





Associate of Science

- Forest Operations and Technology
- Forest Nursery Management and Technology
- Wildland Fuel and Fire Technology

Bachelor of Science

- Forestry Silviculture, Operations, Nursery Emphases
- Forests and Sustainable Products
- Ecology and Ecosystem Science
- Fire Ecology and Management

Graduate Degrees

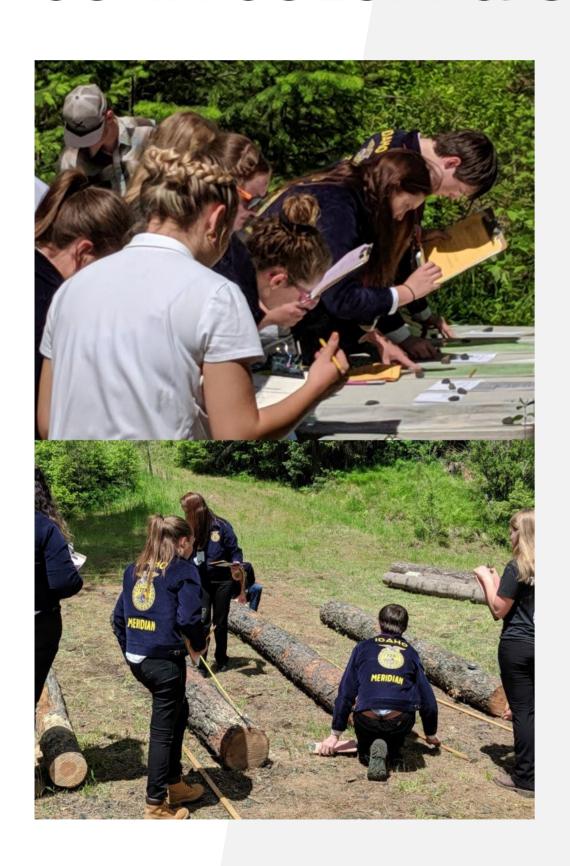
- In-person Doctoral, Masters
- On-line MNR, ENVS





PREPARING THE NEXT GENERATION

CURRICULUM & SKILLS DEVELOPMENT





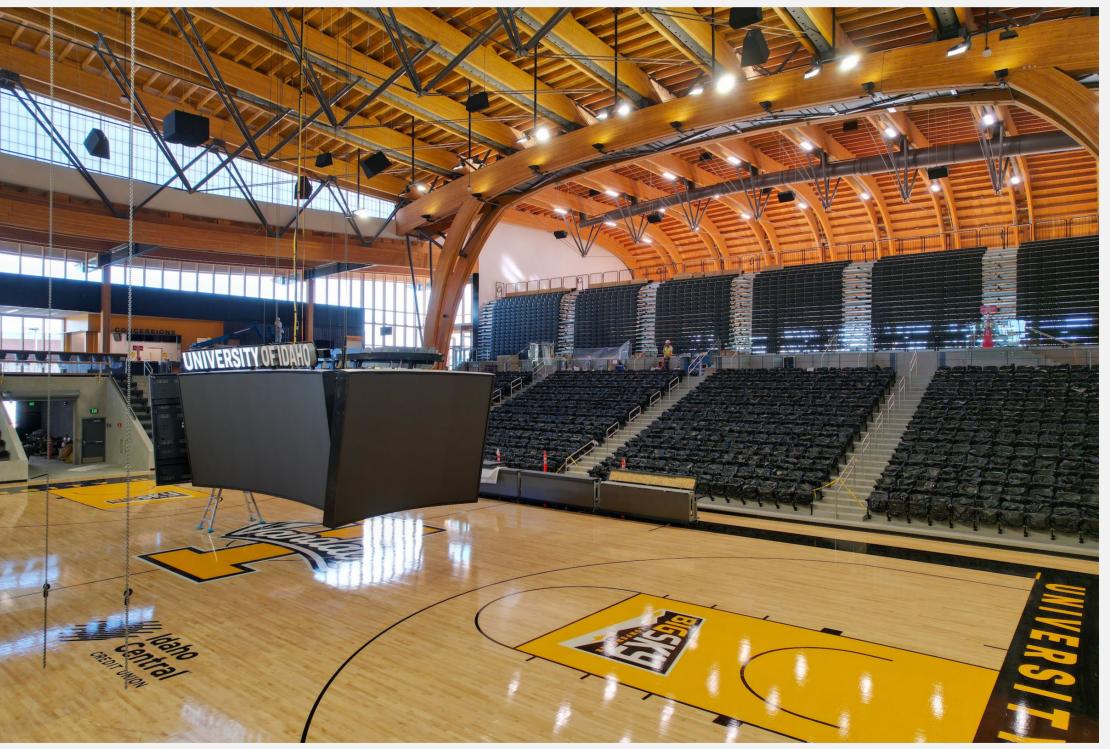




PREPARING THE NEXT GENERATION

DEMONSTRATION & APPLICATION





Forest Innovations Institute



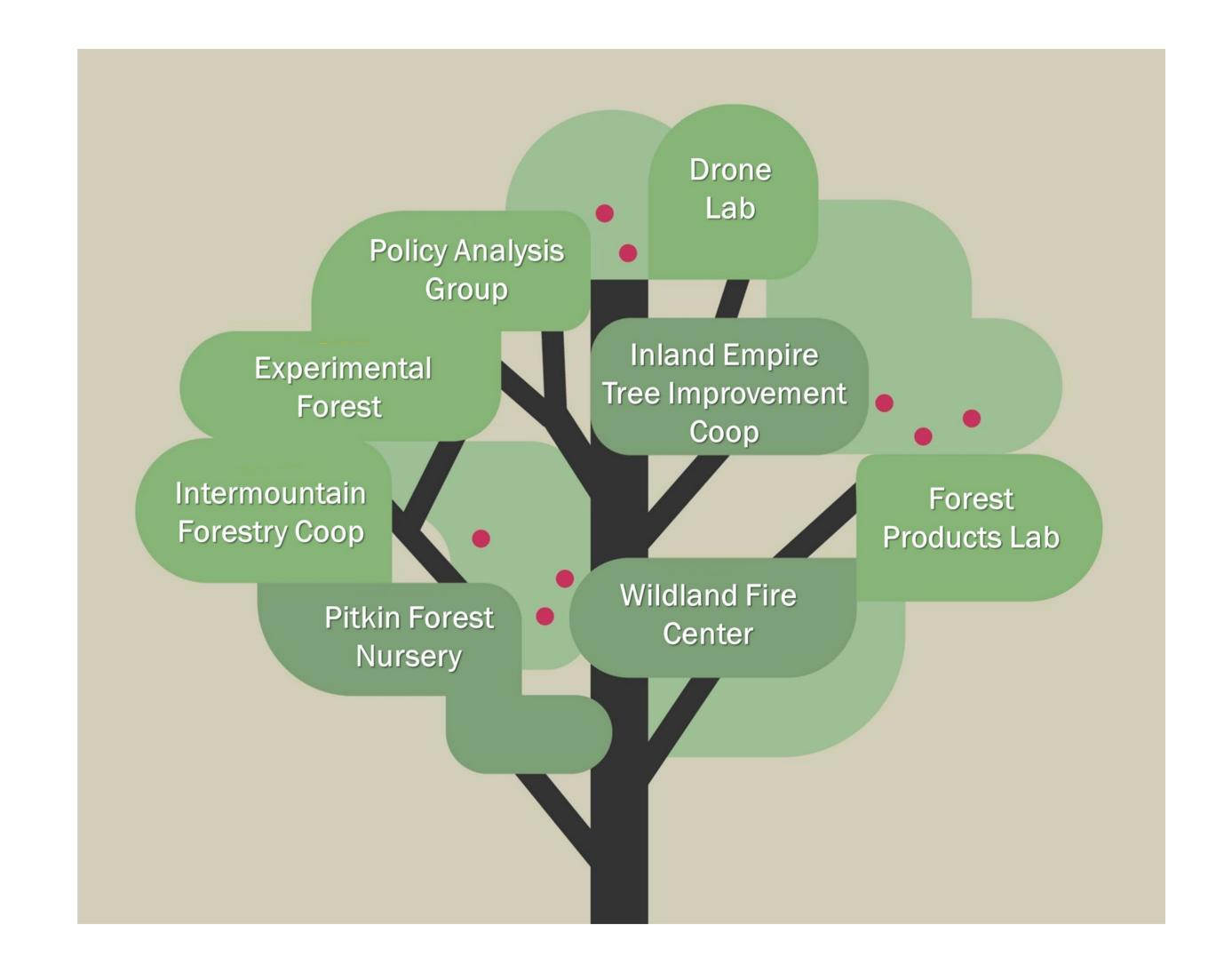
Fixed-rate contracting

Coordinated and individual projects

Shared and proprietary R&D

Discounted membership for existing coops

Not intended for commercial services





FOREST INNOVATIONS INSTITUTE

CORE MISSION

- Advance contemporary and emerging technologies and information systems
- I Crosscutting research: digital transformation, networking, robotics, automation, remote sensing, Al
- Partner with University faculty and students for interdisciplinary training and research workforce development
- Engage industry specialists, businesses, Native American Tribes, nonprofits, universities, and public land management agencies



FOREST INNOVATIONS INSTITUTE AFFILIATES

AFFILIATES PROGRAM – OPEN TO ANYONE

Applied Research: Share practical, applied research & education

Membership: No membership requirements (Agency, Industry, Consultant)

Low cost of membership, from single users to large agencies

Education: Equal access to training modules & workshops

Lesign: Equal access to data design, best practices, and applied analytics

Demonstration: Access to applied demonstrations

Content Experts: One day of staff time per year for memberships \$3,000/yr +



FOREST INNOVATIONS INSTITUTE AFFILIATES

PARTICIPATION ASSESSMENTS (DRAFT)

I Simple Assessment Structure Based on Business Segment Size

1

\$1,000 / 2 Yrs

2 - 4

\$1,000 / Yr

5 - **10**

\$3,000 / Yr

11 - 20

\$5,000 / Yr

21 – 50

\$7,000 / Yr

50 +

\$9,000 / Yr

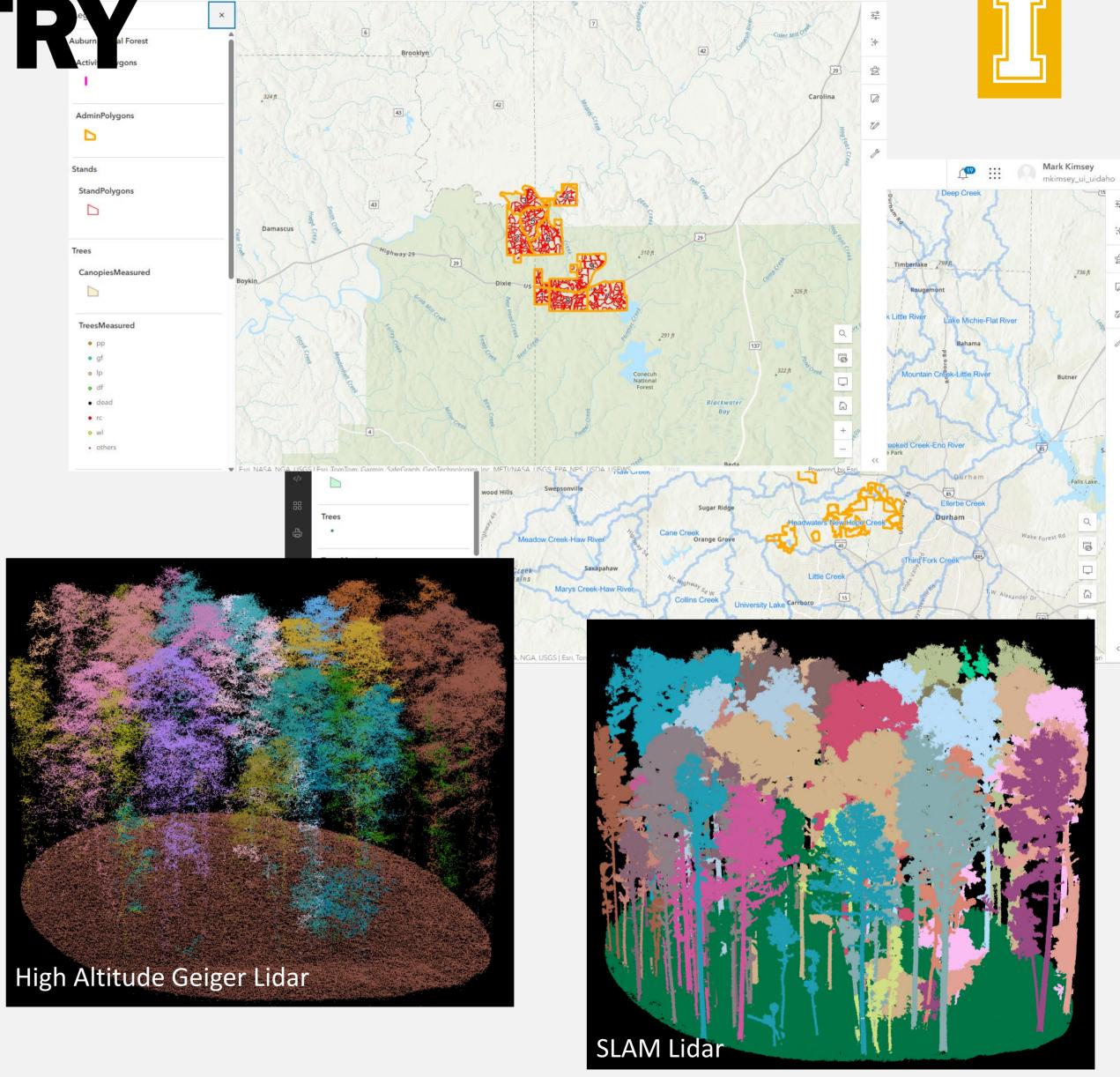
* Large Agency > 1,000 TBD

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DEVELOP A COORDINATED INNOVATION NETWORK TO LINK RESEARCH FORESTS NATIONWIDE

PAUL SMITHS COLLEGE, AUBURN, DUKE, UC BERKELEY, OREGON STATE ...OTHERS

- Drive digital forest innovation
- Broad geographic networking
- Diverse forested communities for testing
- Deploy a common data model to all partners and develop common analytics
- Develop Next Generation Research and Management Personnel
- Leverage Research and Resources for Competitive Grant Funding
- Build International Relationships







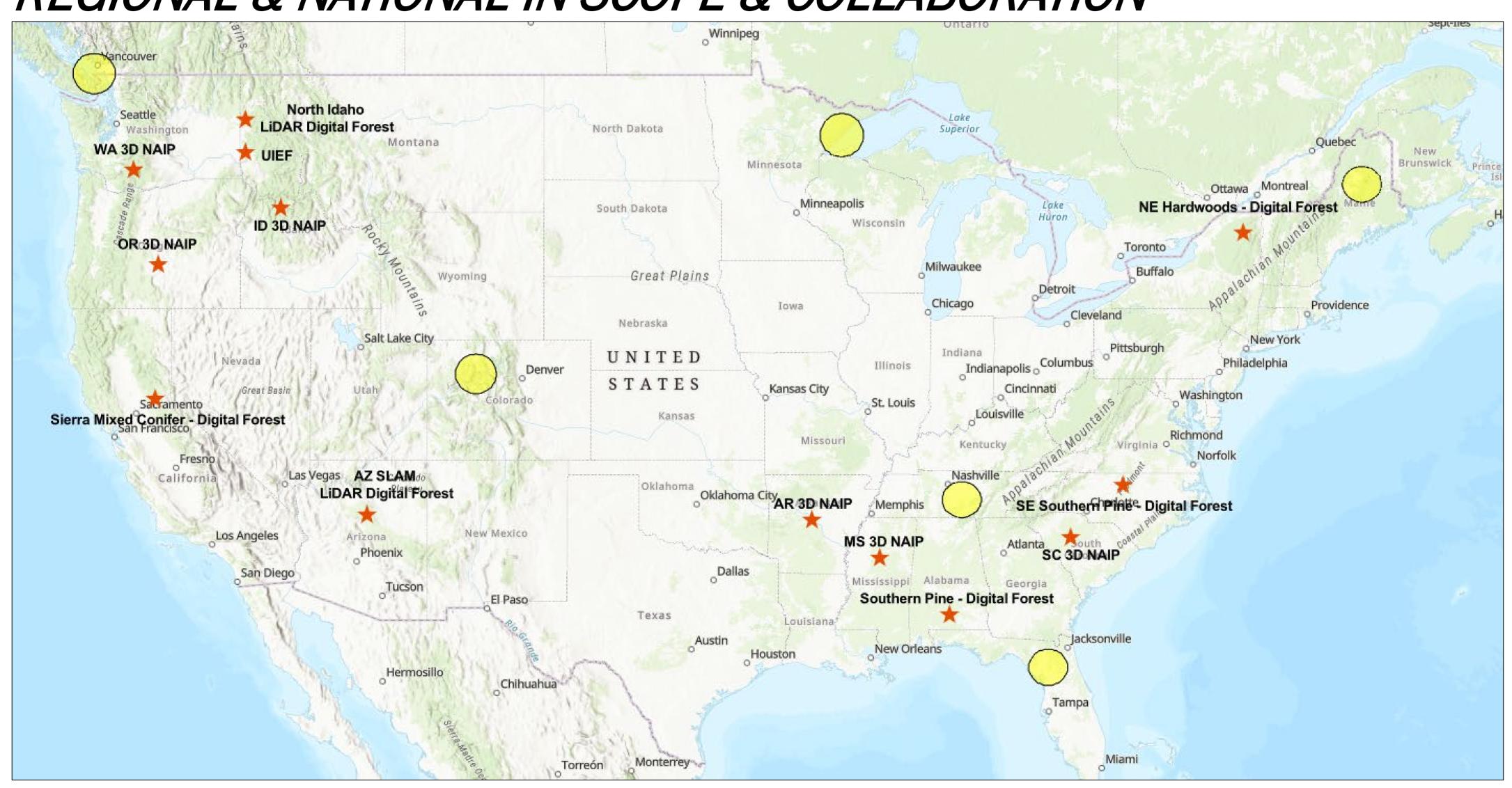




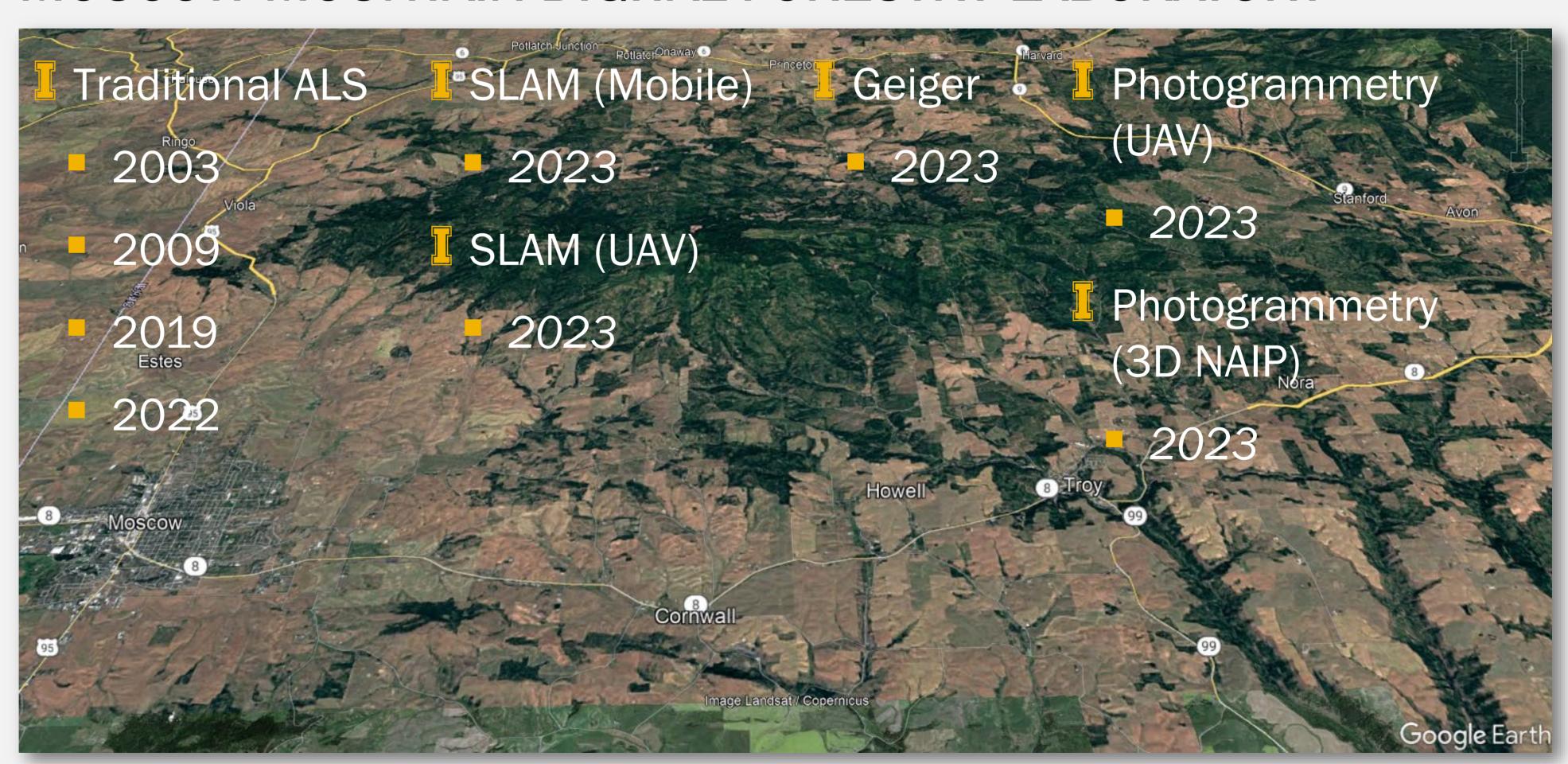




REGIONAL & NATIONAL IN SCOPE & COLLABORATION



MOSCOW MOUNTAIN DIGITAL FORESTRY LABORATORY







CURRENT STAFFING & WORKFORCE DEVELOPMENT

Research Scientists

- Dr. Edward Flathers
 - Remote sensing, data org, process automation
- Dr. Heather Greaves
 - Remote sensing, veg and surface mapping
- Dr. Jaslam Poolakkal
 - Advanced statistics modeling, scalable and interactive applications
- Dr. Aaron Sparks
 - Remote sensing, inventory & disturbance characterization

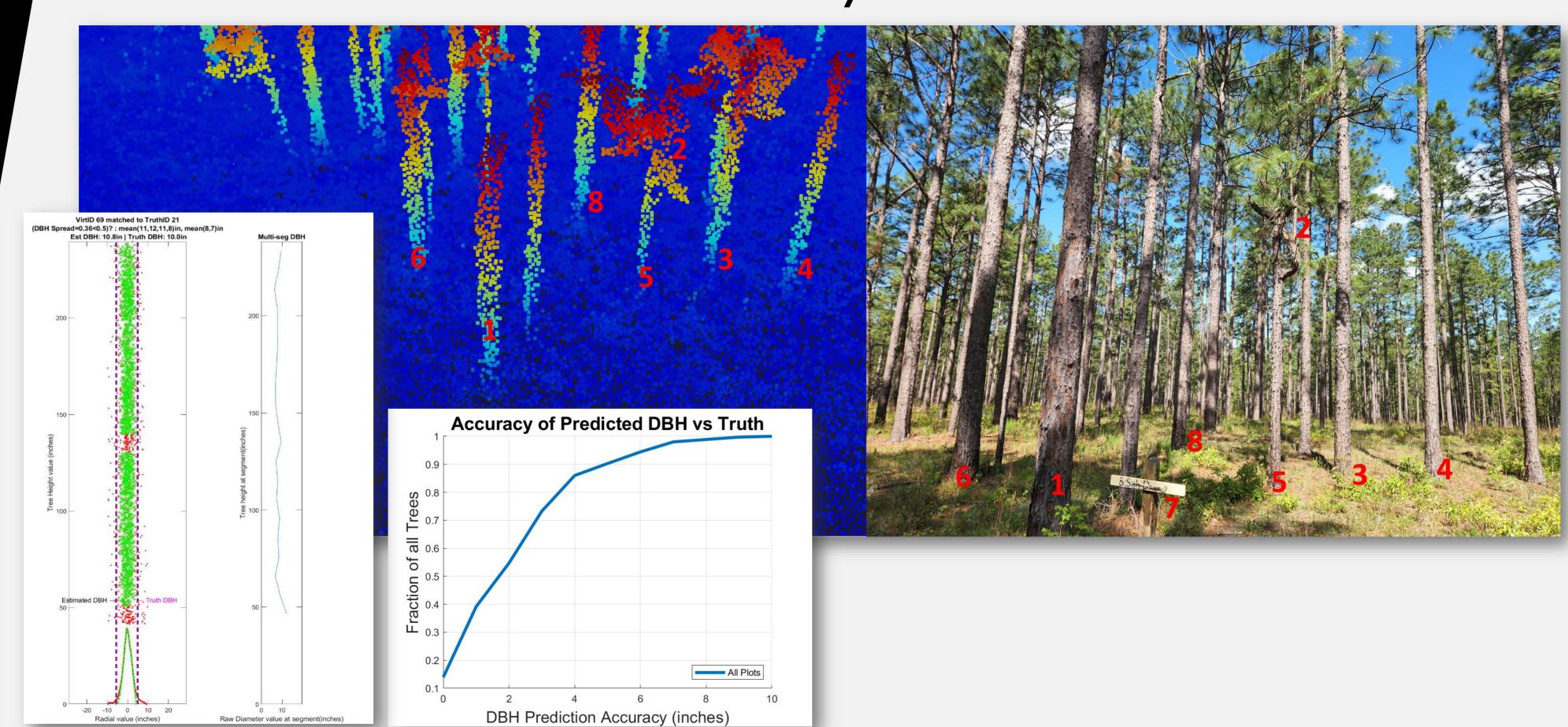
Graduate Students

- Noel Daugherty (MS)
 - Remote sensing & biometrics
- Steevensen Alcius (Fulbright PhD)
 - Remote sensing & biometrics
- Haley Anderson (PhD)
 - Forest health modeling

Undergraduate Students

- Christian Marzan (BS Forestry)
- James Shook (BS Forestry)
- Spencer Lake (BS Forestry)
- Miah Dannahower (BS Forestry)
- Riley Robenstein (BS Wildlife)
- Mia Wanstrom (BS Wildlife)
- Bidhi Paudel (BS Comp. Sci.)
- Robbie Reinhardt (BS Comp. Sci.)

MEASURING STEM DIAMETER W/GEIGER LIDAR - MS

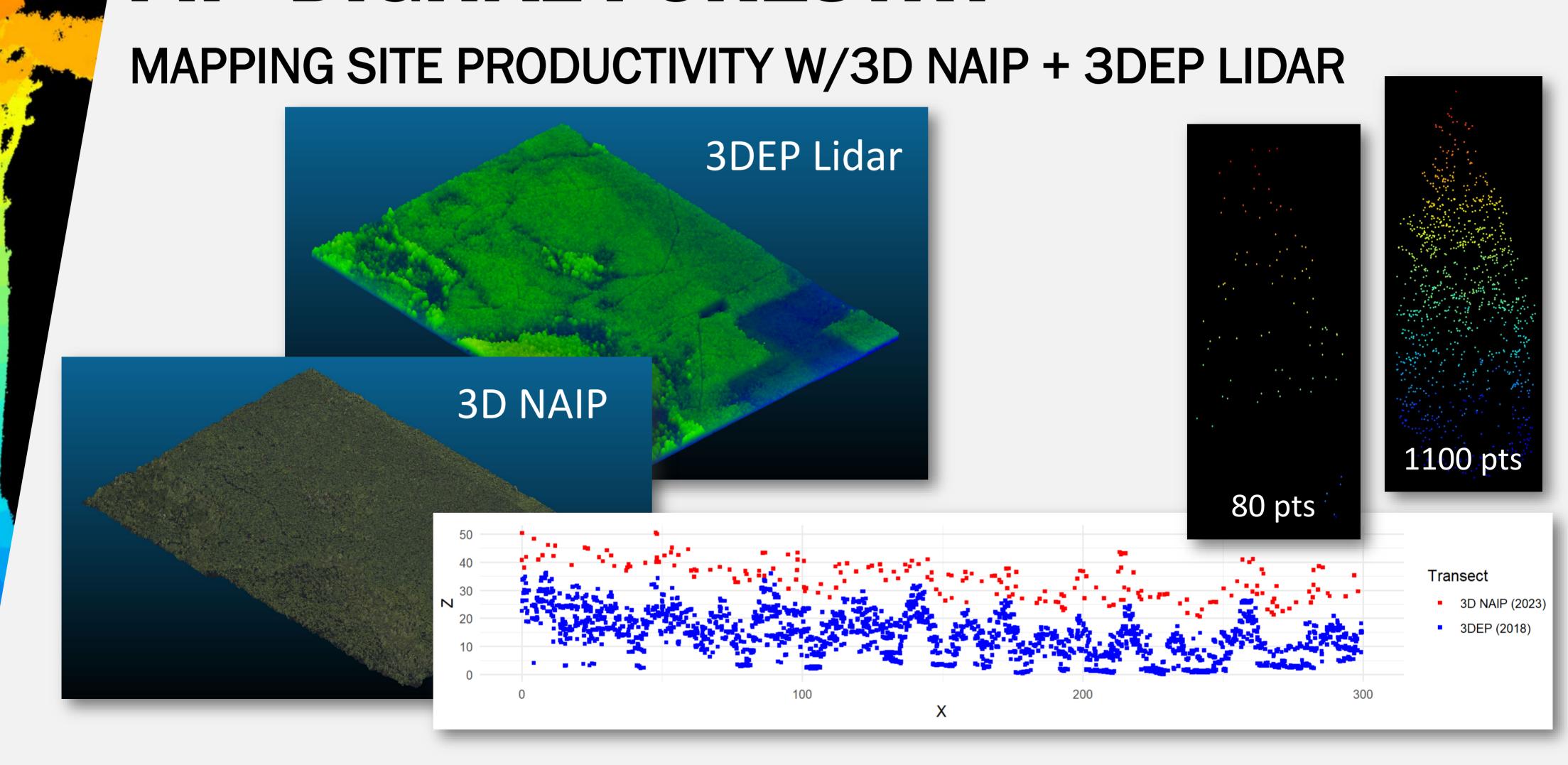


ASSESSING SILVICULTURE EFFECTS ON TAPER W/SLAM





Research Institute





FUEL/BIOMASS MODELING W/GIEGER LIDAR - FUTURE

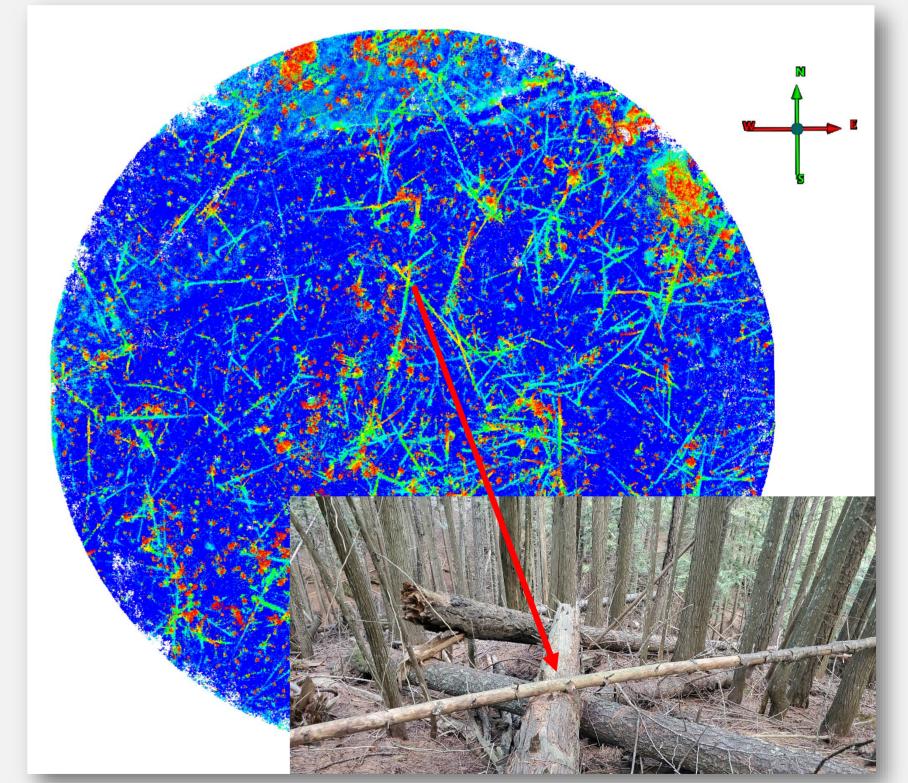












NETWORKING FOR THE NEXT GENERATION OF RS INFORMED G&Y MODELS

Leveraging CAFS, IDF, FII, Mensurationist Societies, GMUG, OLI

APP DEVELOPMENT & DEPLOYMENT

Turn Research into Application Web Apps, AGOL, GitHub

SPECIES IDENTIFICATION & MAPPING

Leverage Free & Evolving Technology
NAIP, Geiger

FIRE & FUELS MODELING & MAPPING

Geiger LiDAR for Estimating Landscape Fuel Loading

