programmes





Historical records

Living Deltas-Historical data base





Literature review
Data bases
Grey literature
Monitoring data





Mekong River Delta

- MRC (1995-2011)
- WISDOM
- Few papers
- Monitoring data (unavailable)
- Geographical bias





Mekong River Delta Province level & small tributaries?





Red River Delta Literature (1970-2019 Monitoring data (Nutrients 2003-2019)

Geographical bias



Historical data

- Visualisation
- Modelling
- Reports and publications













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WQ between rivers & season

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WQ within rivers & season



Lessons learned
Little literature
Scatter open access monitoring data



Lessons learned
Which are open access?
Which are not



Lessons learned

- Clarity of use?
- Line of communication with stakeholders
- Different admin. Entities
- Different methodological approaches

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Challenges

- Participatory approaches to resource management and decision making
 Enhanced communication/ access of data and results to broader audiences
 Increased stakeholder understanding of and trust in science
- Transboundary collaboration among stakeholders
- Increasing adaptive capacity