

EUMETNET Update

Dick Blaauboer

WGCEF meeting, Tel Aviv, 12-13 November 2018

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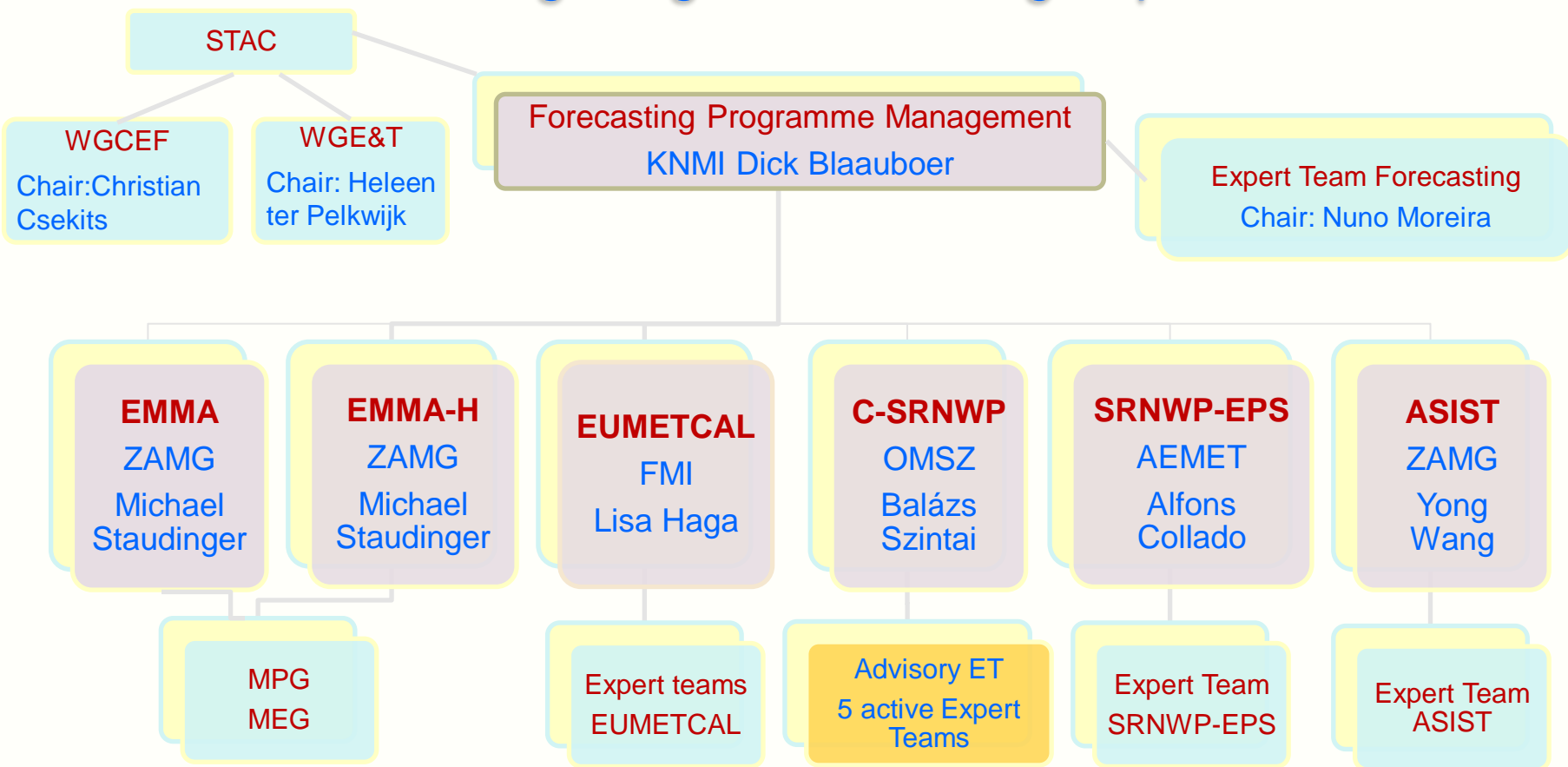
- General EUMETNET news
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- Forecasting Programmes new phase
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General EUMETNET news

- Renewed EIG agreement valid until end 2028, ready for signature at Assembly, Zagreb, 21-23 November 2018
- New programme decisions, phase 2019-2023, to be approved at same Assembly meeting
- New programme coordinator, secretary per 2019, replacing Manuel Palomares
- New Executive Director per 2021, replacing Eric Petermann
- Core Team meeting, Brussels, mid January 2019, kick-off new programme phase: meeting of all PMs and secretariat

Ending phase

Forecasting Programmes and groups 2018



EMMA, EMMA-H

- **Availability** of the server system and/or the internet connection to users of **99,5%**
- A **MEG** (Meteoalarm Expert Group) meeting was held in Vienna in January 2018, **new chair chosen: Paul Davies (MetOffice)** replacing retiring Frank Kroonenberg (KNMI)
- MEG and a Partner meeting were held in Lisboa in May 2018
- **CAP implementation: 68% operational, 16% in test**
- The EMMA - Meteoalarm system was invited to be **presented at WMO in the context of the WMO GMAS initiative** and was also discussed on the framework of GMAS at Executive Council of WMO in June 2018
- The need of the provision of the missing **2-5 day warning information** is urgent. Most of the partners are issuing warning information in terms of bulletins/watches or advisories, but some are not permitted to deliver color-coded 2-5 day warning information to Meteoalarm
- **Next MEG and MPG meeting in Zürich, hosted by Meteo Swiss, 4-5 April 2019**

Eumetcal

- involved in 6 courses during 2018S1
- assisted member institutions and training providers operating in Europe
- contributing to maintain the network of trainers in meteorology across Europe and worldwide
- collecting the inputs of member institutions in terms of training needs
- Preparing new phase

ASIST

- Joint ASIST / SRNWP-EPS workshop held in Bologna, 16-18 May 2018.
- COST action proposal “Seamless High Impact weather Nowcasting with Ensembles (SHINE)” submitted.
- Next year: European nowcasting conference: hosted by AEMET, Madrid, 23-26 April 2018
- Ambitious plans for next phase

C-SRNWP

EWGLAM/SRNWP meeting:
ECMWF, Salzburg, 1-4 October

- Around 85 participants from 31 countries, including Russia, Algeria, Tunisia, Canada, Japan
- Theme: convection
- Parallel sessions of 5 activeWG's:
 - Verification
 - Surface aspects
 - Predictability, EPS
 - Data assimilation
 - Applications

Next EWGLAM meeting:

- To be hosted by HNMX (BNMH), Sofia 30 Sep 3 Oct 2019



- Coordination GLDB development (FMI, ECMWF)
- Representing SRNWP perspective in ObsSET network planning
- Preparation new phase

SRNWP EPS

- WS3 (joint with ASIST Project):
 - Workshop on “Connecting Nowcasting and mesoscale EPS”, 16-18 May 2018, Bologna (IT)
 - talks and reports available at:
https://www.arpae.it/dettaglio_evento.asp?id=2701&idlivello=1530
- WS4:
 - Workshop on “Probabilistic prediction of severe weather phenomena”: 23-25 October 2018, Barcelona (ES)



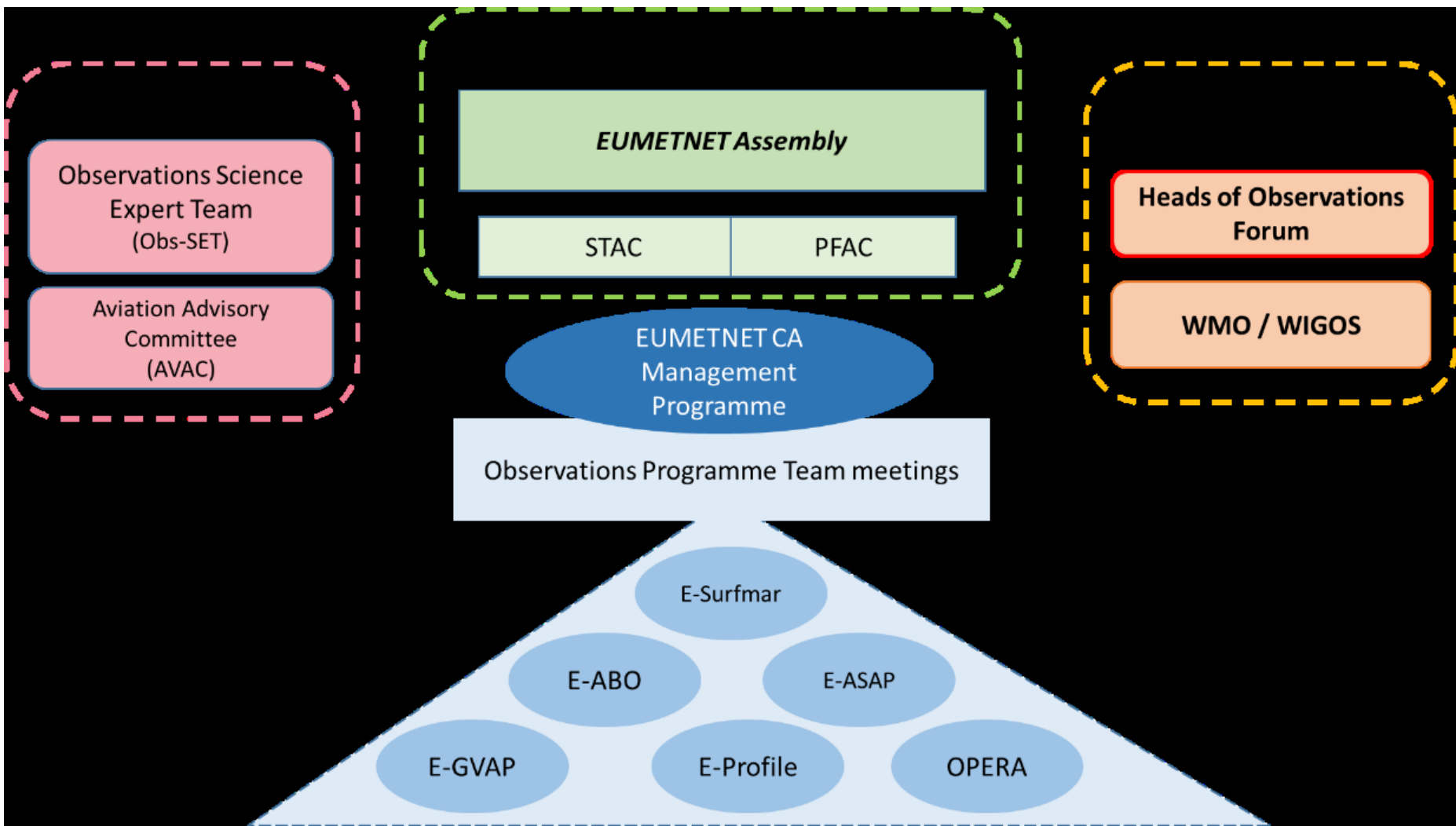
Software delivered:

- Calibration
- Product generation thunderstorm, fog
- Support for users

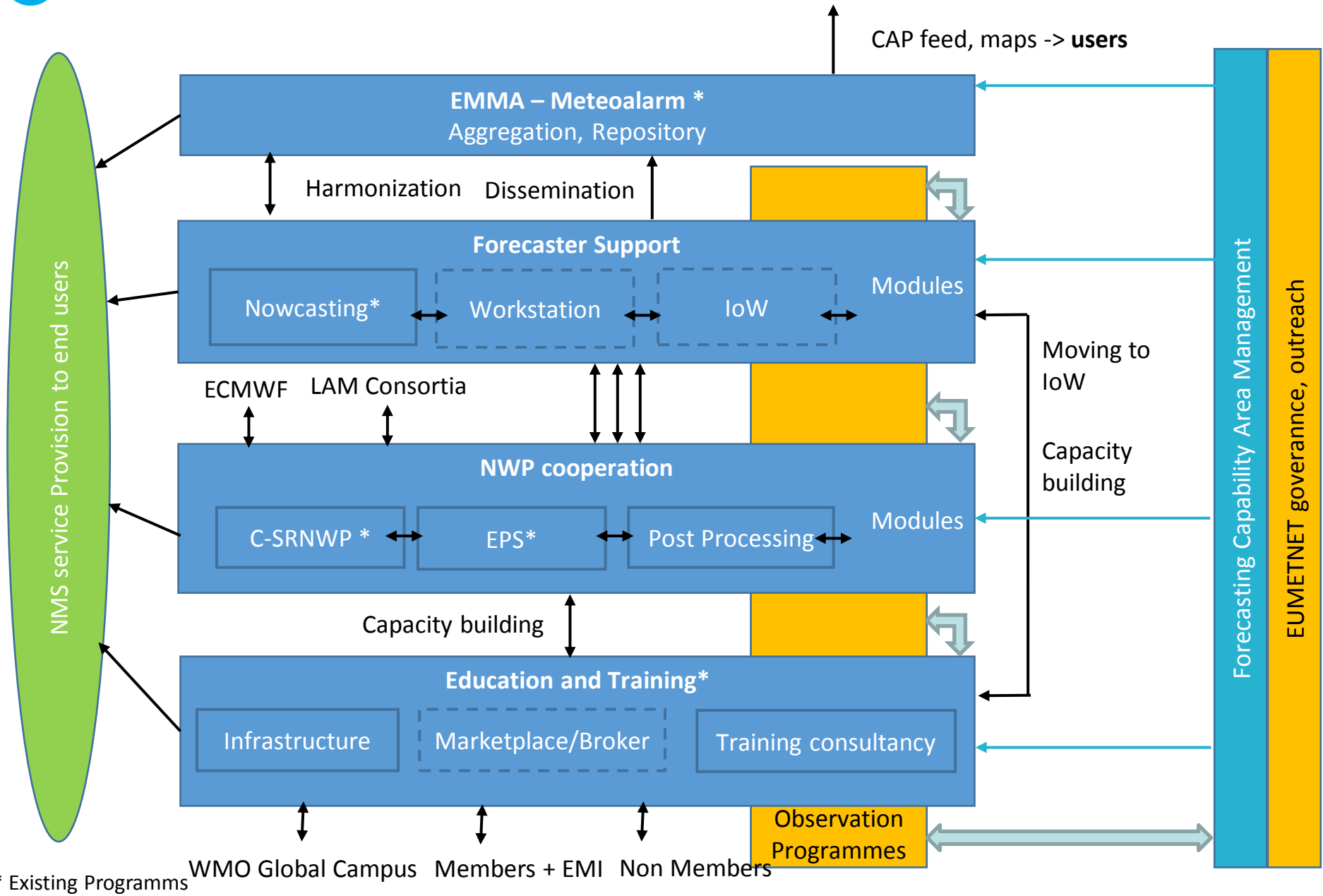
Scientific coordinator, Chiara Marsigli, moved to DWD: impact for next phase

New phase

EUMETNET Observation Capability Area



EUMETNET Forecasting Capability Area



EMMA (ZAMG)

- Operational service
- Support to Members
- Redesign webpage
- Replacing servers
- Information exchange platform, development api's
- New CAP version
- High resolution warnings
- Enhance cooperation with hydro-partners (prev. EMMA-H)
- Social media, interaction with end users
- Multi-hazard concept
- Contribute to WMO/GMAS
- Extending lead times for warnings

Forecaster Support

- Nowcasting (ZAMG)
 - Low budget
 - State of the art of current seamless prediction systems
 - Guidelines for developing seamless prediction systems
 - Intercomparison of nowcasting algorithms (2x)
 - Identification of new observation data
 - Identification of observation data, specifically suited for convection permitting modelling
 - Organisation of European Nowcasting Conference
 - Training of (i) forecasters and (ii) end users, cooperation with Eumetcal (2x)
- Impact oriented Warning
 - No bid received
 - Aiming at start later during 2019
 - Start with common definitions, procedures, protocols, methodologies, best practice
 - Verification

NWP cooperation (RMI)

- C-SRNWP (OMSZ)
 - Coordination of LAM-consortia (HIRLAM, ALADIN, COSMO, LACE, UK, SEECOP)
 - EWGLAM, Obs. impact studies, liaising with academia, work with WMO, ECMWF, training on NWP
 - New items: short term scientific missions, GLDB, contact with NWP community outside Europe, support participation of low-GNI countries
- SRNWP EPS (AEMET, REMET/COMET, Arpae/SIMC)
 - Same set-up: application part, research part
 - Calibration of convection permitting EPS output, focusing on extremes
 - Prob. products for high impact weather: wind gusts, icing, severe convection, wind storms and turbulence, EFI and SOT indices
 - improving the representation of model uncertainties
 - User oriented verification
 - coordinated testing of relevant perturbations on different domains using different MEPS
- Post processing (RMI)

NWP cooperation (RMI)

- Post processing (RMI)
 - New module developed after workshop in Zürich, February 2018, initiative by MeteoSwiss and MetOffice
 - State of the art review
 - Community-led collaboration
 - Activities: e.g. testbeds to compare methods
 - Workshops on statistical pp and machine learning
 - Training for developers
 - Software and data repositories
 - Standards for data and metadata
 - Strategies and experiences on forecaster-machine interaction
 - Close cooperation with SRNWP EPS on ensemble pp

Education & Training (Eumetcal)

- Baseline project is proposed including:
 - Infrastructure
 - Training consultancy
 - needs of NMHSs further examined → Market place (?)
- Cooperation with WMO Global Campus, EUMETSAT
- No bids received → new consortium formed: KNMI, DHMZ
- Adapted proposal assessed → Assembly

Related activities

Heads of Forecasting meetings Warsaw host IMGW-PIB



15-16 May 2018, main theme:

Dissemination of warnings including the use of social media.

One of the main conclusion is that involvement in social media is about interaction and getting a relationship with the public: just sending doesn't result in any relationship



- 25 representatives from 21 countries
- Discussion with ESSL on updated ESFS proposal
- Report from Task Team Storm Naming (meeting on previous day)

Aristotle project (DG ECHO/ERCC)

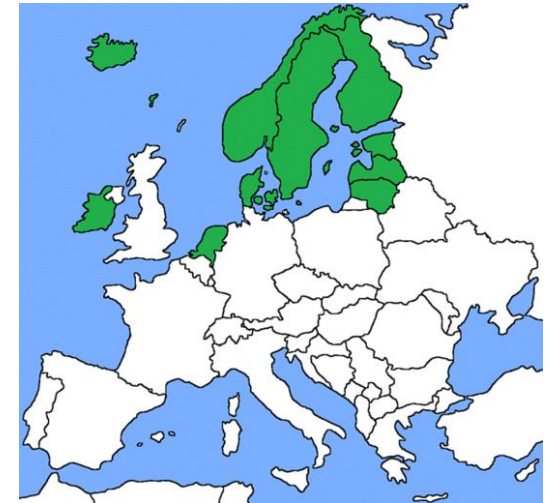
- Pilot Project in the area of Early Warning System for natural disasters (meteo/geo)
- Established ENHSP: European Natural Hazard Scientific Partnership
- First project: Feb 2016 – Jan 2018
- **Second project: Oct 2018 – Sep 2021**
- Coordination: INGV (lead), ZAMG, MetOffice, KOERI
- Other partners: **CIMA**, FMI, SMHI, IPMA, KNMI, **MF**, **ECMWF**, BGS, EMSC, GFZ, NIEP, IWS
- EUMETNET not involved as a partner
- **New hazard: Forest Fires**
- Reduced budget
- **Kick-off: 11 Oct 2018**
- **Start service: 30 Oct**

UWC: United Weather Centres (before: NordNWP)

- Cooperation of 10 countries: Denmark, Sweden, Norway, Finland, Estonia, Latvia, Lithuania, Iceland, Ireland, the Netherlands
- MoU signed: August 2018
- Observer status for NMSs interested to join
- NWP partner: Hirlam-Aladin
- In 2 steps to full operational cooperation (HPC+NWP/EPS) from 2027
- Position paper being drafted

- First step two sub-consortia:
 - Iceland, Denmark, Ireland, the Netherlands, operational from 2023: MoU signed June 2018
 - MetCoOp, already operational cooperation (Norway, Sweden, Finland), to be extended with Baltic states

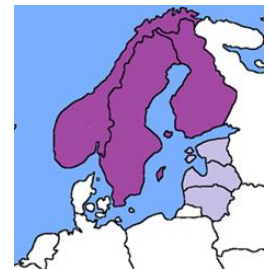
- PM Implementation UWC with two step approach: Dick Blaauboer



UWC



UWC West



UWC East
(MetCoOp)

Crowdsourcing

- Workshop on **crowdsourced data in NWP** and the atmospheric sciences as a whole
- Hosted by **DMI, 4-5 December in Copenhagen**, contact: Kasper Stener Hintz
- Invited experts from Tel Aviv Univ., from Univ. of Reading (data on flooding), Conor McNicholas from Univ. of Washington
- Main aims:
 1. **Gather experts on crowdsourced data focused on NWP**, to start a network
 2. **Producing a white paper** directing the research community towards best practices and guidelines
- more information to be found on: <http://tesla.dmi.dk/crowd/>
- Results of interest to EUMETNET activities (workshops) on CS: Toulouse , May 2017, Helsinki, February 2018
- 3rd EUMETNET WS on CS, will be hosted by MetOffice, **Exeter, 12-13 March 2019**

Global Weather Enterprise, GWE

- FPM attended GWE conference in Amsterdam, 11-12 October 2018, partially joint with WMO-CIMO
- Conference coorganized by WMO, Worldbank (GFDRR) and HMEI, theme “DATA - BUSINESS MODELS AND POLICIES...”
- GWE is a new initiative to reinforce the concepts around PPP and PPE
- GWE is a cooperation between three groups: public sector, private sector, academia
- Relevance for forecasting: high
- First modest attempt in the Forecasting Programme: cooperation with ESSL

EMS: 3-7 Sep. 2018, Budapest

- The EMS Annual Meeting 2018 was held from 3 to 7 September 2018 at the Corvinus University of Budapest, Hungary
- **Session organized by EUMETNET C-SRNWP:**
 - OSA1.10: Challenges in High Resolution Short Range NWP at European level including forecaster-developer cooperation
 - Convener: Balázs Szintai, Co-Conveners: Chiara Marsigli, Emily Gleeson
- **Next EMS Annual Meeting: Lyngby, Copenhagen, 9-13 September 2019**



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