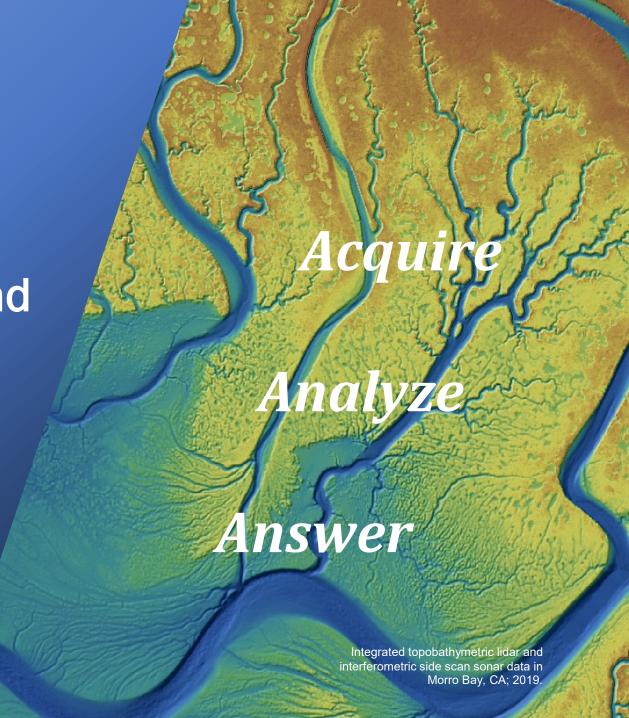
NV5 GEOSPATIAL

powered by **QUANTUM SPATIAL**

Remote sensing data fusion and analytics for natural resource applications:

Mischa Hey: Analytics Practice Lead





Agenda

Enhancing science and understanding to manage our world responsibly

Introduction

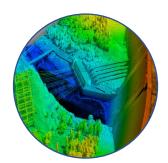
Remote Sensing Technologies

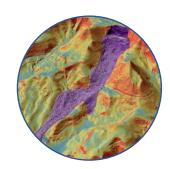
Data Integration

Vegetation and River Analytics

Questions?









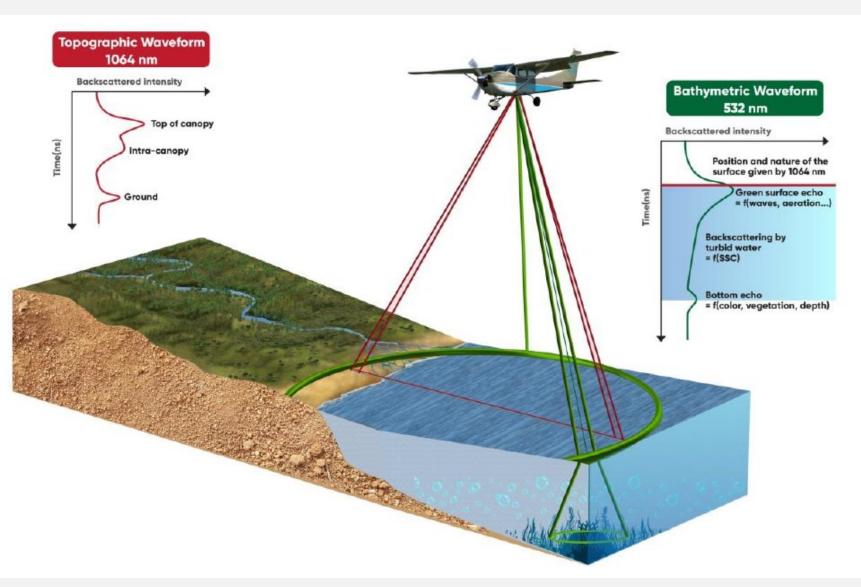
What We Do

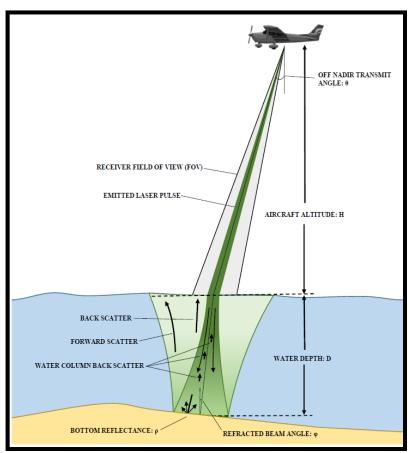
Full spectrum of geospatial support services on land and in the marine/coastal environment



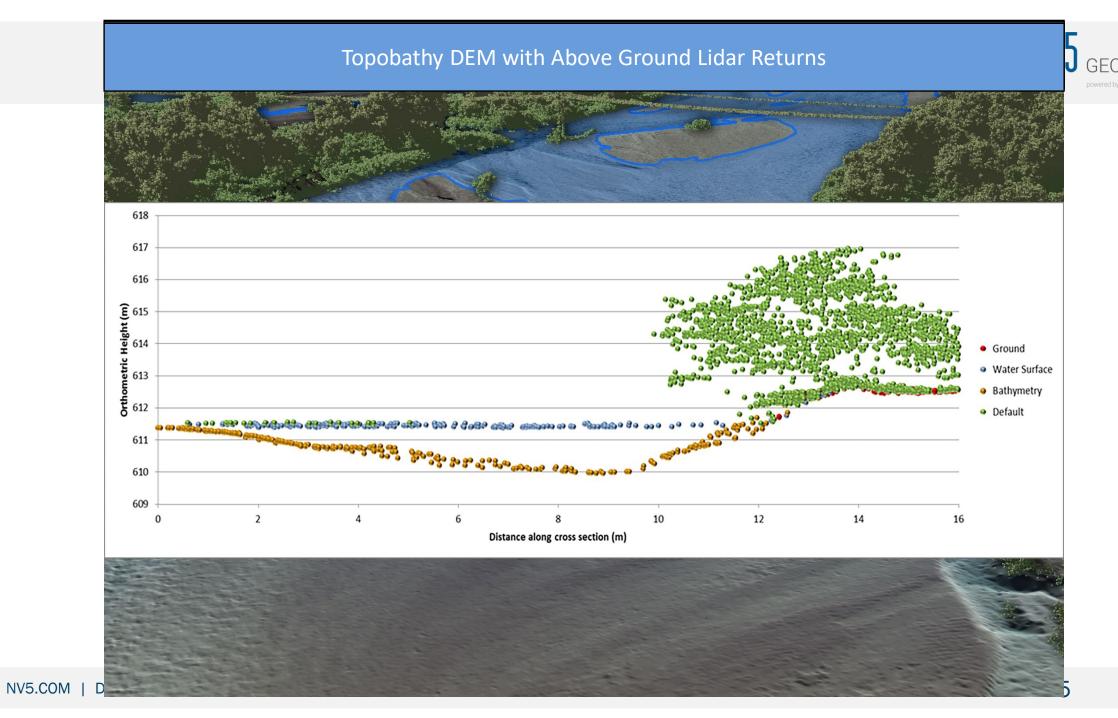
Green & NIR Lidar





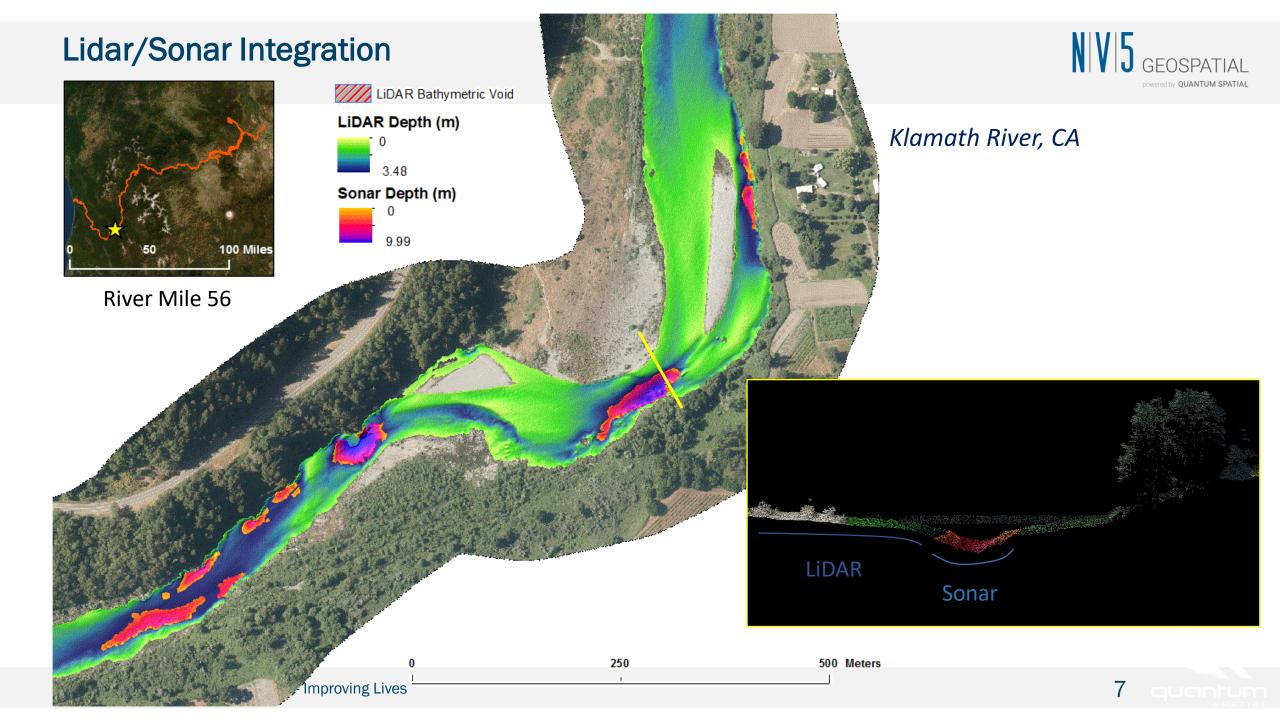


Graphic courtesy of Chris Parrish





Data fusion with other tech



Digital Imagery Integration





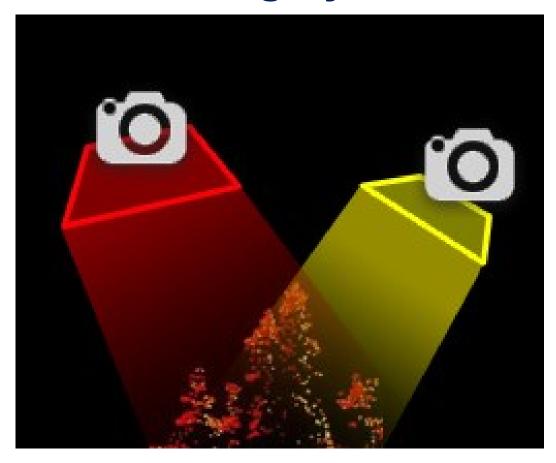
Colorization Approach



Lidar



Imagery



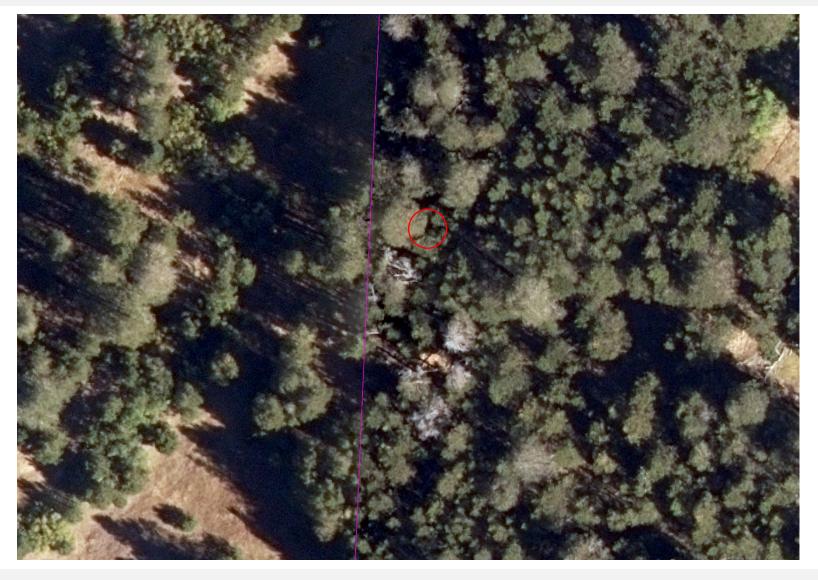
Ray Tracing Product





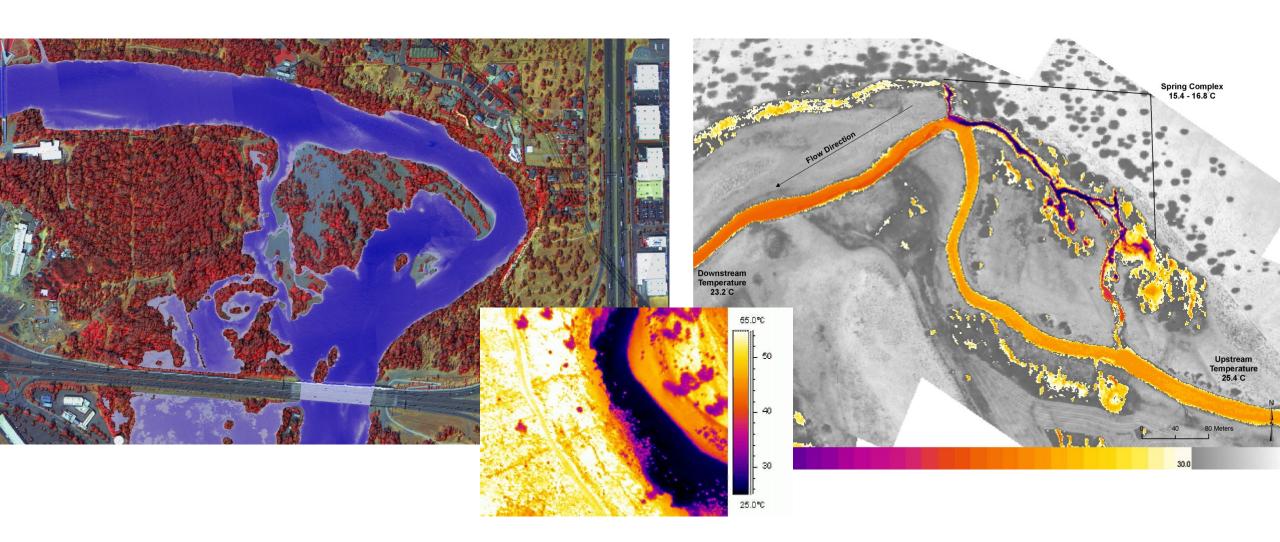
Standard Ortho Product

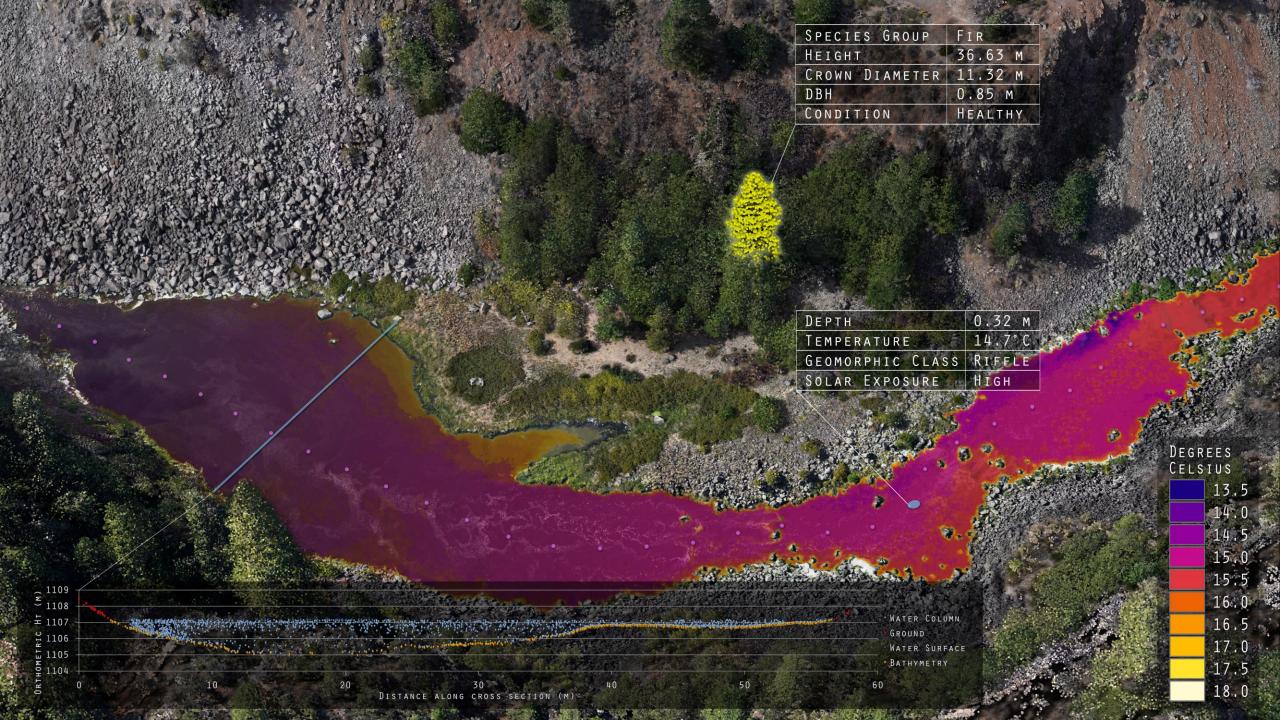




Fancy Imagery: Hyperspectral, Thermal





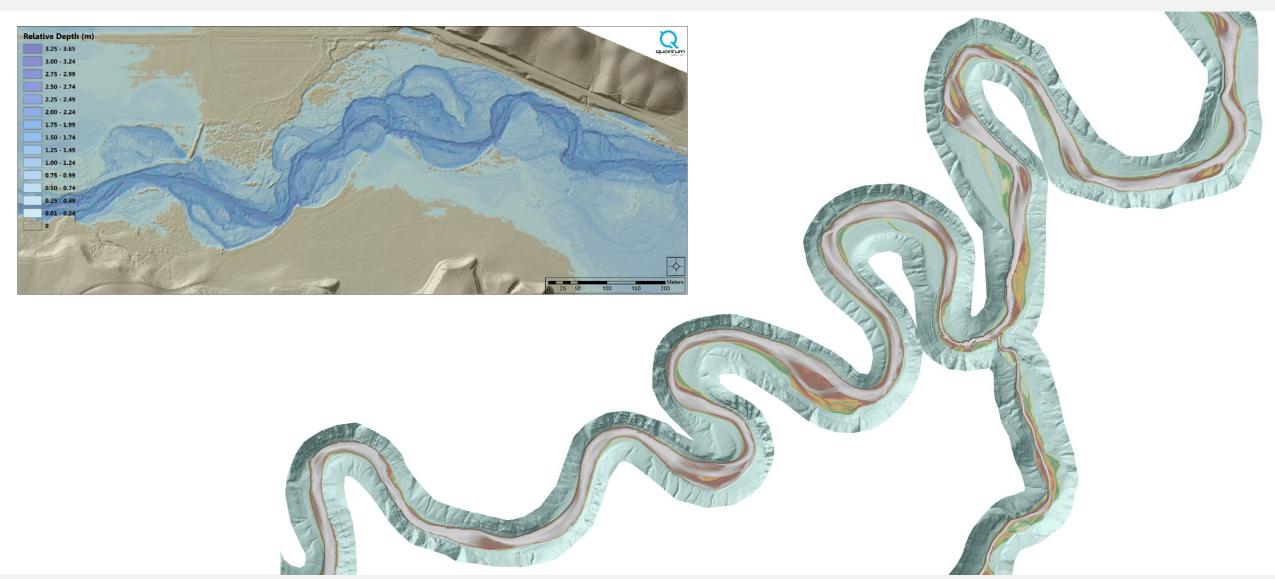




Analysis and applications

Floodplain Connectivity (REMs)

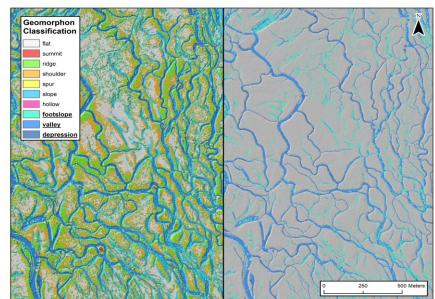


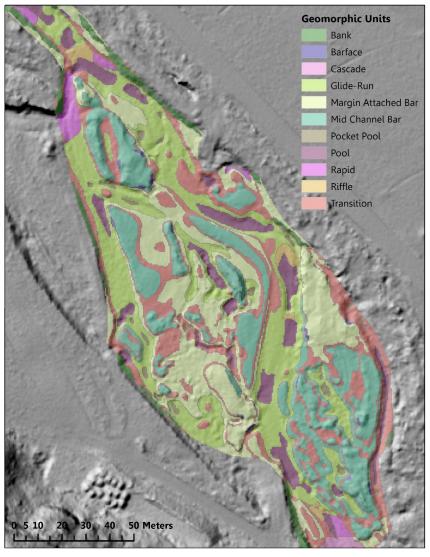


Geomorphic Unit Classification



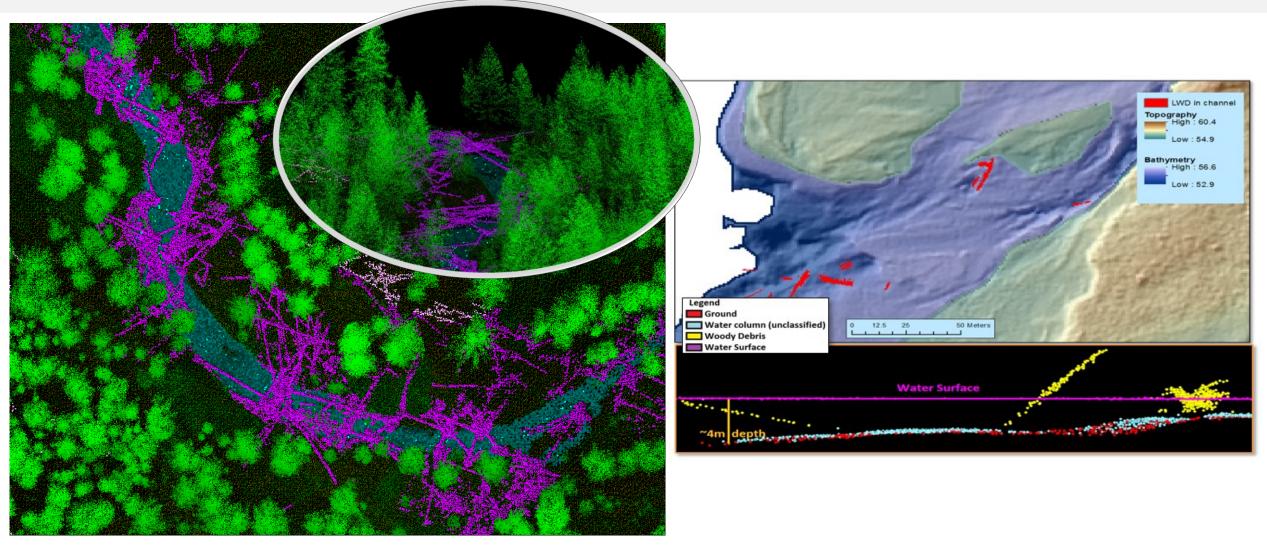
- Micro terrain characteristics
- Geomorphic Units
 - pools, riffles, runs, transition, etc.
- Wetlands, groundwater infiltration
- Suitability and productivity





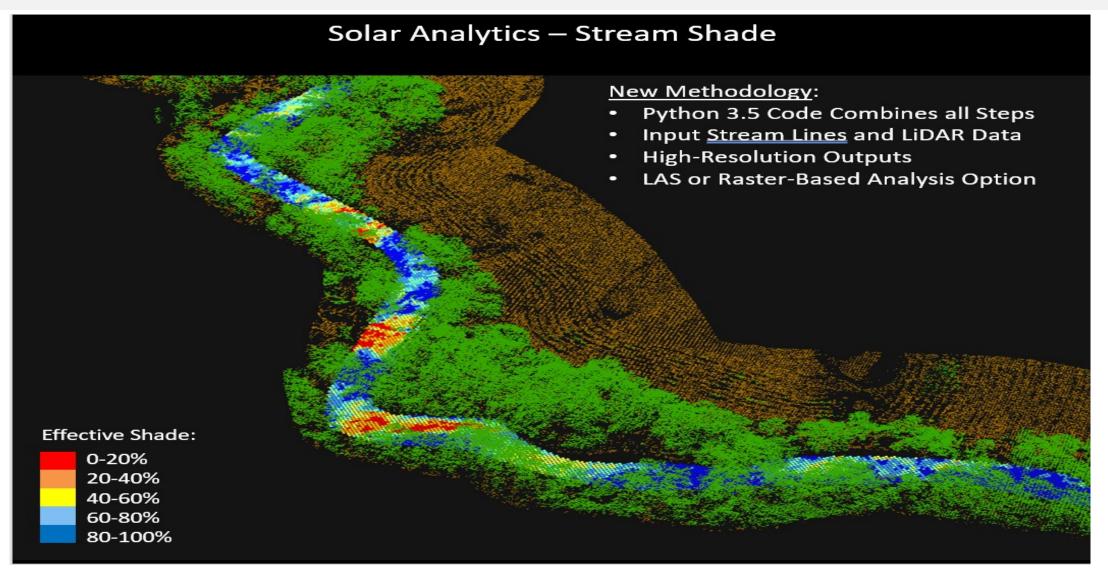
Large Woody Debris (LWD)





Solar Exposure





Hemispherical Photo Simulation

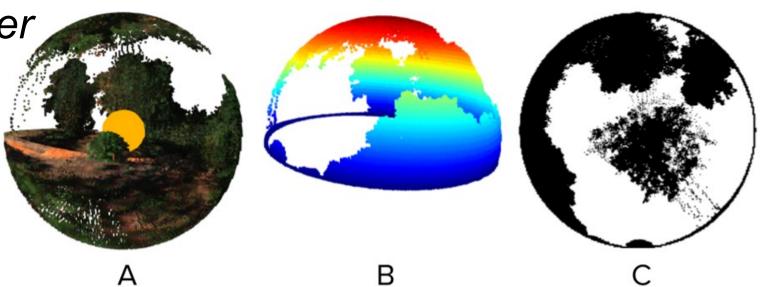


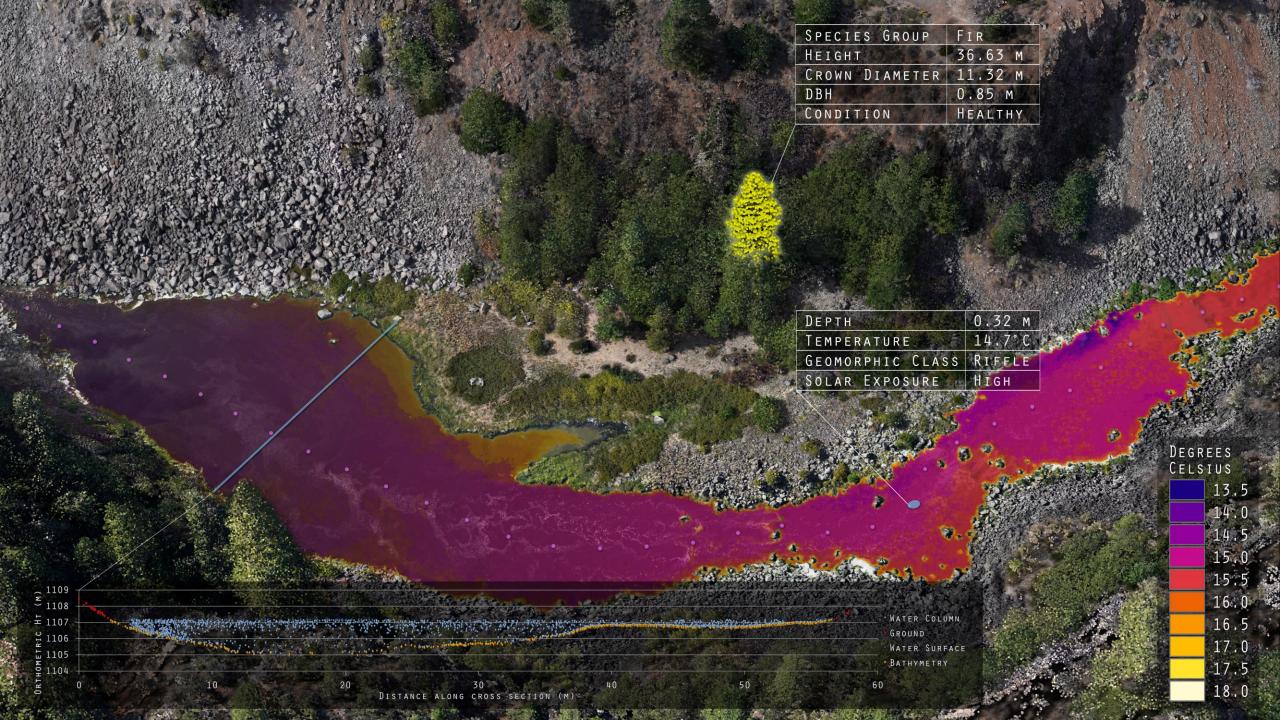


1) Sufficient solar exposure

2) Sufficient wind shelter









THANK YOU

Questions, Suggestions, Comments, Ideas?

Mischa Hey (mischa.hey@nv5.com)