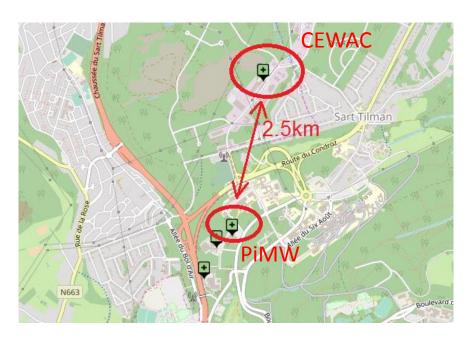
Visit to CRM Group – 13/9/2019 pm

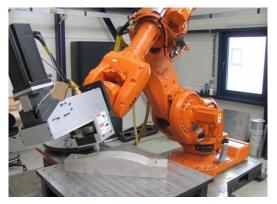
- Departure by bus from UCL to Liège at approx. 13h
- Arrival at CRM Liège to visit IDEAS unit (Innovative Designs & Assembly Solutions)
 - one group starts at CRM site CEWAC (welding and associated testing)
 - other group starts at CRM site PiMW (additive manufacturing and post-treatment)
 - coffee break at CRM CEWAC while both groups switch sites at approx. 15h
 - also coffee break at CRM CEWAC for gathering all visitors in order to finish visits
- Departure from CRM at approx. 16h (drop-off possible at Liège train station)
- Arrival back at UCL at approx. 17h30



CRM Group – site CEWAC

- Welding facilities (30')
 - Friction stir (CNC and robot) & rotation friction welding
 - Electron beam welding, laser welding & hybrid laser-GMAW
 - Resistance spot welding etc.
 - Wire Arc Additive manufacturing (WAAM)
 - Demo FSW etc.



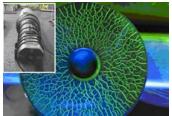






- Non-destructive testing facilities (15')
 - VT, PT, MT, UT, RT & tomography
 - Demo, examples of indications etc.









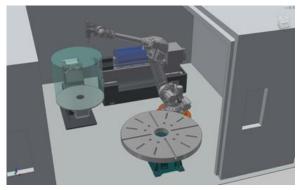


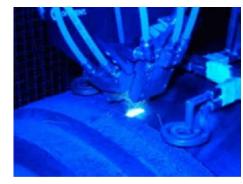


CRM Group – site PiMW

- Additive Manufacturing facilities (30')
 - Large robotic AM cell and smaller CNC AM machine based on laser & wire/powder
 - Laser cladding presentation
 - Demo on one of the machines







- Post-processing facilities/examples (15')
 - Surface treatments eg. tribo-finishing, electro- & chemical polishing ...
 - Show examples of (AM) parts that have been processed



