

WATERBOUWKUNDIG LABORATORIUM

Flanders Hydraulics

Short introduction
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Flanders
State of the Art



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Who we are



Flanders Hydraulics

- Founded in 1933
- Department of Mobility and Public Works
- Centre of expertise for research and advice on hydraulic, coastal, nautical, sediment-related and hydrological topics
- Provides consultancy services for
 - government of Flanders
 - other domestic and foreign government services
 - private sector

Research goals

- Safety against flooding and water shortage
- Safe Vessel Traffic
- Safe waterborne infrastructure
- Efficient investments of the government
- Improvement of the environment

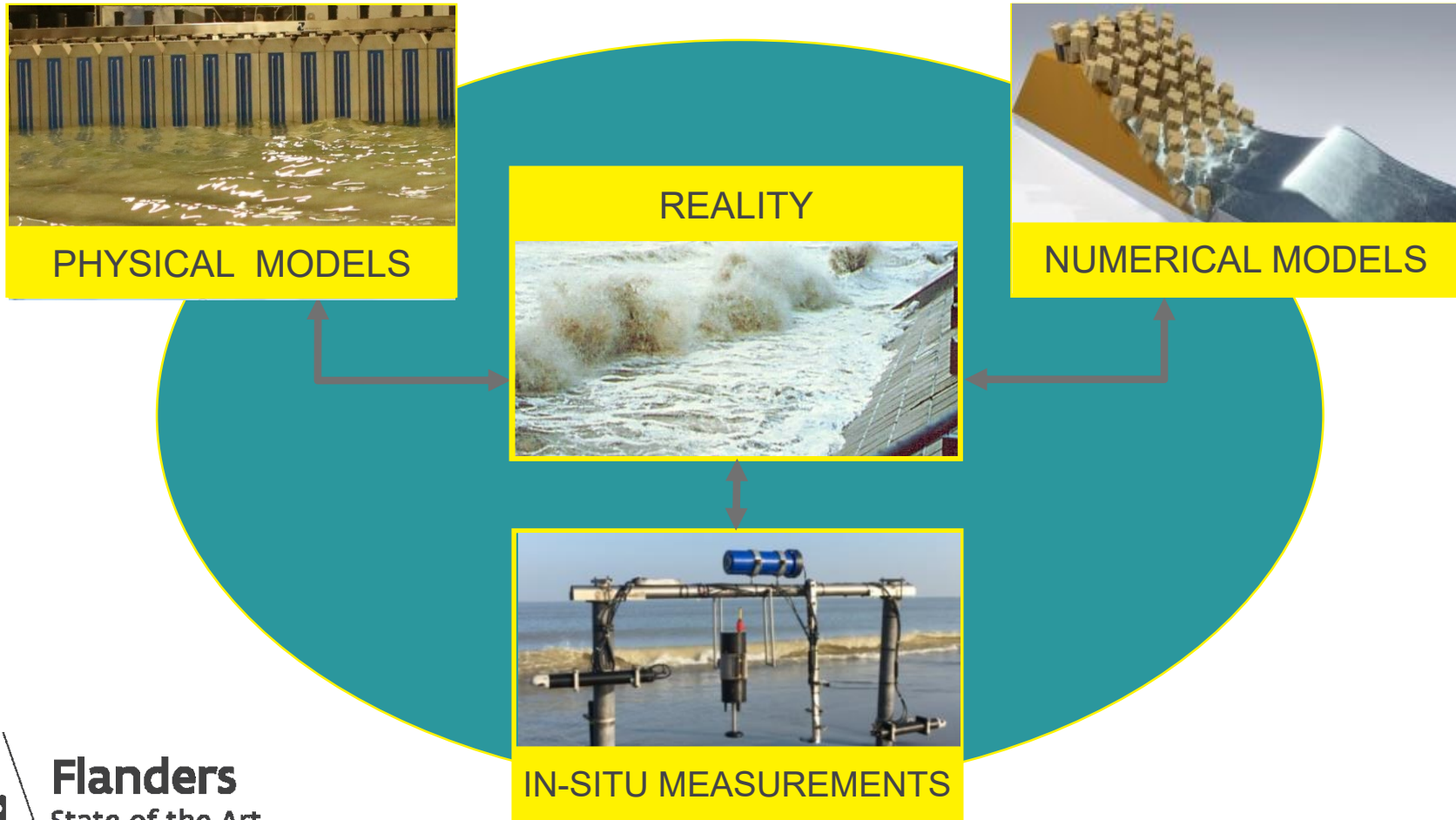


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What we do



Research at Flanders Hydraulics



Activities

- Study & advice
 - scientific and technical support in the field of hydraulic and naval engineering by conducting research and providing advice
- Research & development
 - development of dynamic and state-of-the-art research tools and specific expertise
 - Own R&D budget
 - BELSPO
 - EU INTERREG, HORIZON, ...
- Operational services
 - Hydrological Information Centre (HIC)
 - ship manoeuvring simulators



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Our research areas



Research areas

- Harbours & waterways
- Hydraulic structures
- Water management
- Hydraulics & sediment

Driven by

- Support team Physical Research Installations
- Hydrological Information Centre (HIC)
- Support team Numerical Modelling

Innovations by Flanders Hydraulics



Importance of sediment dynamics

- Port accessibility
 - Maintenance dredging
 - Manoeuvring above/through mud
- Safety against flooding
 - Wave and tidal propagation
 - Levees
 - Climate Change/Sea Level Rise
- Nature
 - Ecological functioning (primary production)
 - Salinity
 - Nature Based Solutions



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Thank you

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