8_Link_with_European_programs

P. Termonia

Paper of the Task Force

- Analysis of the existing situation (LACE comments not yet included in the sent document)
- First proposal (three levels)
- Quick-win actions: back-to-back meetings, Ankara system meeting
  - PAC/HAC meeting
  - Meeting with the LACE PM
  - Discussion with HIRLAM PM

Analysis of a further merge with HIRLAM

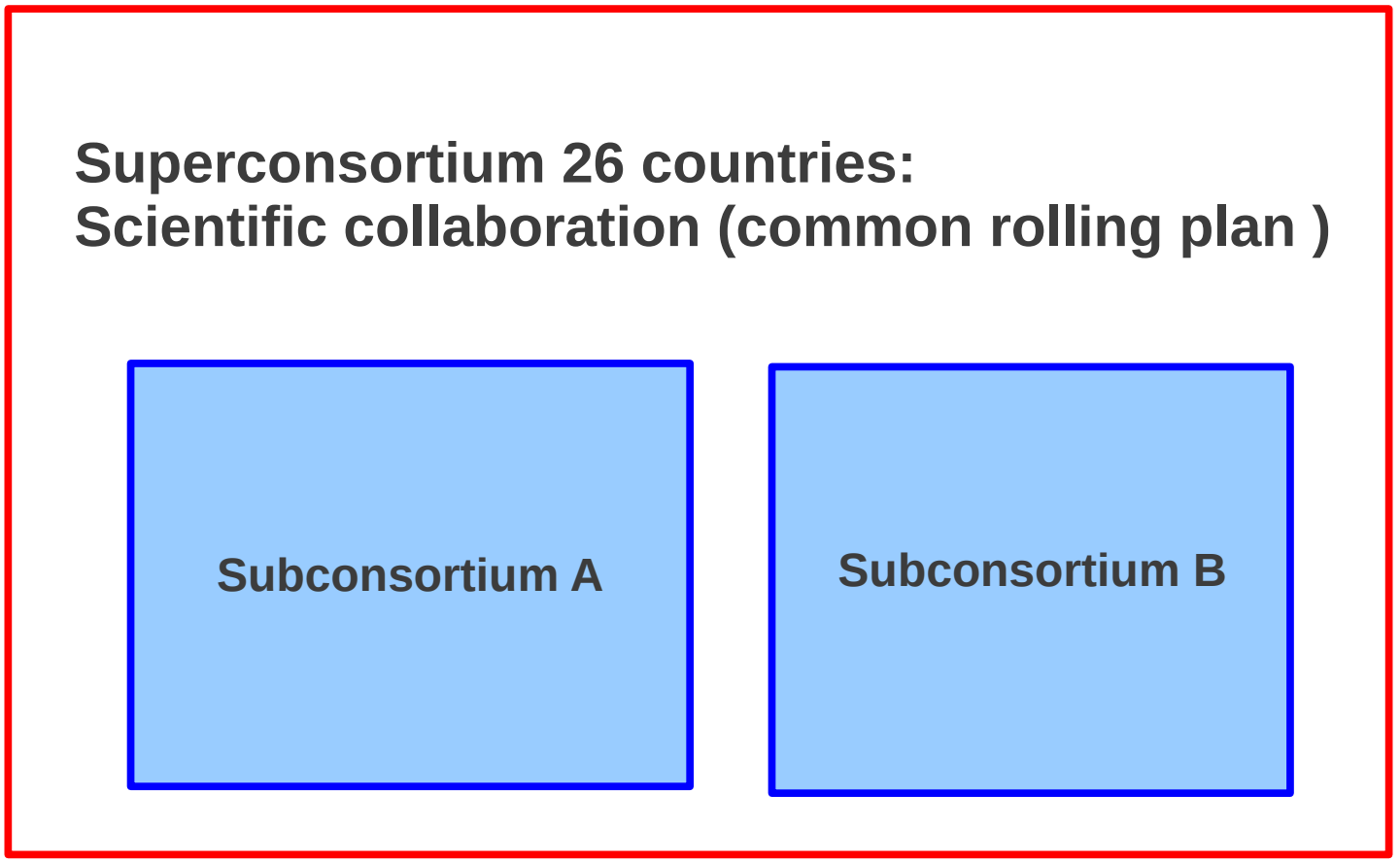
Aspect	*comments*
Data policy	See point 8.1 on the agenda of the GA
Quality assurance (QA)	Verification has three aspects, as discussed under 5_Verification.pdf: quality monitoring, scientific verification and validation of the export cycles. Two common actions have been taken: • the creation of the common HIRLAM-ALADIN **HARP** system for scientific verification (reported under 5), and, the • **Ankara working week**: to investigate whether the HARMONIE system can be used as a common cycle validation. The work is sufficiently common on the HARP tool now, so this does not need special attention. In view of the analysis of a potential further merge the second bullet is being addressed. This goes under the name Quality Assurance (QA).
Data handling	In practice in ALADIN this is commonly organized in the LACE subconsortium, see **OPLACE**
Code collaboration: implementing scientific output in the code and "declaring" operational code version, i.e. so-called export cycles.	Can not be organized in a subconsortium alone, we need cross-consortia coordination here.

Everything is conditional to having clarity on the intentions on data policy!

Additional comments (from LACE)

- The “political” importance of LACE in the merge process is rather very limited, and little mentioned,
- There are concerns on the efficiency of such a super consortium, and questions on whether such a consortium with 26 members is still manageable or not.
- LACE would appreciate very much the well-defined procedures and competencies concerning common code maintenance.
- In the convergence of system maintenance, the convergence of the codes via common interface should have higher priority, which has been often discussed.

Option B: super-consortia with subconsortia



Where to put what?
- Data policy
- Code management
- Quality assurance
- Data handling

An existing situation ALADIN

Superconsortium 16 countries

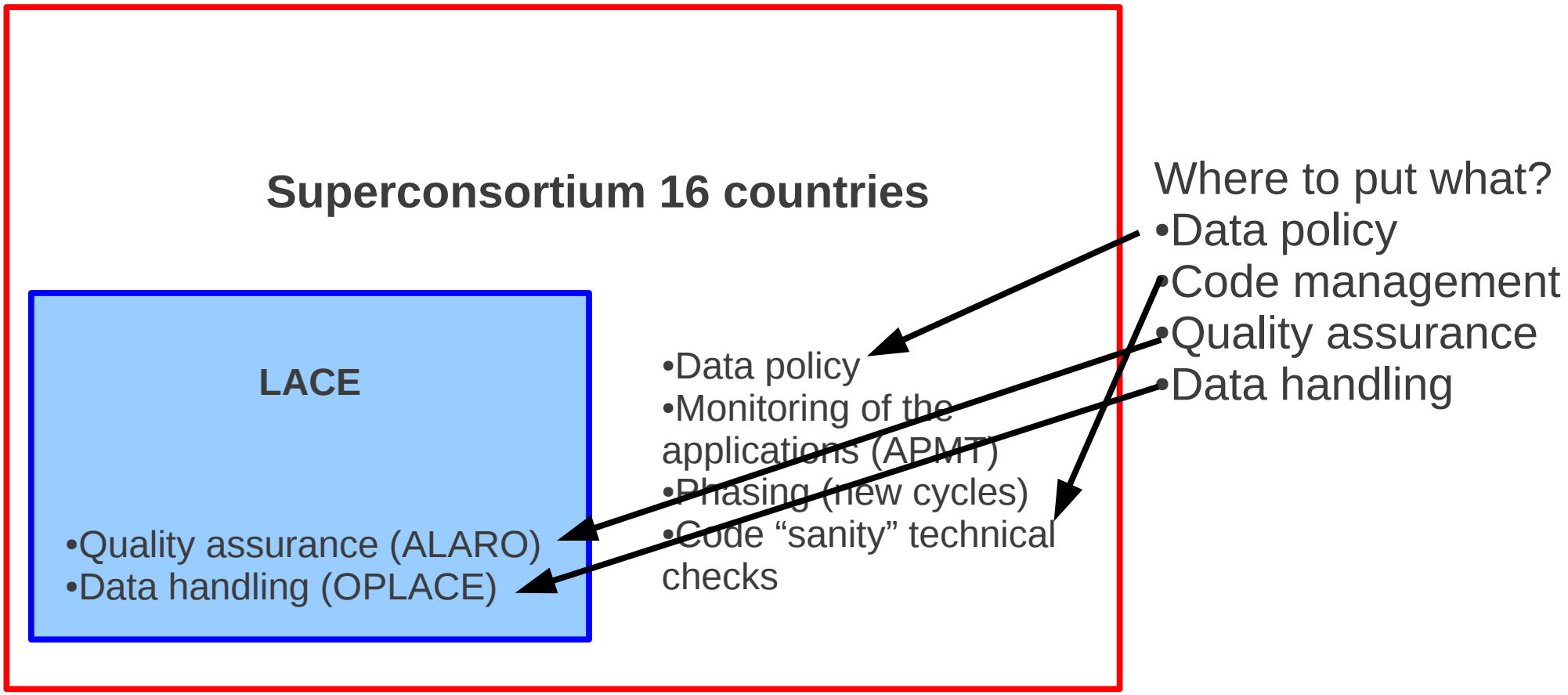
LACE

•Quality assurance (ALARO)
•Data handling (OPLACE)

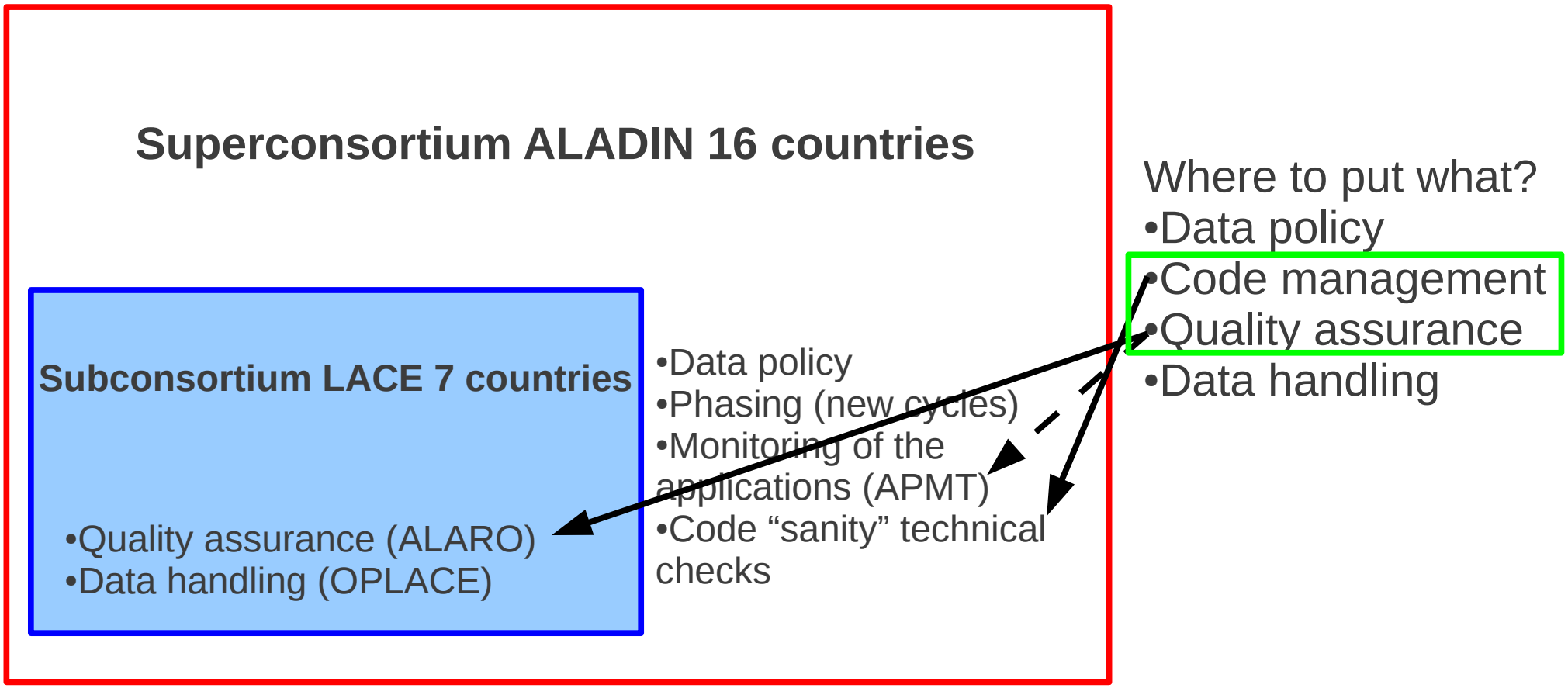
•Data policy
•Monitoring of the applications (APMT)
•Phasing (new cycles)
•Code “sanity” technical checks

Where to put what?
•Data policy
•Code management
•Quality assurance
•Data handling

An existing situation ALADIN



An existing situation ALADIN



ALADIN Consortium

General Assembly (GA)

supreme governing body of the ALADIN Consortium

Chairperson : Klemen Bergant (Si)

Vice-Chairperson : Abdalah Mokssit (Ma)

Director of each of the Members (Dz, At, Be, Bg, Hr, Cz, Fr, Hu, Ma, Pl, Pt, Ro, Sk, Si, Tn, Tr)

Observers from HIRLAM and ECMWF

Program Manager (PM)

main executive officer of the ALADIN Consortium

Piet Termonia (Be)

« Bureau »

GA chairperson, PAC chairperson, CSSI chairperson, PM

Policy Advisory Committee (PAC)

advisory body

Chairperson : Michael Staudinger (Au)

Vice-Chairperson : Fatih Buyükkasabbasi (Tk))

2 MF Members :

- Philippe Bougeault (Fr)
- Alain Joly (Fr)

(subst. Gwenaëlle Hello)

2 RC-LACE Members :

- Radmila Brozkova (Cz)
- Vladimir Pastircak (Sk)

(subst. Dijana Klaric (Hr))

2 Flat-rate Members :

- Abdalah Mokssit (Ma)
- Maria Monteiro (Pt)

(subst. Daniel Gellens (Be))

Observers :

- LACE Project Manager
- Chairperson of CSSI
- Chairperson of HIRLAM Advisory Committee

Programme Team

Local Team Managers

Dz : Abdelhak Razagui
At : Christoph Wittmann
Be : Alex Deckmyn
Bg : Valery Spiridonov
Hr : Alica Bajic
Cz : Radmila Brozkova
Fr : Claude Fischer
Hu : Gergely Boloni
Ma : Hassan Haddouch
Pl : Marek Jerczynski
Pt : Maria Monteiro
Ro : Doina Banciu
Sk : Jozef Vivoda
Si : Neva Pristov
Tn : Zied Sassi
Tr : Ersin Kucukkaraca

Project Team

all manpower committed by Members and acceding Members

Committee for Scientific and System/maintenance Issues (CSSI)

Chairperson : **Claude Fischer** (Fr)

ALADIN Coordinator for Networking Activities (ACNA) : Maria Derkova

Data assimilation : Claude Fischer

Dynamics and LBC coupling : Pierre Bénard

Maintenance : Ryad El Khatib

Numerical efficiency issues : Martina Tudor

Observations and Monitoring : Alena Trojakova

Physics : Daan Degrauwe

Predictability and LAM EPS : Alex Deckmyn

Surface : Jean-François Mahfouf

Verification : Christoph Zingerle

Responsible Member for LAM Climate : Ales Farda

Support Team

Consortium level cooperation support (LACE) : Yong Wang

Consortium level cooperation support (MF) : Claude Fischer

Documentation officer : ????

Information officer : Maria Derkova

Administration and PM assistance : Patricia Pottier

Secretarial support : Jean Maziejewski

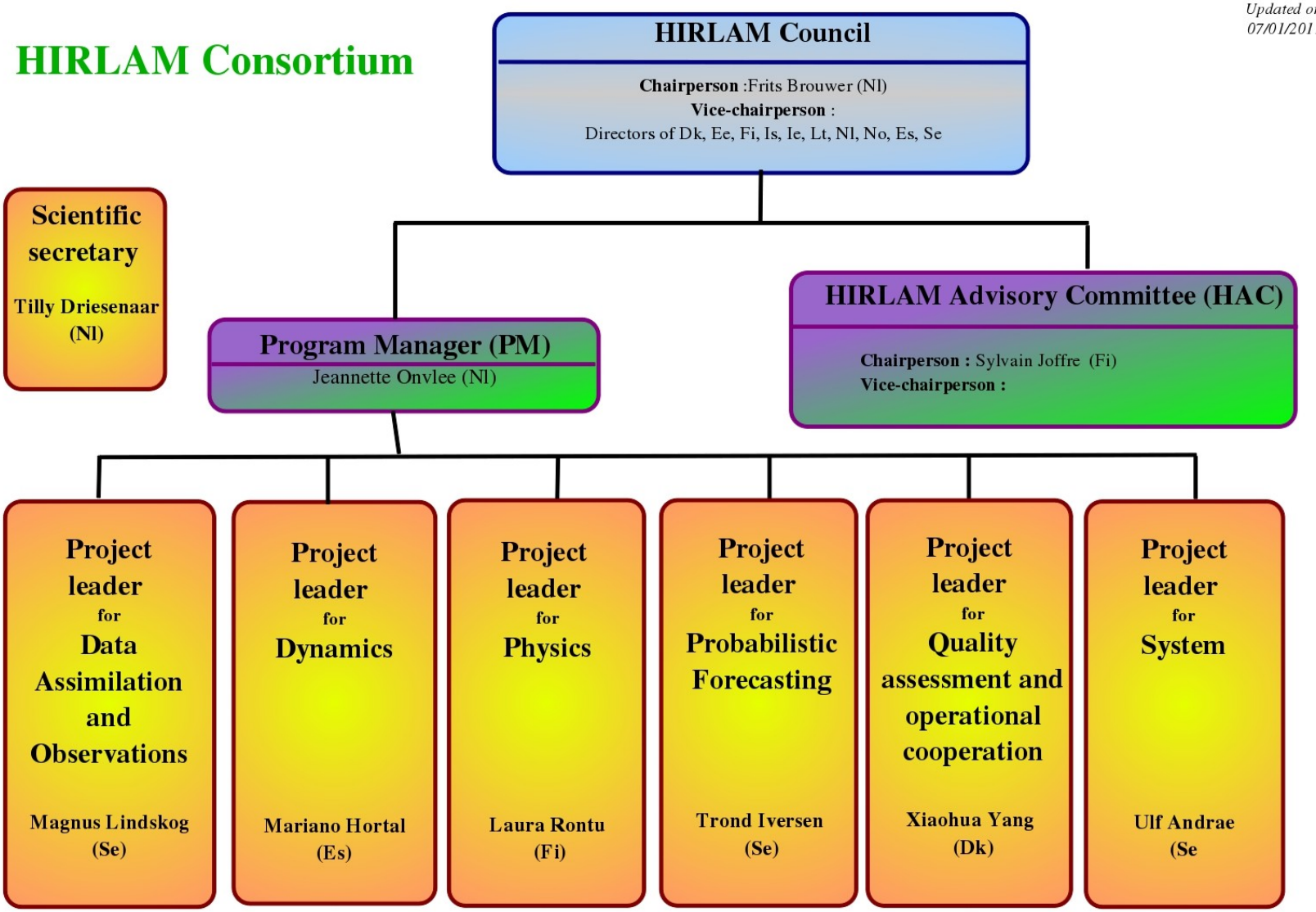
Task Force 1 | **Task Force 2** | **Task Force 3**

HIRLAM Consortium

CNRM/GMAP, Patricia Pottier on 22/10/2013

HIRLAM Consortium

Updated on 07/01/2011

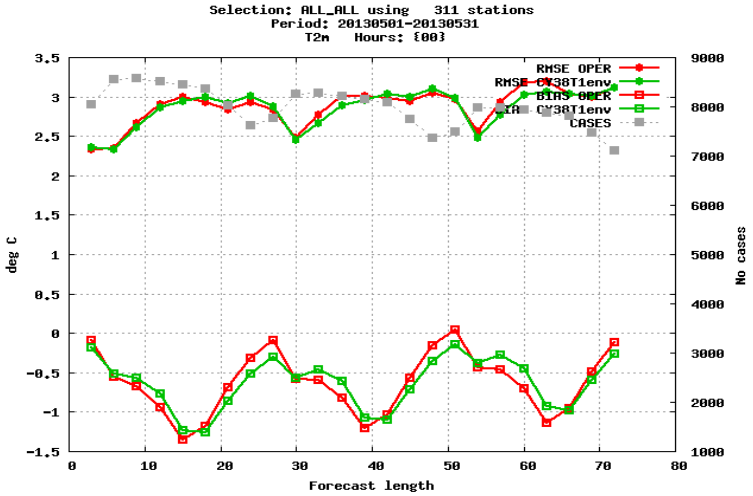


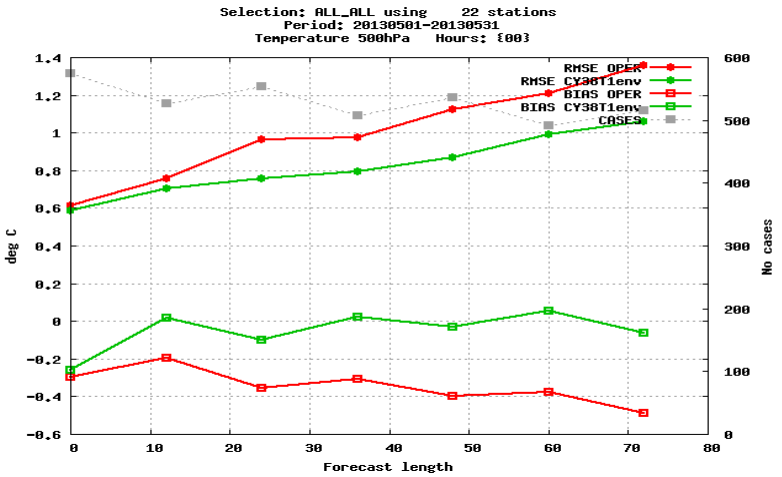
Code management/quality assurance in ALADIN andHIRLAM

- We should well articulate the differentiation between code management and quality assurance.
- The common ground is located in the validation of the cycles (sanity check vs. meteorological performance).
- We should do that together, i.e. HIRLAM and ALADIN should “validate” and “declare” export cycles together. A common platform is beneficial.
- Hence the Ankara meeting. To investigate the HIRLAM practice.
- Idea: what about a “financed” overarching system expert(s)?

Ankara WW

Compilation of the export version (38T1bf3) versus current operational model by using Harmonie tools





Current operational suite:

Model version: cy36T1

ALARO-0 with 3MT

- 4.5 km horizontal resolution
- 60 vertical model levels
- Digital filter initialization
- ARPEGE LBC
- hydrostatic

(38T1bf3 is non-hydrostatic)

Proposal: the HARMONIE system can provide a basis for a future common platform, for common ALADIN-HIRLAM code version validations, provided we decelop it further, the requirements are in the document. Then we should aim at a common validation of a next cycle.

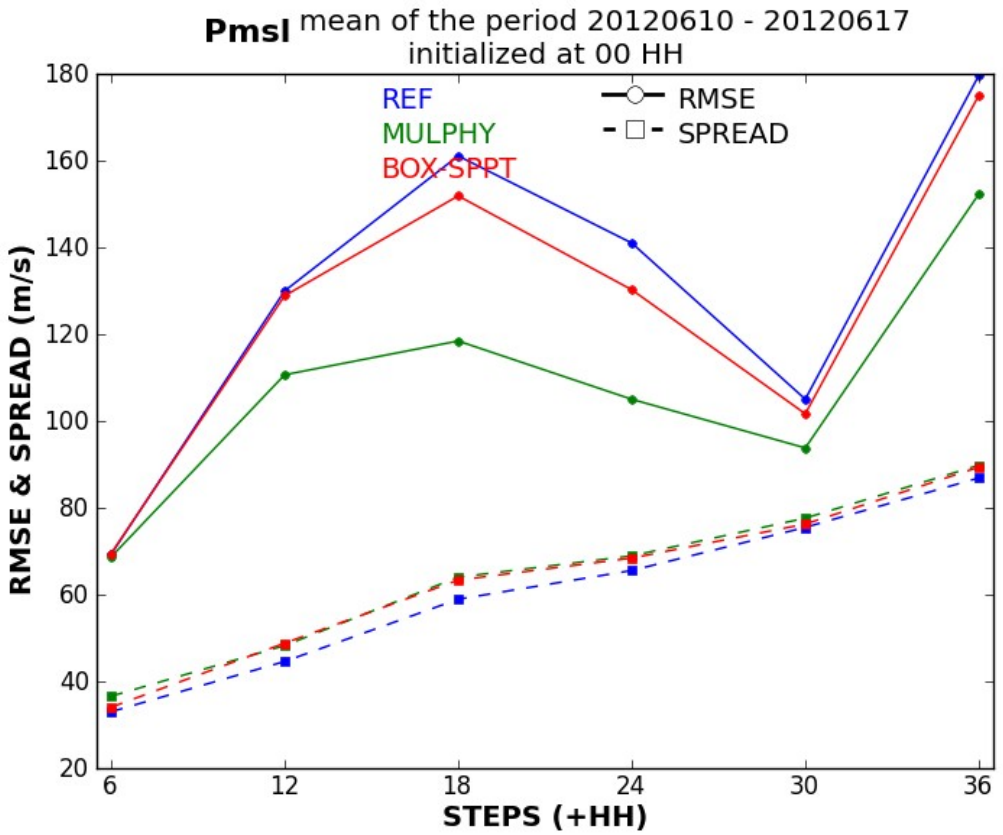
System WW + FR stays for next year.

Status, TODO

- Further develop the *HARMONIE system*
- Aim at a common validation of AROME and the ALARO baseline *configurations* of the code
- The *physics dynamics interface action*, to articulate the “configurations” to be validated.
- What ambitions at what level?

Convection-permitting EPS

Convection-permitting EPS (2.5 km resolution), SRNWP meeting Madrid in June



- A first protoype of a convection permitting EPS was tested.
- The first one was with AROME members only (red).
- Then it was extended with ALARO members (parameterized deep convection) (green line)
- The RMSE decreased, SPREAD stays the same

Courtesy Alfons Callado Pallarès