deeeper
TECHNOLOGY

GEODATA DRIVEN DECISIONS

Rostock, den 26. August 2021

Geodata driven decisions for environmental protection

- Coastal areas are unique ecosystems that are especially vulnerable
- Monitoring is needed to protect it
- Lots of geospatial data available
- We offer a scalable, automatic translation of the data into a reliable, digital information
- enable geodata driven decision making


aerial image
not a digital information
© GDI-Th


every point of the surface
translated to a digital
information
deeeper.landcover

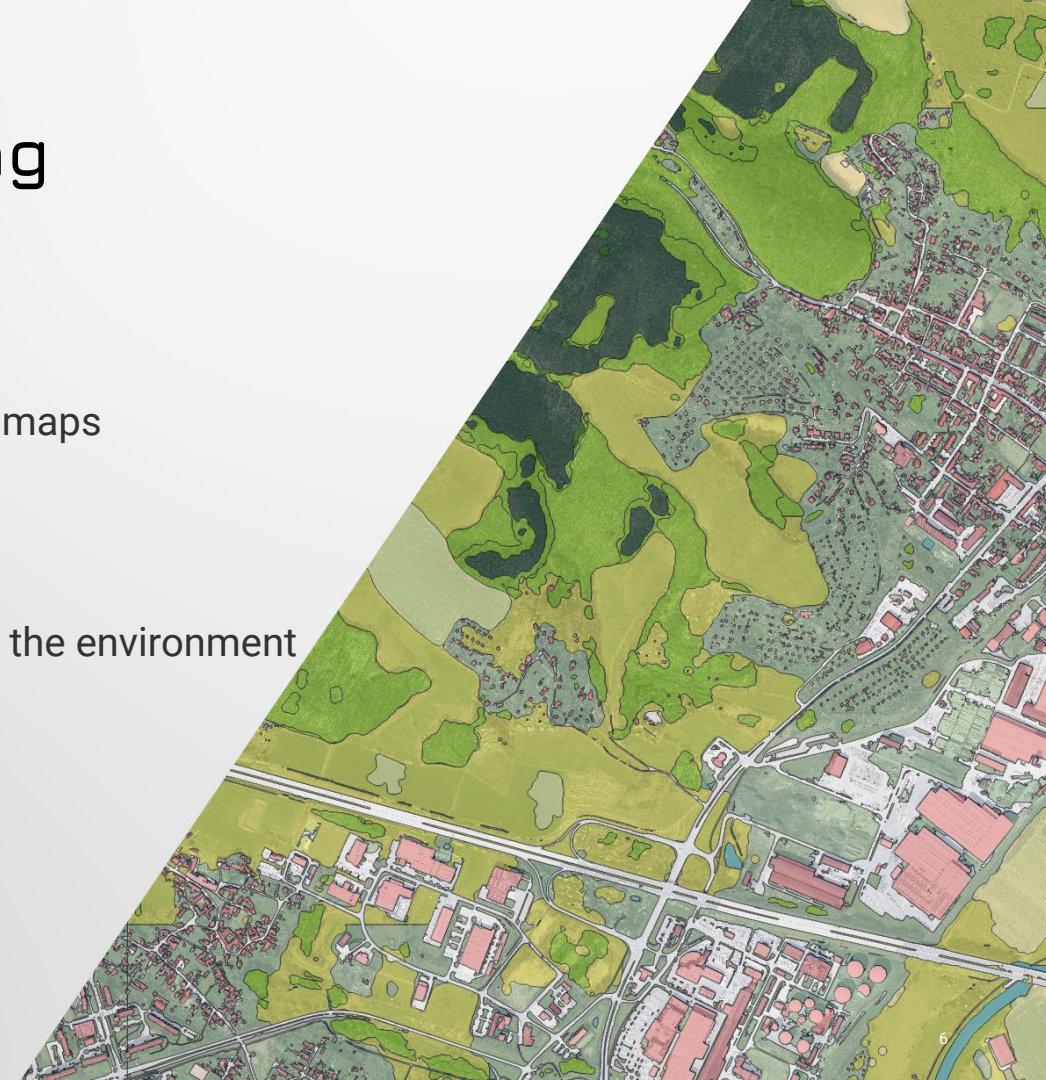
Seashield

How can we enable protection of coastal areas through geodata?

- Mapping and monitoring of the environment
- Geospatial insight
- Live tracking

Mapping and Monitoring

- Translate optical imagery to landcover maps
- Track change over time
- evaluate the change in landcover
- consequently understanding change in the environment



Mapping and Monitoring

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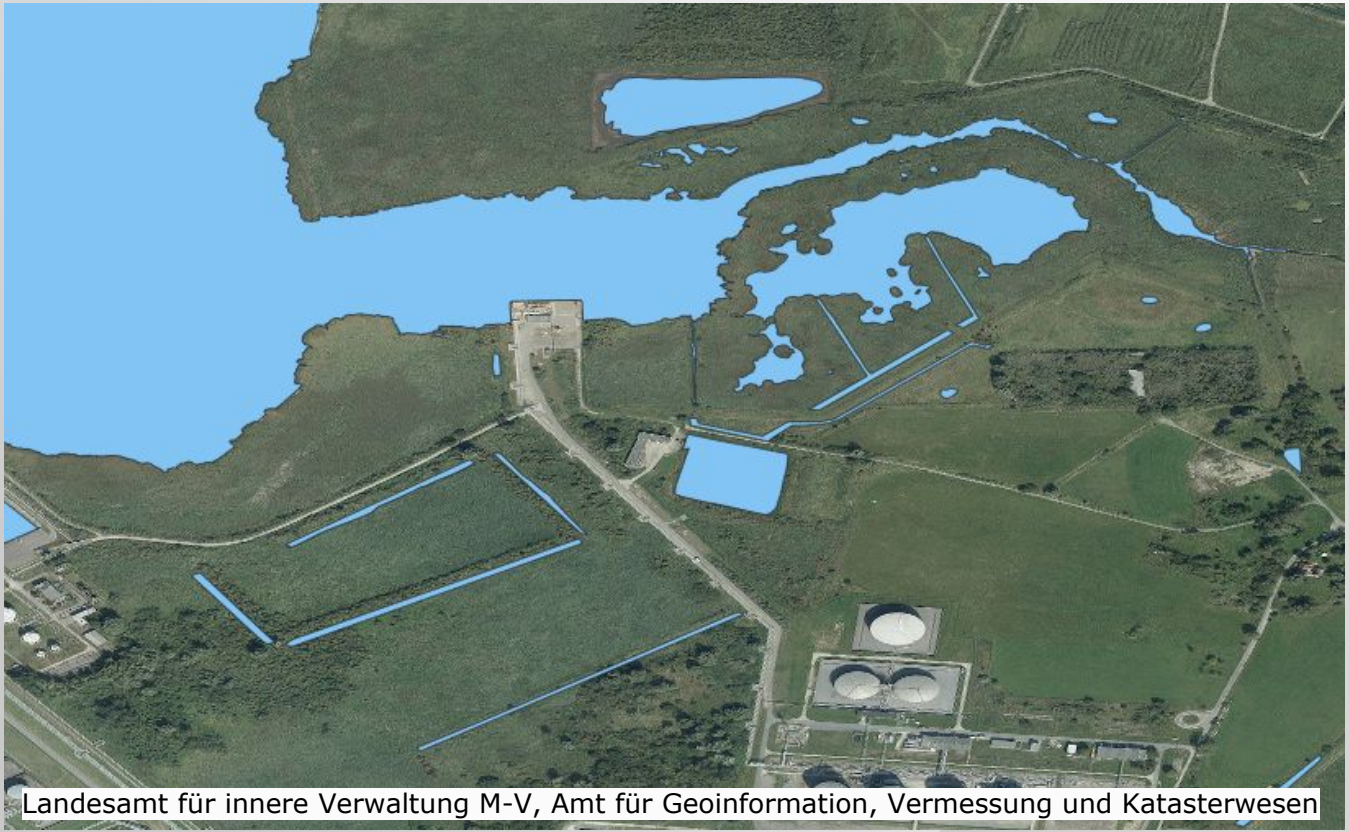
Mapping and Monitoring



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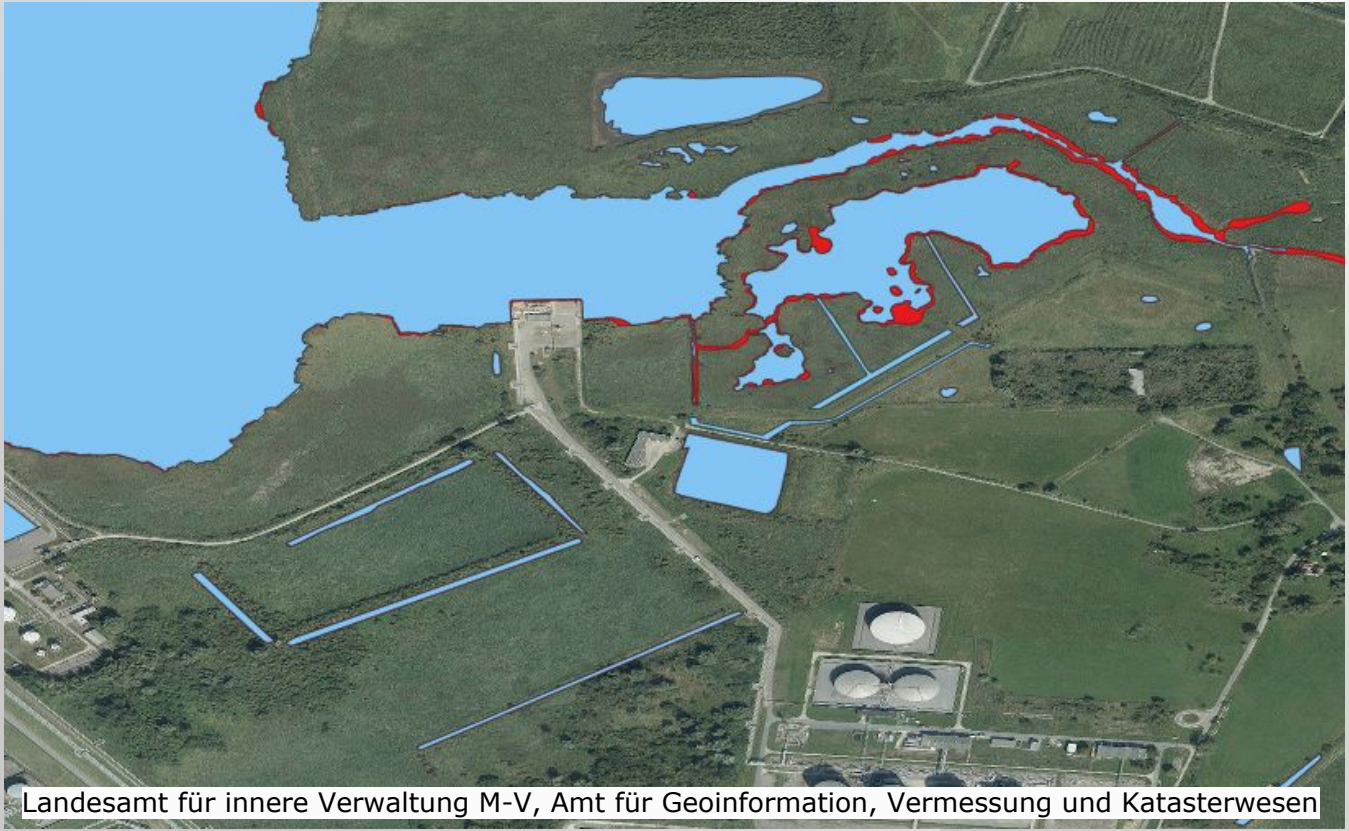
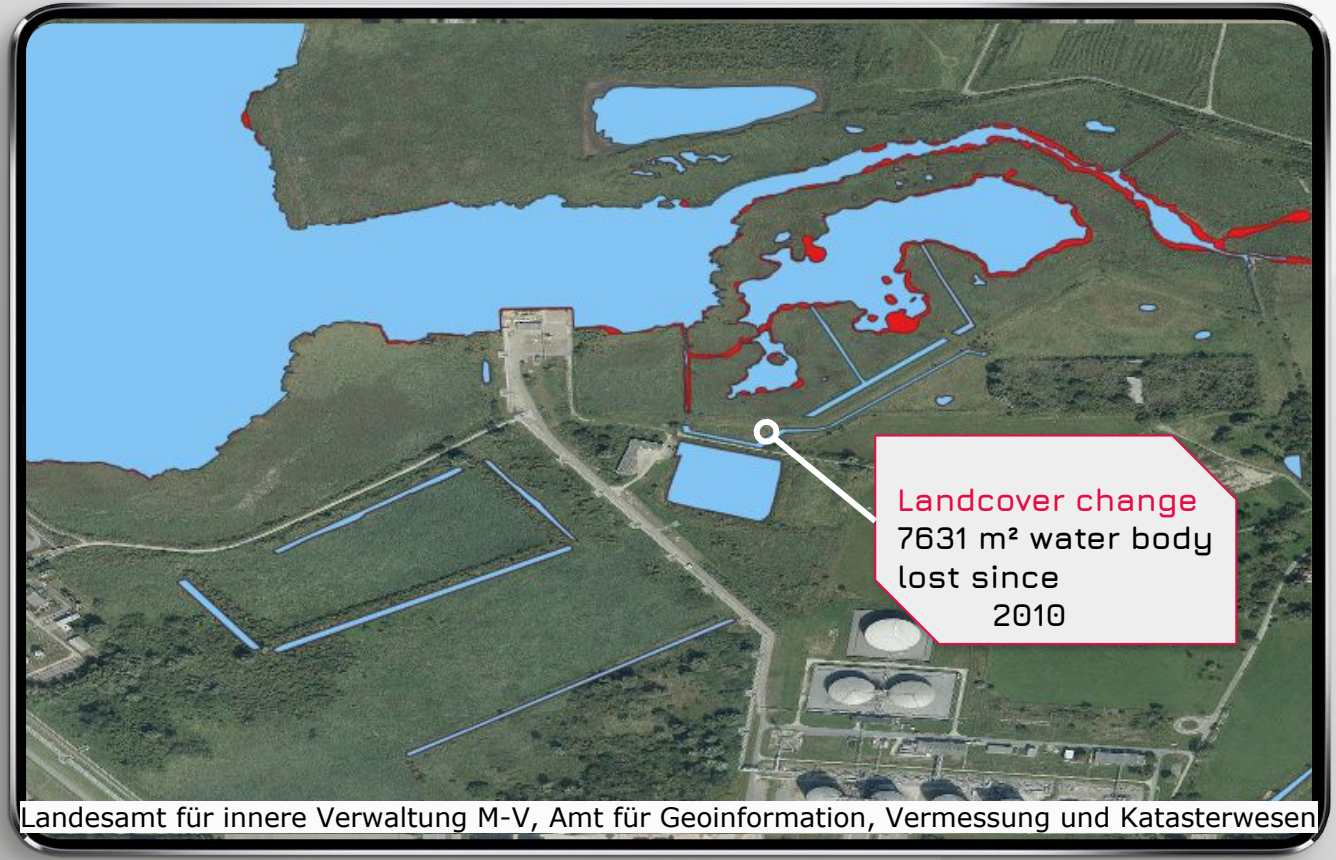


- Translate optical imagery to landcover maps
- monitor change over time

Mapping and Monitoring



Landesamt für innere Verwaltung M-V, Amt für Geoinformation, Vermessung und Katasterwesen

- Translate optical imagery to landcover maps
- monitor change over time
- make it accessible as a digital information to local authorities

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- Monitor environmental measures

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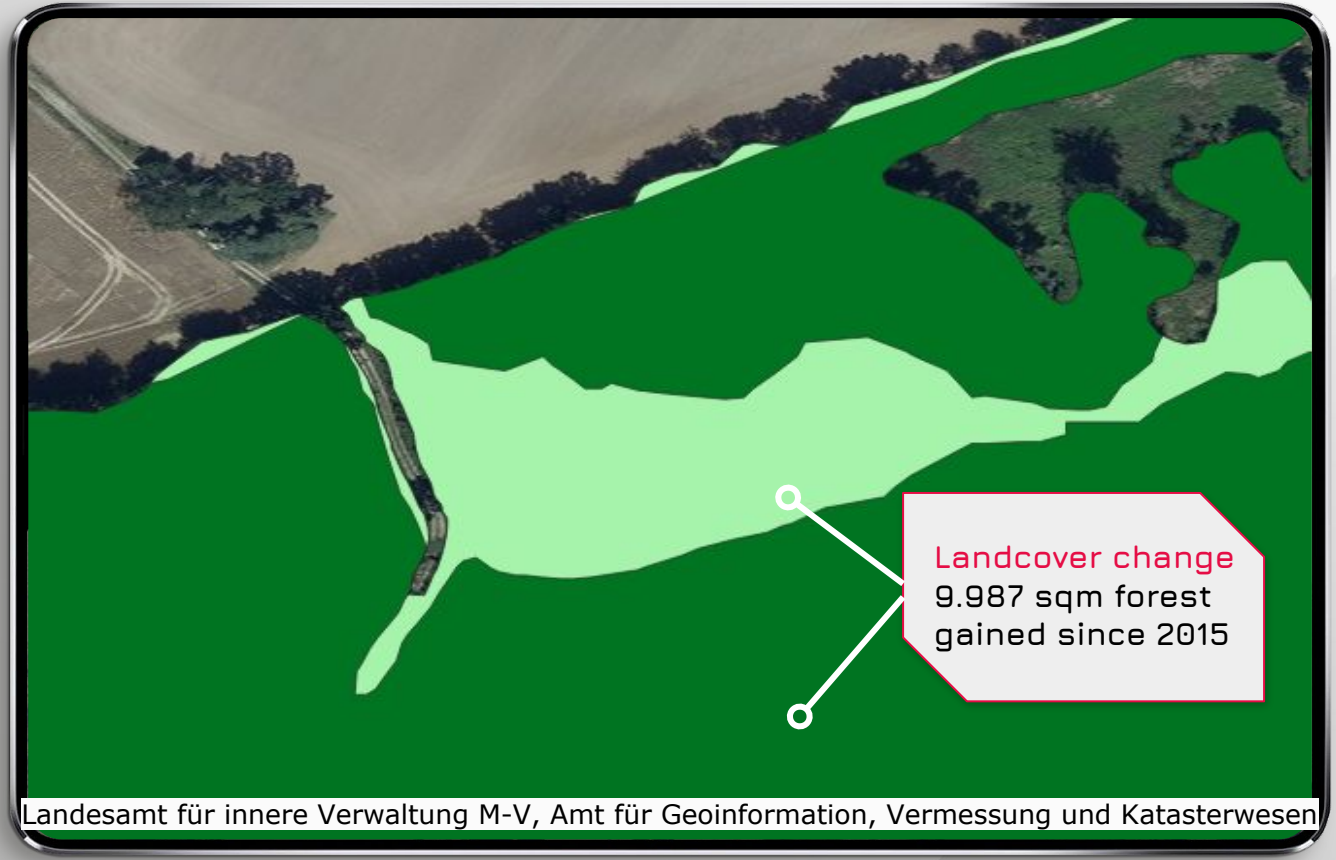

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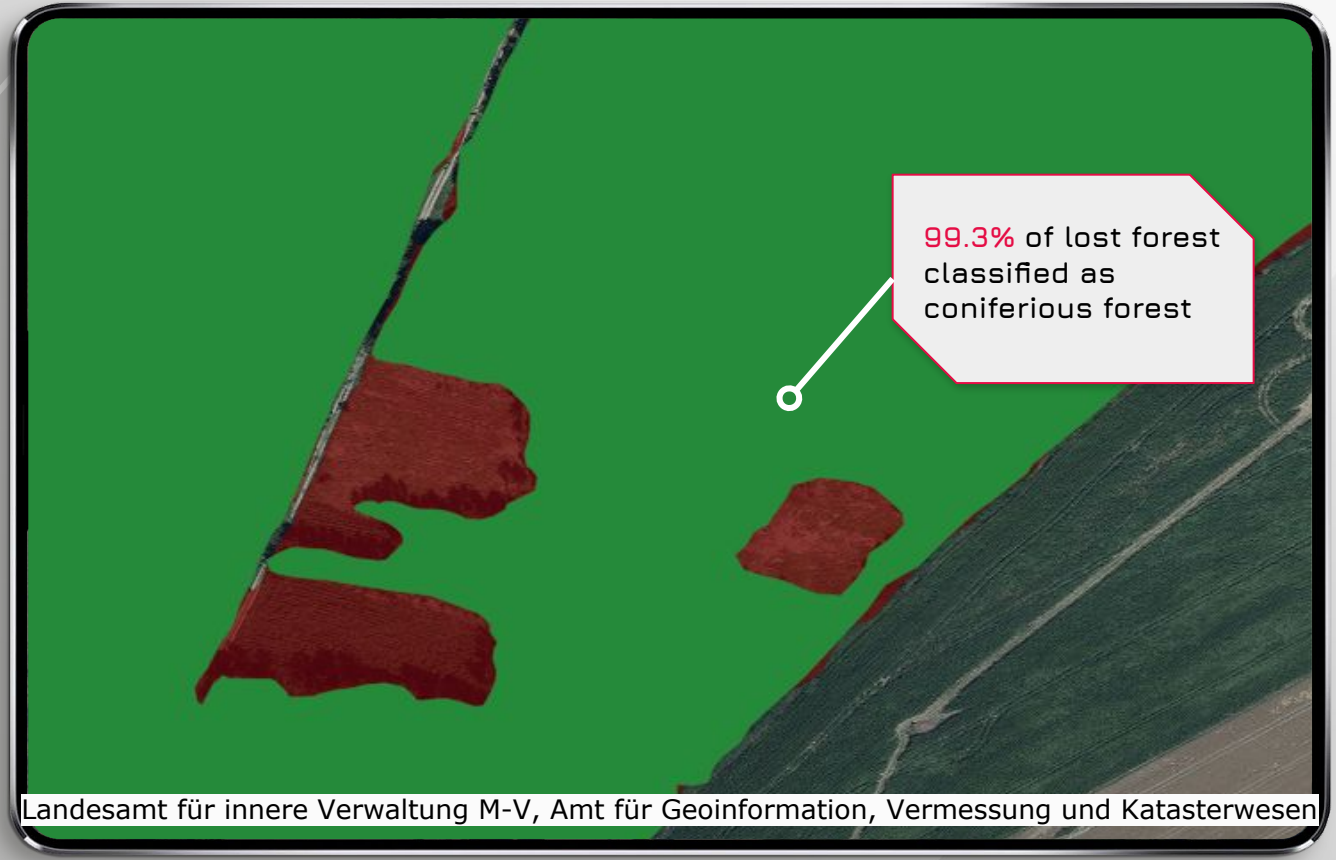
Geospatial insight

- Combining change detection of the landcover with extended classification themes
- explore spatial proximity of the different classes
- Translate the change in landcover to macroscopic insight about the environment

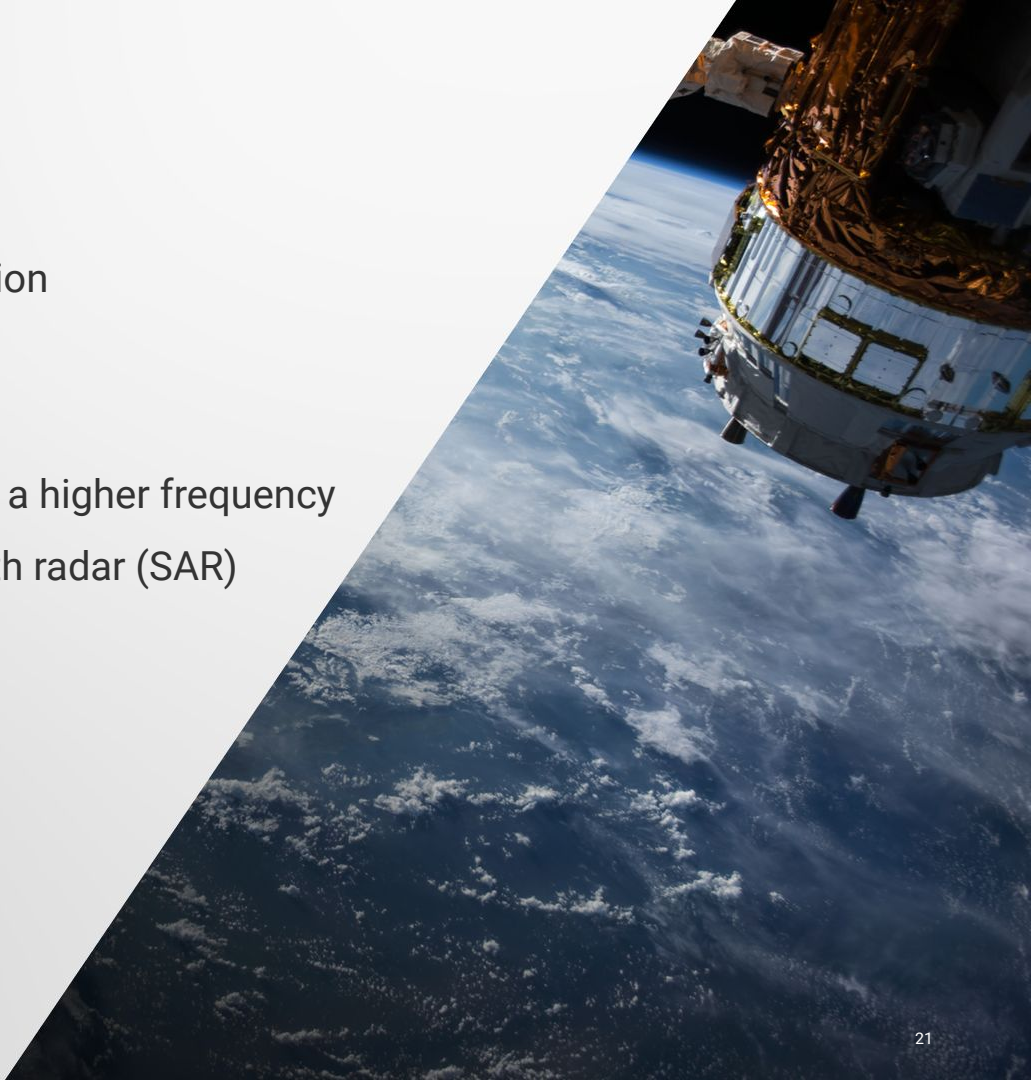
Geospatial insight



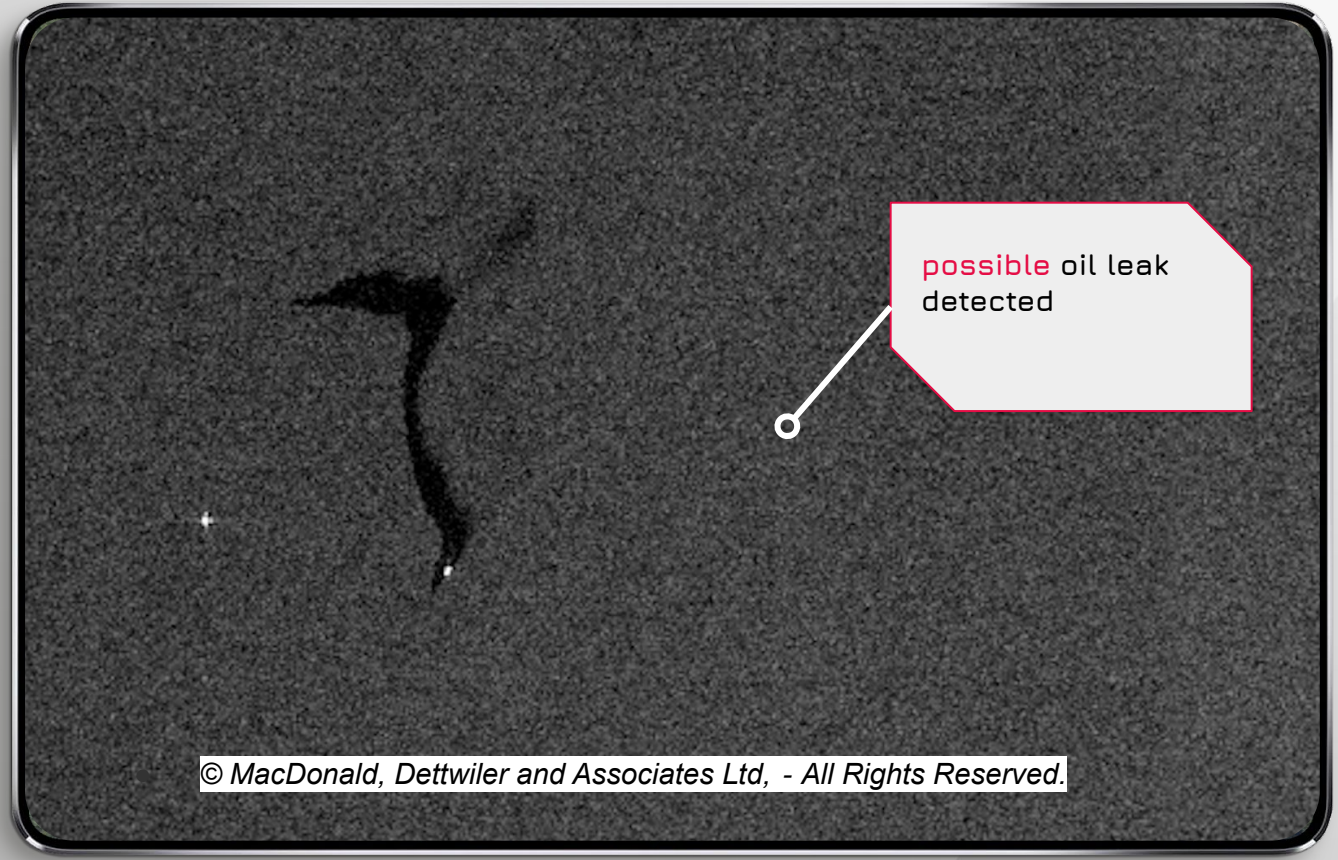
- Answer more complex questions
- scalable quantify the quality of environmental measurements

Live tracking

- Events that need intermediate intervention
  - Oil spills
  - Waste water dumps
- Monitoring with data that is available at a higher frequency
- Weekly screenings of the waterbody with radar (SAR)



Live Tracking



- Live detection of environmental catastrophes
- Allert local authorities

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