Welcome and Introduction to Precision Forestry Symposium

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Welcome

- College of Forest Resources, University of Washington is pleased to host this path-breaking event.
- First symposium dedicated to Precision Forestry.
- Will help focus attention on innovative technologies and approaches to guide future industries in Washington State.

History of Advanced Technology Initiative

- **The ATI is a partnership between the Legislature, private industry and the research universities of the State of Washington.**
- **Washington State Legislature funded six Advanced Technology Initiatives during the 1999/2001 biennium.**

History of ATI (continued)

- **Each ATI "cluster" is expected to generate new industries or transform existing industries.**
- **Each "cluster" is a bridge between research, education and new economic activity.**

History of ATI (continued)

- **A “cluster”consists of faculty and staff organized around a theme.**
- **A nationally-recognized researcher leads each cluster.**
- **Faculty and staff are chosen for their demonstrated ability to collaborate with private industry.**

ATI Clusters

- **A fully-funded cluster receives $1,000,000 per biennium from State.**
- **The Legislature allocated $4,000,000**
- **Clusters funded include --**
  - **Computer graphics and animation (UW)**
  - **Infectious diseases (UW)**
  - **Reproductive biology (WSU)**
  - **Semiconductor materials (WSU)**

ATI Clusters

- Precision Agriculture (1/2 WSU)
- Precision Forestry (1/2 UW)

- **Each cluster is expected to develop partnerships that lead to additional funding to conduct needed research and technology development.**

Precision Forestry

- Employs high-resolution data to support site-specific tactical and operational decision-making.
- Provides highly repeatable measurements, actions, and processes to grow and harvest trees, as well as to protect and enhance riparian zones, wildlife habitat, esthetics, and other environmental resources.

Precision Forestry

- Provides valuable information linkages between resource managers, the environmental community, and processors.
- Links the practice of sustainable forestry with conversion facilities and markets to produce the best economic returns.

Precision Forestry

- **Innovative technologies**
  - GPS, GIS
  - Remote sensing (LIDAR)
  - Visualization
  - Wireless systems
  - Wearable displays and computers

- **Innovative technologies**
  - Inventory tracking
  - Real-time data management
  - Integrated data bases
  - Decision support systems

Precision Forestry Cooperative

- PFC focuses on --
  - Decision Support Systems
  - Data Collection & Monitoring
  - Mechatronics
  - Silvicultural and Ecological Engineering

Precision Forestry Cooperative

- **GOAL: To develop tools and processes that increase the precision of forest data to support better decisions about forests -- their services and products.**
- **A collaborative effort with private landowners, public agencies, manufacturers, and harvesters.**

Precision Forestry Symposium

- **Brings scientists, managers, and developers together for the first time.**
- **Will provide insights into the current "state of the art."**
- **Provide springboard for new ideas and innovations.**
- **We hope you enjoy the symposium, the campus and the city during your stay with us.**