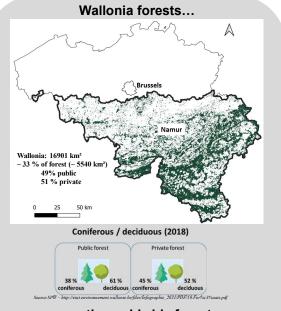
Use of Remote Sensing for selection of ash trees (Fraxinus excelsior) tolerant to ash dieback

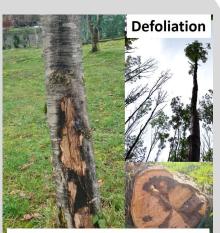
<u>Lucau-Danila C.</u>, Curnel Y., Chandelier A., Planchon V. CRA-W, Walloon Agricultural Research Centre, Belgium Contact : <u>c.lucau-danila@cra.wallonie.be</u>, +32 81 87 41 66



..., as mostly worldwide forest, are impacted by climate changes Since the 1990s, Hymenoscyphus fraxineus, causal agent of Ash Dieback, has posed a threat to Fraxinus excelsior (common ash) in Europe.

In Belgium, the disease was first reported in 2010.

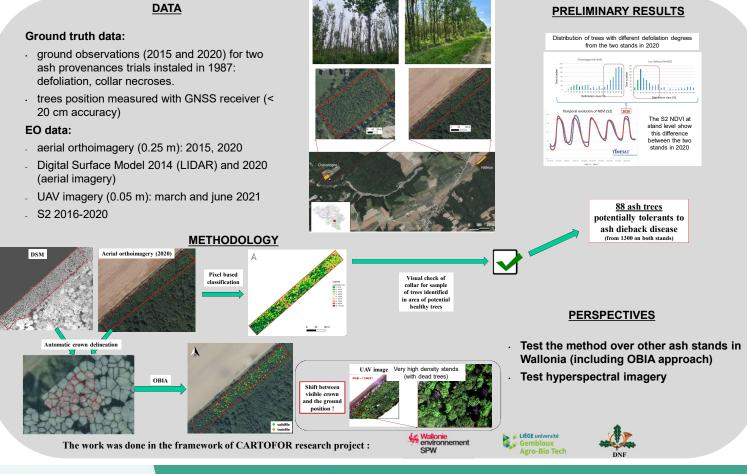
Besides crown defoliation and dieback, <u>collar lesions is a</u> <u>critical parameter</u> to take into account in assessing trees that are potentially resistant to the disease (3-4%).



Collar necroses and butt rot

Douglas ~ 0.9 % from total Walloon forest area (~ 5000 ha) - 20 % pure stands - 80 % mixed-species stands

The main objective of this study consist in identification of ash trees naturally tolerant to ash dieback disease in Wallonia using aerial/satellite imagery.







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