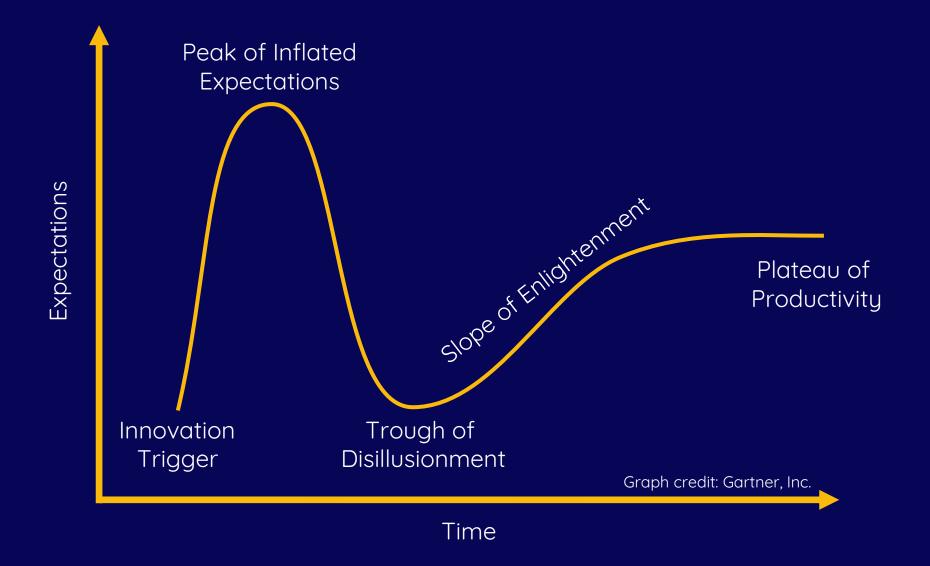


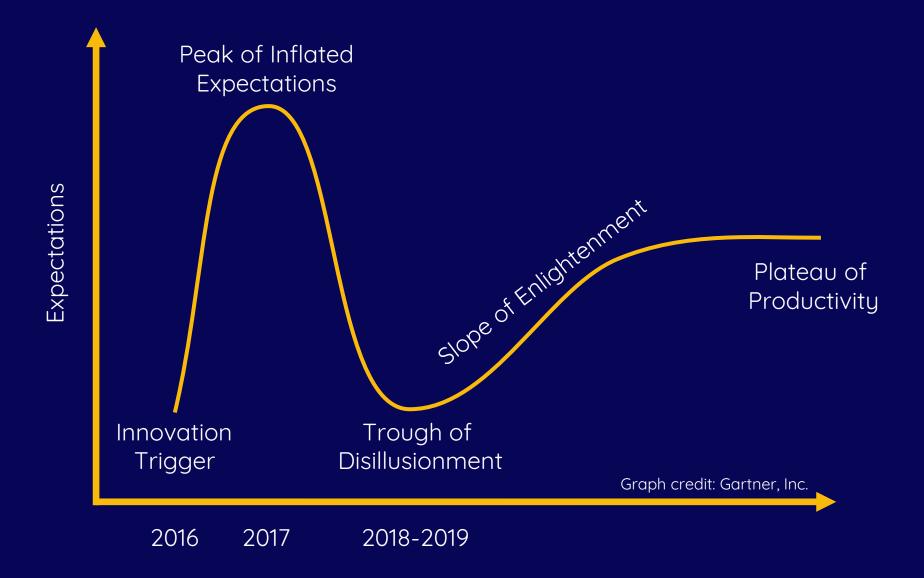
Leveraging Earth Observation Data and Artificial Intelligence to Improve Site Characterization

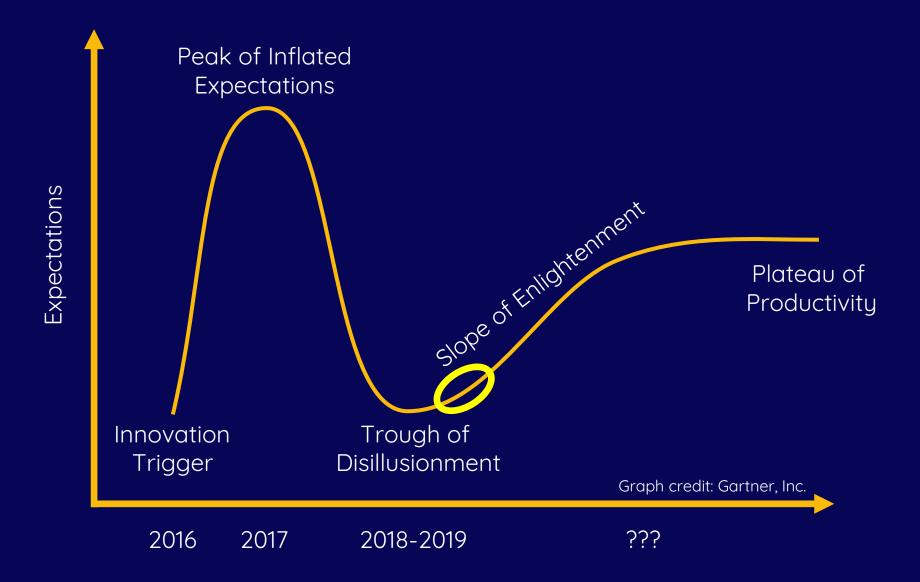


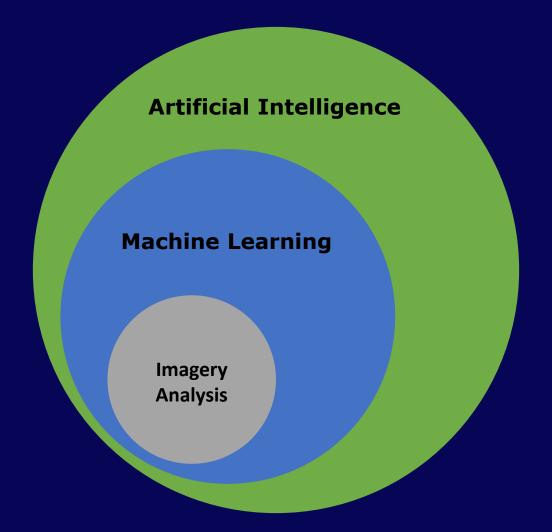
Jesse D. King, R.G.
Senior Consultant













01

We use aerial and satellite imagery (this can be yours, ours, or third party) to take an inventory of your entire site.

02

Our Al-powered platform then analyses the health, growth, and distribution of vegetation in this imagery to spot signs of erosion, contamination and hydrologic issues. 03

You get a complete report which shows if, where, and how your site is deteriorating, with recommendations for what to do next.



## **Case Study Studies**

- 1. Vegetation Reclamation Monitoring
- 2. Automated Erosion Monitoring
- 3. AML Feature Detection
- 4. Road Network Monitoring



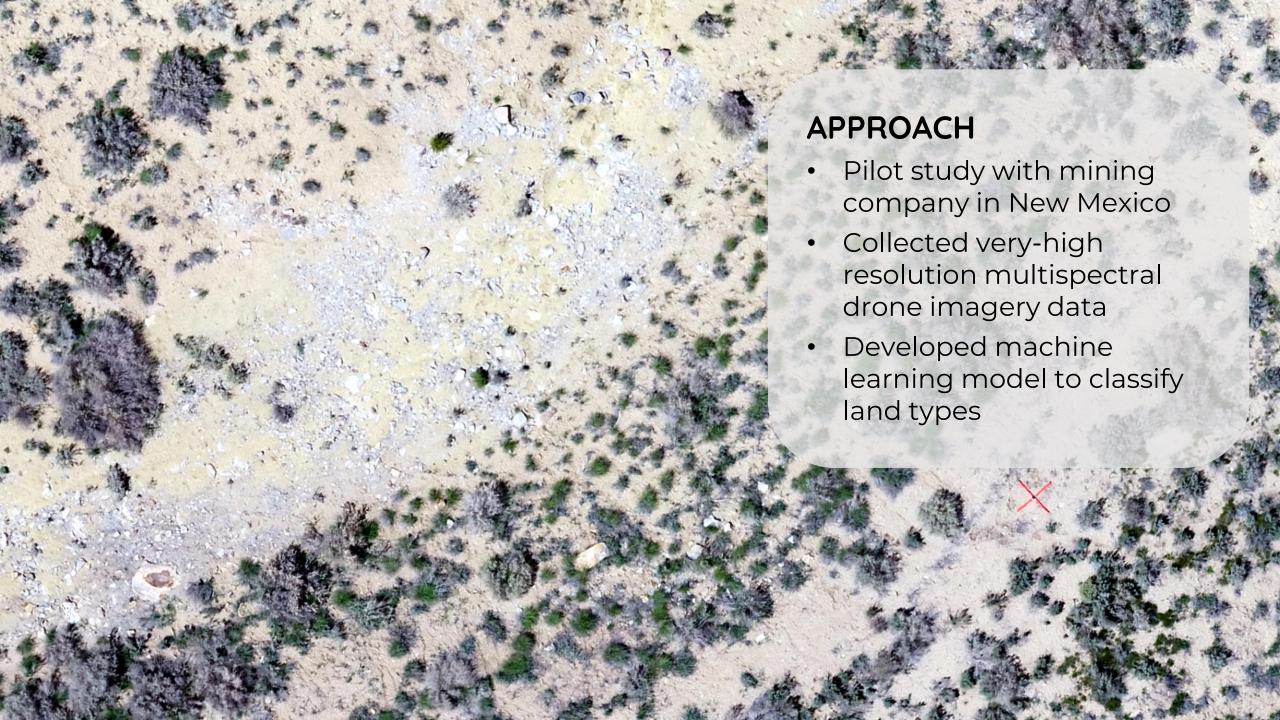
**Case Study One** 

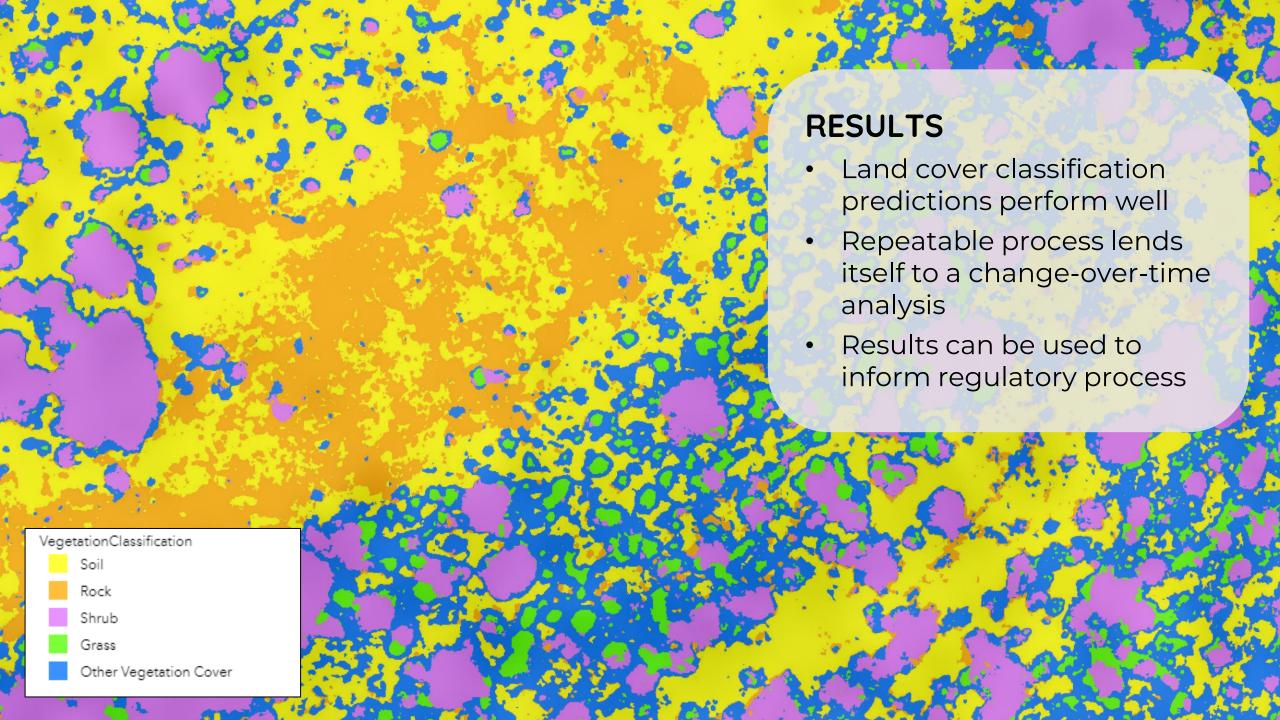
Vegetation Reclamation Monitoring

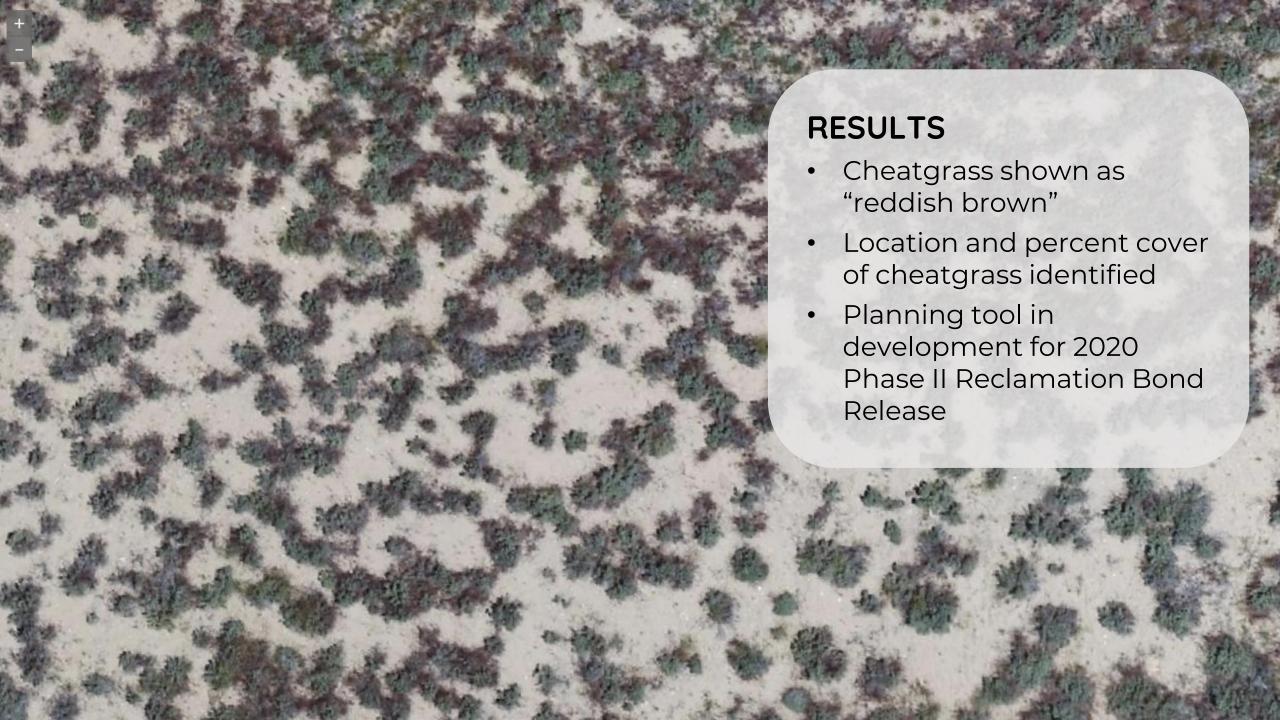


## **PROBLEM**

- Monitoring occurs over thousands of acres
- Currently, linear transects across small areas are used to determine vegetative cover and invasive species
- Want overview of entire site; resolution of available imagery is too low







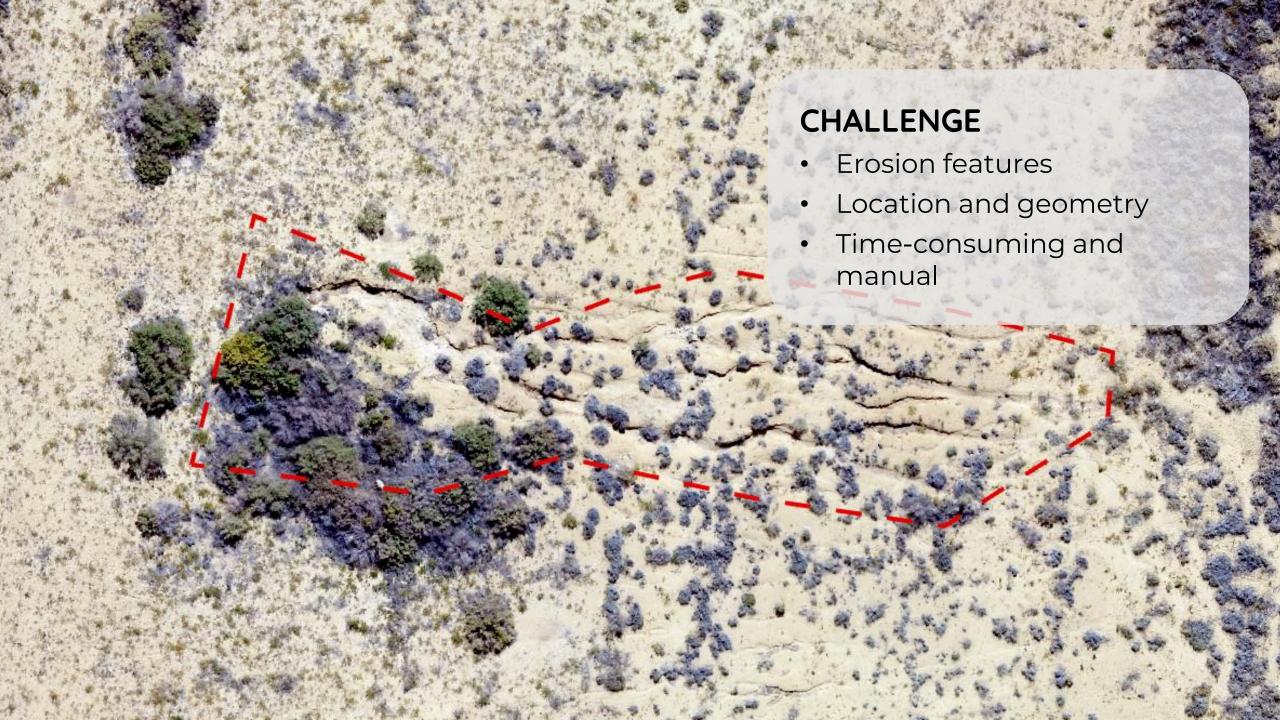




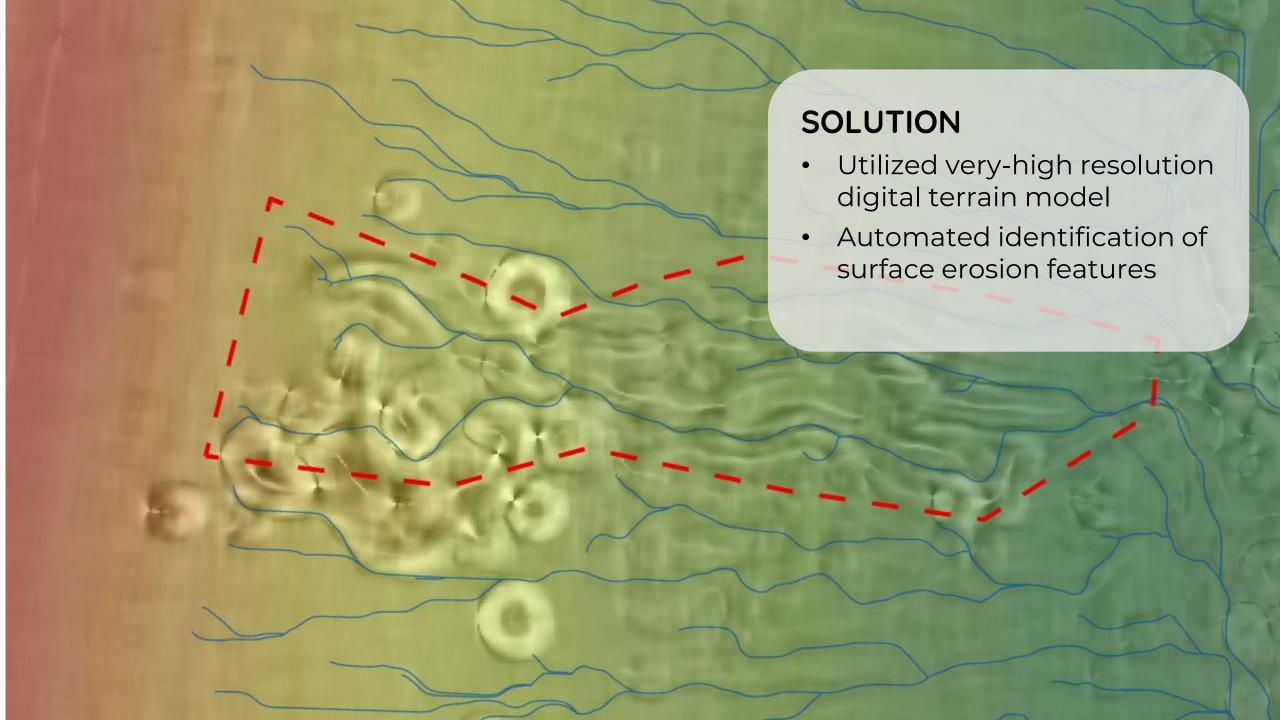
Case Study Two

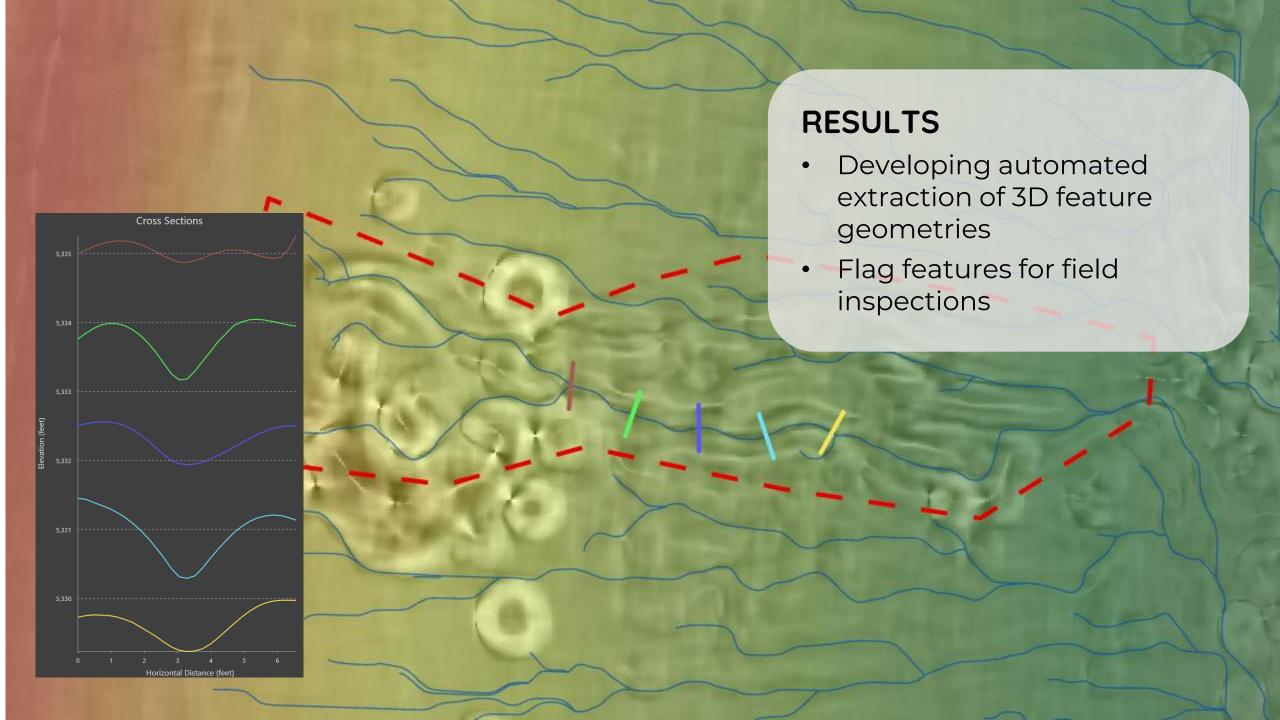
Automated Erosion Monitoring













Case Study Three

AML Feature Detection



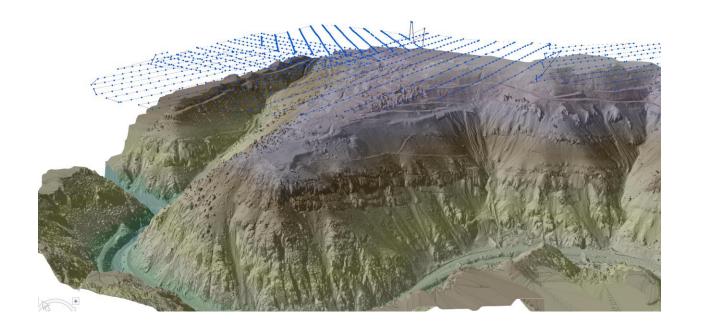






**Adits & Shafts Identified** 

## Prioritize openings for closure



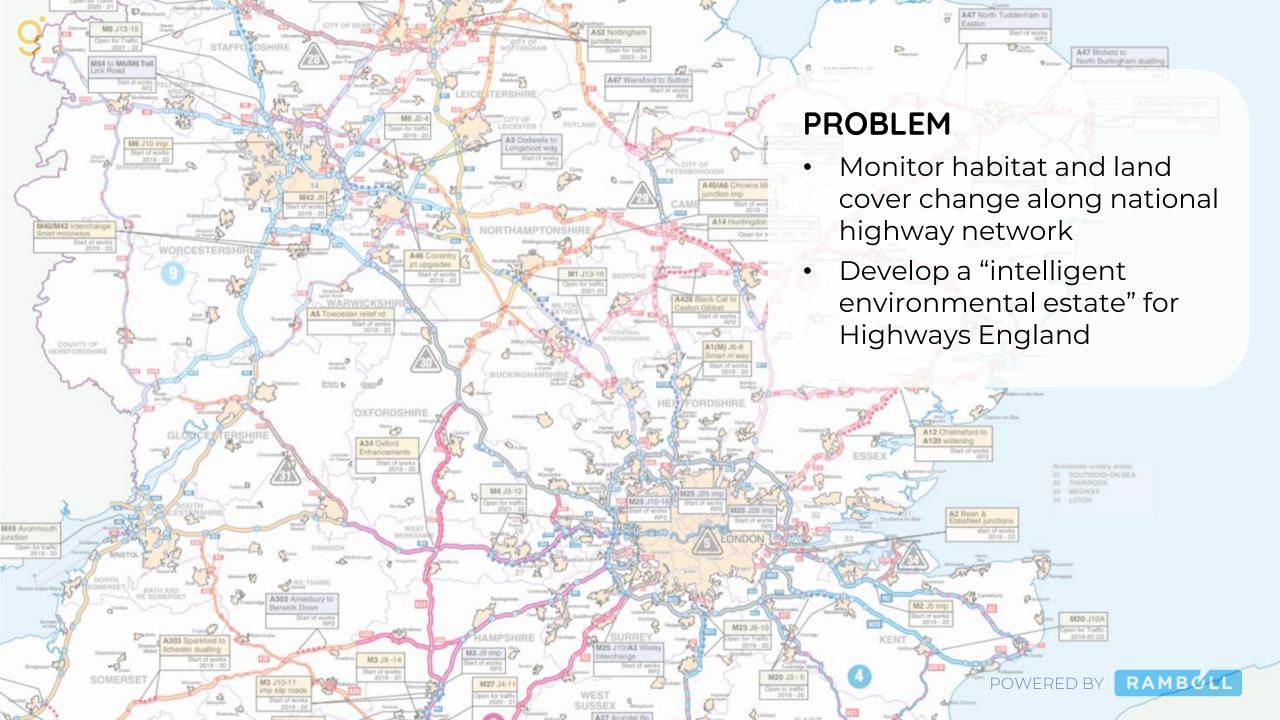




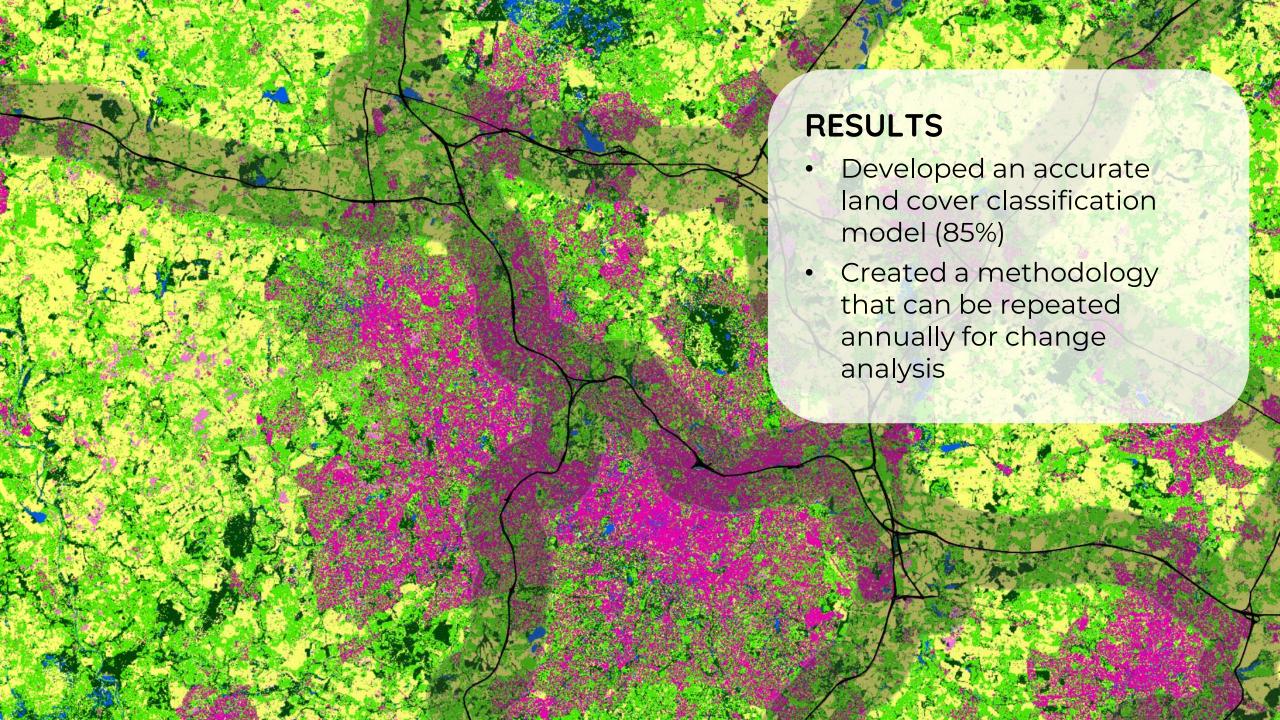
**Case Study Four** 

Road Network Monitoring









## Bright ideas. Sustainable change.

