Flash update on:

The GRUAN Task Team on 
Ground-Based Remote Sensing Measurements (TT-GB) 
and 
The GRUAN Lidar Product 

Thierry Leblanc 
Nico Cimini 

TT-GB oversee the production and integration of ground-based remote sensing techniques MWR, FTIR, and lidar, in compliance with GRUAN best measurement practices
**Co-chairs:**
Nico Cimini, CNR-IMMA, Italy  
Thierry Leblanc, JPL-Caltech, USA

**Members:**

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<tr>
<th>Member</th>
<th>Institution</th>
<th>Country</th>
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<td>Arnoud Apitouley</td>
<td>KNMI</td>
<td>Netherlands</td>
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<td>Maria Cadeddu</td>
<td>ANL</td>
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<td>Jonathan Gero</td>
<td>Univ. Wisconsin</td>
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<td>Jim Hannigan</td>
<td>NCAR</td>
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<td>FTIR</td>
<td>Boulder</td>
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<td>Christine Knist</td>
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<td>Fabio Madonna</td>
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<td>Gianni Martucci</td>
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<td>Matthias Schneider</td>
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<td>Michael Sommer</td>
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**“Kick-off” meeting on November 30, 2020:**
Finalize ToR  
Review current actions and define new ones (2021)
Not much “GRUAN-dedicated” work in 2020 due to significant disruption of normal business (covid, data re-analysis projects, proposals, local wildfires...)

In 2020, data processor (GLASS) went from development to production stage
	✓
Raw data automatically transferred from Payerne to processing center (JPL-TMF)
	✓

Test data from Payerne, Ny-Aalesund, Cabauw lidars now ingested (together with many other lidars on non-GRUAN sites)

No progress in auto data transfer set up from other sites (Cabauw, Ny-Aalesund) (more/better response needed from site lidar representatives!)

Homogenization of meta data (e.g., through LidarRunClient) requires dedicated manpower, not available at this time

No progress in the (LC-suggested) raw data conversion to NetCDF

No progress in the setup of automated raw data transfer to GRUAN LC
GRUAN Lidar Data Flow: Current

green = Operational and/or automated
orange = Has happened, on a case-by-case basis, need to gear up
red = Not in place, need serious work efforts
GRUAN Lidar Data Flow: Current vs. Expected

- **Green**: Operational and/or automated
- **Orange**: Has happened, on a case-by-case basis, need to gear up
- **Red**: Not in place, need serious work efforts

**GRUAN site** → **Raw data** → **Converted raw data** → **Data Processing** → **GRUAN Product**

- **Payerne Lidar**
- **Ny-Alesund Lidar**
- **Cabauw Lidar**
- **More Lidars...**

**Level 0 data repository in native format GRUAN LC** → **Level 0 data repository in gruan format GRUAN LC**

- **GLASS (GRUAN LC)**
- **GLASS (TMF)**

**Transfer** → **Conversion** → **Ingestion** → **Production**

**GRUAN LC** → **GRUAN Level 2 data Public Repository**
1. Secure **automated** data transfer from Ny-Aalesund, Cabauw lidar sites

2. Initiate **systematic** data processing for Payerne (...and other sites?)

3. **Foster** GRUAN LC involvement in data production chain

⇒ New TT-GB Members with expertise in lidar should **actively** contribute to items 1 through 3, and hopefully more...