



BUSINESS
INCUBATION
CENTRE

Latvia

EO Intelligence for Building-Level Risk Insights

Startup journey to urban impact



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NRG Solutions

Company & Mission



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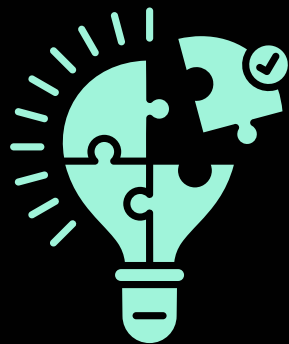
Our mission is to monitor and assess real estate portfolios - remotely and at scale- by fusing Earth Observation and geospatial data into actionable risk insights.

Problem

Issues in real estate management and maintenance



**Aging urban
building stock**



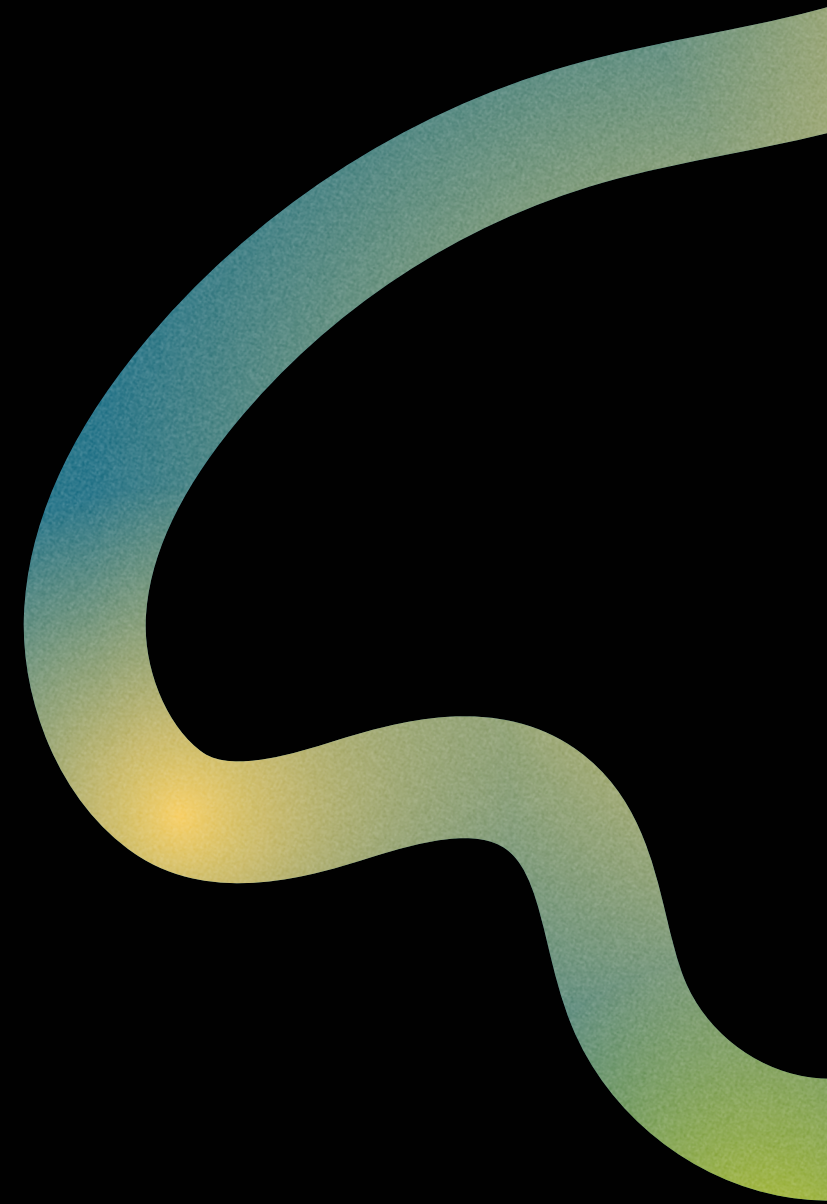
**Lack of reliable
remote data**



**Inefficient
process**



**High
costs**



Our Solution

Building level risk monitoring leveraging EO technologies.
Scalable, remote assesment.

Reliable data

Historic satellite data and diversity of in depth measurements by SAR and InSAR creates a holistic property assesment.

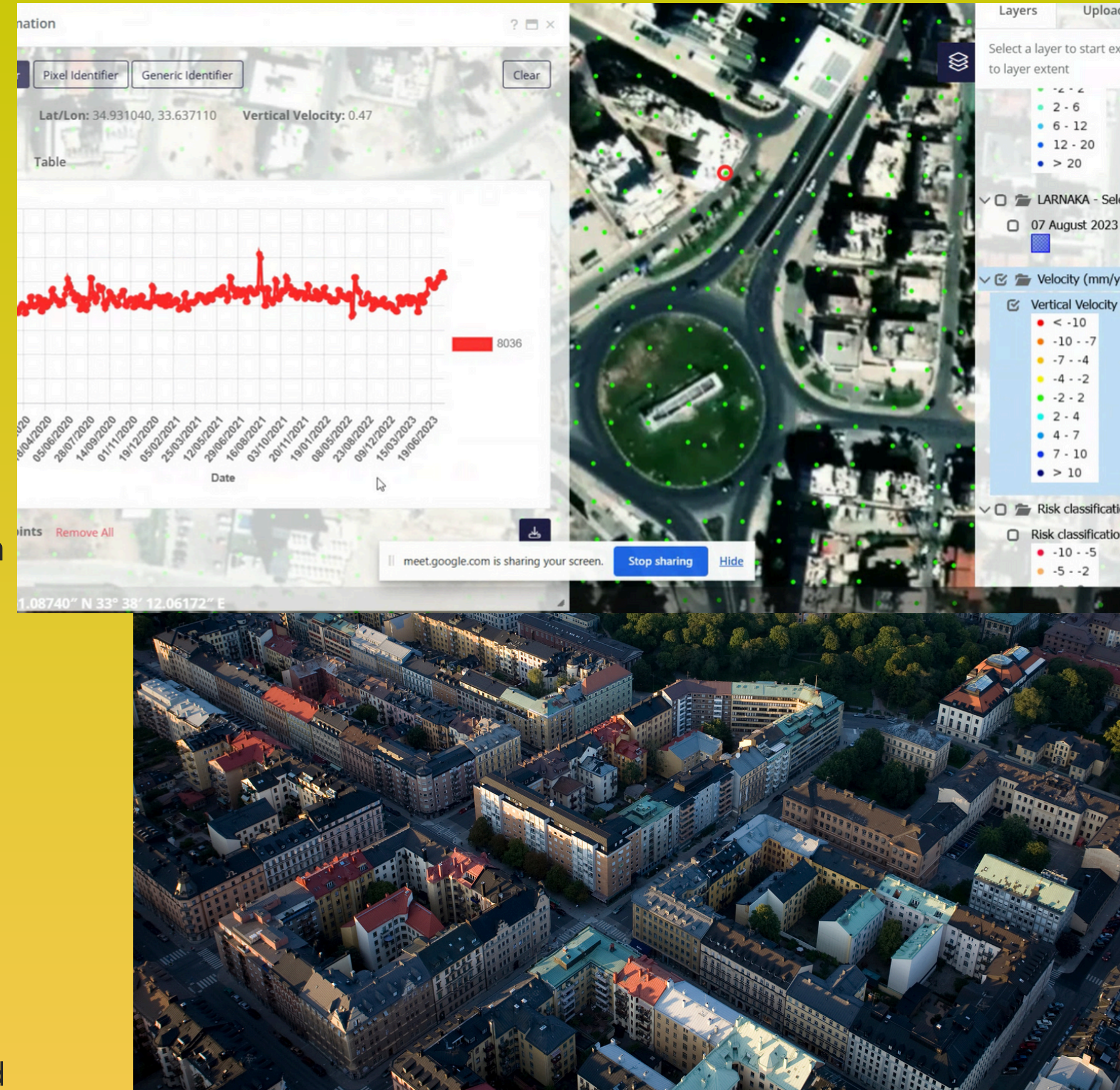
Workflow effectiveness

Overcomes limitations of traditional ground-based methods and reduces need for in person inspections.

Scalability

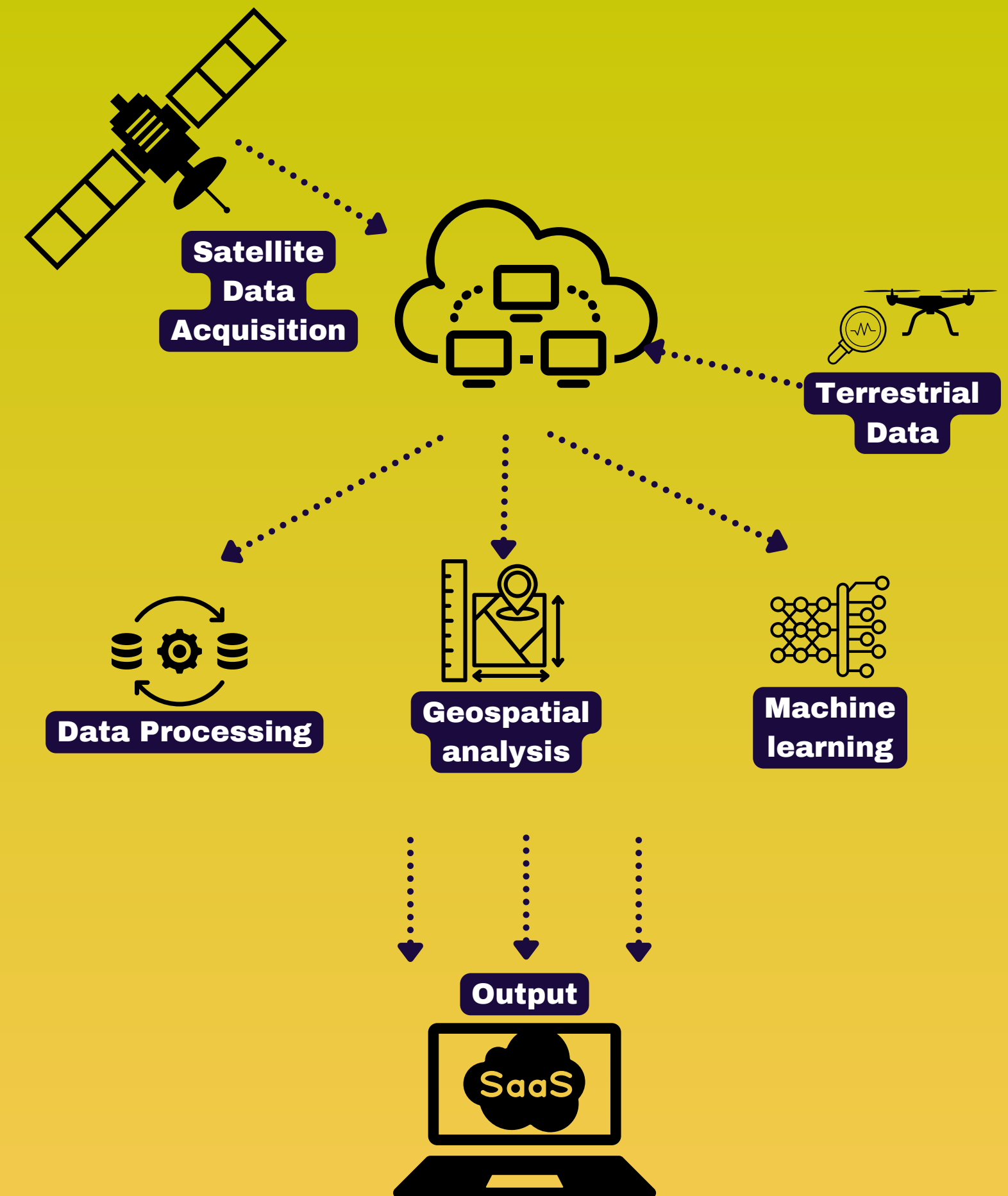
Data available for large geographic territories.

Cost efficiency Using a combination of Free Satellite data and commercial data significantly reduces our service costs to user.



Technology

EO-powered real estate risk intelligence platform—fusing satellite data with in-situ data into reliable insights for smarter, safer real estate decisions.



Environmental impact

- Subsidence data (InSAR)
- Climate data (heat, flood)
- Soil moisture
- Vegetation proximity
- Building properties



Risk Map

- Portfolio wide analytics (past events & continuous monitoring)
- Actionable insight
- Contextual data layers

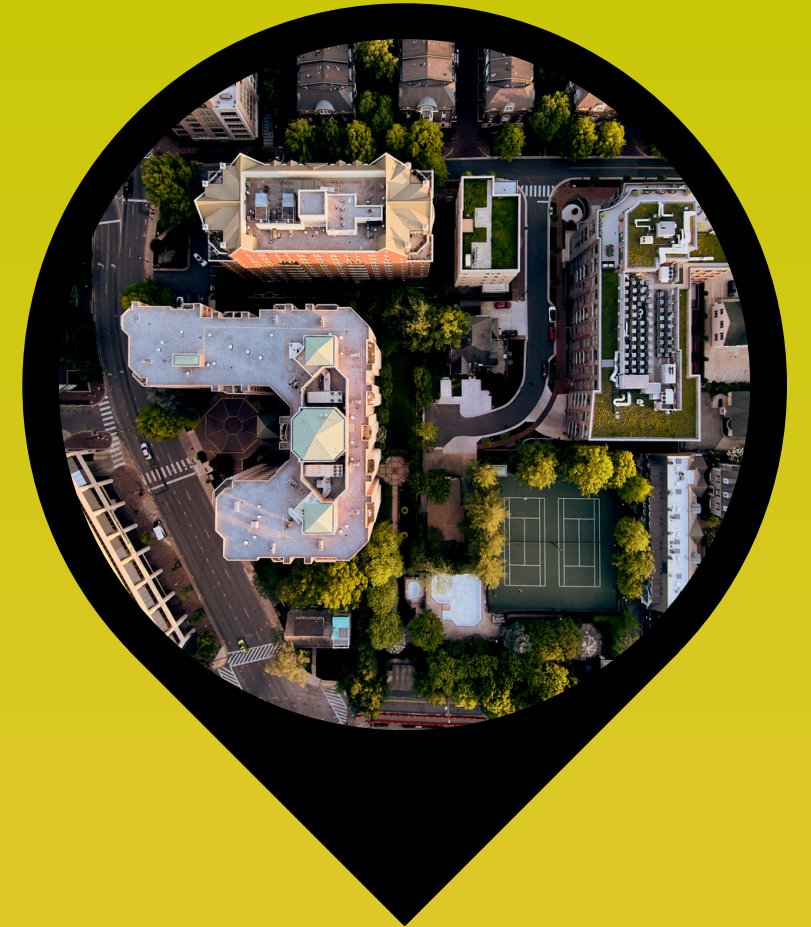
Development Approach

Implementation of technology



Phase 1: Subsidence of heritage buildings

- ESA RPA pilot with RNP
- Solving real life problem
- Detection of subsidence in wooden heritage buildings
- Research and validate satellite data capability

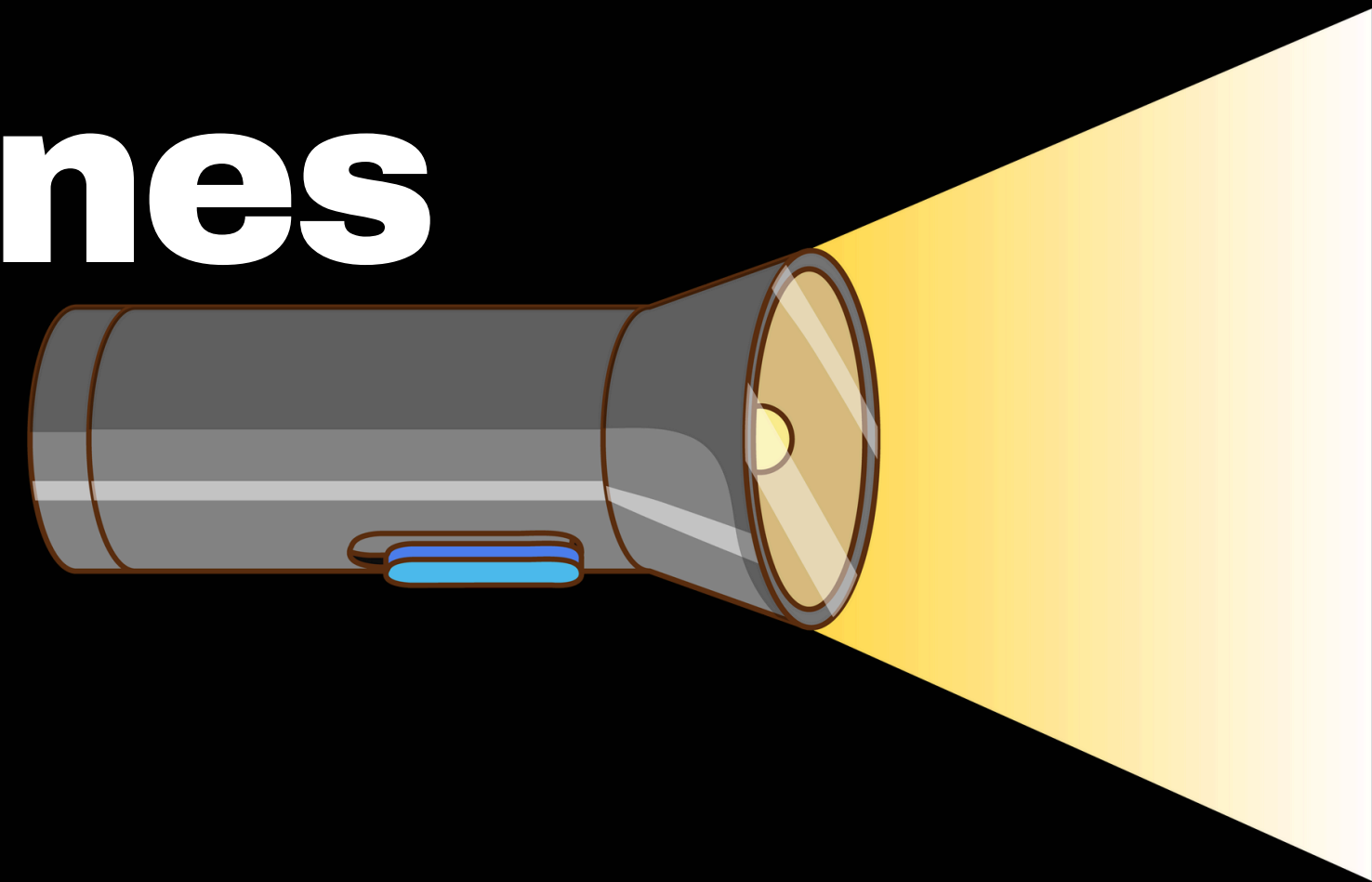


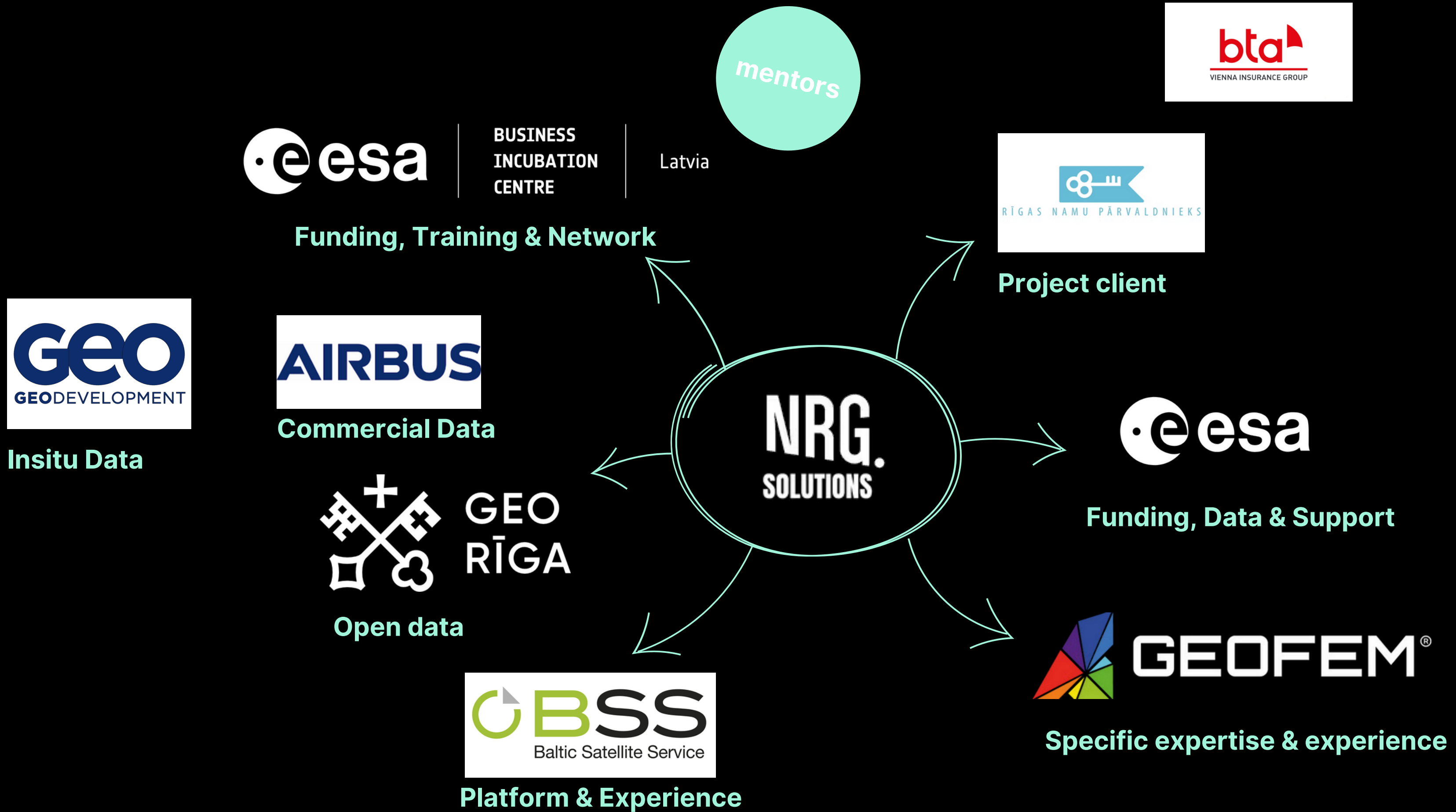
Phase 2: Expanding data sets

- Expanding data layers
- Increasing appeal to stakeholders
- Complete impact overview
- Product market fit

Behind the scenes

Collaboration & Knowledge exchange:
Accelerating impact through partnership





Conclusion

Smarter Cities – Through Dialogue and Partnership.

Turning raw satellite data into **real urban impact** is a complex task, especially for new players like us. But with **strong collaborations, open data, and dialogue** between policymakers and innovators, **challenges become opportunities**.

We're grateful for the support so far and hope that Riga City continues its progressive path, expanding high-quality open data to fuel innovation and smarter cities.



Thank you!

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