



# SILLE

**We already have your history.  
It's time for you to know.  
So we can work together.**

**Case Studies**

**How?**

**Why?**

**The Team**

## Case Studies

We can provide 2 years of motion data every 6/12 days on any object, anywhere on the planet, anytime.



Washington

Estonia

Virginia

Rhode Island

# Washington

## Rattlesnake Ridge, Washington

### As cracks widen in Rattlesnake Ridge, here's what to know about landslide risk

By: Ashli Blow, KIRO 7 News Digital Producer

Updated: Feb 12, 2018 - 4:08 PM

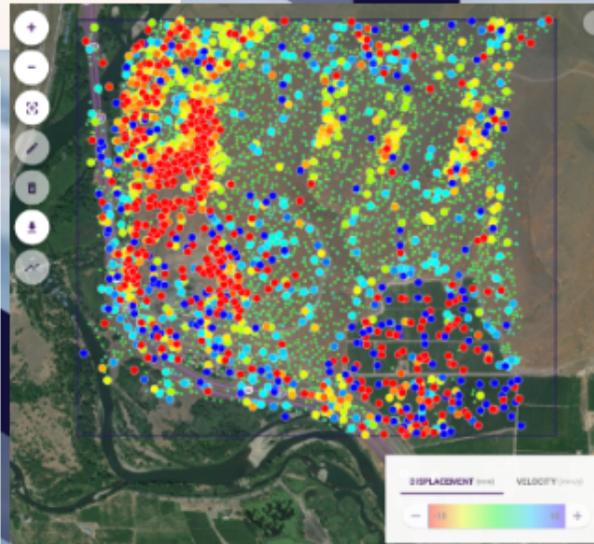
VIDEO: As cracks widen in Rattlesnake Ridge,  
here's what to know about landslide risk

1 minute left

A fissure on Rattlesnake Ridge  
in Yakima is so big drivers can  
see it from the highway.



Two hours southeast of Seattle along Interstate 82, drivers will find the Rattlesnake Hills – with a fissure in the ridge so big it can be seen from the road on a clear day.



# Estonia



Jõesuu Suspension  
Bridge

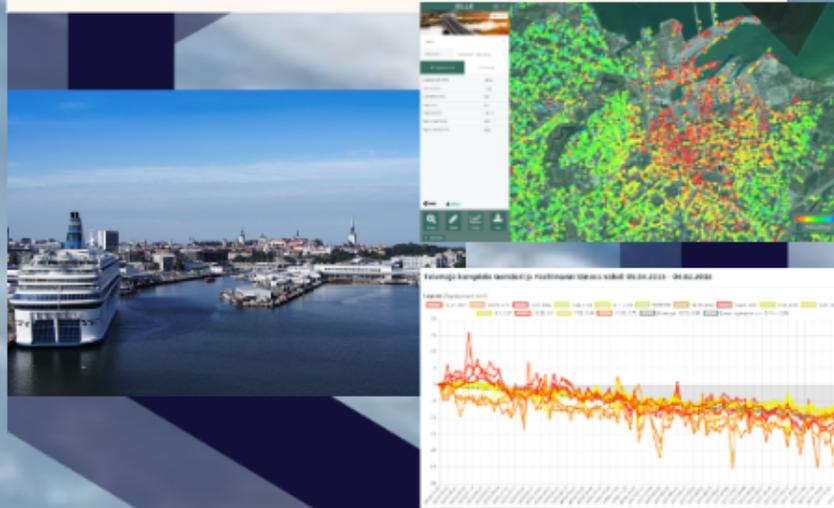
Tallinn

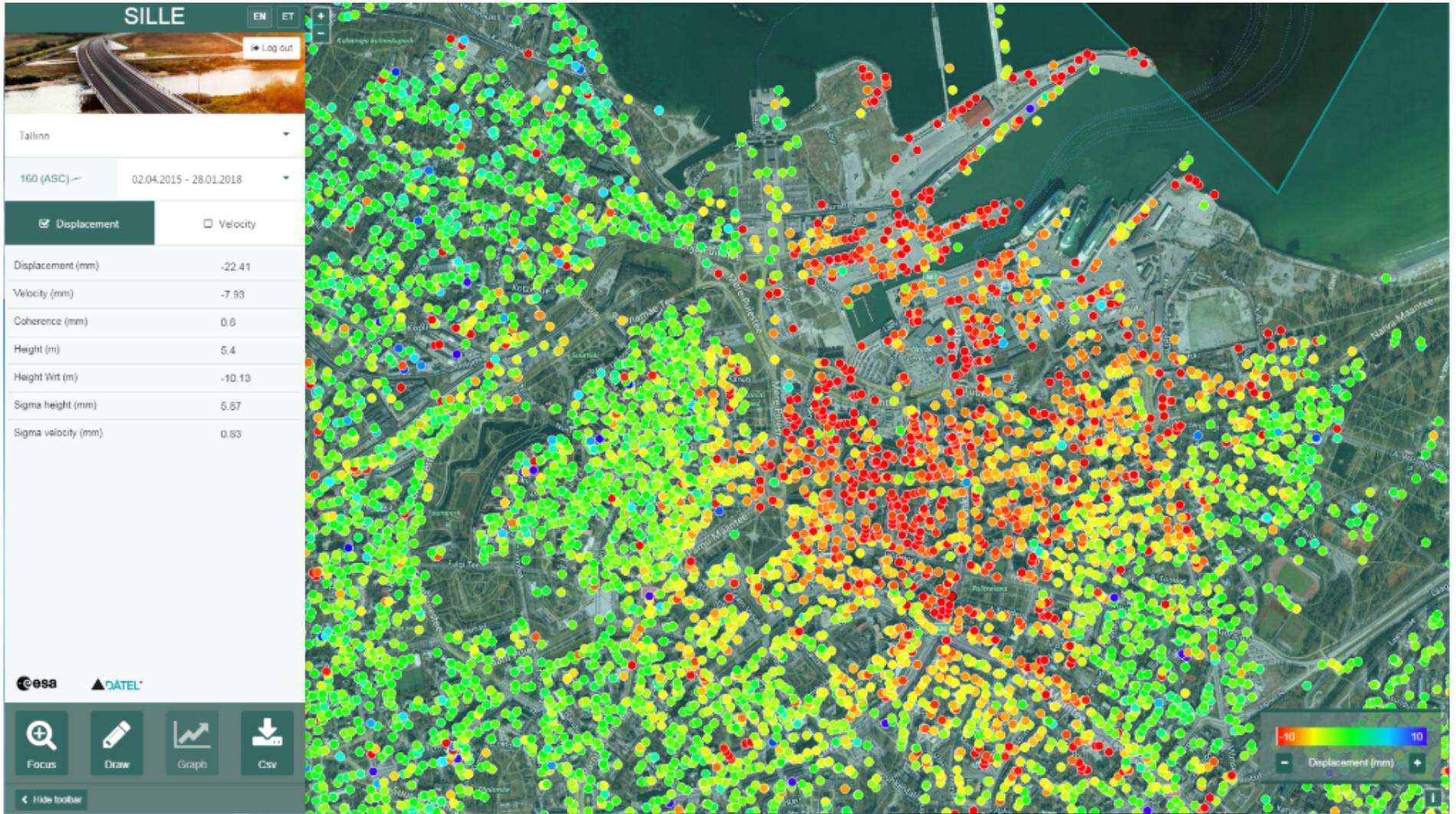
# Jõesuu Suspension Bridge

Pärnu County



# Tallinn



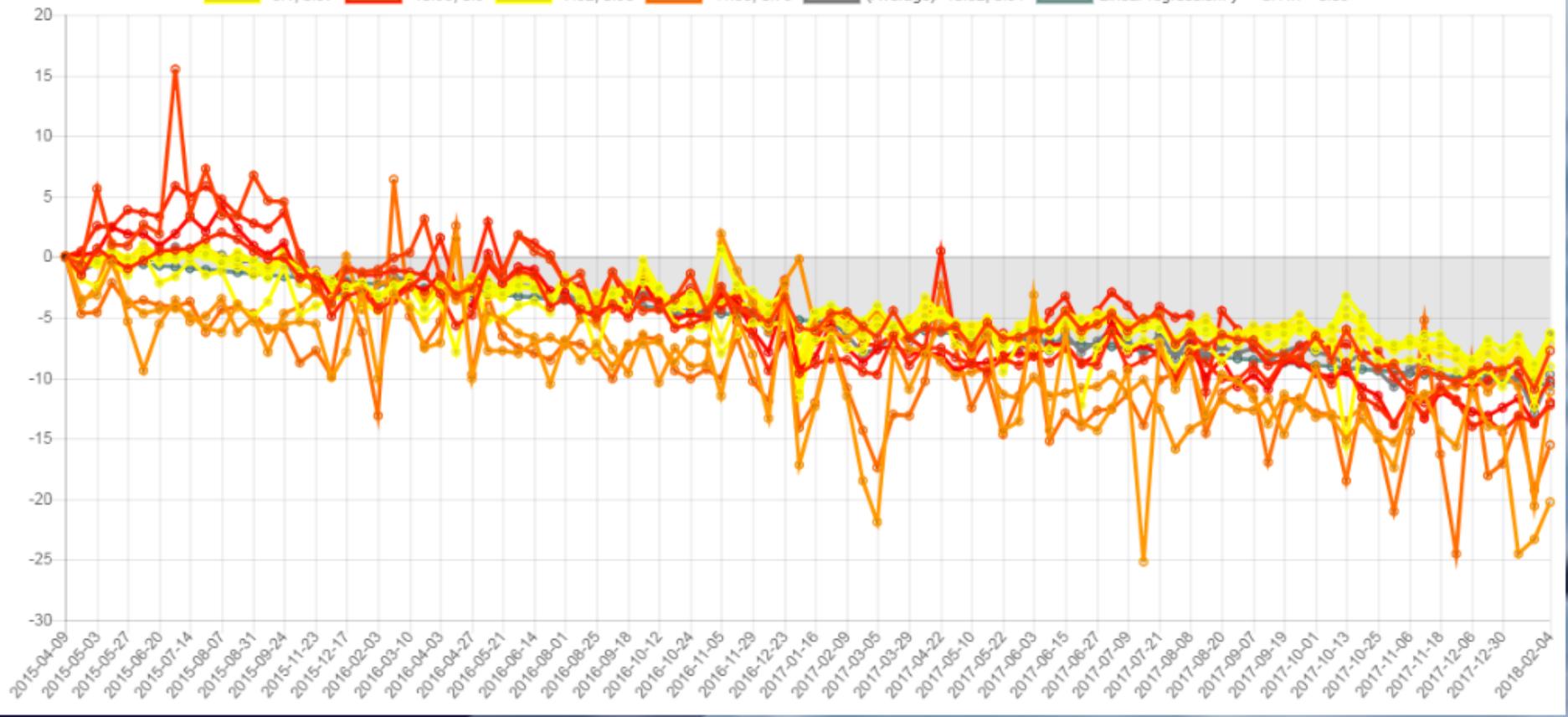


# Telemaja kompleks Gonsiori ja Faehmanni tänava vahel: 09.04.2015 - 04.02.2018



Legend: Displacement (mm)

- 13.27, 0.91
- 10.73, 0.73
- 13.8, 0.94
- 7.76, 0.98
- 8.11, 0.93
- 6.52, 0.9
- 10.96, 0.82
- 14.81, 0.95
- 8.26, 0.98
- 8.29, 0.96
- 8.1, 0.97
- 13.95, 0.9
- 7.92, 0.98
- 11.95, 0.76
- (Average) -10.32, 0.91
- Linear regression:  $y = -0.11x + 0.09$



**Virginia**



**Portsmouth**



**Hampton  
Roads**



# Portsmouth

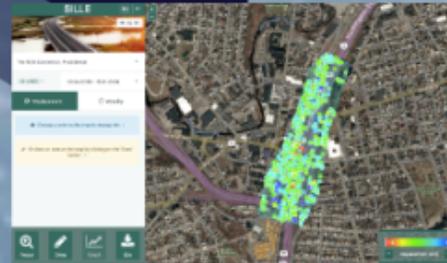
**West Norfolk Bridge**  
Portsmouth, VA

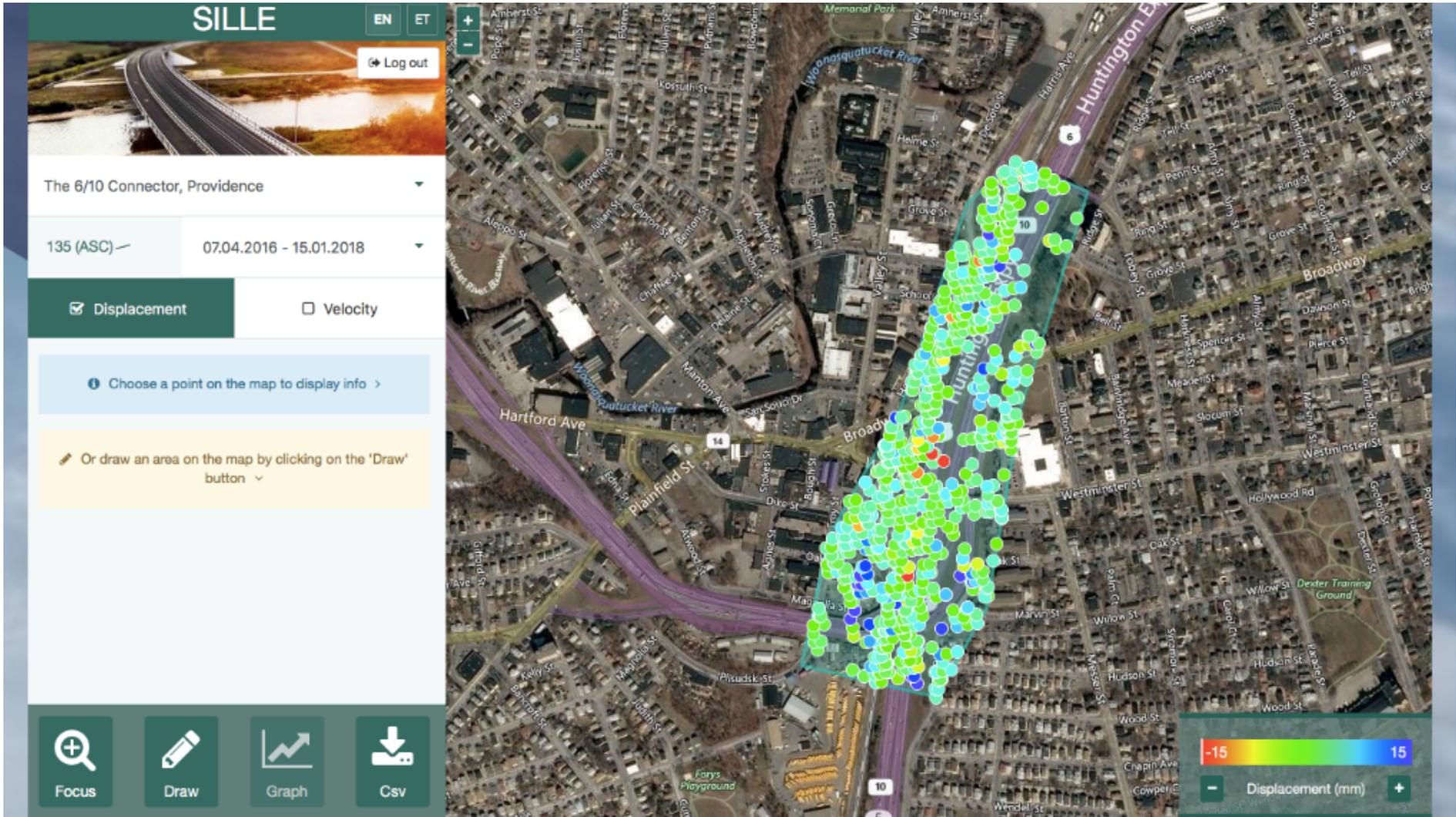




# Rhode Island

## The 6/10 Connector Providence



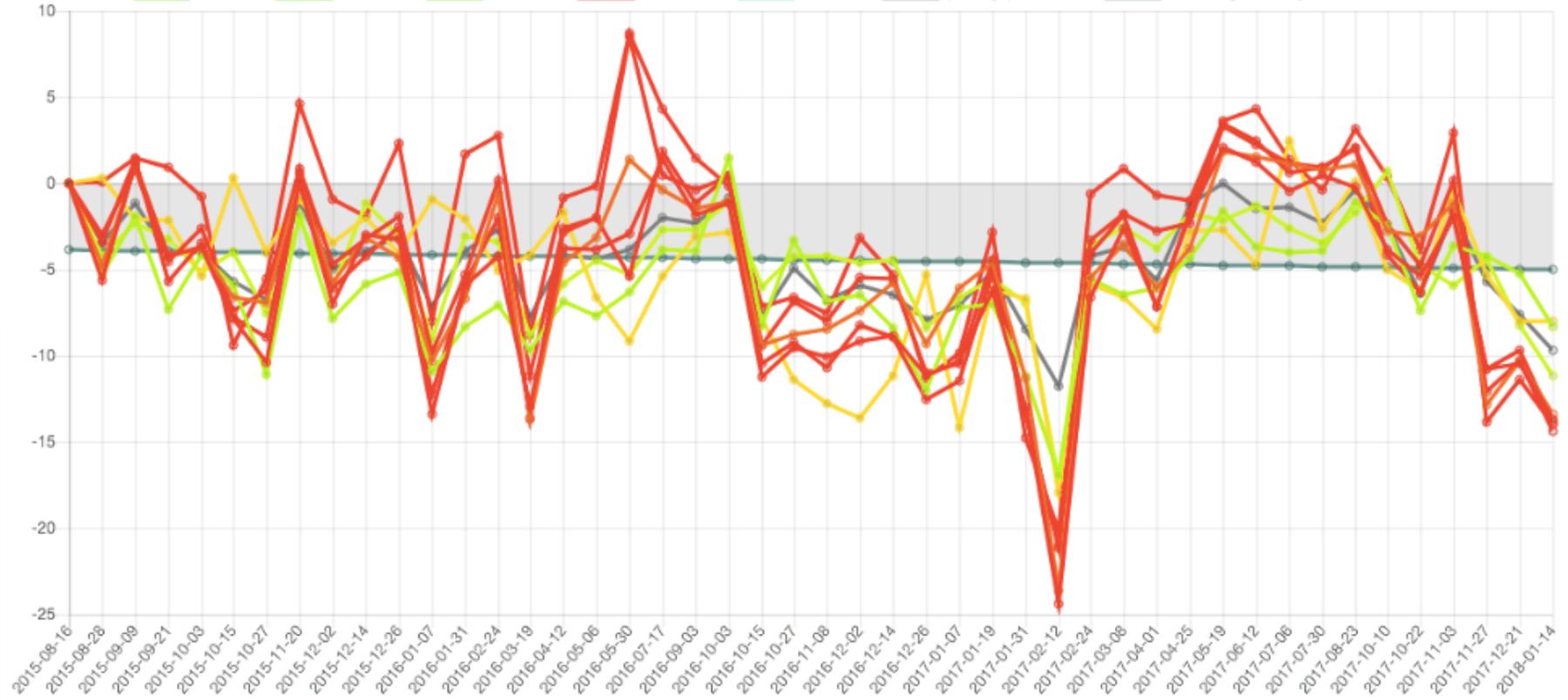


# The 6/10 Connector, Providence: 16.08.2015 - 14.01.2018



Legend: Displacement (mm)

- 9.27, 0.89
- 13.54, 0.89
- 11.87, 0.85
- 6.21, 0.89
- 14.45, 0.83
- 4.66, 0.94
- 15.03, 0.88
- 8.96, 0.75
- 4.52, 0.79
- 6.6, 0.9
- 3.4, 0.77
- 1.62, 0.94
- 2.57, 0.74
- 17.86, 0.76
- 9.01, 0.74
- (Average) -7.43, 0.83
- Linear regression:  $y = -0.02x + -3.85$





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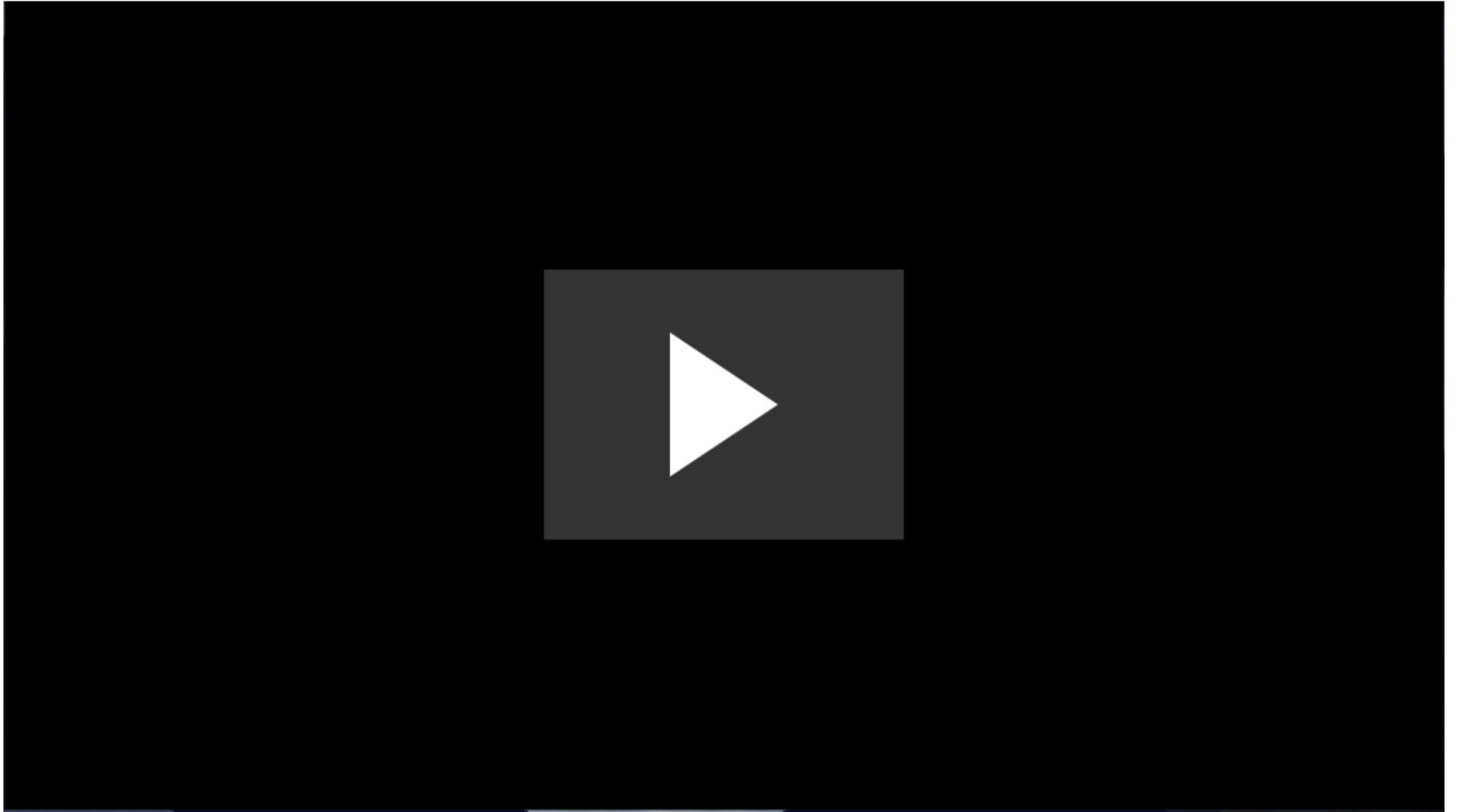
## How it Works



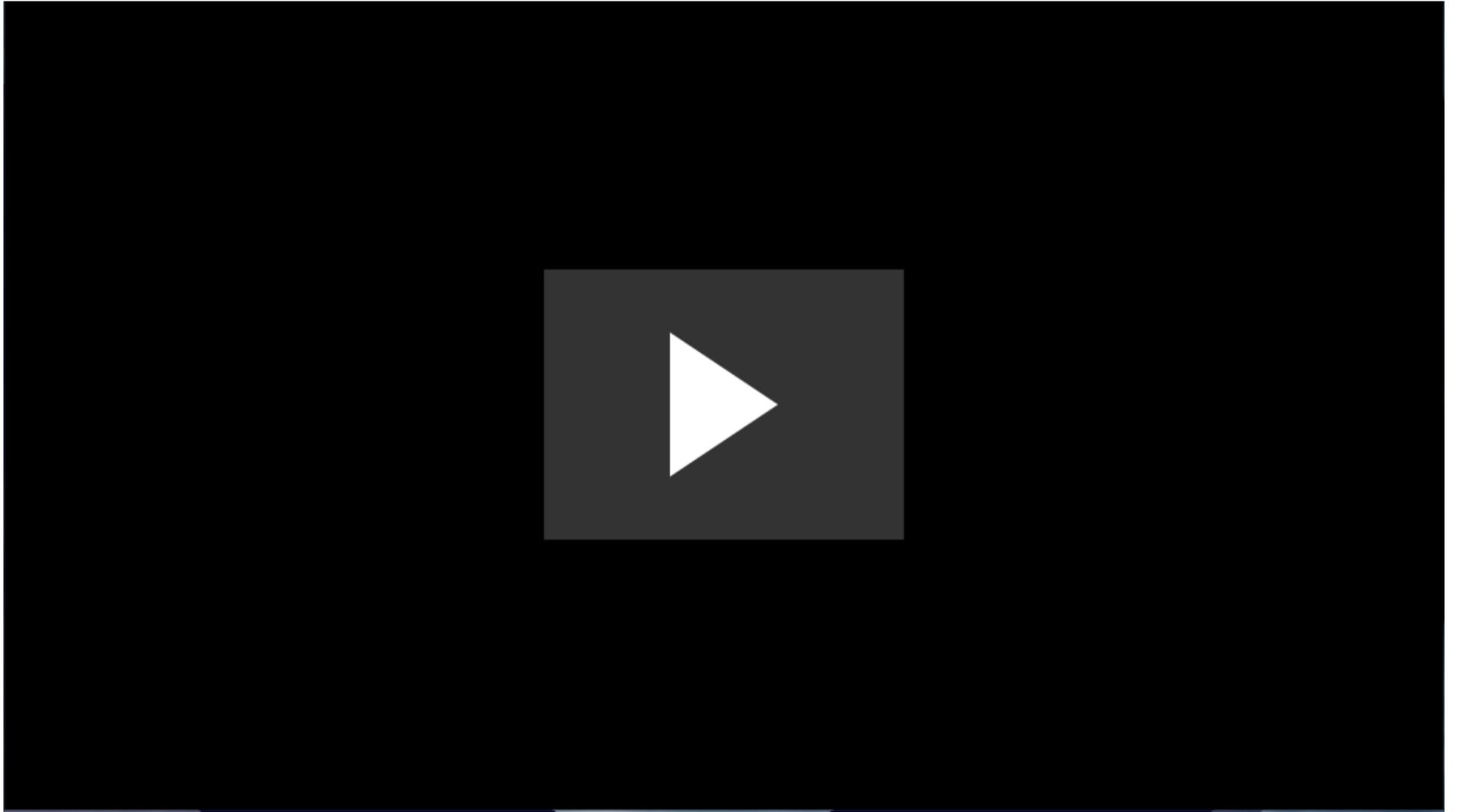
Sentinel 1a & 1b

Alerts











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## Why Sille?

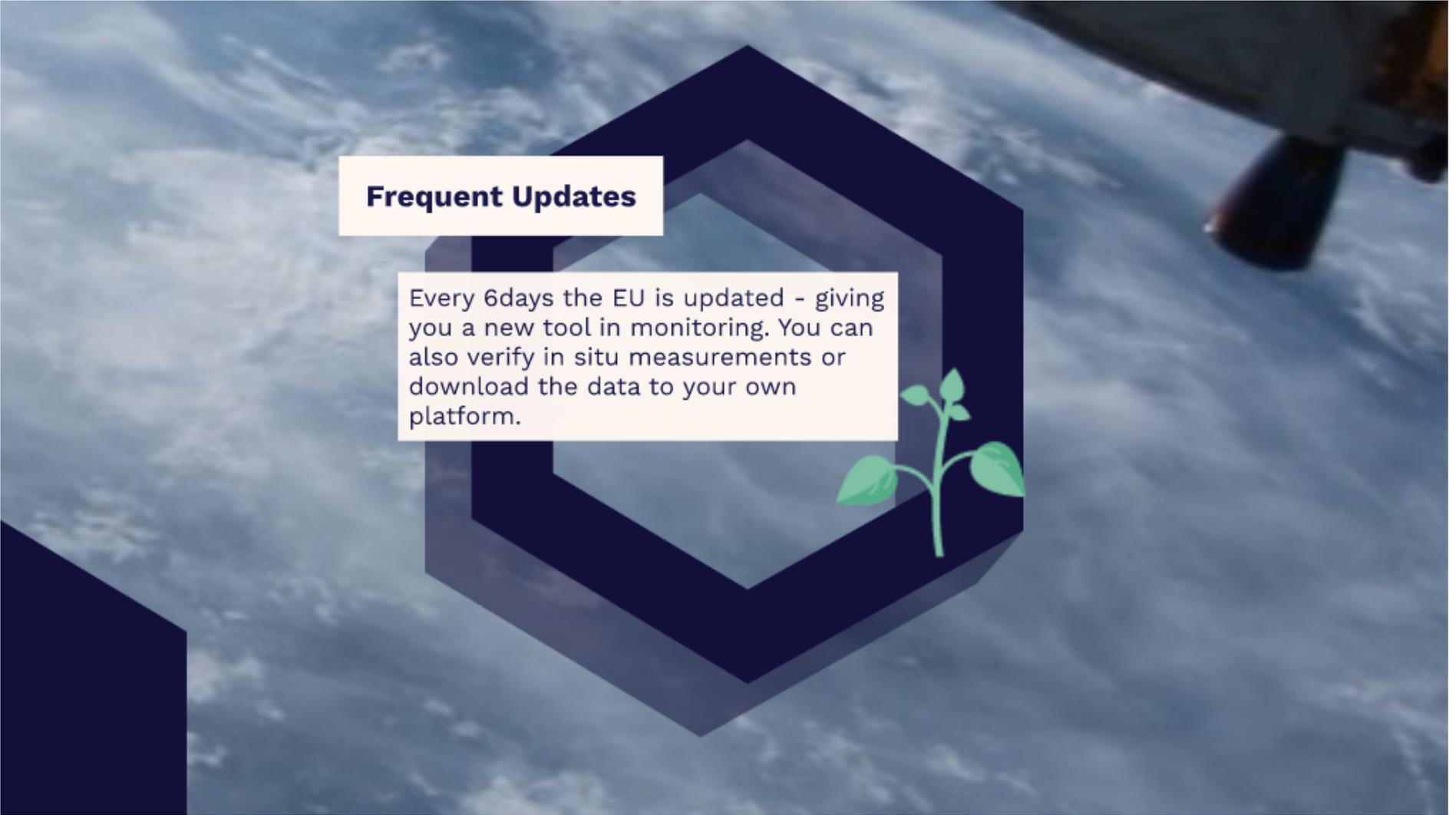
Knowing deformation before and after a project or catastrophe has a different meaning. With Sille know both and do it without visiting the site, like superwoman.



Updates

Enforce Contracts

Price Risk

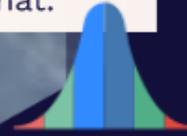


## Frequent Updates

Every 6days the EU is updated - giving you a new tool in monitoring. You can also verify in situ measurements or download the data to your own platform.

## Enforce contracts

Civil structural engineers are held to deformation standards but how do you measure them fast enough to save a project or enforce a warranty? With Sille... you can do just that.





## Price your REAL risk

A site survey gives you a single moment in time. Sille gives you that for the past 2 years. This way you can price your real project risk. You can now also know which sea walls and structures are actually weak to update flood and hazard models.



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# The Team

Building something this revolutionary has been a global adventure.



European  
Space Agency

University  
Research

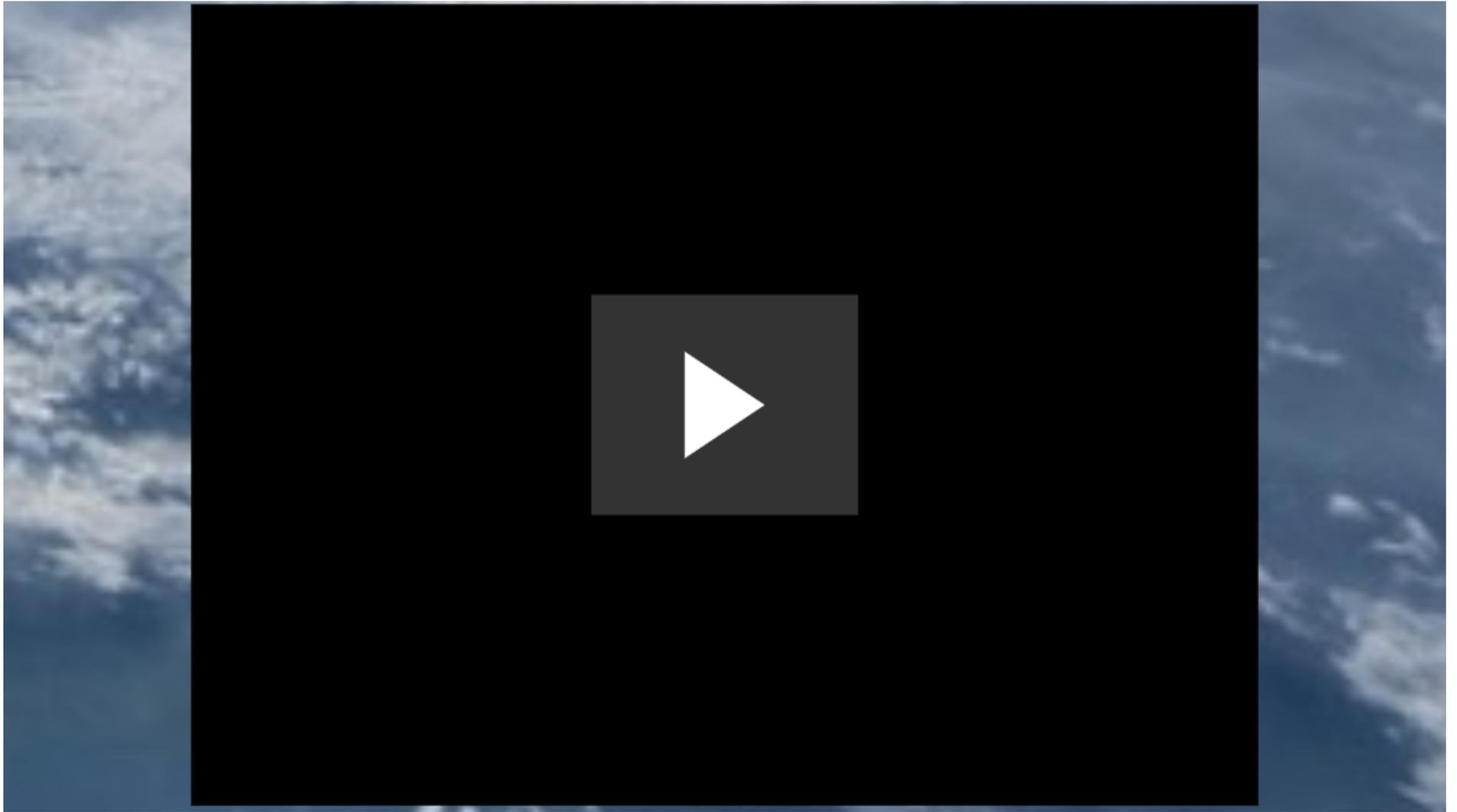
State of  
Maryland

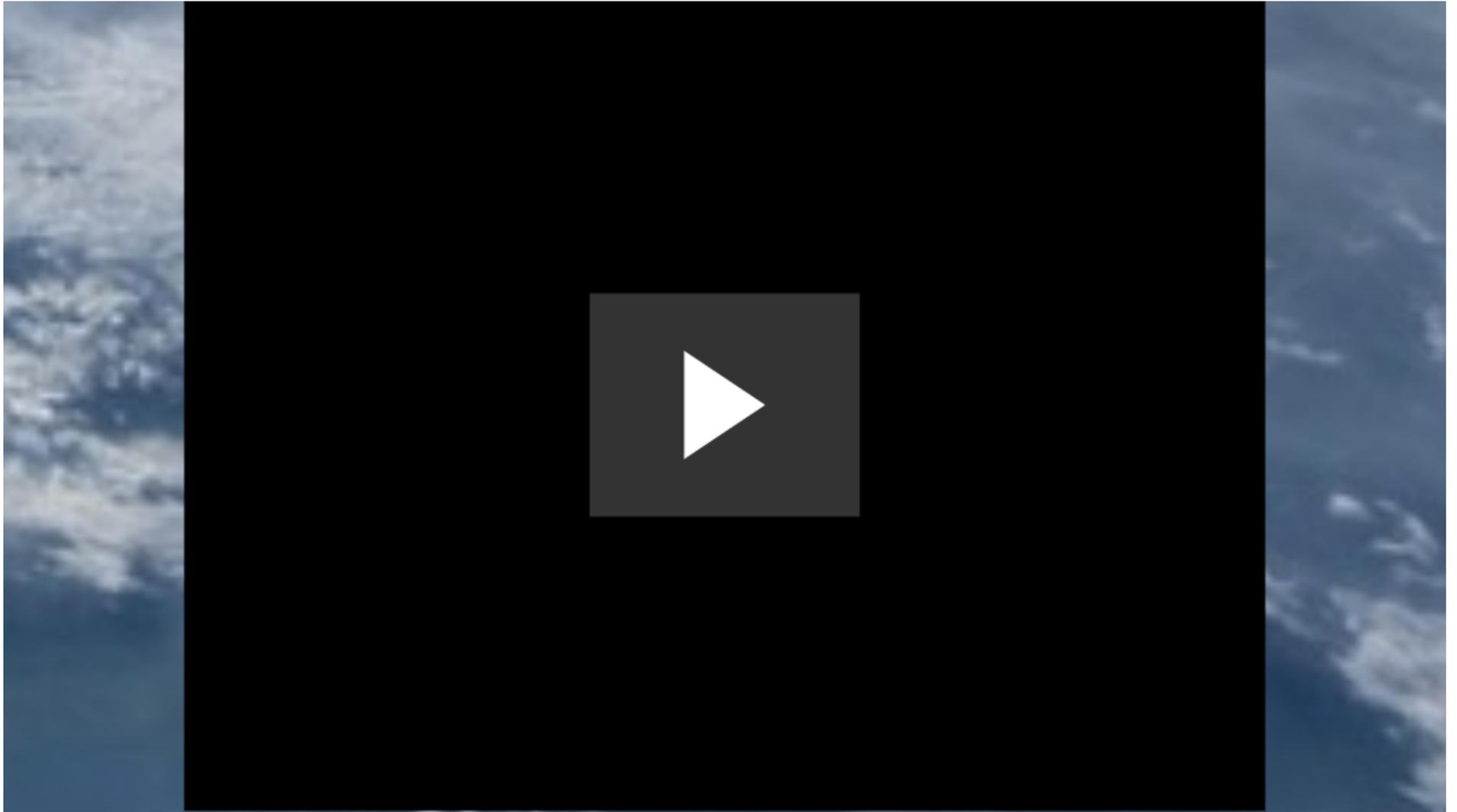
Estonia and  
Spain



As an ESA contractor we developed automated deformation monitoring from their satellites

**Copernicus**







Researchers contribute to the 20,000+ human resources invested in the project





Collaboration and ground proofing of Satellite results in a Statewide assement from bridges, sinkholes, landslides, and further.



REPUBLIC OF ESTONIA  
ROAD ADMINISTRATION

Monitoring infrastructure  
nationally in cooperation  
with state authorities



Monitoring Spain's  
Nuclear fleet



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