NHRI is pleased to announce a technology partnership with Rocky Mountain Unmanned Systems (RMUS) Canada to promote and grow Remotely Piloted Aircraft Systems (RPAS) and Aerial lidar use in Canadian and Global forestry applications. The partnership will allow NHRI to test world class RPAS in a forest operations context, and analyze the data collected, with the underlining objective of showcasing the benefits of these technologies to our clients and research partners. These research and knowledge mobilization activities will ensure our team remains at the cutting edge when it comes to the commercial applications of RPAS. NHRI' s work will benefit RMUS by offering their team the opportunity to test and showcase the uses and benefits of their products and services within the forest industry.

RMUS Canada is the Canadian leader in RPAS and Aerial lidar technology. Founded in 2016 RMUS was one of the first commercial RPAS technology providers in North America, partnering with industry leaders like DJI, Emesent, GreenValley, Wingtra, Parrot, Pix4D and Autel. We support applied research at leading institutions like DND Canada, DRDC, University of Toronto, University of Ottawa, Waterloo University, Ontario Ministry of the Environment, and Natural Resources Canada.

"As providers of new technologies, we are very excited about partnering with an organization like NHRI that embraces innovation in a field that effects all Canadians. Deploying he first SLAM lidar solution for mid canopy mapping in Canada will be an exciting milestone for Canadian forestry and is a great example of NHRI's leadership."

During the partnership RMUS will provide Emesent Hovermap and GreenValley test unit, appropriate aircraft for deployment, and a licensed pilot to NHRI for testing and process development. Wingtra One Aircraft will also be made available. The company will also arrange for full technical support and data review between NHRI technical partners and the engineering teams of their technology suppliers.

" The partnership will allow NHRI to test and showcase RPAS technologies so that our forestry industry clients and research partners can benefit from its immense potential in terms of optimizing forest operations."

The NHRI team will work closely with the RMUS team to document and publish testing results and datasets. Both teams will work closely to ensure proper feedback, based on testing results, is provided to aircraft and sensor manufacturers with the objective of improving product performance in the context of forest operations deployment.

The field work, data capture and analysis and operational feedback will be accomplished by our precision forestry team, and led by Pamela Hurley Poitras (Silviculture Specialist and Drone Pilote). Bastien Vandendaele (Post graduate student) will also be conducting research related to pushing the limits of these new technologies in terms of their potential for forest operations.

Finally, both teams will work together to showcase the technology and transfer the acquired knowledge to RPAS users in the form of articles, white papers, and training videos.

"Our team's partnership with RMUS is very promising and will bring about considerable opportunities for our forest industry clients and research partners. Working with an industry leader like RMUS will ensure that our team remains at the cutting edge of technology. More importantly, the partnership will allow NHRI to test and showcase RPAS technologies and processes so that our forestry industry partners can benefit from its immense potential in terms of optimizing forest operations."

This partnership should produce very useful and field-tested results for both partners. More importantly, the partnership will help showcase the potential benefits for companies and research institutions interested in using RPAS to optimize forest operations. Stay tuned to see the results!

Learn more about the RMUS team !

Read past issues !

THE LEAFLET

Institut de recherche sur les feuillus nordiques Inc.
Northern Hardwoods Research Institute Inc.

ADDRESS

165, BOULEVARD HÉBERT

EDMUNDSTON, N.-B.

E3V 2S8

PHONE

1 506 737-4736

FAX

1 506 737-5373

E-MAIL

INFO@HARDWOODSNB.CA

HARVEST KNOWLEDGE, **PROMOTE** GROWTH