Lower Colorado River Multi-Species Conservation Program

Balancing Resource Use and Conservation

LCR MSCP
Adaptive Management Tools for Decision Support

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Overview

Goals for LCR MSCP AMP

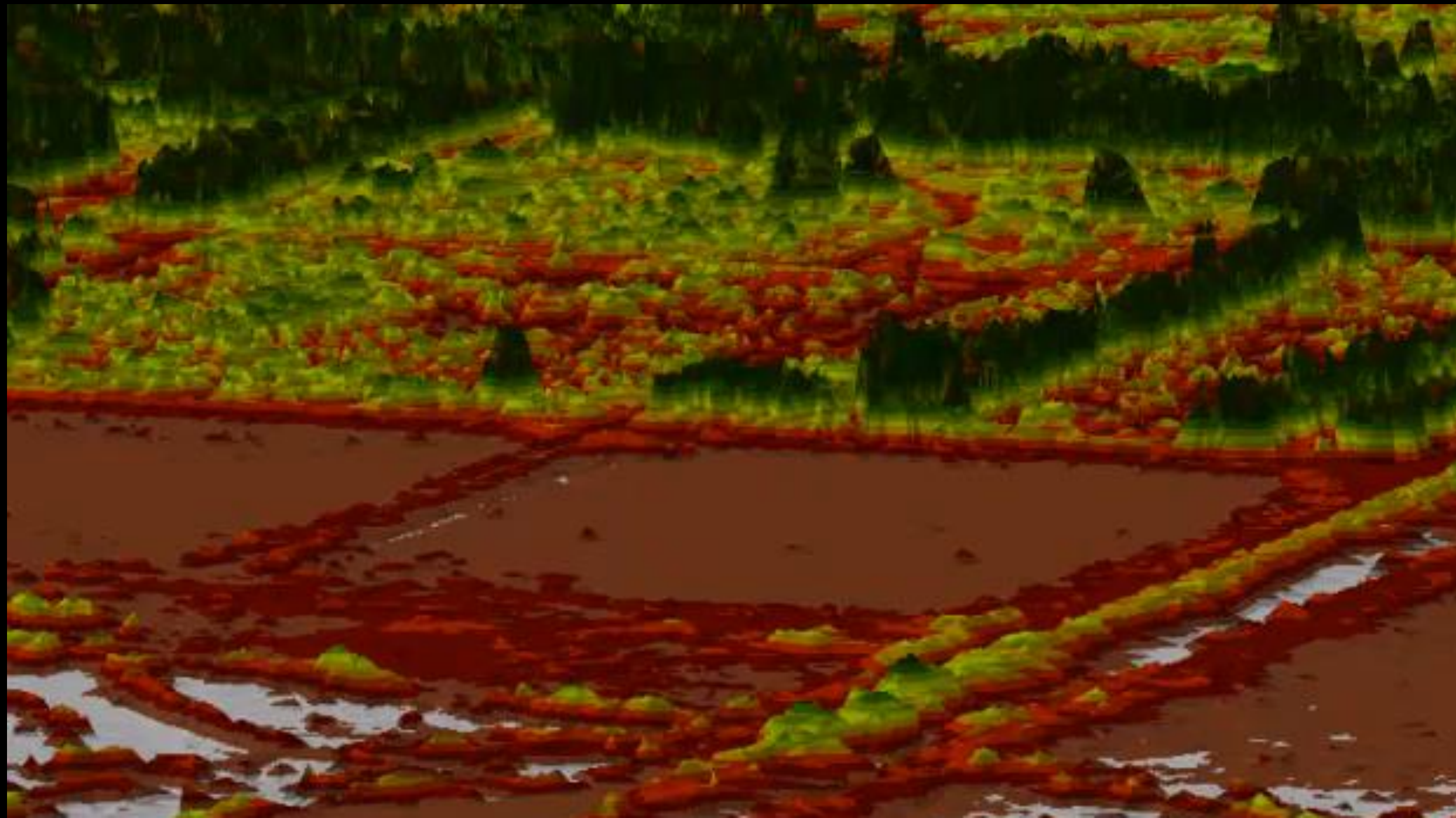
- Ensuring Conservation Measure Accomplishment
- Develop cost efficient tools to assess species habitat requirements
- Transparent decision making

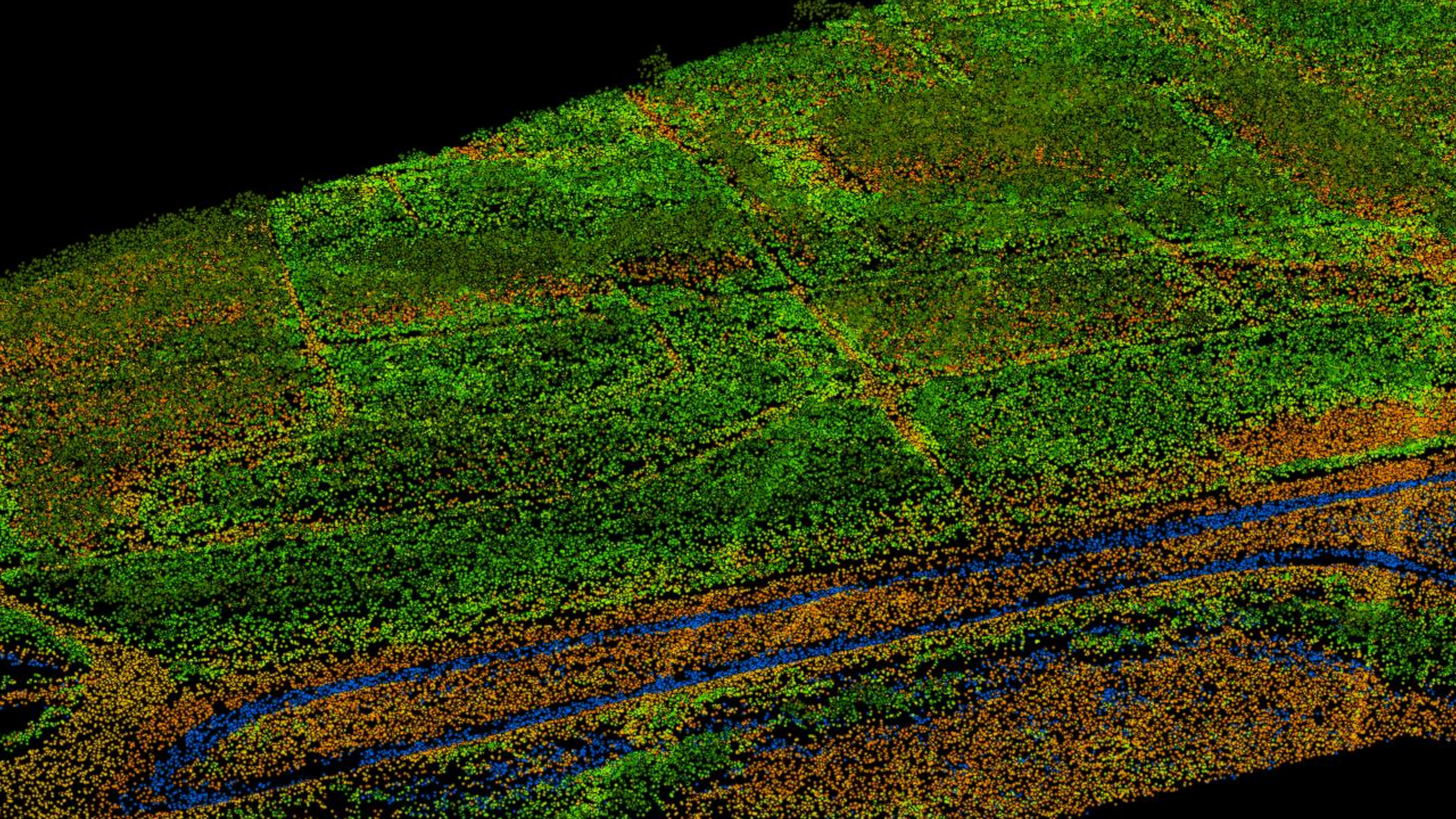
Conservation Area Management Guidelines

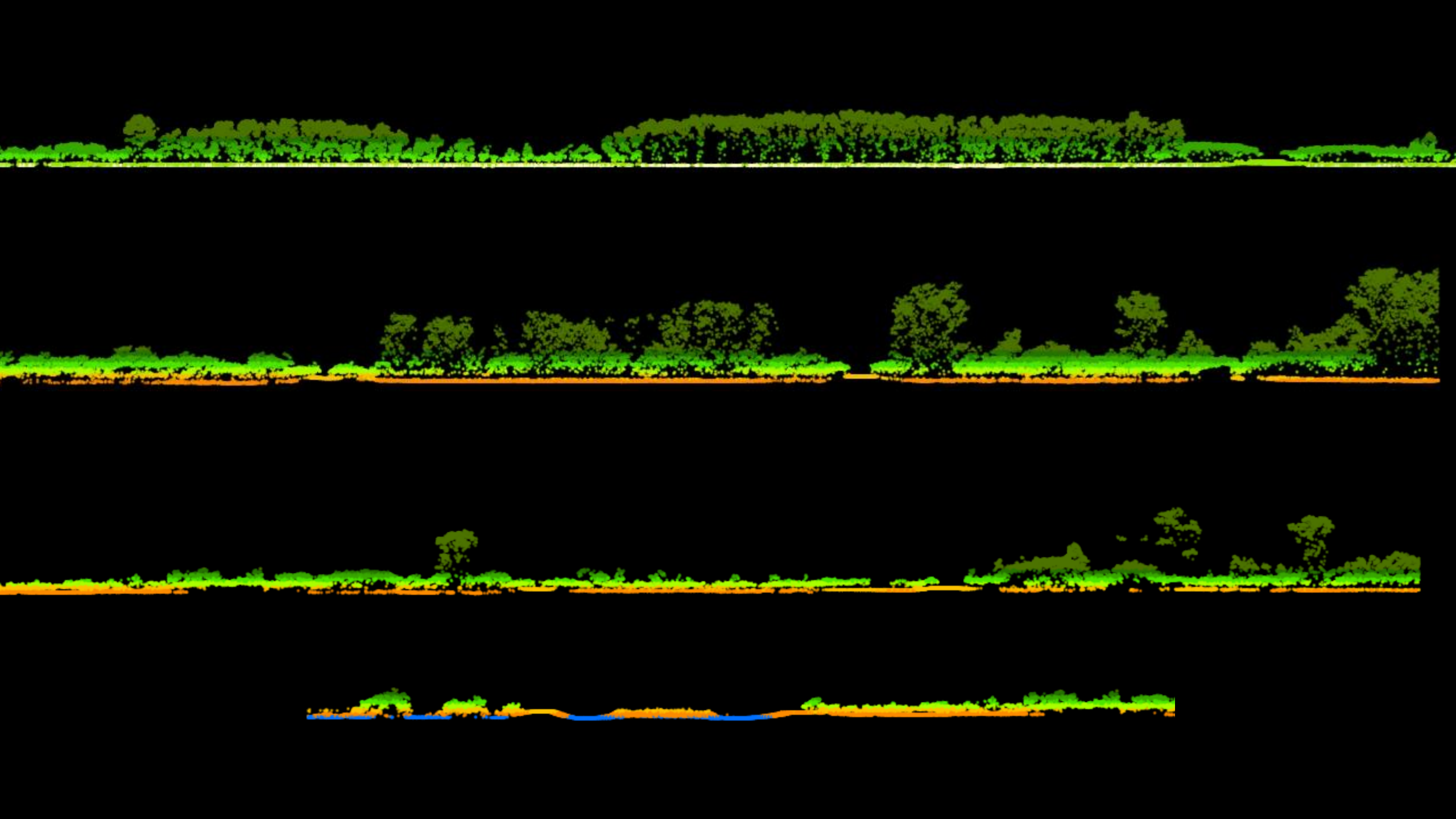
- Species Conceptual Ecological Models
- Defined repeatable habitat measures
- Development of long term tools for assessing habitat for multiple species at varying spatial scales within a Conservation Area

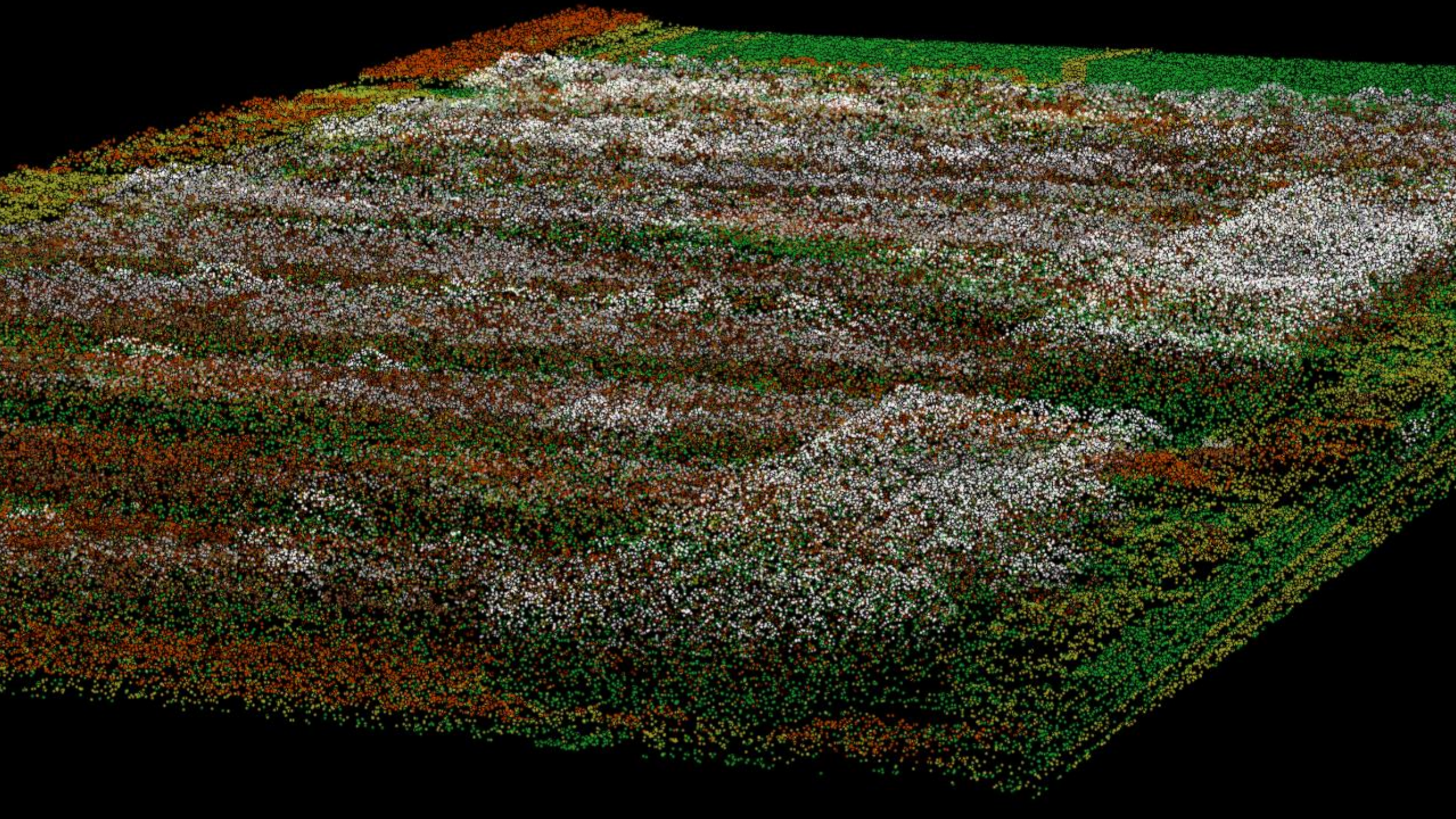
Modeling with LiDAR

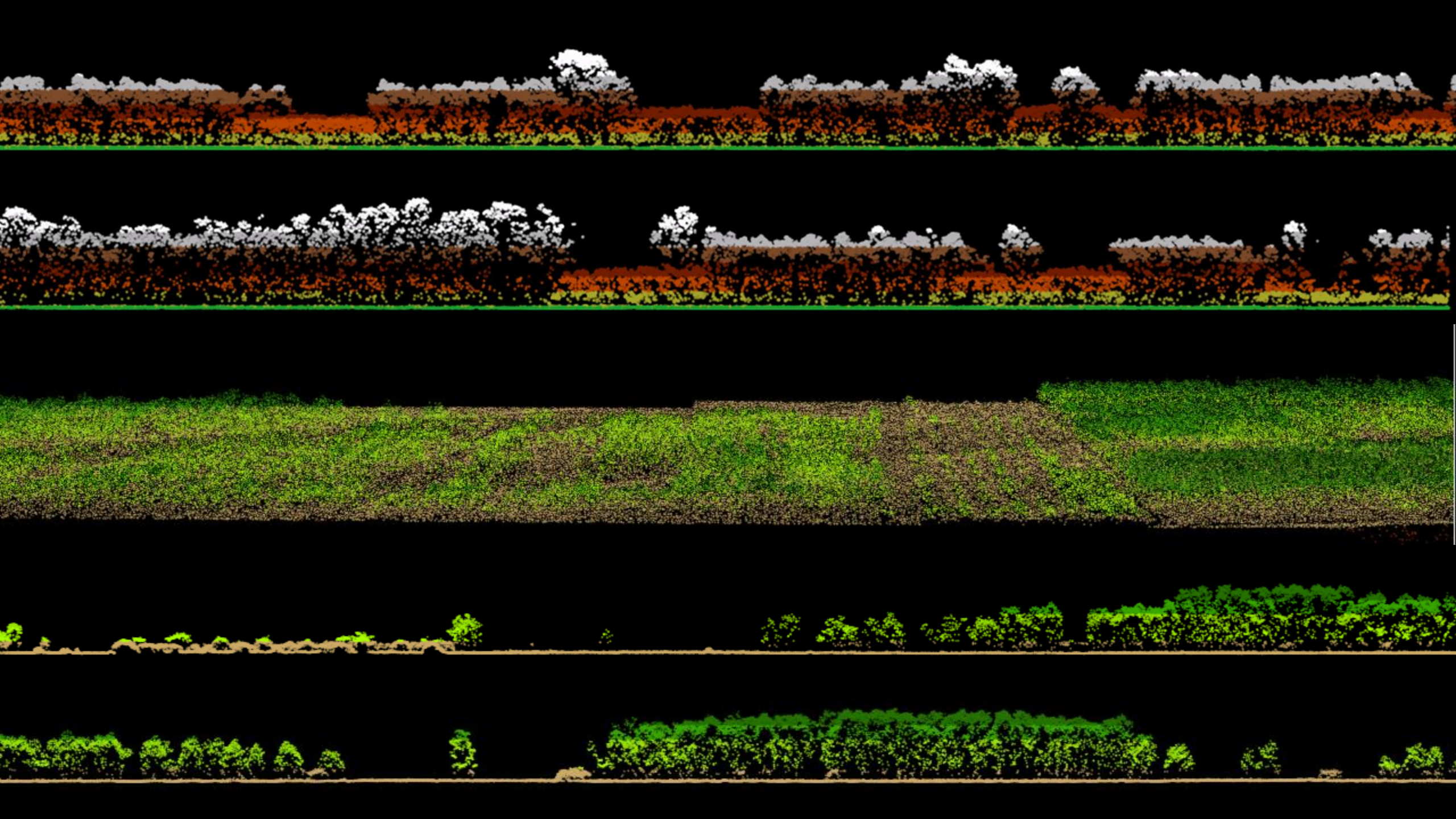
- Testing LiDAR as a tool for a landscape level habitat assessment
- Create specific algorithms for assessing multi-scale habitat characteristics using LiDAR point cloud data
- Pilot project

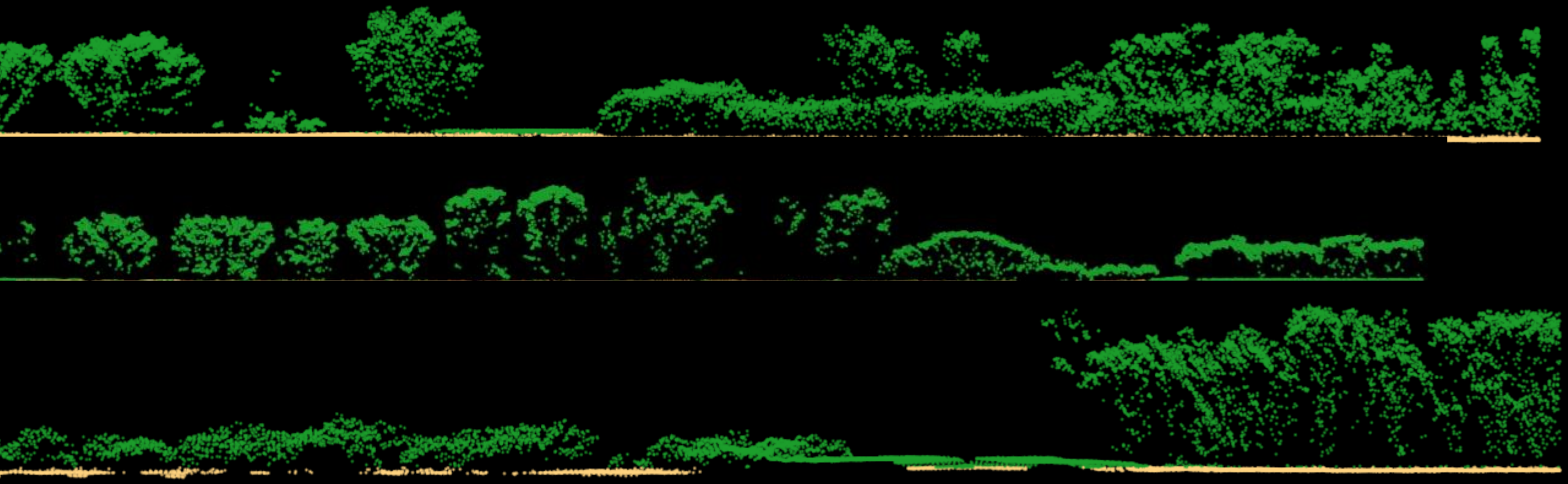


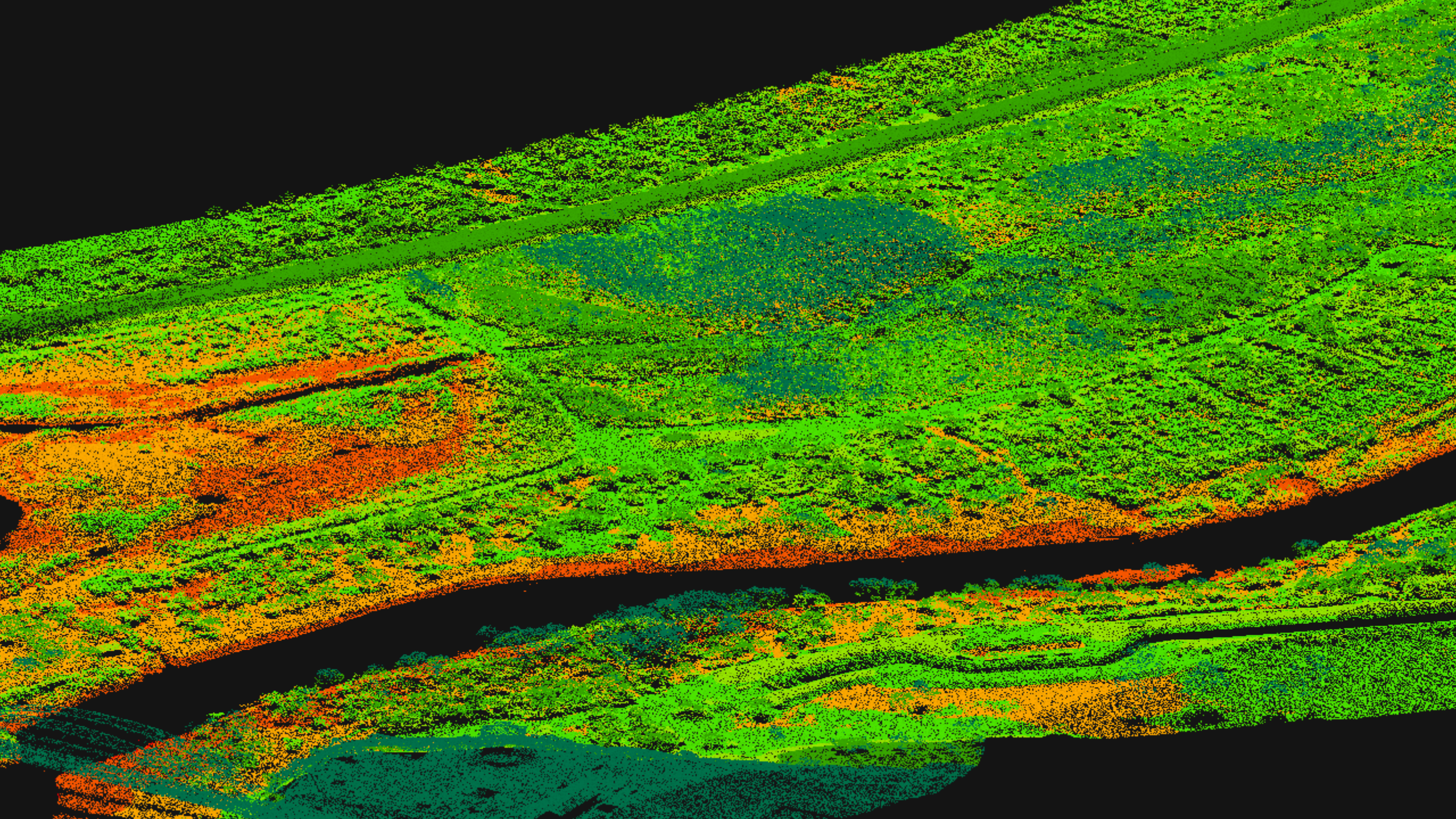


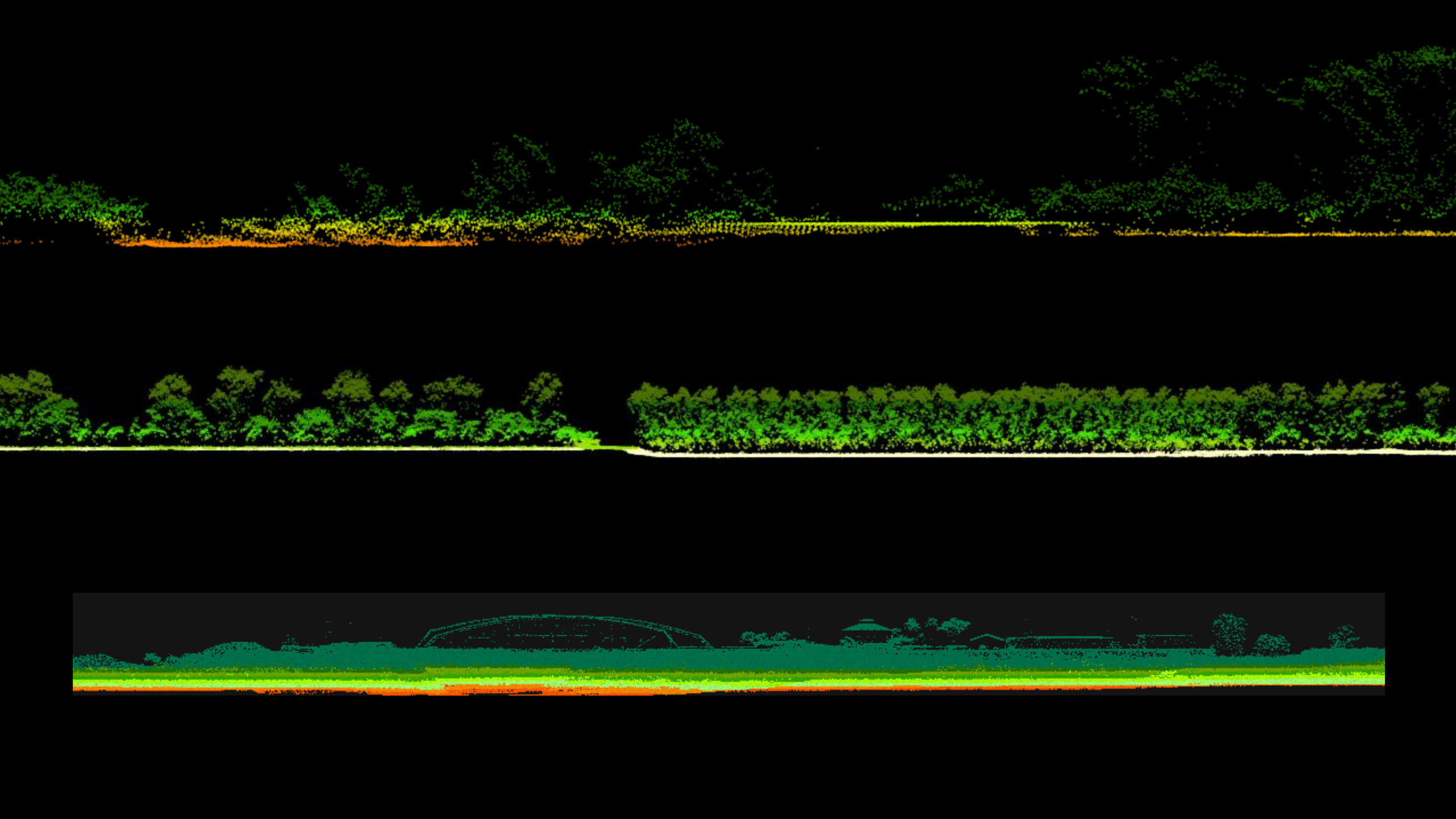








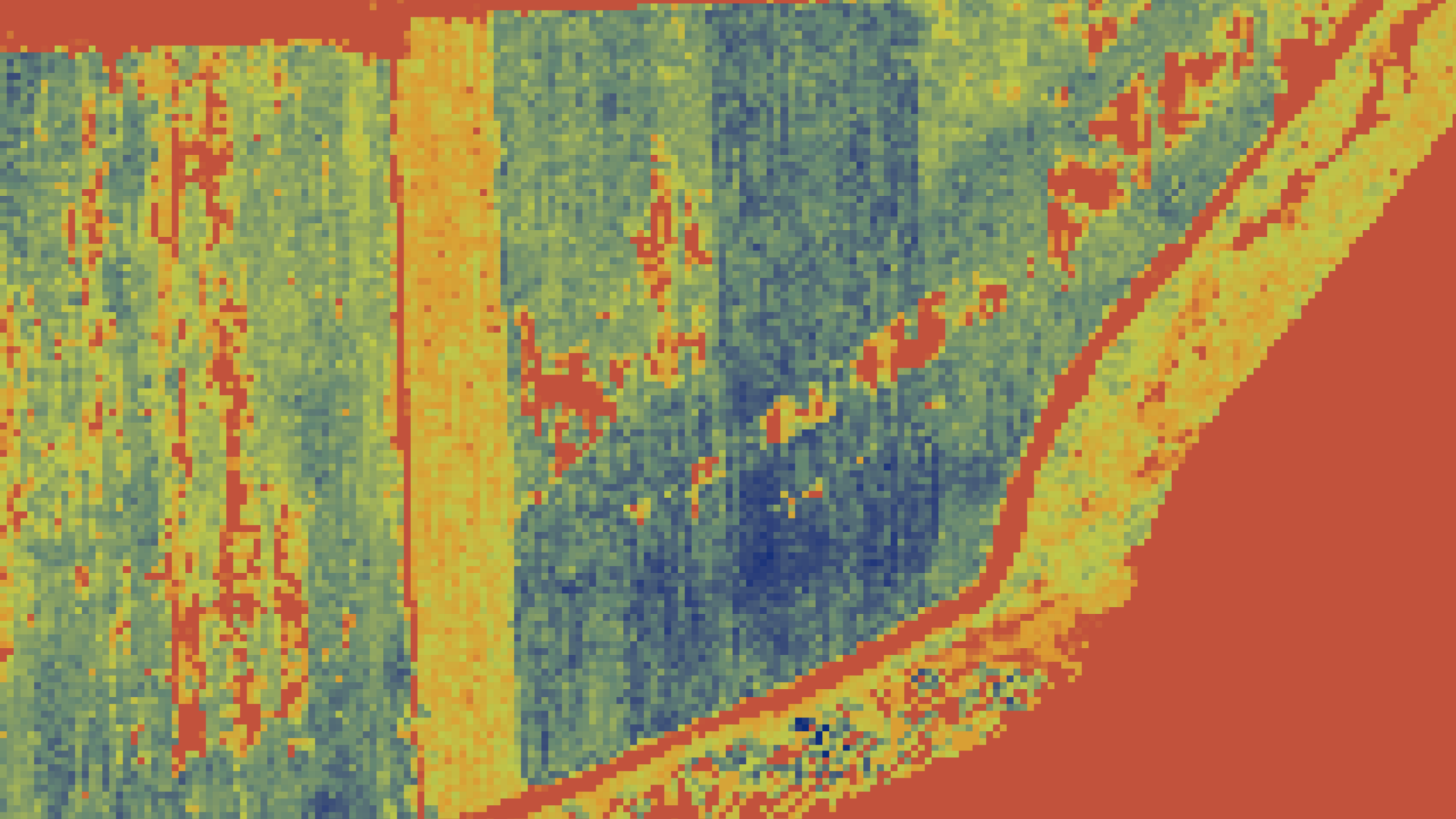


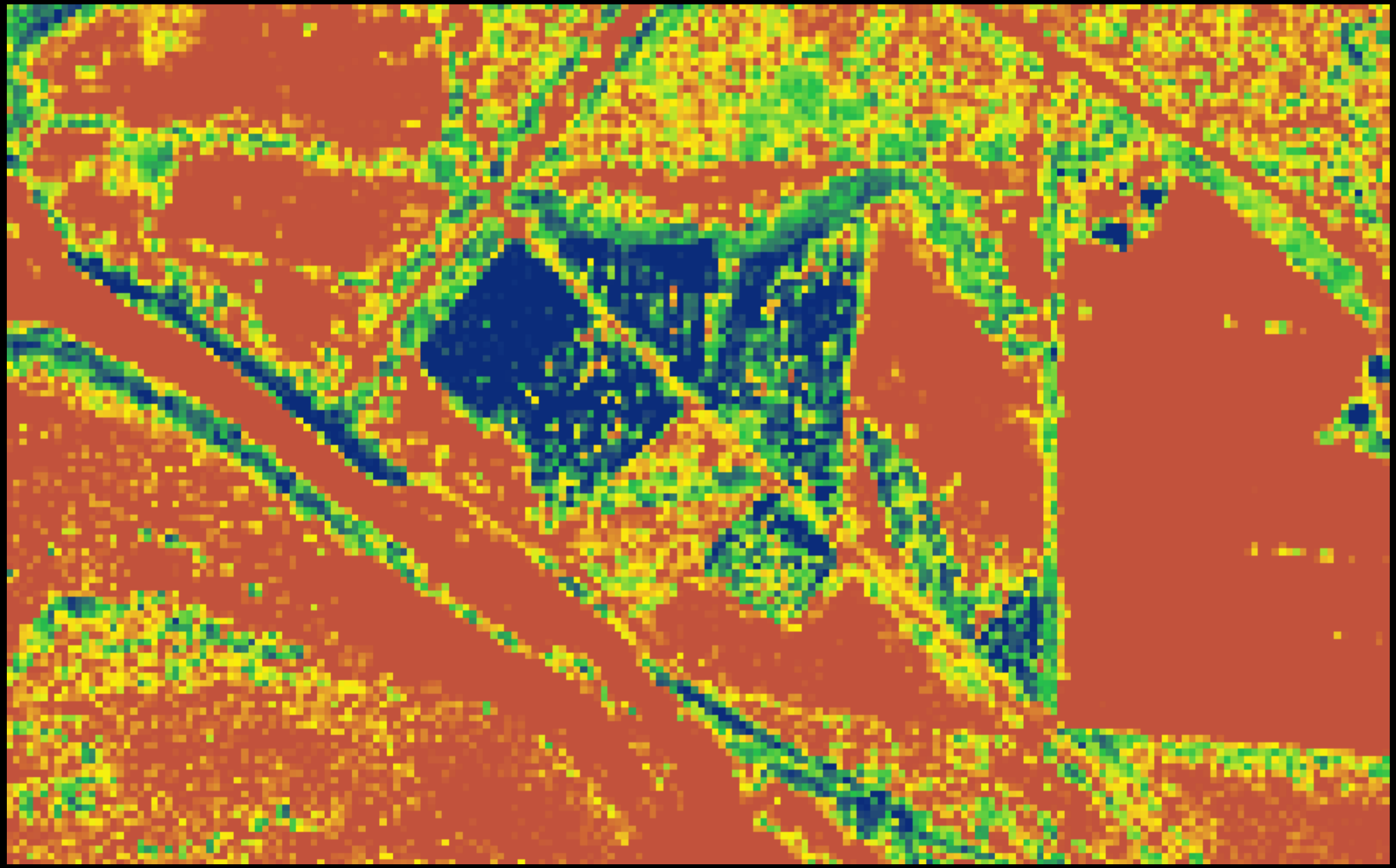


AMP Tool Development

Manageable/Measureable Habitat Characteristics Ranges

- Foliage Height Diversity
- Canopy Cover
- Canopy Height
- Canopy Gaps
- Density
- Others as appropriate





AMP Tool Development continued

- Need on the ground measurements to refine and ensure the elevation outputs are accurate
- Collect LiDAR data over multiple years to assess flight angles
- Evaluate specific habitat characteristic GIS algorithms
- Evaluate other LiDAR data for LCR MSCP management needs

QUESTIONS ?