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SOOP – Shaping an Ocean Of Possibilities

for science-industry collaboration

The data management behind an innovation platform









Challenges in todays ocean observation

Not sufficient:

- Ocean Observing Systems
- Information for society
- Non-scientific actors





SOOP Goals

Data & Knowledge

Gaining awareness and harness the curiosity of industry and society to create new wealth and benefits by providing ocean information

Insight & Decision

Generate new insights and establish new formats for science-based decision and supporting the New Blue Economy

Innovation & Change

Providing access to research facilities and linking industry networks to cross-sector synergies



SOOP in a nutshell



building an innovation platform for more ocean observation and technologies

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3 Helmholtz research institutions: GEOMAR, AWI, Hereon

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Data management



Data Management - Key points

- Simplicity
 Out of the box sensor registration and data flow
- Scalability
 Automatic workflows useable on commercial scales
- Security
 Secure data transfer from various data providers
- Interoperability
 Data access via OGC SensorThings API













































