



# Beneficial Use or Business as Usual

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## Dredged Material: origin of debate

- Largest volume dredged for:
  - Capital works – reclamation projects = BU!!!?
  - Capital works – deepening of ports and waterways
  - Maintenance dredging – removing sedimentation in ports and waterways
- Relatively small volume from remediation / sanitation / clean-up dredging





## Dredged Material: origin of debate

- Practical all capital volume is free of contamination
- Part of maintenance material and all clean-up material is more or less contaminated





## Dredged Material: origin of debate

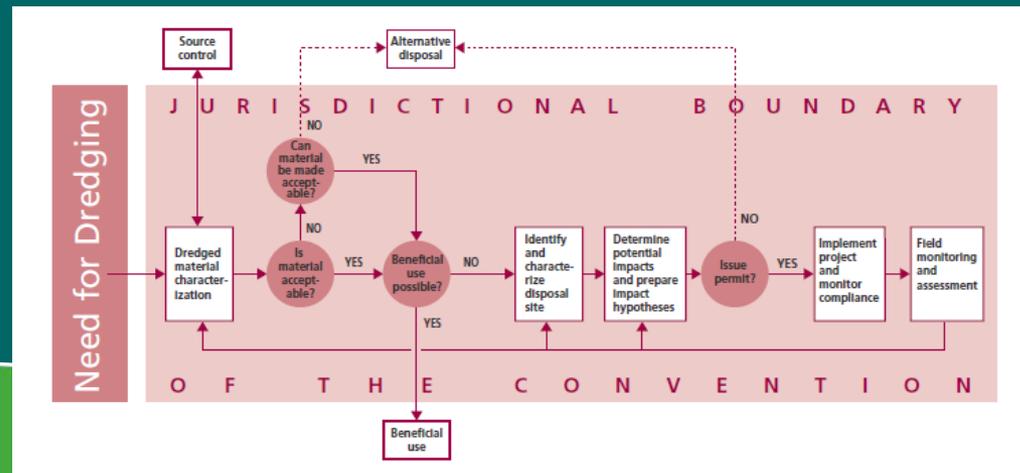
- International (and many national) legislation based on contaminated DM
- Made applicable to all DM
- Economic preference for DM handling is sea (open water) disposal

⇒ Conflict with environmental protection



## Dredged Material Management as per DMAF

- If not permitted for placement in open waters:
- Explore options for
  - Beneficial use
  - Processing
  - Controlled Disposal
- Procedure introduces
  - Project delays
  - Increased costs
  - Annoyance





## Sediment balancing

- Dredging need produces certain quantity / quality of DM
  - for environment /sustainability: return DM to system?
  - for economy: use DM(or part) in concurrent other project
- If positive: Politics to decide, based on EIA
- If negative:
  - other uses? Without/with treatment; if not feasible
  - disposal / placement at offshore or land-based sites.





## Sustainable Approach

Use of DM is

- logic part of development
- not just a mitigation option



EcoShape

| *building with nature*



## Practice

- Try to balance 'sediment supply and demand', maximising 'use'
- If not possible, go for cheapest solution: open water disposal
- If not permitted: follow DMAF

