6. MoU5 & ALADIN-HIRLAM agreement

Piet Termonia

ALADIN GA 8-9/1/2016

2. ALADIN and HIRLAM consortia will work together with the aim of forming one single consortium by the end of the 2016-2020 MoUs. To this aim, the following issues have to be resolved:

- code ownership (software IPR) : current situation and suitable evolutions. In particular advantages vs drawbacks of open source solutions should be assessed;
- data policy (access to model outputs) ; to this aim a map of the various current operational configurations of the limited area system should be produced and scenarios for data dissemination should be assessed;
- global picture of annual contribution of countries to the various types of activities (from fundamental research to code implementation);
- identification of common activities and specific activities (possibility of core and optional programs);
- branding (including suitable evolution of the name of the system).

4. Both PM will report every six months on those issues to the consortia governing bodies.

Actions undertaken

- The redaction of the MoU and the ALADIN-HIRLAM (AH) agreement was the first priority. Since the two are linked though most of the issues mentioned in the Declaration and since ALADIN MoU5 and the AH agreement should be consistent, this was carefully planned to give the PAC the HAC and the HIRLAM Council sufficient time to iterate. There is still the remaining issue at the time of writing of the AH common agreement. But note that the old one will remain valid if it is not replaced by a new one. And this is not an obstacle for the signature of the new ALADIN MoU5.

- The main innovation is the introduction of the notion of CMCs and the creation of the position of the Code Architect (CA). This is a necessary step to allow to

  - better define the collaboration as a “code collaboration”;

  - identify better the contribution to the code;

  - identify better the needed human resources..

  The precise definition of the CMCs be worked out in its practical details during the next year.

- The paper issued by PAC (6_ALADIN_reponse_SMHI.pdf), addressing the issues of the code ownership and also the data policy in preparation of the AH common agreement.

- ***Recently a new document was added in 6_MF_proposal4commerce.pdf: to be discussed here***

ALADIN-HIRLAM Code Agreement

7.1 ALADIN and HIRLAM will co-operate in a number of areas. The co-operation, initially organised around the shared ALADIN- HIRLAM System defined above, will evolve towards a full ALADIN-HIRLAM Common System based on common codes. At a precise stage during the term of this Agreement and after successful collaboration, all of the respective ALADIN and HIRLAM Common Codes will be regarded as ALADIN - HIRLAM Common Codes upon a joint decision by the ALADIN Assembly and HIRLAM Council, including appropriate arrangements for co-ownership. Both Consortia will seek arrangements with third parties to convert other shared codes into ALADIN -HIRLAM Common Codes.

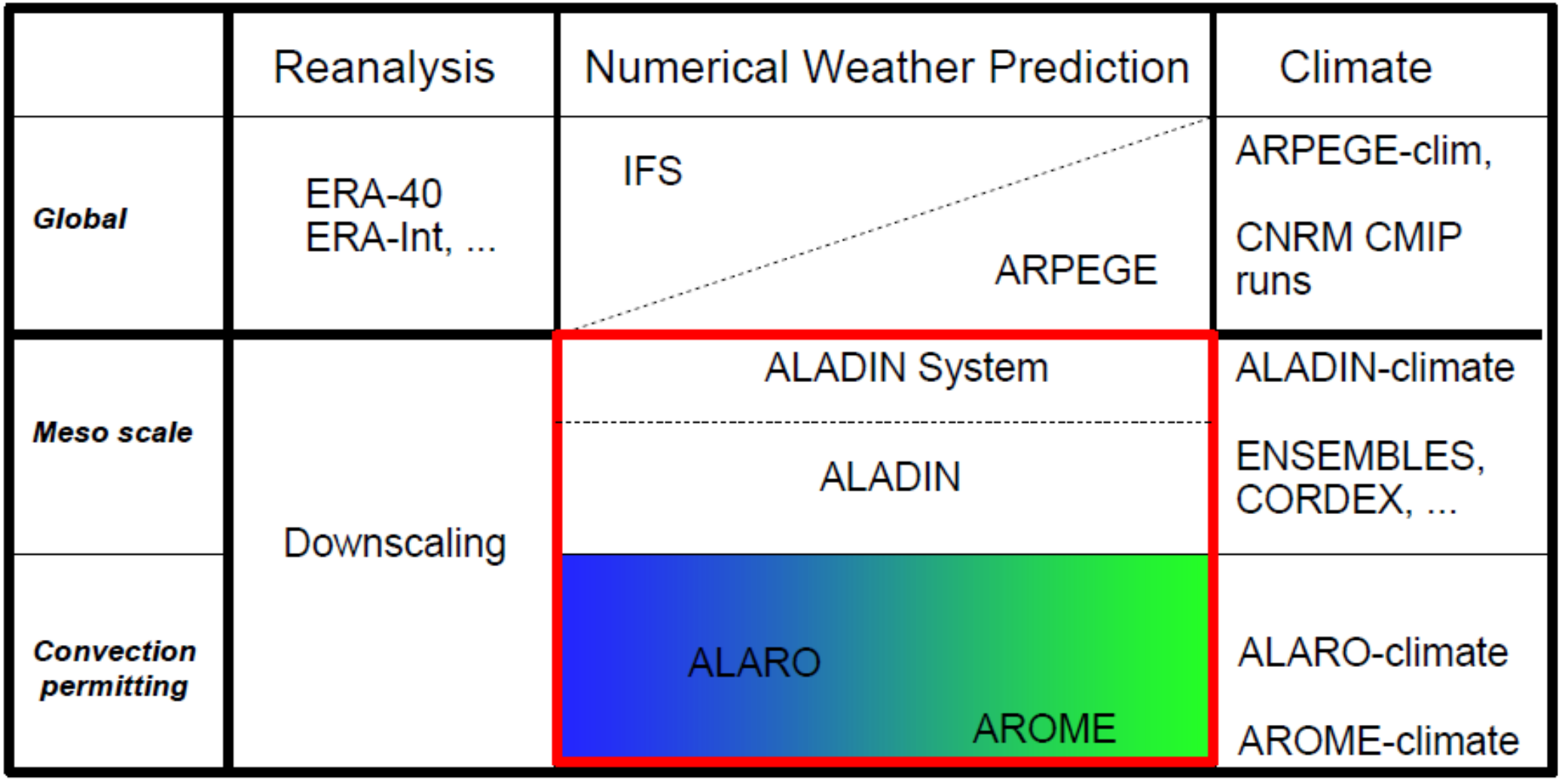
Proposed next steps.

- The proposal of the ALADIN PAC to draw up the list of ALADIN-HIRLAM common codes. This list is currently empty (and it is not clear what is in the list of HIRLAM codes, since this should be present in the HIRLAM repository). The ALADIN CA will be tasked this year with this action.
- The redaction of a scientific paper (to be submitted to the journal GMD). This will allow to identify the scientific legacy of the ALADIN consortium and can be seen as the definition part of the previous task.
- Create further clarification on the *existing* “brands”: the ALADIN System and HARMONIE (see minutes of the extraordinary PAC meeting).

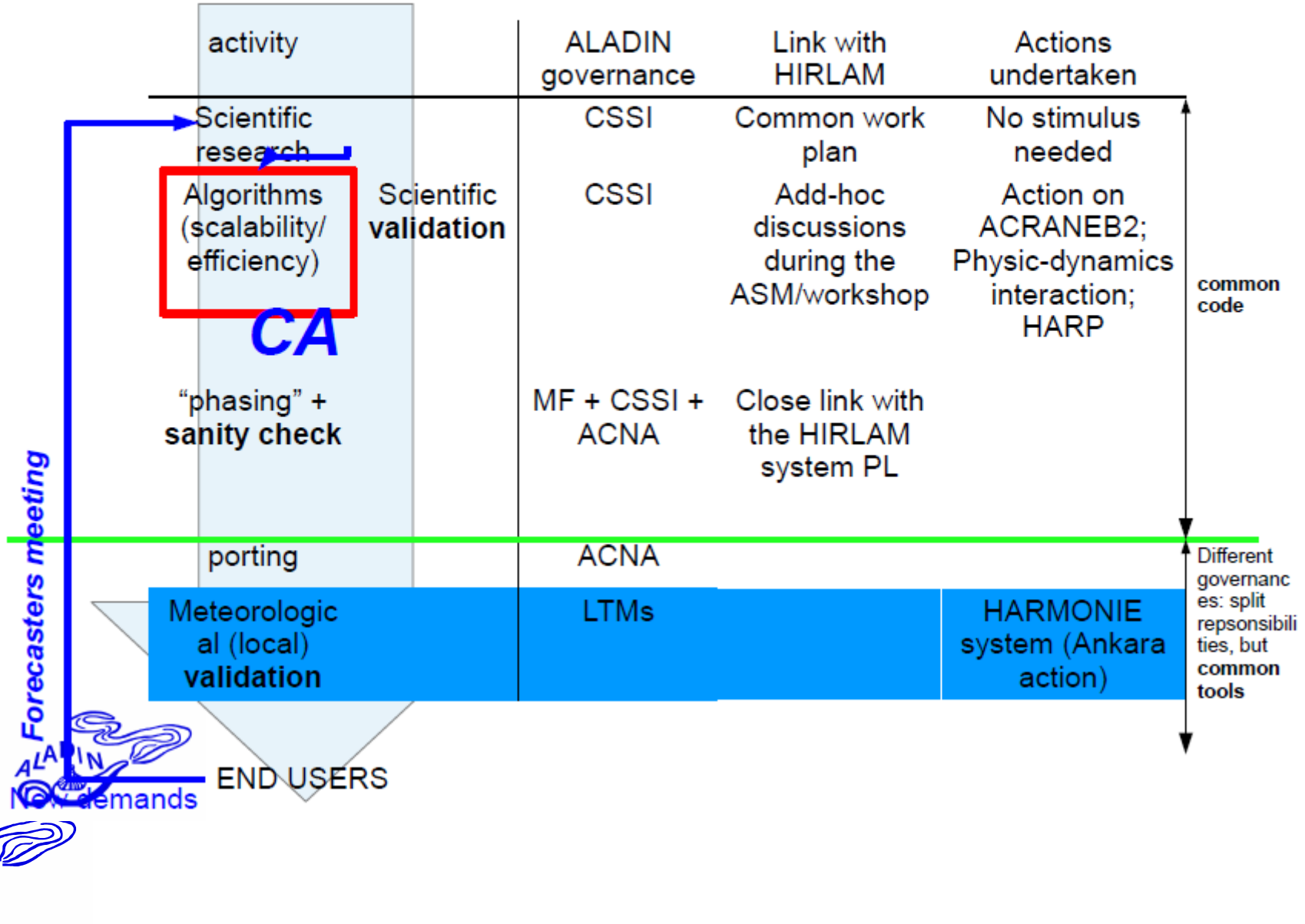
Licences

RMI (Be)	Ghent university (CORDEX runs)
CHMI (Cz)	ChechGlobe (climate): the licence expired at the end of 2015 – aligned with the validity of the MoU
OMSZ (Hu)	ALADIN/Chapeau at the Eötvös Loránd University, but discontinued due to lack of manpower
ARSO (Si)	CHAPEAU University of Ljubljana, Faculty of Mathematics and Physics, Meteorology group, for teaching some years ago
TSMS (Si)	plan to share it with Istanbul Technical University-Meterological Engineering Dep

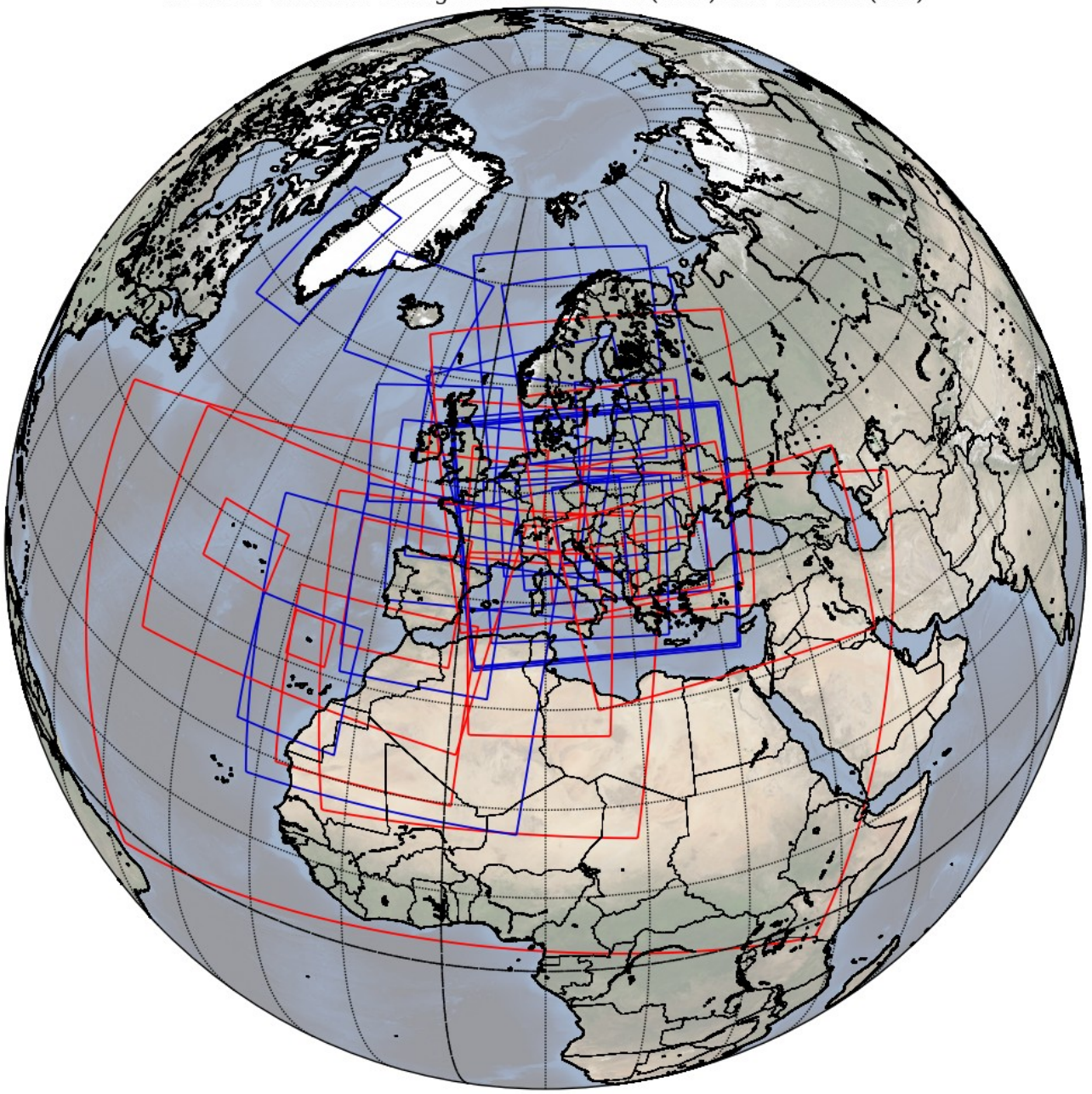
The ALADIN System



From science to operations summarized on 1 sheet

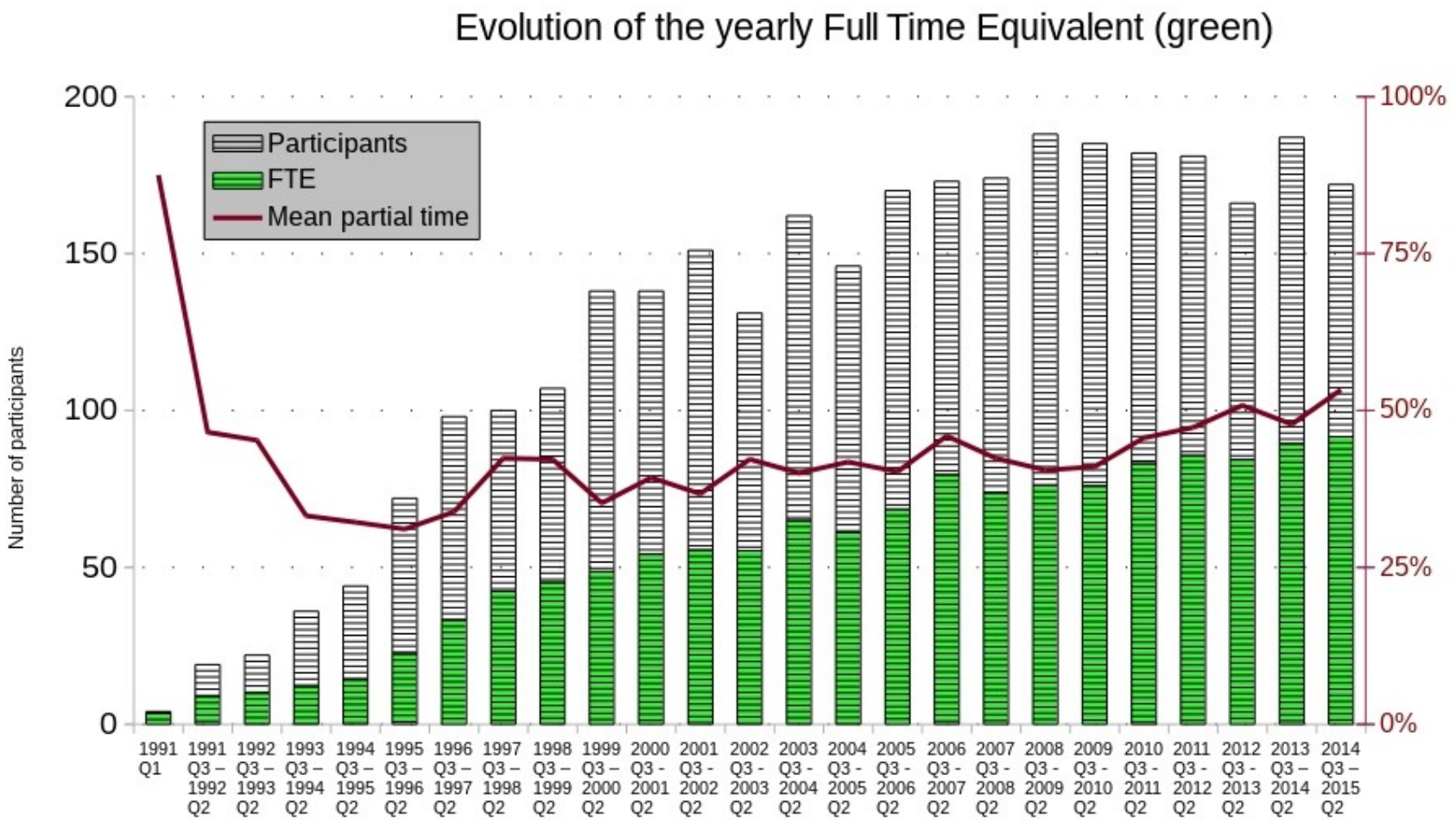


ALADIN-HIRLAM configurations with DA (blue) and without (red)



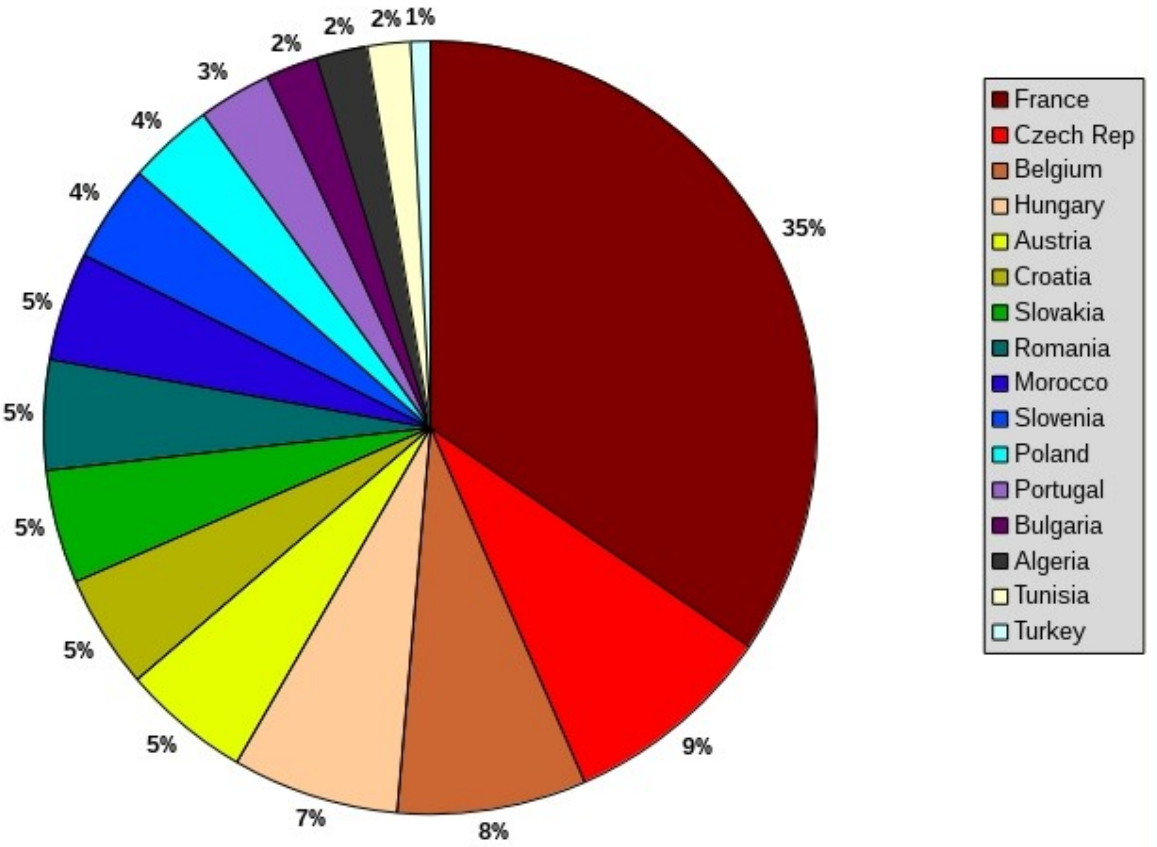
Algeria: ALADIN-ALGE
Austria: ALARO5
Austria: AROME-Au
Belgium: ALARO-7km
Belgium: ALARO-4km
Bulgaria: ALADIN-Bg
Croatia: ALARO-88
Croatia: ALARO-22
Czech Rep: ALARO-Cz
Denmark: AROME-DKA
Denmark: AROME-GLB (SWGre
Finland: AROME-FMI
France: AROME-France
Hungary: ALADIN-determinist
Hungary: AROME-HU
Iceland: AROME-IMO
Ireland: AROME-IRELAND25
Lithuania: AROME-LHMS
Morocco: ALADIN-Mo1
Morocco: ALADIN-Mo2
Morocco: AROME Maroc
Netherlands: AROME-KNMI
No&Se: AROME-MetCoOp
Poland: ALARO-E040
Poland: AROME-P025
Portugal: ALADIN-ATP
Portugal: AROME-PT2
Portugal: AROME-Madeira
Portugal: AROME-Azores
Romania: ALARO-Ro2
Slovakia: ALARO-Sk
Slovenia: ALARO-sis4
Spain: AROME-IBERIA
Spain: AROME-CANARIAS
Tunisia: ALADIN-Tn
Turkey: ALARO-Tk

Total participation in the ALADIN project



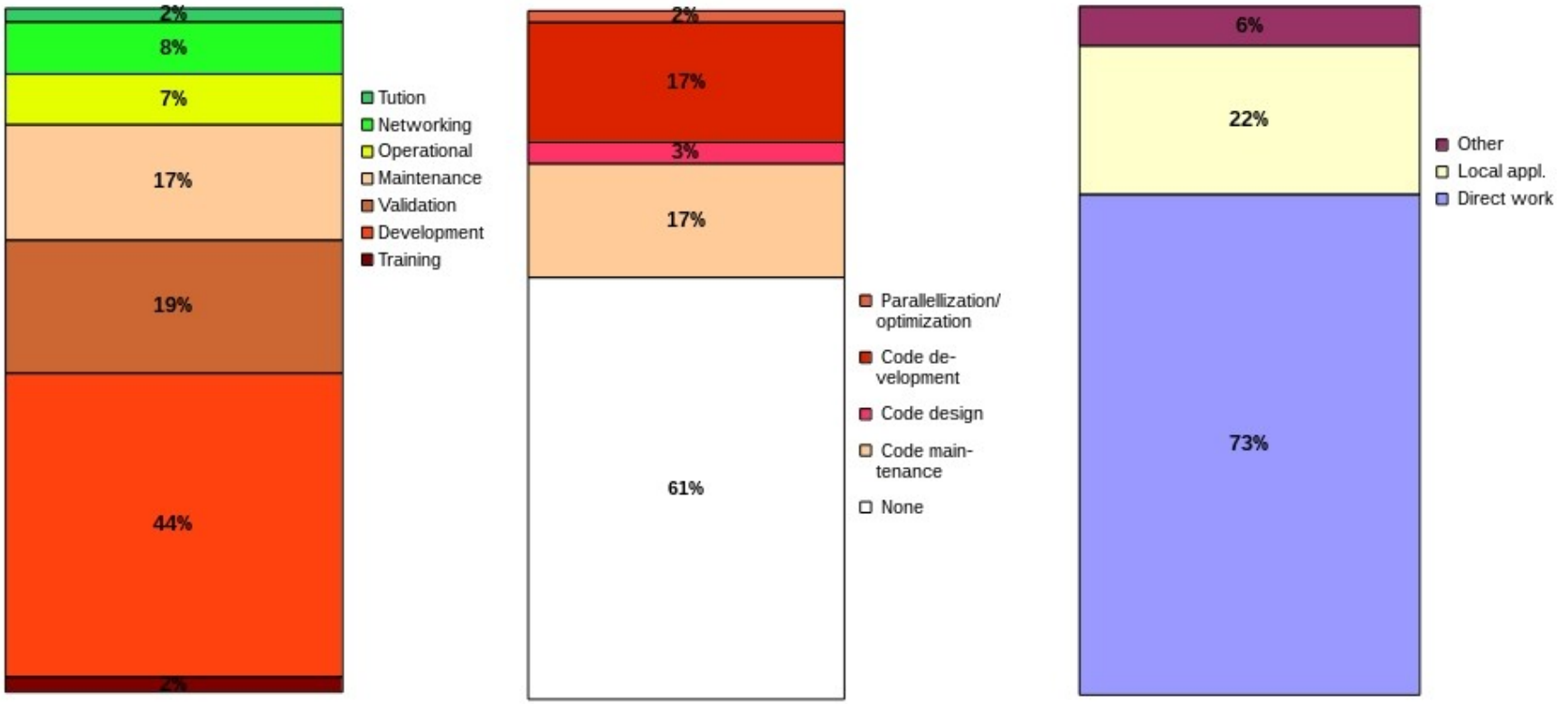
Participation in the ALADIN project since 1991

Breakdown of the person.months by country



Updated 1 July 2015

Breakdown of the ALA DIN manpower since Jan. 2012



Updated 1 July 2015

Discussion data policy

6 MF proposal 4 commerce

Overlaps of the national domains

Operational configurations		RUN OVER															
		Algeria	Belgium	Bulgaria	Morocco	Poland	Portugal	Tunisia	Turkey	Austria	Croatia	Czech Rep	Hungary	Romania	Slovakia	Slovenia	France
RUN BY	Algeria	**ALADIN 12**					ALADIN 12	ALADIN 12			ALADIN 12					ALADIN 12	
	Belgium		**ALARO 4**														
	Bulgaria			**ALADIN 7**													
	Morocco	ALADIN 18	ALADIN 18	ALADIN 18	**AROME 2.5**		ALADIN 10	ALADIN 18	ALADIN 18	ALADIN 18	ALADIN 18	ALADIN 18	ALADIN 18	ALADIN 18	ALADIN 18	ALADIN 18	ALADIN 18
	Poland		ALARO 4	ALARO 4		**AROME 2.5**				AROME 2.5	ALARO 4	AROME 2.5	AROME 2.5	ALARO 4	AROME 2.5	AROME 2.5	
	Portugal						**AROME 2.5**										
	Tunisia							**ALADIN 12**									
	Turkey			AROME 2.5					**AROME 2.5**		ALARO 4.5			ALARO 4.5		ALARO 4.5	
	Austria		ALARO 5							**AROME 2.5**	AROME 2.5	AROME 2.5	AROME 2.5		AROME 2.5	AROME 2.5	
	Croatia									ALARO 8	**ALARO 2**	ALARO 8	ALARO 8		ALARO 8	ALARO 2	
	Czech Rep		ALARO 4.7	ALARO 4.7		ALARO 4.7				ALARO 4.7	ALARO 4.7	**ALARO 4.7**	ALARO 4.7	ALARO 4.7	ALARO 4.7	ALARO 4.7	
	Hungary		ALARO 8	ALARO 8		ALARO 8				ALARO 8	ALARO 8	ALARO 8	**AROME 2.5**	ALARO 8	AROME 2.5	AROME 2.5	
	Romania			ALARO 6.5									ALARO 6.5	**ALARO 6.5**	ALARO 6.5		
	Slovakia		ALARO 9	ALARO 9		ALARO 9				ALARO 9	ALARO 9	ALARO 9	ALARO 9	ALARO 9	**ALARO 9**	ALARO 9	
	Slovenia		ALARO 4.4							ALARO 4.4	ALARO 4.4	ALARO 4.4	ALARO 4.4		ALARO 4.4	**ALARO 4.4**	
	France		AROME 1.3														**AROME 1.3**

ALADIN/ALARO/AROME configurations horizontal resolution in km with DA without DA

Domains per country

Algeria

ALADIN-HIRLAM model configurations run by Algeria

1. Algeria: ALADIN-ALGE

Austria

ALADIN-HIRLAM model configurations run by Austria

2. Austria: ALARO5
3. Austria: AROME-Au

Belgium

ALADIN-HIRLAM model configurations run by Belgium

4. Belgium: ALARO-7km
5. Belgium: ALARO-4km

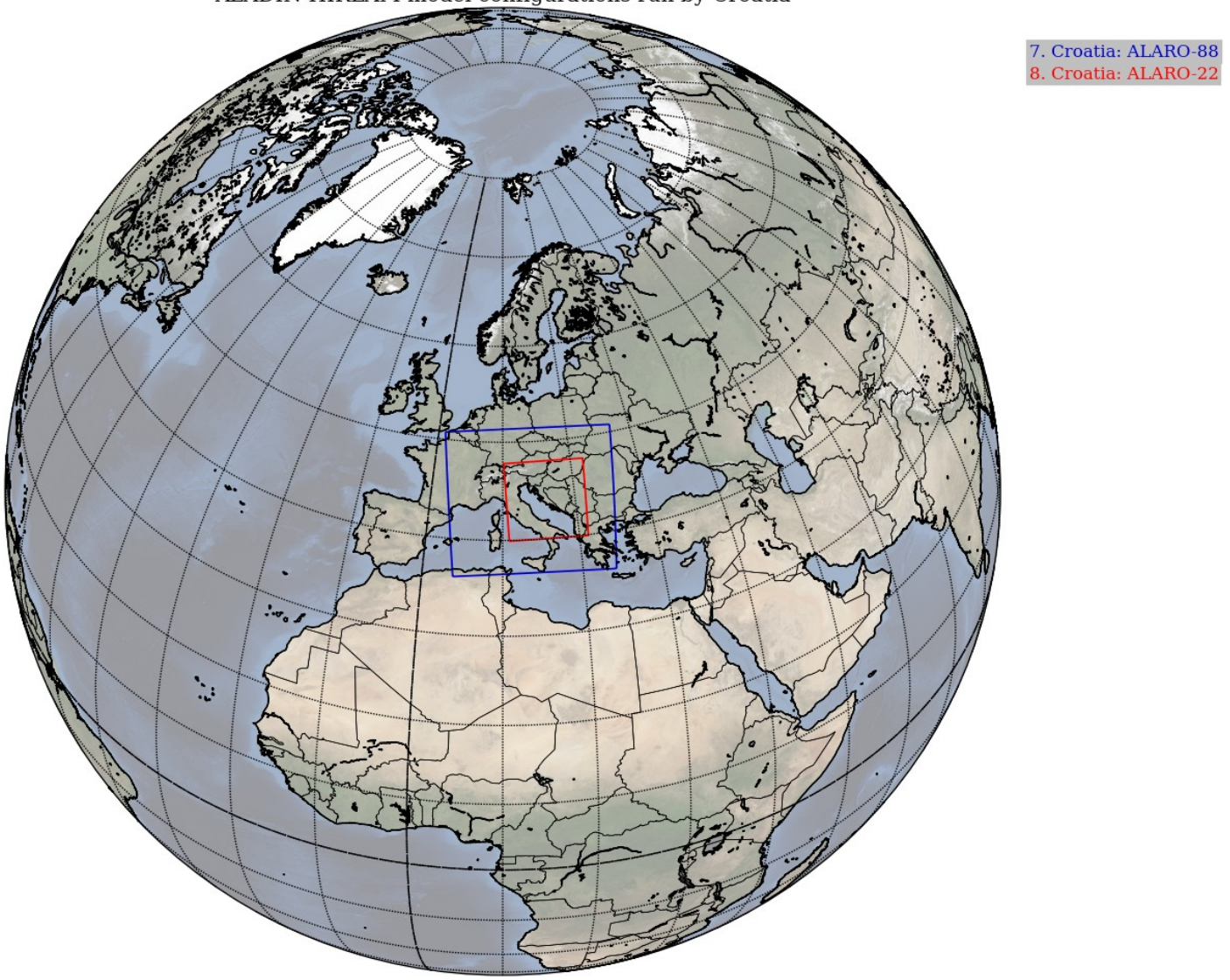
Bulgaria

ALADIN-HIRLAM model configurations run by Bulgaria

6. Bulgaria: ALADIN-Bg

Croatia

ALADIN-HIRLAM model configurations run by Croatia



Czech Republic

ALADIN-HIRLAM model configurations run by Czech Rep

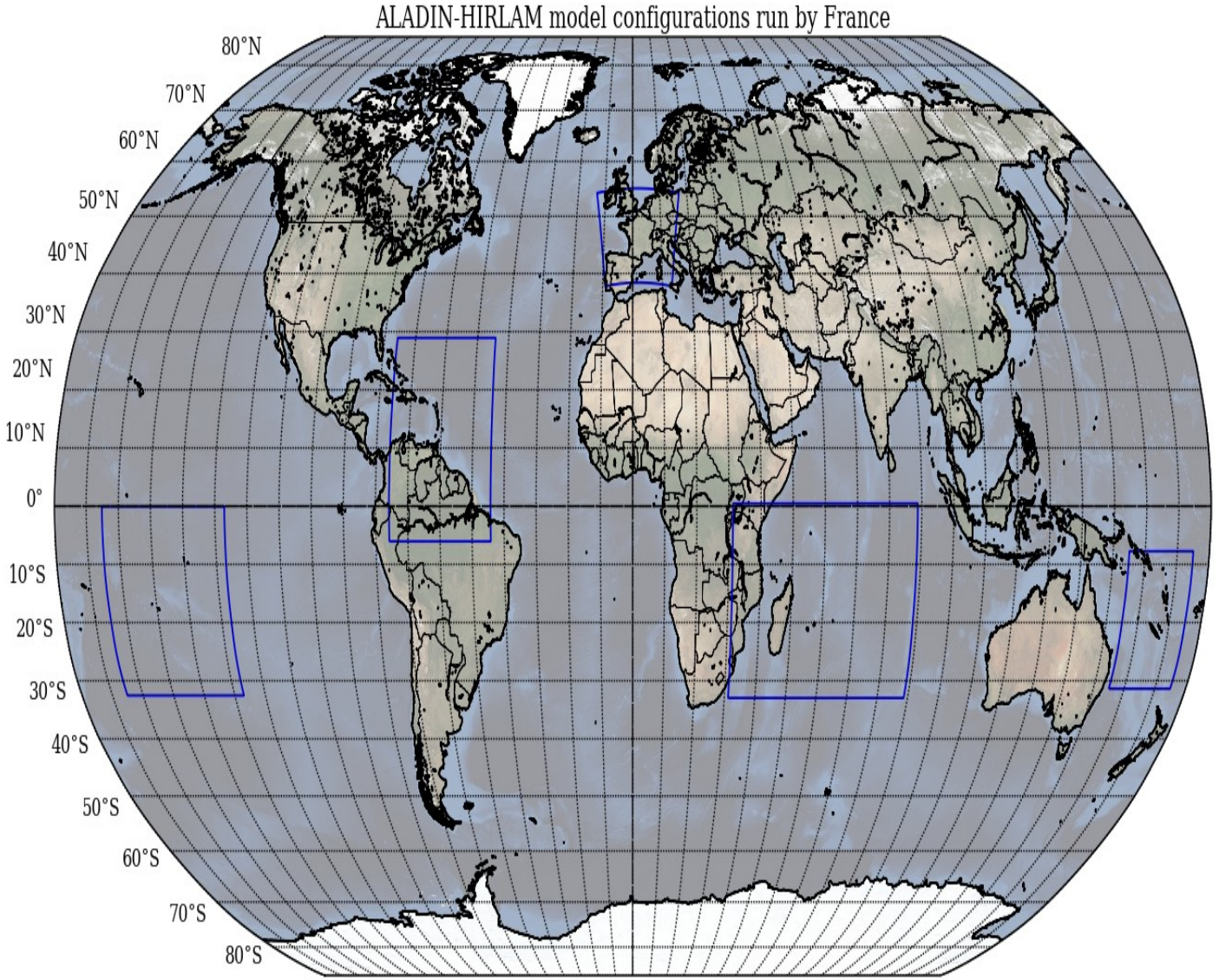
9. Czech Rep: ALARO-Cz

France

ALADIN-HIRLAM model configurations run by France

13. France: AROME-France
39. France: ALADIN-Ant-Guyana
40. France: ALADIN-Caledonia
41. France: ALADIN-Polynesia
42. France: ALADIN-Reunion

France (oversee)

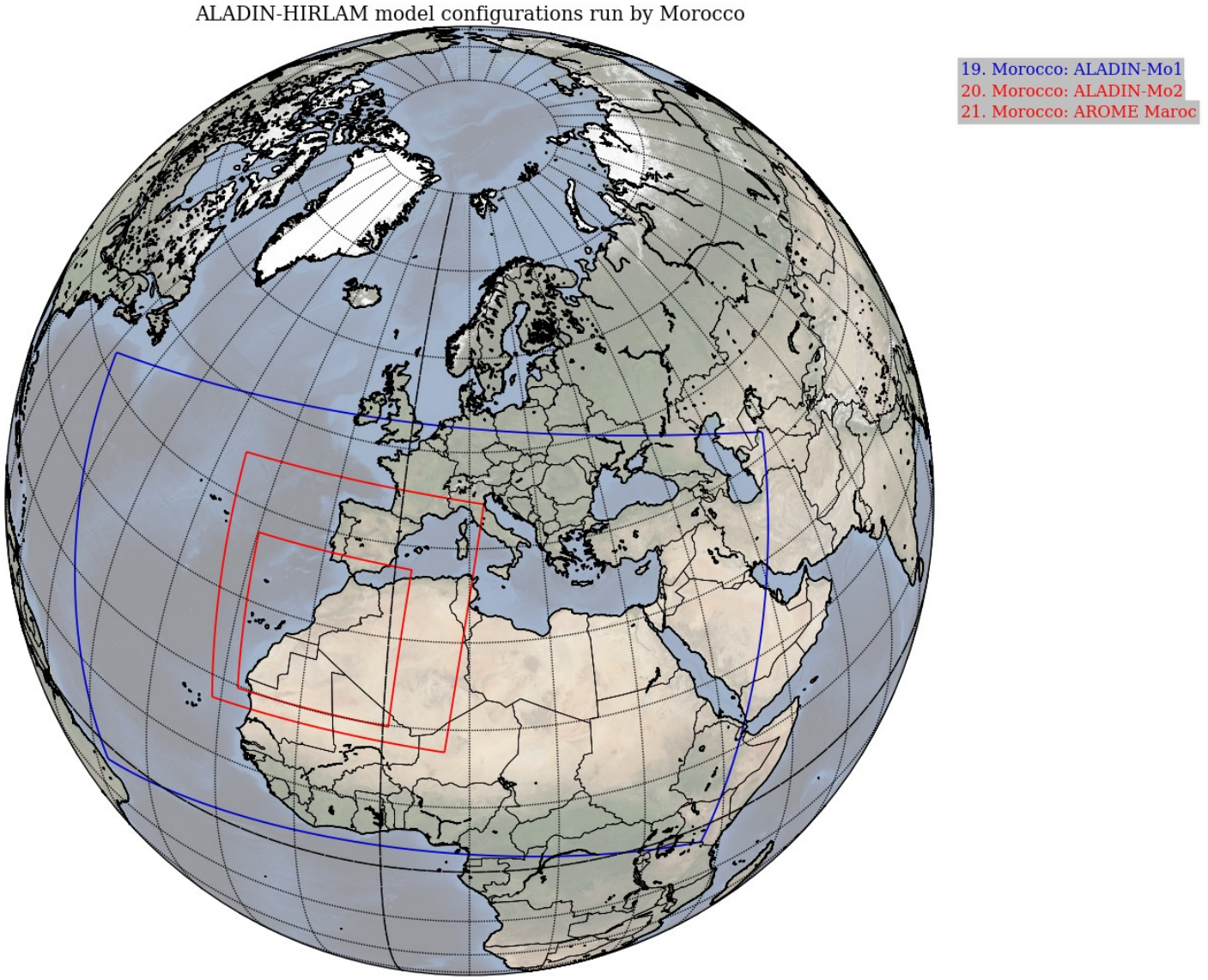


Hungary

ALADIN-HIRLAM model configurations run by Hungary

14. Hungary: ALARO-HU-determinist
15. Hungary: AROME-HU

Morroco


ALADIN-HIRLAM model configurations run by Morocco
19. Morocco: ALADIN-Mo1
20. Morocco: ALADIN-Mo2
21. Morocco: AROME Maroc

Poland

ALADIN-HIRLAM model configurations run by Poland

25. Poland: ALARO-E040
26. Poland: AROME-P025

Portugal

ALADIN-HIRLAM model configurations run by Portugal

27. Portugal: ALADIN-ATP
28. Portugal: AROME-PT2
29. Portugal: AROME-Madeira
30. Portugal: AROME-Azores

Romania

ALADIN-HIRLAM model configurations run by Romania

31. Romania: ALARO-Ro2

Slovakia

ALADIN-HIRLAM model configurations run by Slovakia

32. Slovakia: ALARO-Sk

Slovenia

ALADIN-HIRLAM model configurations run by Slovenia

33. Slovenia: ALARO-Si

Turkey

ALADIN-HIRLAM model configurations run by Turkey

37. Turkey: ALARO-Tk
38. Turkey: AROME-Tk

Tunesia

ALADIN-HIRLAM model configurations run by Tunisia

36. Tunisia: ALADIN-Tn

Météo France proposal for commerce

- Case of products considered as PSI/official duty
  - MF proposes to write explicitly in the ALADIN MoU that the royalty system for products of ALADIN common codes, as defined in Article 11 of the ALADIN MoU, does not apply to PSI/official duty products
- Case of purely commercial products
  - MF proposes 3 options:
    - The royalty is paid on all purely commercial products, without restriction;
    - The royalty is paid only on commercial products concerning territories outside the EEA;
    - The royalty system is discontinued.
- Constraints of non-European ALADIN Members.
  - accommodate any legal constraint applying to non-European ALADIN Members