Innovation supporting continuous improvement in environmental and economic performance

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The world is watching us to provide environmental leadership! We need to push the envelop in terms of creativity, innovation, risk taking and re-think environmental stewardship and monitoring. ...







Can we transform ESRD to be an information superpower; to become a leader in smart regulation?





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Why seek excellence in information?





Big data could help solve Canada's productivity problem Les Rechan, Special to Financial Post





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- Current GOA Inventory: 28 million hectares via site license
- Investment: > \$20 million
- Strict license restrictions in place
- Accuracy: 45cm horizontal, 30cm vertical (medium quality data)
- Principle driver for acquisition is mountain pine beetle threat to both timber and non-timber values



















TRAIL TOOL (http://watershed.for.unb.ca/TRAIL)











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ASTECH FOUNDATION HONOUREE



Nicholas Coops and Mike Wulder









Value Chain Optimization

Connecting standing volume to world market

Assessing milling opportunities at the forest estate level









Alberta

Landscape prediction of vegetation community types ... implications for *invasive species management, site classification*, and *strategic investments in silviculture*

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Moving Forward

- We need to enhance LiDAR-related innovation within Alberta to increase home-grown solutions, but need to maintain national linkages.
- Immediate interest of the GOA into LiDAR-related innovation will likely remain focused on data in-hand.
- Adoption and implementation of LiDAR-derived tools within the GOA has been slow but interest and capacity is now increasing.
- We seek to learn more how LiDAR-derived tools can aid in cost effective monitoring, and ensure both sustainability and accountability.
- Standards must be in place to support adoption of innovation.

