

NORDNWP pre-processing project

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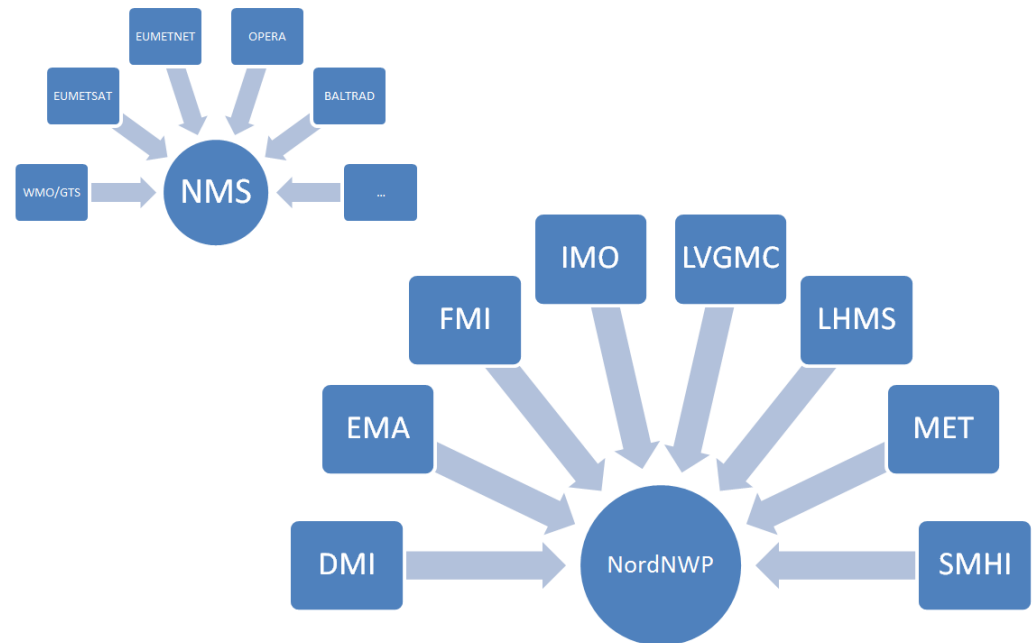
NORDNWP

- 8 Nordic/Baltic countries
- Aimed for a common NWP production and common HPC by 2022
- Has now transformed into United Weather Centres (UWC) together with KNMI and Met Éireann.

Pre processing sub project

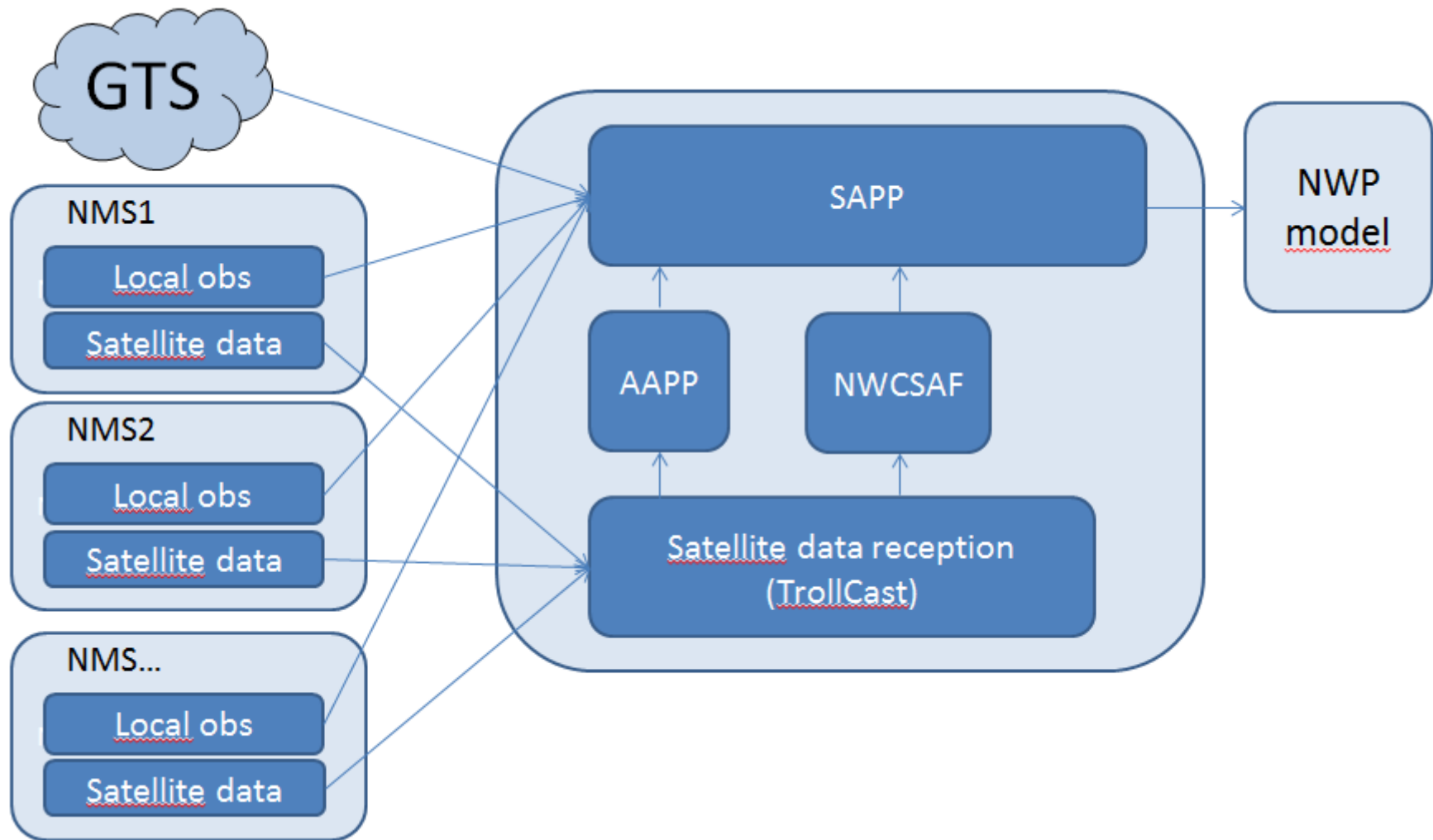
1. WP1: Create inventory of available observations types at the NMS:s.
2. WP2: Establish data pool.
3. WP3: Data merge
4. WP4: Harmonization

Worked in Glenna2 environment.



Results and conclusions

- Data merge (conventional)
 - Significant diversity in tools, data formats etc. Conclusion: merging of existing data streams is not a viable option.
 - Proposed SAPP as primary pre-processing framework
- Data merge (remote sensing)
 - No (or limited) need for merging
 - When possible, utilize existing data exchange channels
 - Possible coordination of local download of satellite data.



Harmonization/recommendations

- We propose an extensive evaluation of SAPP
- Use existing data exchanges, e g:
 - “Trollcast” satellite data exchange between most Nordic countries (one- or two-way)
 - ZMQ and/or Baltrad radar data exchange
- Implement a continuous and robust streaming and processing chain to improve timeliness (important for e g nowcasting)
- Implement a process to report persistent errors to the appropriate staff at the affected NMS.