Flash update on:

The GRUAN Lidar Product

As of Fall 2022

Thierry Leblanc

⚠️ (Almost) no GRUAN-dedicated work in 2022 due to data transfer set up status quo

✓ In 2020, data processor (GLASS) went from development to production stage

✓ In 2020, raw data automatically transferred from Payerne to processing center (JPL-TMF)

✓ In 2020, test data from Ny-Aalesund and Cabauw lidars ingested

⚠️ In 2021, automated transfer from Payerne to JPL-TMF interrupted due to transfer protocol changes on Payerne's end (suspected firewall issues)

NEW FROM LAST YEAR's REPORT…

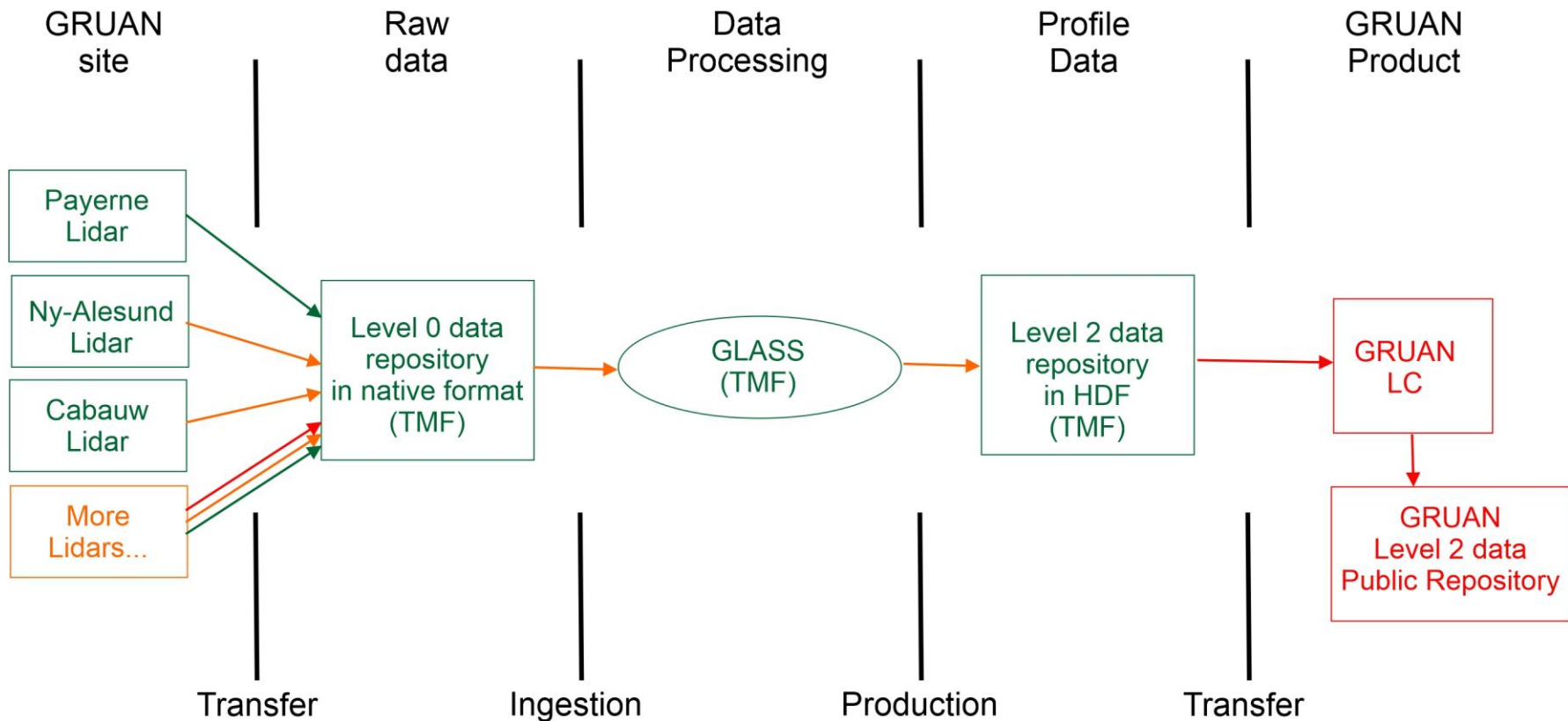✓ In 2022, raw data transfer protocol from Cabauw set up (just 1 week ago!)

NO CHANGE FORM LAST YEAR AND TWO YEARS AGO…

❌ No progress in auto data transfer set up from Ny-Aalesund

❌ 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

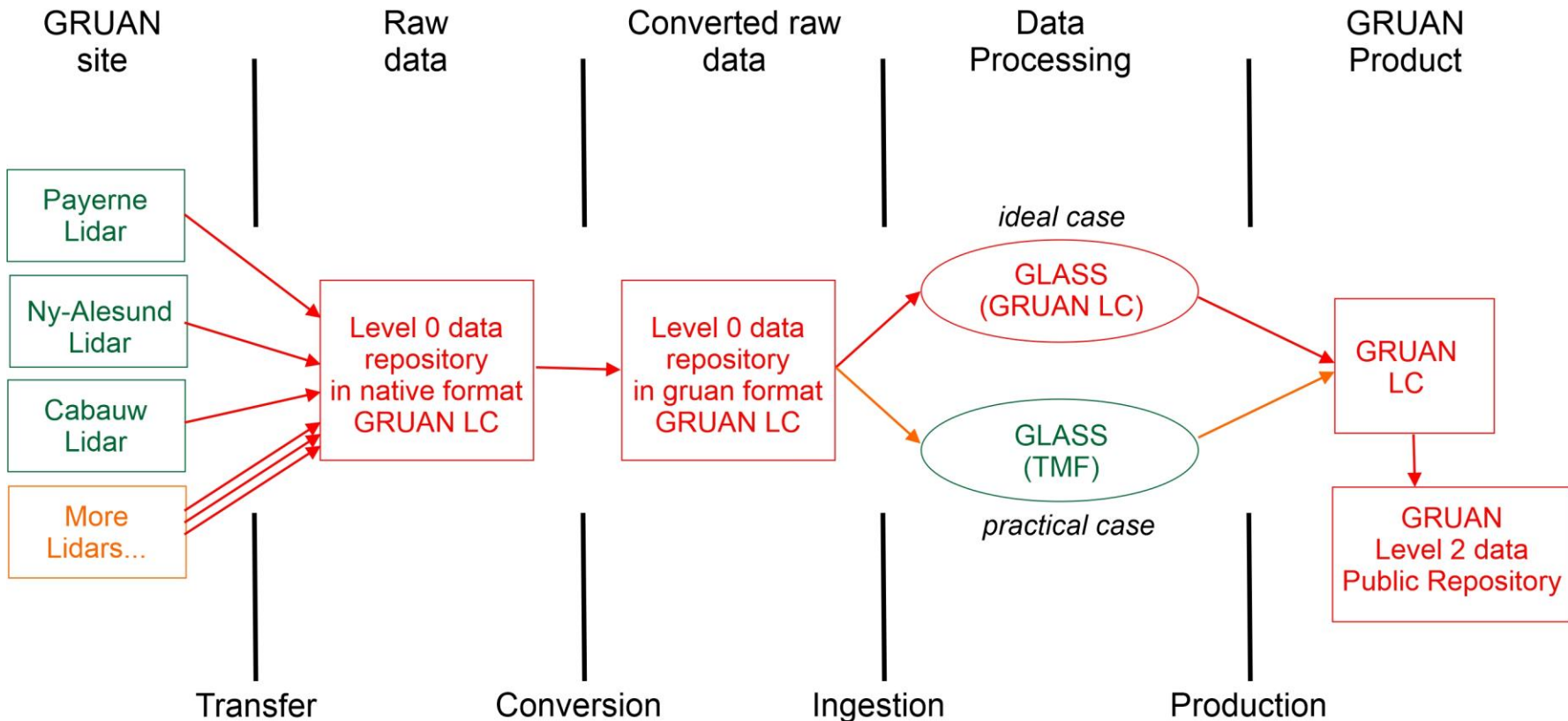❌ No progress in the setup of automated raw data transfer to GRUAN LC

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 | Data Processing | Profile Data | GRUAN Product

Payerne Lidar
Ny-Alesund Lidar
Cabauw Lidar
More Lidars…

Level 0 data repository in native format (TMF)

GLASS (TMF)

Level 2 data repository in HDF (TMF)

GRUAN LC

GRUAN Level 2 data Public Repository

Transfer | Ingestion | Production | Transfer

1. Set up **<u>automated</u>** data transfer from lidar sites to GRUAN LC

2. Set up **<u>automated</u>** data transfer from GRUAN LC to TMF

3. Initiate **<u>systematic</u>** data processing for several sites
   AFTER raw data transfer issue is resolved

➔ TT-GB Members with expertise in lidar should **<u>actively</u>**
   contribute to items 1 through 3, and hopefully more…

➔ Help from GRUAN LC required to initiate (1) and (2)…