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Geospatial intelligence for biodiversity monitoring

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Why **now?**

50%

of the world's GDP is **dependent on nature**, and every dollar invested in restoration creates up to **30 dollars in economic benefits.**

Climate risk = investment risk.

Problem

Profound **disconnect** between the environmental, social, and governance (ESG) data asset managers **need and what's available to them.** Asset managers lack **consistent and accurate data.**

Investment managers **need in-house research** to mitigate ratings flaws and tap **$50 trillion ESG boom.**

“ESG data points have become essential tools, not only for investors seeking performance indicators, but also for companies trying to increase operational efficiency, decrease resource dependency, and attract a new generation of empowered workers.”

Nelson Griggs, President of the Nasdaq Stock Exchange

Commoditization of **Geospatial imagery**

6x

Cheaper in
10 years

10x

increased frequency (near real time)
and spatial resolution (≤30cm)

200 TB

of EO imagery
collected daily

Innovation

Geospatial intelligence from satellites is the **'ground truth'** of ESG metrics

- Spatial Finance combines **innovative geospatial intelligence technologies** including a modern geographic platform, remote sensing, and artificial intelligence.
- Streamline and scale the **collection, analysis, and reporting** of ESG metrics.
- **Monitor risks** like illegal logging, deforestation, desertification, emissions, water pollution, biodiversity loss, & more.
- Verify reported data to **improve climate risk assessments** and create resilient portfolios with risk-adjusted returns.

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A plug and play **geospatial program**

Customer data
Satellite & drone images

Monitor
no code AI
Global and near-real time monitoring

Visualize & share
Interactive dashboards
Third party integration
Online shared visualization

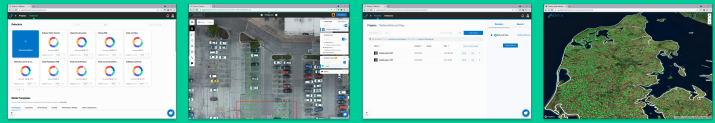
Extract consistent and scalable geospatial insights **in days** not months

Organize data	Label data	Develop model	Train model	Deploy to production	Prod QA/QC	Model maintenance	Results visualization	Scaling to new type of objects
1 week	**4 weeks**	**4 weeks**	**2 weeks**	**8 weeks**	**2 weeks**	**1 week**	**1 day**	**3 weeks**
Data scientist GIS associate	Data scientist Annotator	Data scientist	Data scientist	Software engineer Developer engineer	Data scientist GIS associate	Data scientist	GIS associate	Data scientist

Using Picterra

1 week

95%
time saved



Organize data	Label data	Develop model	Train model	Deploy to production	Prod QA/QC	Model maintenance	Results visualization	Scaling to new type of objects
4 hours	**8 hours**	**Automated**	**1 hour**	**Automated**	**40 hours**	**5 min**	**5 min**	**1 day**

NO CODING SKILLS REQUIRED + EASILY SCALABLE FROM SINGLE USER TO TEAM COLLABORATION

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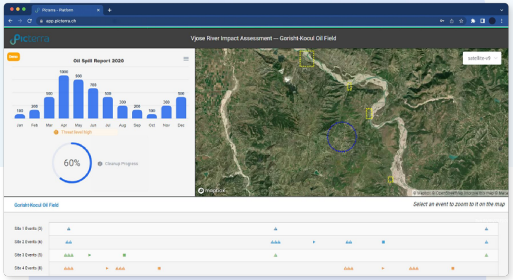
More use cases for geospatial intelligence in ESG reporting

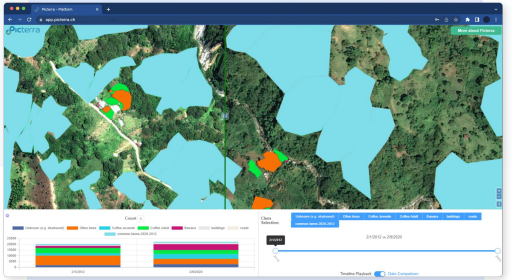
Verify carbon offsets

Monitor the land where trees are planted, follow their growth, and count them to get transparent documentation to support carbon certifications.



Provide material intelligence

Comply with the materiality condition of ESG reporting & provide audible records.



Attract sustainable capital

Assure impact investors that new mine or plants are not causing illegal deforestation, biodiversity loss, or water pollution.

Biodiversity **monitoring**

- **Financial institutions**—which often invest over decades—increasingly recognize the importance of minimizing emissions, habitat destruction, and other activities that harm the natural world and rise climate risks.
- **Spatial finance analysts** rely on advances in location intelligence technology and location analytics to translate those factors onto the balance sheet.

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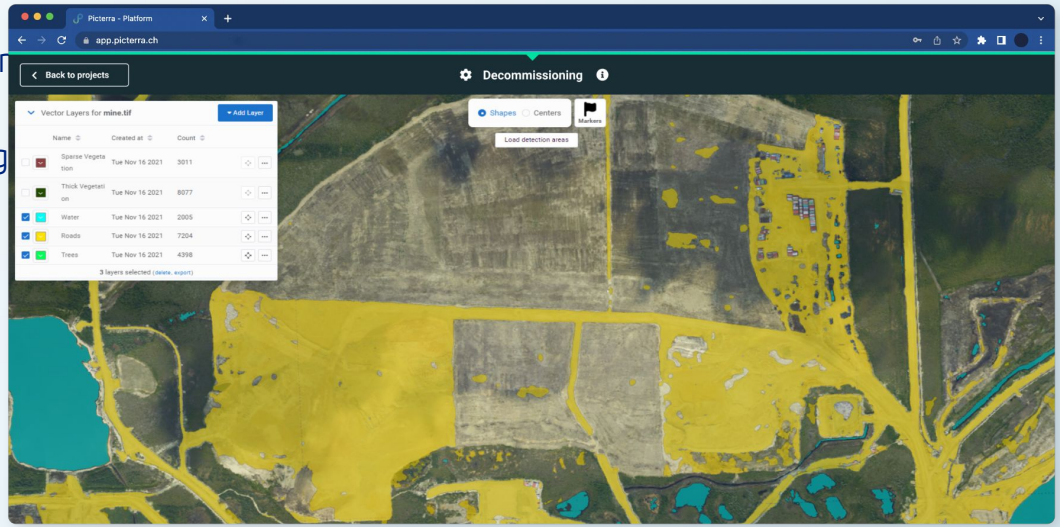
Biodiversity **monitoring** for sustainable mining

- **Vegetation & biodiversity monitoring**
  Revegetation of mining sites, conservation of protected habitat requires regular reporting of conditions around the mining site.

- **Mine safety monitoring** . In-pit haul roads, water bodies, cracks and erosion mapping and monitoring are key to provide safe operations on-site.



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Thank you

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