

# Harvest Planning with LiDAR



- American Forest Management provides forest management and real estate services
- Our major client in Maine and New Hampshire is BBC Land, owned by John Malone
- BBC lands ready for timber inventory upgrade
- Huge thanks to JD Irving for their willingness to meet with us and share learnings/process
- Partnered with Leading Edge on data collection
- Partnered with Lim Geomatics on platform to host EFI (enhanced forest inventory) and other data

- Thanks to Elizabeth Farrell, Mike Howie and Bob Young for their leadership
- Use of LiDAR is new to some but not new to all
- Significant time required to change processes:
  a) understanding data
  - b) reviewing timber harvest planning
  - c) prepare to reassign roles & responsibilities





## **Current Process**



#### **New Process**







#### **New Process**







- Role of the Planner:
- Utilize the modelled candidates to assemble a seasonal logging plan that accounts for operational efficiencies and constraints.











- Pre-harvest planning
- Yard location(s)
- Harvest Specifications
- Import/Export data to Cloud Storage





GPS track logs:

- Weekly updates from operators
- Exchange track logs
  between harvesterskidder
- Track harvest progress in AFRIDS
- GIS harvest update





Organizational changes to employ Lidar derived products has created some challenges.

Adapting our technology to optimize use of the enhanced forest inventory was challenging, but rewarding with gains in efficiency and accuracy.

Communication between the Planner and Forester will continue to be the key factor for success.

## Questions?

