

Innovative measurement & monitoring

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Deltares



Versatile, efficient, joint observation

Deltares – NIOZ proposal

- **Do more with less...**
 - Energy
 - Carbon
 - Sand
 - Environmental disturbance

Know what you are doing

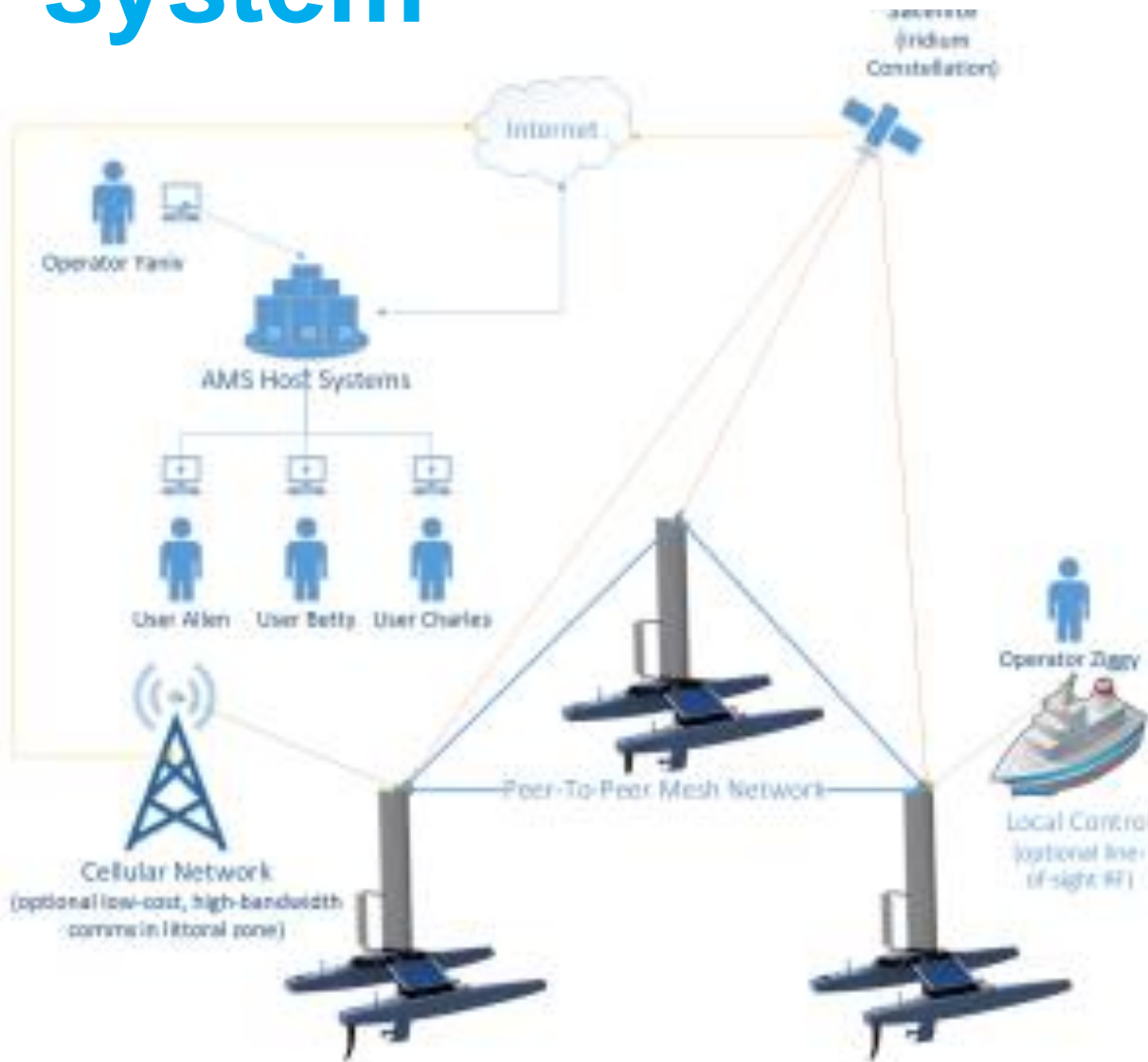
- Morphology & habitats
- Hydrodynamics
- Marine ecology, productivity, carbon balance

Take joint responsibility

- Industry
- Government
- Research community

Turn needs into opportunities

21st century observation system



They exist
They evolve fast
Technology will go
to commercial
fleet

⇒ There is a
chance to grasp
!

Know, Manage, Use and Sail better

- Improved state + process(!) monitoring: from bathymetry to primary production + ground-truthing remote sensing
 - ⇒ Better data systems, better models, better science
- Surveys for installations, resource inventories, impact monitoring,..
 - ⇒ Better basis for exploitation of marine resources + management
- Technological challenge: autonomous boats, data/model systems
 - ⇒ Basis for new market developments