

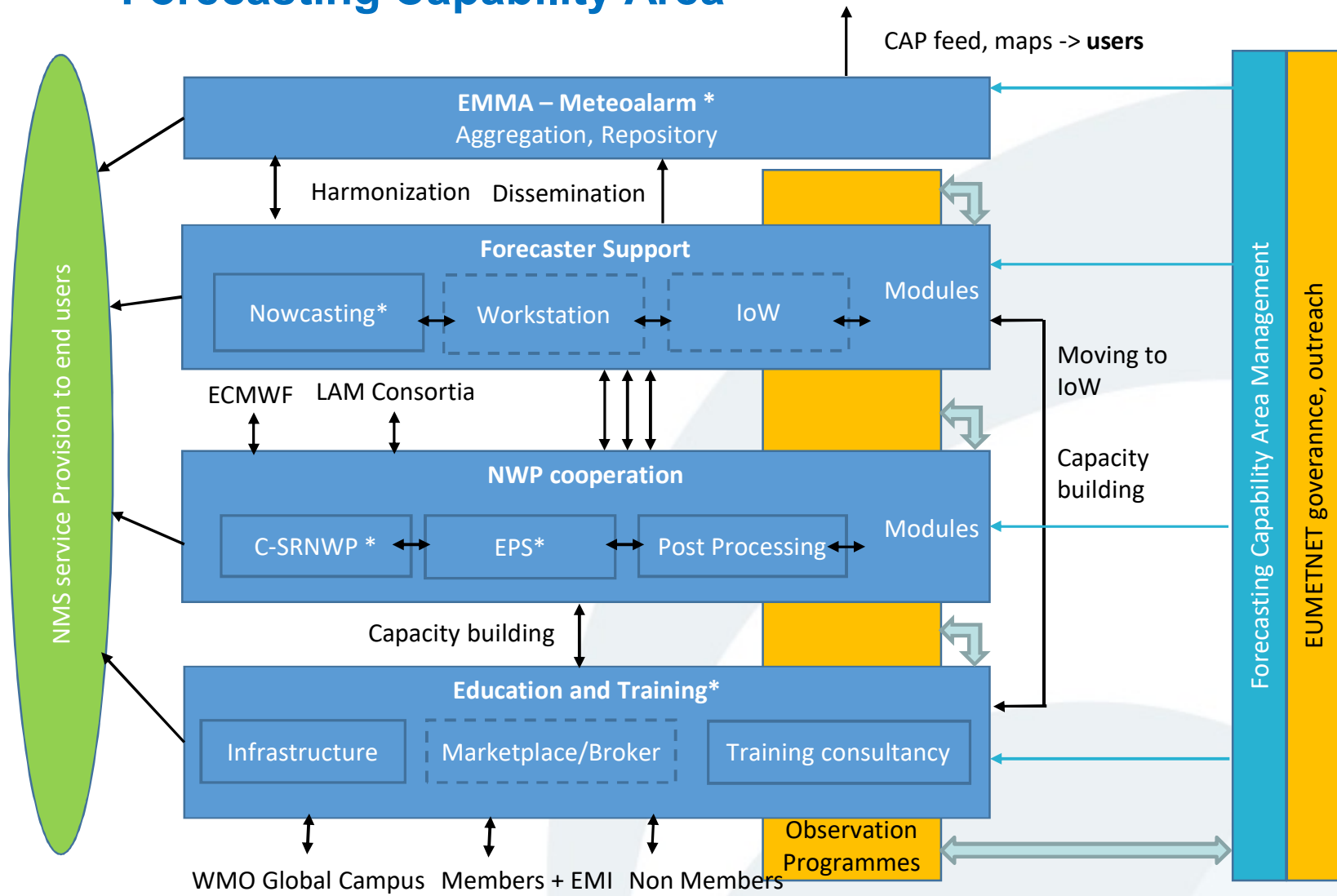
Developments in EUMETNET: new programme phase 2019-2023

EWGLAM/SRNWP, Sofia, 30 September – 3 October 2019
Dick Blauboer, FCAM



EUMETNET
EUROPEAN METEOROLOGICAL
SERVICES NETWORK

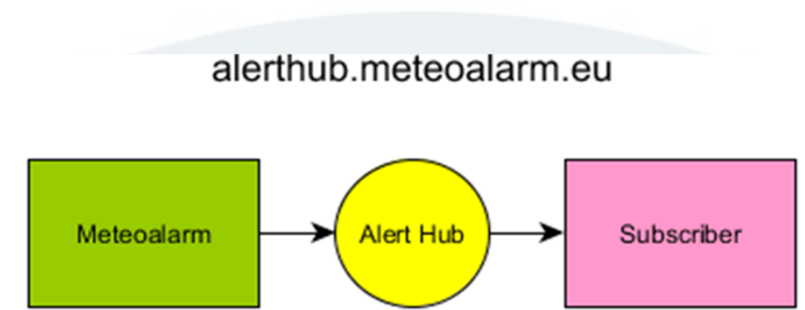
Forecasting Capability Area



EMMA

Andreas Schaffhauser, ZAMG

- **alert hub and repository** (shapes, polygons, ID's)
- major **redesign of the system** – transition to meteoalarm2.0
- next iteration of the **Meteoalarm CAP profile**
- further support EUMETNET members to deliver **easy understandable impact-oriented, multi-lingual warnings**
- additional warning parameters
- implementation of **free (dynamic) polygons**
- incorporation of crowdsourced impact observations
- worldwide **knowledge transfer** for regional warning platforms / warning community building
- **support of the GMAS** concept of WMO



Current status

- **MEG and MPG meeting in Zagreb, 26-27 September**
- **Definition document on Meteoalarm 2.0 being discussed**
- **Cross country communication**
- **New: information layers**

EMMA



E-Nowcasting module

Francesca Schmid, ZAMG

Main features:

- **Seamless prediction systems**
 - Inventory & Guidelines
- **Identification of new observation data**
 - Satellites
 - Aircraft based observations
- **Verification**
 - Tools for objective verification and comparison of systems
- **End user**
 - Identification of user groups and their requirements
- **Coordination & outreach**
 - **European Nowcasting Conference (2019, 2021, 2023)**
 - Coordination with EUMETNET and WMO programmes

Impact oriented Warning module

tbd

- **No proposal received September 2018**
- **Workshop June, Vienna**
- **Start of module before Spring 2020**

Forecaster Support

No PM

C-SRNWP module

Balazs Szintai, OMSZ

Main features:

- **Foster communication among NWP consortia**
- **Coordination with EUMETNET Obs Programmes**
- **Organizing EWGLAM/SRNWP meeting 30 Sep.-3 Oct. 2019, Sofia**
- **New: Short Term Scientific Missions: selection procedure, 2-3 missions per year, this year one approved**
- **Most work done in 8 cross consortia topical expert teams**

NWP Cooperation

Stéphane Vannitsem, RMI

SRNWP EPS module

Alfons Callado, AEMET

Main features:

- Consortium AEMET, RMI, ItAF/REMET (ARPA left the consortium) led by Alfons Callado (AEMET) and Francesca Marcucci (ItAF/REMET)
- Enhancement of cooperation on LAM-EPS
- **Improving high impact weather prediction**
- **Development of several high impact weather parameters**
- **Contracts with hired developers signed**

Post-processing module

Stéphane Vannitsem, RMI

Main features:

- **Post-Processing = use of statistical techniques to correct weather forecasts or climate predictions**
- **Objectives:**
 - **Demonstrate the benefits**
 - **Define best practices**
 - **Develop methods and tools**
- **2 phases: 3 years + 2 years (after approval)**
 - **Compilation of current activities literature review**
 - **Demonstrate the techniques on a testbed shared by NMSs and the ECMWF**
- **Workshop Brussels, 9-11 December**



Eumetcal 2.0

Heleen ter Pelkwijk, KNMI

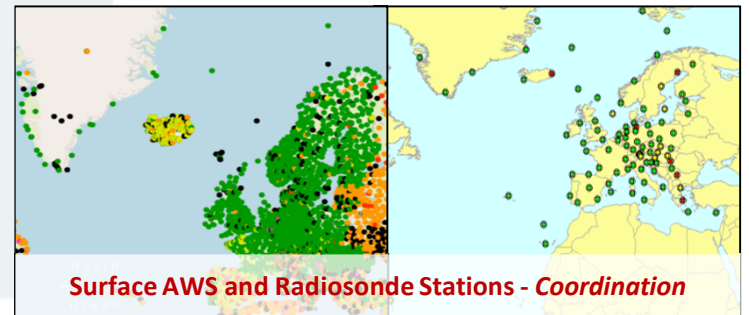
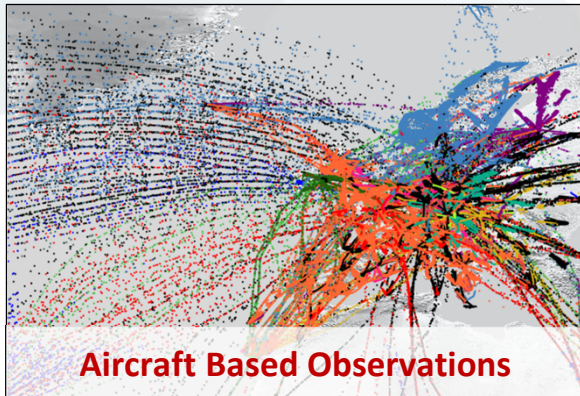
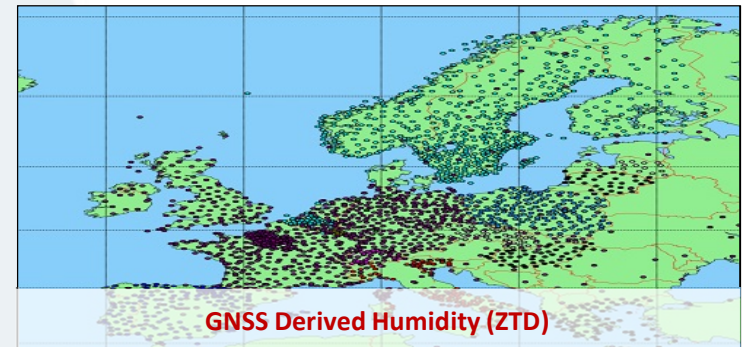
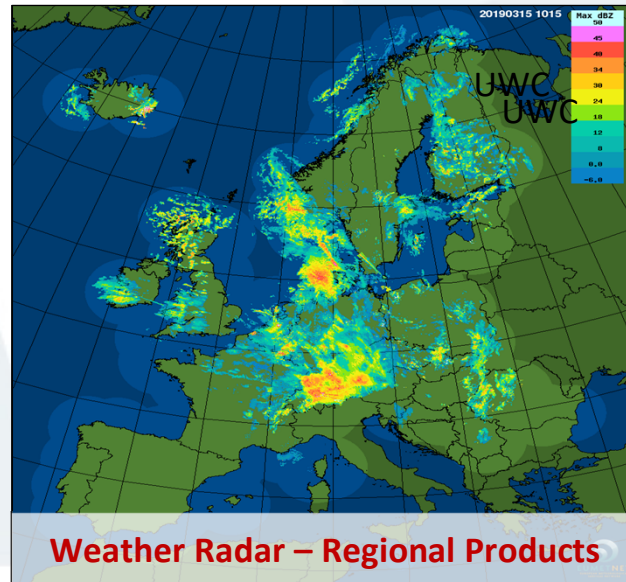
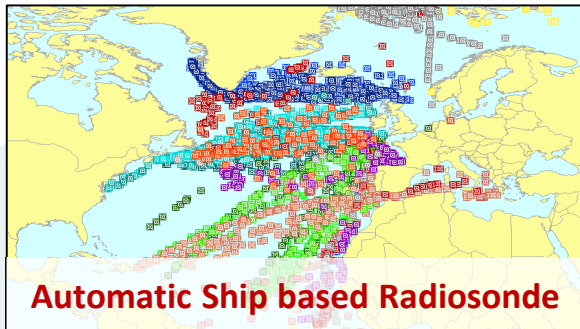
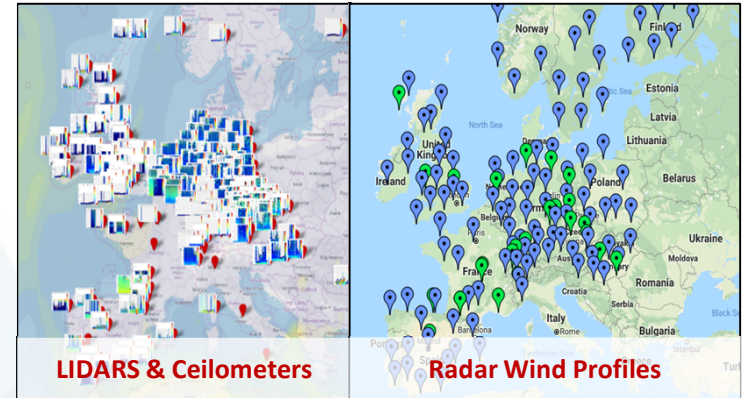
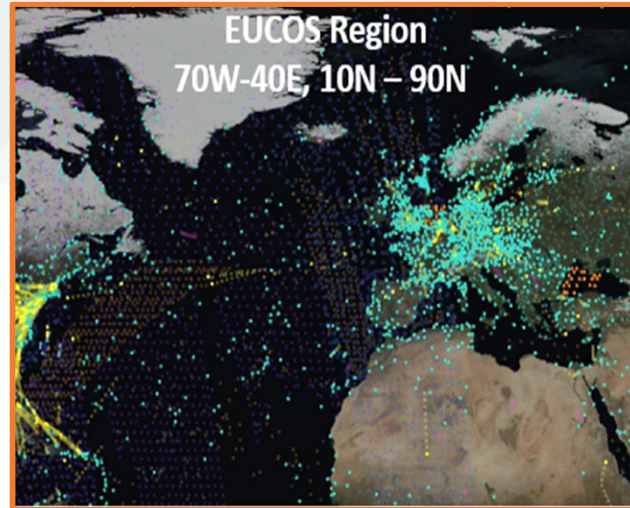
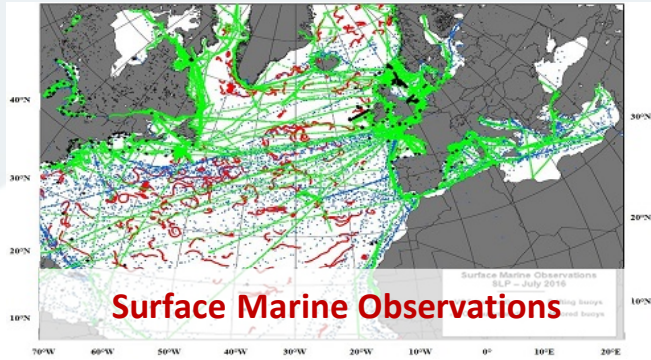
- Led by KNMI in cooperation with DHMZ
- **New TSO: Tomislav Marekovic (DHMZ)**
- Continuation of most important Eumetcal features:
 - a) **Training infrastructure**
 - b) **Communication of training activities**
 - c) **Eumetcal Workshop**
 - d) **WMO Train the Trainer**
- **Perform an extensive training and infrastructure needs assessment** under all Members and partnering institutes involved with EUMETNET
- **Reconsider all the objectives of the EUMETNET E&T Programme**
- Make a plan for the continuation of the Eumetcal2 Programme for the rest of the period



Latest news:

- WGET and ESG: ToRs
- **CALMet/Eumetcal workshop, Darmstadt, 17-20 September big succes**
- **First meeting of ESG, Eumetcal Steering Group**
- Webex Training Center in place
- **Implementation new Learning Management System (LMS) delivered**

EUMETNET Composite Observing System (EUCOS)



Key Activities Obs. programmes

- **Start of a new Programme Phase;** Jan 2019 saw the start of a new 5-year programme phase for all programmes, confirming EUMETNET's continued commitment to collaborative observations activities.
- **New leadership;** the Met Office has taken over responsibility for leading the EUMETNET Observations activities, working in partnership with DWD (who led this task previously):
 - Bruce Truscott, Jacqueline Sugier, Peter Gault, Tanja Kleinert
- **The initial focus of the next phase;**
 - Seamlessly re-establish all observations programmes ensuring the continued flow of operational data
 - Develop a EUMETNET Obs Programme R&D Plan aimed at addressing users priority needs
 - Meetings held with global NWP, climate (ObsSET), SRNWP, Nowcasting (HoF) in order to formulate new Statement of Guidance (SoG) on obs. requirements
 - Investigate barriers to observation data sharing and exchange, facilitating access to new data
 - Further automate and enhance the network monitoring tools with the aim of progressively improving network performance

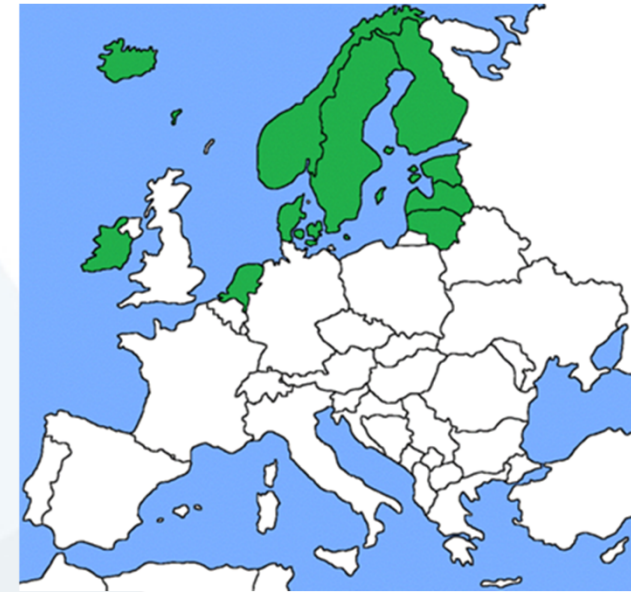
Crowdsourcing

- EUMETNET activities (workshops) on CS: Toulouse , May 2017, Helsinki, February 2018
- Workshop on crowdsourcing and NWP, Copenhagen, December 2018, Kasper Hintz
- 3rd EUMETNET WS on CS, hosted by MetOffice, Exeter, 12-13 March 2019
- STAC decided in March 2019 that a Task Team would work on the ToR for a EUMETNET Working Group on CS
- Chair TT: Gwenaëlle Hello, MétéoFrance
- Main purpose: to monitor ongoing crowdsourcing activities in Europe and start cooperation activity whenever feasible and beneficial for EUMETNET Members
- Interest for forecasting: impact observations, nowcasting, DA in LAM

UWC: United Weather Centres

- Cooperation of 10 countries: **Denmark, Sweden, Norway, Finland, Estonia, Latvia, Lithuania, Iceland, Ireland, the Netherlands**
- Observer status for NMSs interested to join: AEMET
- NWP partner: **Hirlam-Aladin**
- **Logo and white paper**
- Position paper
- In 2 steps to full operational cooperation (HPC+NWP/EPS) from 2027

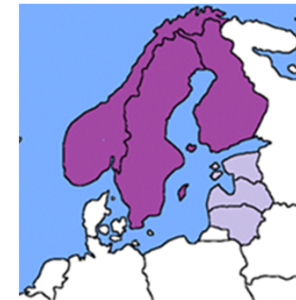
- First step two sub-consortia:
 - **Iceland, Denmark, Ireland, the Netherlands**, operational from 2023
 - All WG meeting: Dublin 24-25 September
 - New WGs: Post-processing, Forecaster
 - MetCoOp, existing operational cooperation (Norway, Sweden, Finland), to be extended with Baltic states, ESTEA first to join



UWC



UWC West



UWC East
MetCoOp



Workshops&meetings in FCA or related

- 30 Sep.-3 Oct, Sofia: EWGLAM/SRNWP (EUMETNET)
- 21-25 Oct 2019, Madrid: workshop SRNWP EPS (EUMETNET)
- 22-24 October 2019, EUMETNET STAC/PFAC meetings, Dublin
- 4 November 2019: 18th Informal Conference of South East Europe NMHS Directors (ICSEED-18) with special item on Storm Naming in SE Europe
- 12-14 November, De Bilt, EGOWS meeting, workstations
- 9-11 December 2019, Brussels: workshop Post-processing (EUMETNET)
- 22-23 January 2020, De Bilt: EUMETNET Core Team meeting (EUMETNET)
- 12-13 February 2020, ECMWF, Reading: ABO (Air Born Observations:AMDAR, Mode-S) User Workshop (EUMETNET)
- 4-8 May 2020, Offenbach: several meetings including EMMA, HoF, TTSN, ET Forecasting (EUMETNET)

Thanks for your attention !

- **Dick Blaauboer**

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