



Leveraging Aerial Imagery and Artificial Intelligence to Aid Invasive Species Detection Efforts

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RAMBOLL

Bright ideas. Sustainable change.



01 Galago

02 Previous Work

02 Ongoing Study

Agenda

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Helping environmental managers
understand and monitor what is
happening on their land so they
make informed decisions early

—How drone imagery analysis can help

01



Get a complete picture

02



Accurate and extensive results

03



Safeguard yourself and your assets

04



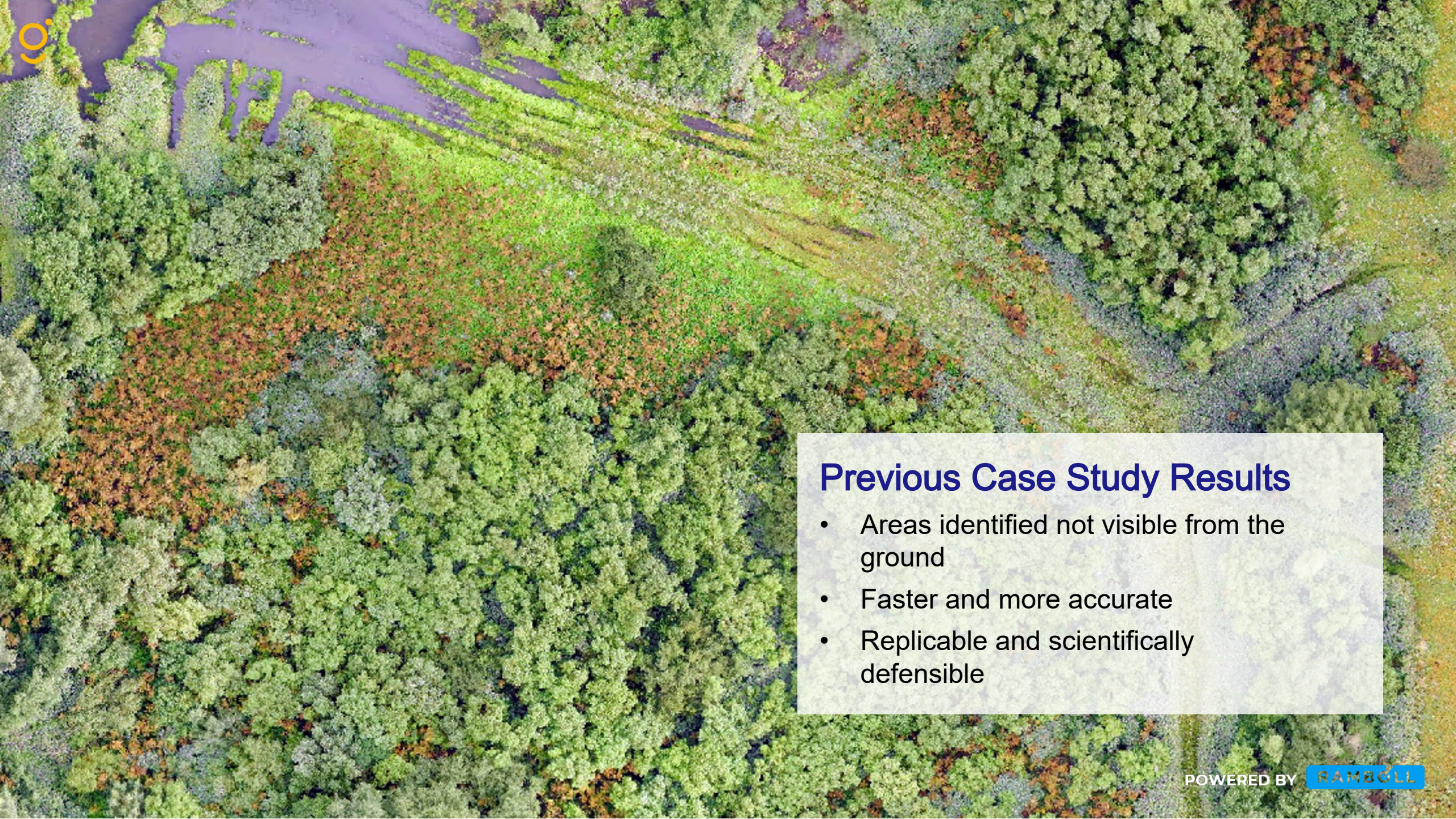
Time efficient and cost effective



02 Previous Work

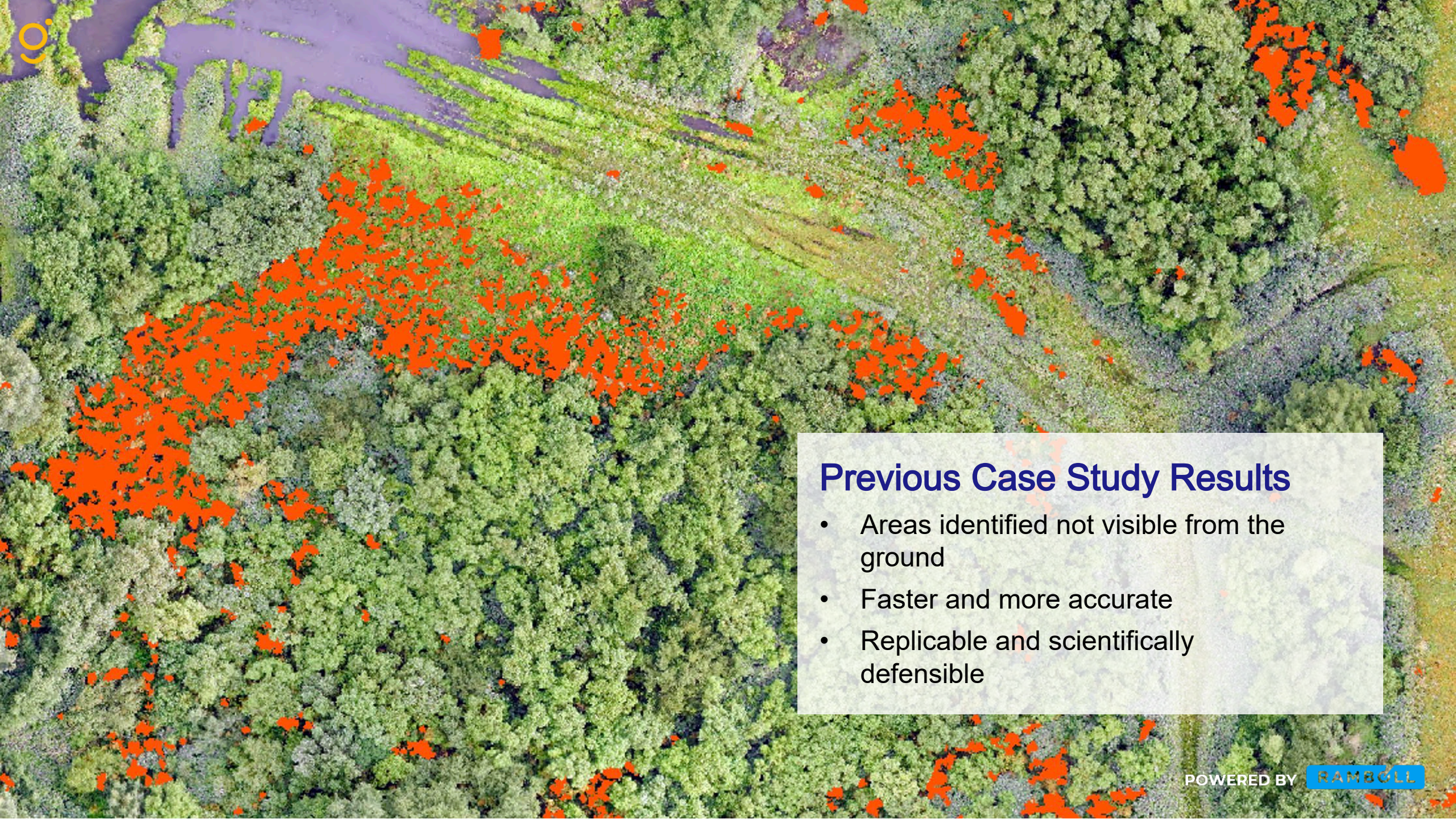
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Previous Case Study Results

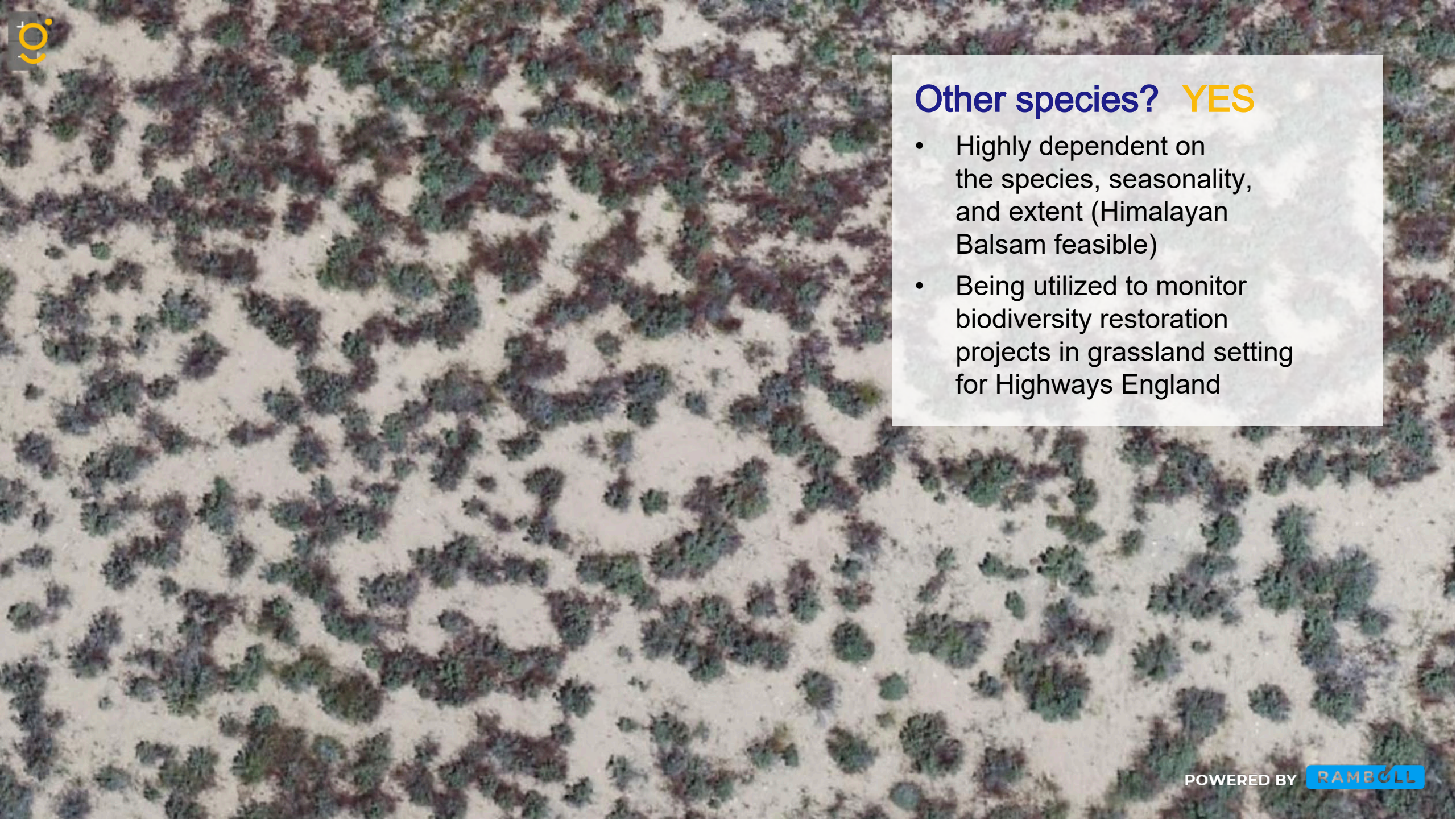
- Areas identified not visible from the ground
- Faster and more accurate
- Replicable and scientifically defensible



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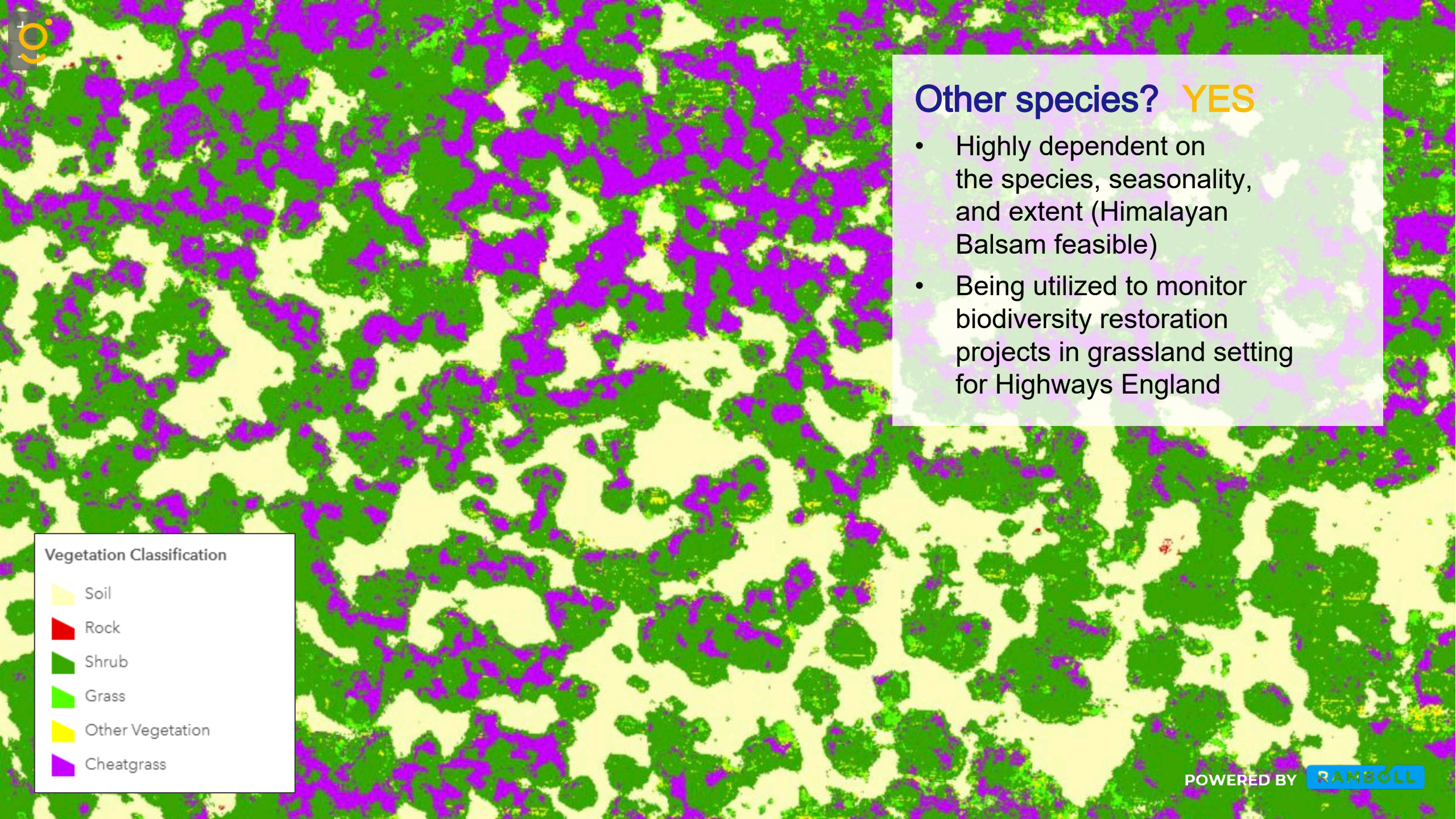
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Other species? YES

- Highly dependent on the species, seasonality, and extent (Himalayan Balsam feasible)
- Being utilized to monitor biodiversity restoration projects in grassland setting for Highways England



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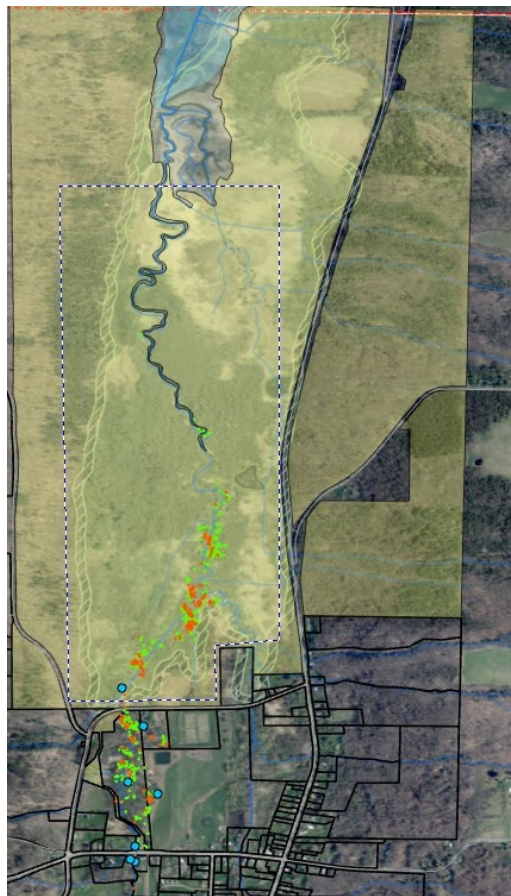
Vegetation Classification

- Soil
- Rock
- Shrub
- Grass
- Other Vegetation
- Cheatgrass



New York State

Ongoing Study





Problem

- Hemlock -Canadice State Forest
- Identify and manage Giant Hogweed as an invasive species
- Identify spread and aid in eradication field efforts





OPPORTUNITY

“...making maps
we’ve never been able
to make before...”

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