CIF Technical Workshop

*Words of wisdom*

April 17th, 2019
Andrew Plowright

[CIF Technical Workshop slide with diagrams and text about complexity of tasks and options for doing it yourself or getting help.]
Aerial photos

Orthographic photos

Accurate geo-referencing

Terrain and canopy models

Advanced analysis

DO IT YOURSELF

GET SOME HELP

COMPLEXITY OF TASK
COMPLEXITY OF TASK

DO IT YOURSELF $get$ SOME HELP

Aerial photos
Orthographic photos
Accurate geo-referencing
Advanced analysis
Terrain and canopy models

POINT CLOUD

Aerial photos
Orthographic photos
Accurate geo-referencing
Advanced analysis
Terrain and canopy models
Aerial photos
Orthographic photos
Accurate geo-referencing
Terrain and canopy models
Advanced analysis
GROUND POINTS
GROUND MODEL
DO IT YOURSELF
GET SOME HELP
COMPLEXITY OF TASK
COMPLEXITY OF TASK

DO IT YOURSELF  GET SOME HELP

CANOPY MODEL

Aerial photos
Orthographic photos

Accurate geo-referencing

Advanced analysis

Terrain and canopy models

AUTOMATED TREE DETECTION

Aerial photos
Orthographic photos

Accurate geo-referencing

Advanced analysis

Terrain and canopy models
**TREE CLASSIFICATION**

- Advanced analysis
- Terrain and canopy models
- Accurate geo-referencing
- Orthographic photos
- Aerial photos

**FOREST METRICS**

- Advanced analysis
- Terrain and canopy models
- Accurate geo-referencing
- Orthographic photos
- Aerial photos

DO IT YOURSELF

GET SOME HELP
COMPLEXITY OF TASK

DO IT YOURSELF  ❯  GET SOME HELP

WASTE & RESIDUAL

Advanced analysis

Terrain and canopy models

Accurate geo-referencing

Aerial photos

Orthographic photos

REGENERATION

Advanced analysis

Terrain and canopy models

Accurate geo-referencing

Aerial photos

Orthographic photos
Select publications
St-Onge et al., 2015
J.C. White, 2016
Goodbody et al., 2019

Best practices
CFS: remotely sensed forest inventory attributes

Software and code libraries
USFS: FUSION LiDAR tools
Jean-Romain Roussel: lidR library for R
UQAM: Segma
Andrew Plowright: ForestTools

THANKS!
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