

IEA Wind TCP Task 52 (Wind Lidar)

Working group (7): Lidar Ontology

Objectives:

The work of the group will concentrate on following main objectives:

- Develop a formal, clear and dedicated controlled vocabulary for lidar terms
- Convert lidar knowledge into FAIR (Findable, Accessible, Interoperable and Reusable) lidar knowledge
- Long term updates and maintenance of the ontology

Planned deliverables and timeline:

- Open access journal paper (MDPI - remote sensing) on the Lidar Ontology
 - Meant to be submitted early/mid 2023.
 - Overleaf template for tracking and feedback → <https://www.overleaf.com/5753524265pvzjgdwjmpft>

Group approach:

- The group expects to deploy the current working version of the lidar ontology [here](#) in the short term
- Ideally, the version is under **continuous** update. Due to the evolution of lidar applications and technology, frequent addition and edition of terms is needed. This requires regular meetings.
- These meetings will take place every quarter of the year. Additionally, occasional meetings may be held if the need of an update is identified
- Hardware and data processing methods are quite different topics → specialised groups for each topic if the group expands
- Possible alignment with other existing ontologies related to wind energy (e.g., Task 37)
- No workshops have been planned yet

Contact:

Francisco Costa - costa@ifb.uni-stuttgart.de

