



AWARE Quarterly Progress Report Project ID: Q21 Core Site: Black Brook (NB), Petawawa (ON) Title: How can airborne LiDAR data be used in combination with optical imagery to predict species groups and / or individual species within a conifer dominated stand (fir / spruce) and mixed hard and softwood stands?		Institution: UQAM (PhD at U. Sherbrooke) PI: Benoît St-Onge HQP Name: Jean-François Prieur	
		Committee Members <input type="checkbox"/> See Progress Report Year: ____ Q ____ <input type="checkbox"/> Names: _____	
Report Period Year: 2019 <input type="checkbox"/> Q1 <input type="checkbox"/> Q2 <input type="checkbox"/> Q3 <input checked="" type="checkbox"/> Q4		Number of Courses to Complete 0	
Research Progress During this Reporting Period During the period from January 1 to March 31, 2019, I have: <ul style="list-style-type: none"> -Developed additional Python scripts to produce surfaces (DTM and DSM) from point clouds over large areas -Performed preliminary classification comparisons (Article 1 of my PhD) using new 2018 single photon lidar data at Petawawa and regular ALS (standard and multispectral) -tested SEGMA on new 2018 data -Adapted my Python scripts for urban tree classification in Montreal and making them more robust so that I can distribute them more easily -Gave FPInnovation e-lecture on species identification using ALS -Contributed to upcoming article from Benoît St-Onge in <i>Remote Sensing</i> entitled "Towards operational large-area individual tree species inventory of a commercial forest in Canada using airborne laser scanning" detailing work at BlackBrook over the last 2 years - Have accepted oral presentation at 2019 Quebec Geomatics association conference in May at Bishop's University -Finishing TEL910 course for Sherbrooke University 			
Annual General Meetings AGM1 <input checked="" type="checkbox"/> Attended <input type="checkbox"/> Reported results		AGM2 <input checked="" type="checkbox"/> Attended <input checked="" type="checkbox"/> Reported results	
		AGM3 <input checked="" type="checkbox"/> Attended <input checked="" type="checkbox"/> Reported results	
Research Targets for next Reporting Period Complete TEL910 work and submit first article on ALS standard vs SPL comparisons at Petawawa.			
HQP Signature:  Date: April 16, 2019		PI Signature:  Date: April 16, 2019	