









Management of Dredged Material: small-scale dredging

<u>Definition</u>: an effective and efficient dredging process, usually carried out in confined, difficultly accessible channels and lakes whilst adhering to pre-defined environmental standards, laws and regulations

This can be translated to:

"Small-scale dredging needs tailor-made solutions, each project is unique!"

www.dredging.org



Purpose of dredging

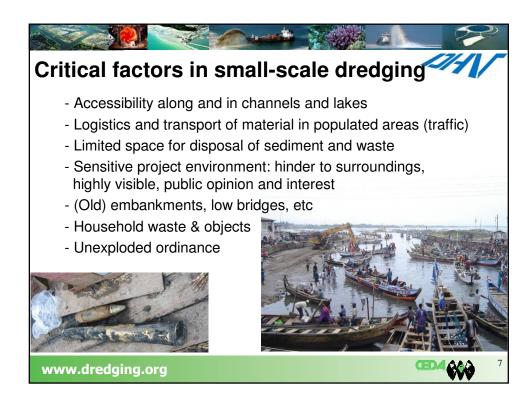
- 1. Water discharge (e.g. floodwaters)
- 2. Navigation (commercial and recreation)
- 3. Water quality enhancement (°C, O₂)
- 4. Remediation of pollution (sediment)
- 5. Recreation and residential (floating houses)
- 6. Sand-, gravel- or clay-mining and/or disposal
- 7. Nature creation (deepening lakes, biodiversity), environmentally friendly embankments

Maintenance- and capital dredging



www.dredging.org











Mitigation measures for Hinder





Urban / industrial:

- 1. Work during restricted hours and seasons
- 2. Create nearby temporary disposal sites and transport at night
- 3. Confer with residents and stakeholders
- 4. Communication (explain necessity) and create positive project image

Rural

- 5. Work outside of breeding seasons
- 6. Building with Nature (e.g. re-use)

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11

Project phases

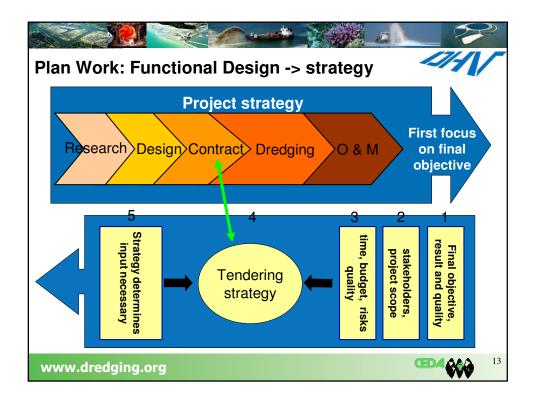
Management of dredged material in small-scale projects starts at the beginning of the project:

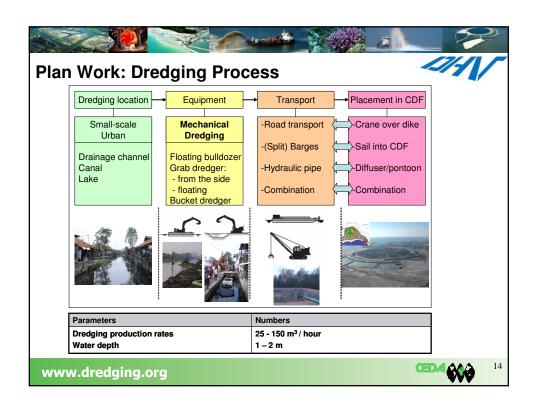
- Plan work and carry out surveys
- Choice of dredging equipment
- Choice of transport method
- Choice of disposal method

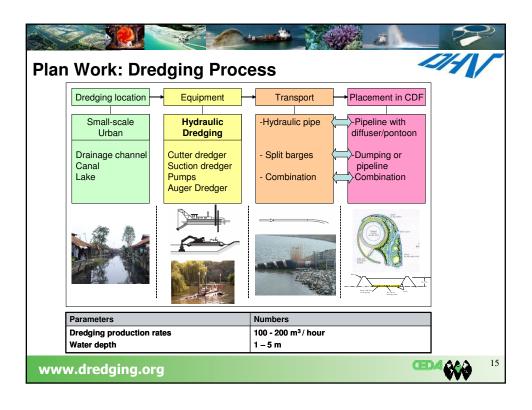
Start dredging, but be prepared for the unexpected!!

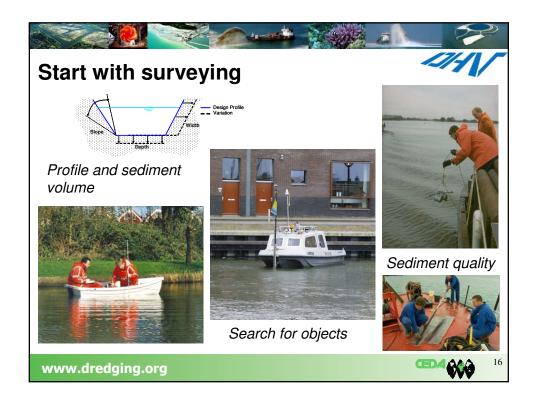
















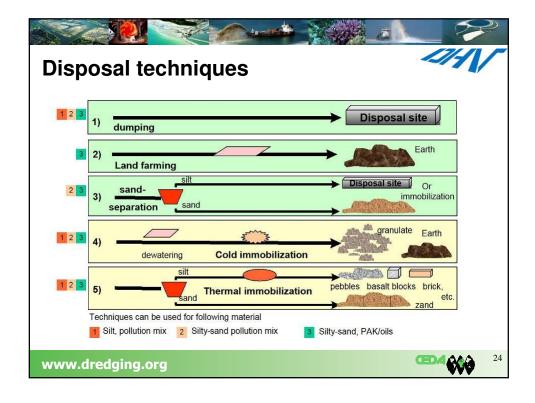






















Project content:

- Find range of **optimal small-scale dredging techniques** for Jakarta situation
- Go through **entire dredging process** from start (preparation) to finish including logistics
- **Procurement** of dredging equipment
- **Train** local staff for replication and operation and maintenance after project ends (continuation)
- **Boost public image** of dredging through 'visible' project
- Facilitate public information and **community participation**
- Carry out Pilot: dredging, transport and separation of sediment and waste

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2







