

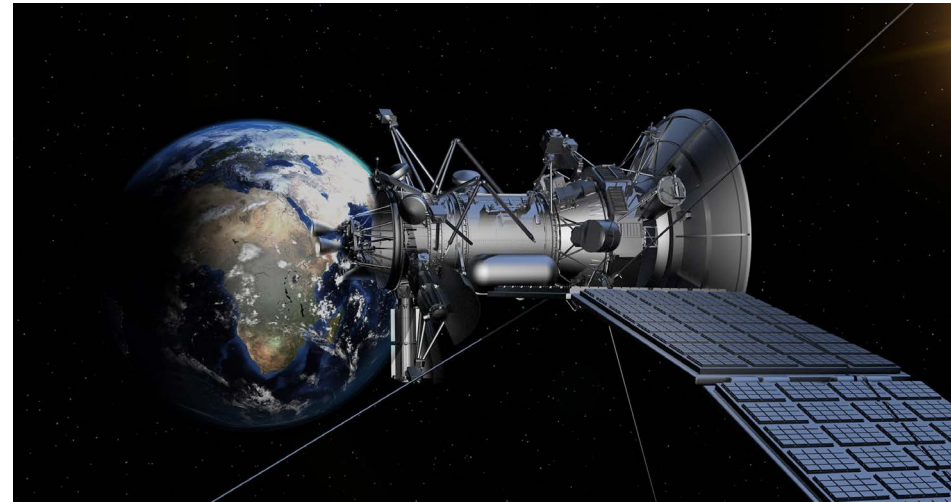
notice early warning

Disasters do not just happen — they result from a chain of events that produce early warnings, which can remain unnoticed until it's too late.

However, monitoring for such warning signs over large areas and in complex environments can be an overwhelming challenge for even the wealthiest of governments.

disaster prevention

Datel has been working with different organizations, providing technological aids to better cope with such challenges.



Constellation GIS-applications for area security, fleet control and solid waste management. As satellite data services are getting steadily better and cheaper, these systems are no longer in the realm of Sci-Fi. However, not all of our solutions rely on them.

Some of our references:

- **utility network management systems in cooperation with ESA** — using satellite remote sensing data, we monitor slow displacements in the ground surface and in structures. Our system can generate early warnings well before a catastrophic landslide or dam/bridge collapse would occur. This **On-Demand Online Deformation Measurement (OODM)** and **Technical Monitoring Service** can be applied for large geographical areas with pinpoint accuracy.
- **constellation GIS applications** for area security, fleet control and solid waste management.
- **sea Pollution Modeling** — based on a sea model, it reveals the level of phosphates in the sea on the coast of Ida-Viru county.
- **river-wastewater mixing zone** — produces diagrams and maps of how wastewater from the shore or rivers mixes and disperses.
- **flooding maps** — ground surface elevation maps. Predicts the level of water rise and helps anticipate potential flooding.
- **dam Impacts Modeling** — enables research on how land is flooded based on the swelling height behind a dam.

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