

Academy

Breakout session in Delft3D-FM Reservoir Sedimentation

Amgad Omer & Sanjay Giri

Glimpse of projects



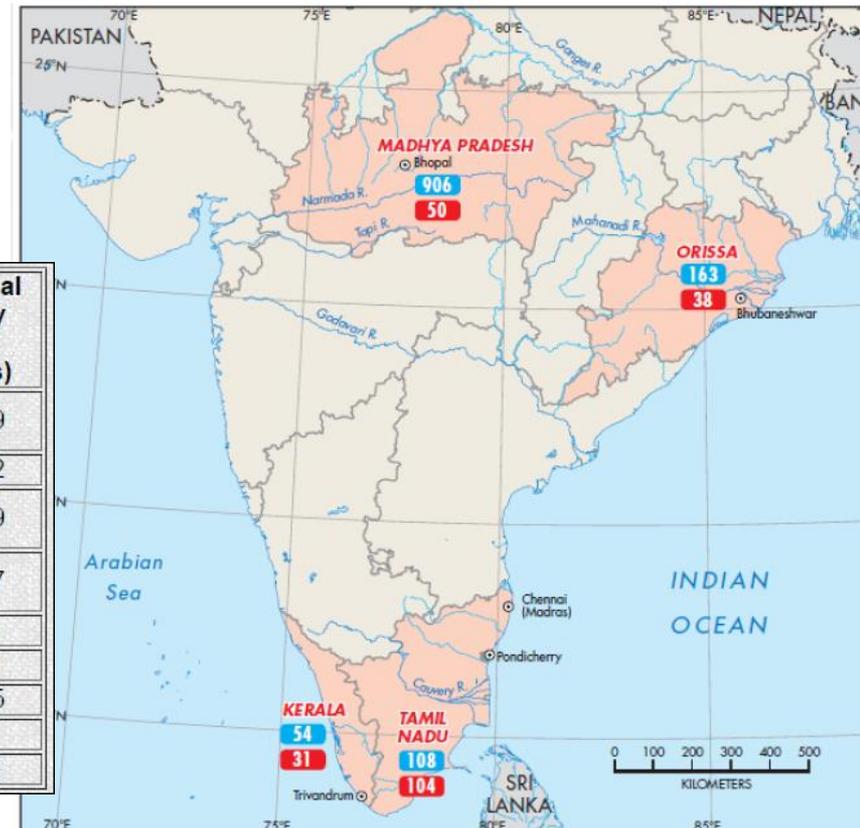
India

Dam Rehabilitation and Improvement Program (with EGIS-Eau, France)

More than 5000 large dams in India



Rehabilitation of 250 dams and reservoirs in 7 States of India



State	IA	No. of DRIP dams	Financial Outlay (INR Crores)
Madhya Pradesh (MP)	Water Resources Department (MPWRD)	29	173.99
Odisha (O)	Water Resources Department (OWRD)	26	166.82
Tamil Nadu (TN)	Water Resources Department (TNWRD)	75	618.89
Tamil Nadu (TN)	Tamil Nadu Generation and Distribution Corporation (TANGEDCO)	38	472.57
Kerala (K)	Water Resources Department (KWRD)	16	411
Kerala (K)	State Electricity Board (KSEB)	37	122
Karnataka (Ka)	Water Resources Department (KaWRD)	27	276.75
Jharkhand	Damodar Valley Corporation (DVC)	3	113
Uttarakhand	Uttarakhand Jal Vidyut Nigam Limited (UJVNL)	5	46.74

27 juli 2023

Glimpse of projects



India

Spin-off from



- **Integrated Sediment Management with Circular Benefit** (with IHC-Merwede and NETTICS, The Netherlands)
- **DAMSAFE – Integrated Dam and Reservoir Management** (with Eijkelkamp, SkyGeo, The Netherlands and iPresas, Spain)
- **Capacity building and training course for DRIP authorities at Deltares and our partner institutions in Spain and Switzerland for 3 consecutive year (GEO+ZWS+iPresas+EPFL)**

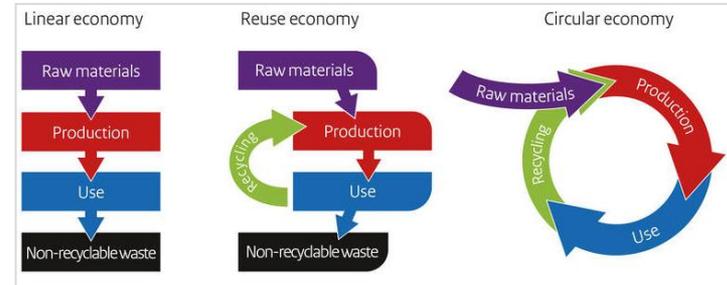


Glimpse of projects



Paradigm shift: Circular benefit

- ✓ Sediment in reservoirs as a resource and not wastage
- ✓ Sediment management with circular benefit
- ✓ Integrated approach
- ✓ Knowledge and innovation



Sediment - Natural Resource

Land Reclamation, Improvement & Filling

Top Soil Enhancement and Agricultural Use

Capping

Fill for Abandoned Mines/Quarries

Construction & Protection Materials

Habitat Creation and Restoration

Beach Nourishment and Shore Protection

River Management (Sand Plugs for Channel Closure)





1D/2D/3D Modelling suite for integral water solutions

DELFT3D FLEXIBLE MESH SUITE

Deltares systems

D-Flow Flexible Mesh

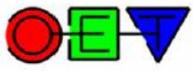
Delft3D Interactive modelling



User community









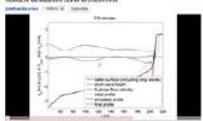

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Main

Delft Dashboard	OpenDA	SWAN
Delft3D	OpenEarth	UNIBEST
Deltares Systems	OpenMI	XBeach
Delta Shell		

YouTube

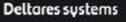
Delft3D open source community

Announcement
 Delft3D flow, morphology and waves modules are going open source as per 1 January 2011

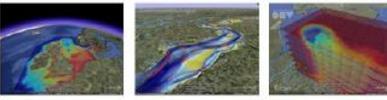
Delft3D data and model centre





OpenEarth



Events

- 07/12/2010-08/12/2010 Joint US-U/KEU workshop on Integrated modelling
- 13/12/2010-17/12/2010 2010 ASU Fall Meeting
- 2/01/2011 Delft3D FLOW + MUD + WAVE going open source
- 04/04/2011-08/04/2011 Delft3D training courses
- 31/10/2011-01/11/2011 International Delft3D Users Meeting 2011

Links

- Building with Nature
- CFD Online
- Coastal Integration Platform
- River Integration Platform

Delft3D group on LinkedIn

You have a satisfied customer / collaborator. I have successfully downloaded and installed and run the tests.



Giles Lesser

Research Manager & Senior Coastal Engineer at QMC International, Melbourne Area, Australia

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Instructions: <https://publicwiki.deltares.nl/display/OET/Join+OpenEarth>

Building a collaborative community

• Joint research & development:

- research programs
- software development projects
- ...



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