<u>***PAC Participants***</u>: ***Radmila BROZKOVA** (PAC Vice-Chair),* ***Jure CEDILNIK** (LACE rep.),* ***Claude FISCHER** (CSSI Chair),* ***Daniel GELLENS** (PAC Chair),* ***Branka IVANVAN-PICEK** (LACE rep.),* ***Alain JOLY** (MF rep.),* ***Mohamed MOKHTARI** (non-MF non-LACE rep., only on Thursday morning),* ***Maria MONTEIRO** (non-MF non-LACE rep.),* ***Patricia POTTIER** (Secretary),* ***Piet TERMONIA** (ALADIN PM),* ***Martina TUDOR** (LACE PM)*
<u>***Excused***</u>*: Philippe BOUGEAULT (MF rep. at the HAC meeting), Jeanette ONVLEE (HIRLAM observer, attending the HAC meeting)*

1. Opening and welcome

Daniel opened the meeting at 09:00 and welcomed all the participants to this unusual fully video-conference meeting.

2. Adoption of the agenda

The agenda below was proposed and adopted

Agenda		Introduced by	Documents
1	Opening and welcome	PAC chair	
2	Adoption of the agenda	PAC chair	2_agenda_PAC_May2020

3	Policy issues: convergence (C)
	3.1 Draft MoU & Strategy
	    3.1.1 Outcomes of Istanbul GA-C
	    3.1.2 Strategy & composition of the management group
	    3.1.3 CWG & HLWG proposals
	    3.1.4 Draft MoU
	    3.1.5 Roadmap
	3.2 Rolling Work Plans 2019 and beg. 2020
	3.3 Rolling Work Plan 2021 (inc. timeline)
	3.4 Preparation of GA agenda
		ALADIN PM
		&
		PAC chair
			3.1_Minutes_GA_C_Istanbul
			3.1_Strategy_document
			3.1_Management_composition
			3.1_Minutes_HLWG
			3.1_Draft_MoU
			3.1_Roadmap
			3.2_RWP2019_realization
			3.3_RWP2021
			3.4_Joint-GA/C

4	Policy issues: ALADIN only 4.1 ALADIN Budget 2020 & covid-19 4.2 *harp*: possibilities for open-source		4.1_flat-rate-budget2020 4.2_*harp*-open-source
5	A.O.B	PAC chair	
6	Date of the next meetings	PAC chair	to be agreed with HAC
7	Closing	PAC chair	

3. Policy issues: Convergence

   1. <u>Draft MoU & Strategy</u>

      1. <u>Outcomes of Istanbul GA-C</u>

Piet briefly introduces the minutes of the joint ALADIN General Assembly(GA) and HIRLAM Council (C) and their main decisions: the GA-C acknowledged the progress made by the Convergence Working Group (CWG) in the preparation of the draft MoU of the future Consortium, created a High-Level Group (HLG) to further investigate topics that still raise some concerns (Intellectual Property and voting rights). The GA-C agreed to organise the budget of the future Consortium according to the scenario A for the validity of the MoU (5 years).

      2. <u>Strategy & composition of the management group</u>

Piet recalled the background: a strategy meeting was held in Toulouse early February 2020 to agree on common key objectives and priority goals for the five next years. Based on the conclusions of this meeting, the CWG has worked on a draft Strategy document. Five high-level goals have been identified:
- Deliver codes ready to provide forecasts of world-leading quality, with a focus towards higher resolution (sub-km), multiple time scales (from nowcasting to 3-day), and more explicit assessment of predictability (ensembles for both data assimilation and forecast),
- Ensure regular evolution of the codes towards more interoperability, portability and flexibility,
- Modernize working methods and increase the communication between teams from all Members, to accelerate the preparation and adoption of code upgrades,
- Extend progressively the perimeter of the collaboration to the scripts of the NWP suites and other relevant aspects (such as content and format of database/files, tools for compile/build, etc...),
- Further develop the capacity building activities of the Consortium.

The CWG also proposed the composition and the Terms of Reference (ToR) for the management group of the Consortium: this management follows the structure of the R&D areas as discussed in the Strategy document; two types of Area Leaders (AL) have been defined (AL1K - whenever possible - to lead the area and define a long term vision, AL2K – otherwise - to conduct specific actions in order to progress on CSC interoperability).

Piet opened the floor for comments on the proposed Strategy document and management team.

Alain pointed that the physics session in the Strategy document, contrary to the other sessions, lacks of well targeted common work and common vision.
Radmila asked why the mandate of the physics AL is limited to 2 years.
Martina explained that during the Strategy meeting, there had been an agreement on the targets, not on the route to reach them. The first task of the physics AL will be to explore the possibilities and to decide on a set of targets where the Consortium should gather workforce.
Claude added that the physics AL will help understanding how far CSC interoperability in physics can go, before defining a long term vision for the physics. Thus, he/she is an AL2K position.
Daniel concluded that after the first two years, the Consortium may need an AL1K position for the physics or another AL2K with a new mandate.
The PAC understood these explanations and approved the proposed management but asked for an explanation to be added in the management document about the physics AL.
Daniel underlined that the CWG should communicate carefully with the LTMs and Radmila proposed to send them the management document once consolidated.

Branka wished that the Strategy document insist on the importance of meteorological quality control in each country. Piet and Radmila explained that the Consortium cannot commit to the quality of the local applications in each country because the quality is linked to the data available locally, the physiography of the domain, the quality of the physiography database, … Alain also pointed the lack of verification data at hectometric scale.

Martina added that, in order to help each Member reaching the best possible quality, the Consortium (as ALADIN always did) will share experience, organise end-users meetings, trainings and organise a good scientific maintenance.

Piet proposed to reformulate the 5th high-level goal to better describe the capacity building and show how it answers Branka's concern. The PAC agreed.

3. *CWG & HLG proposals*

The HLG and the CWG met three times and found forward-looking solutions for all pending issues. The HLG is confident that a consensual version of the MoU could be prepared after their last meeting and with guidance of the PAC-HAC on the new formulation of the *item 41* proposed by Radmila.

Radmila introduced the new formulation of *item 41*. **The PAC worked on improving the text, that would be further discussed during the PAC-HAC meeting** (together with some modifications in the ToR of the CSCs leaders proposed by Radmila to take into account the new *item 41*). Claude pointed that the CSC Leader ToR should be addressed at the PAC-HAC meeting (due to lack of time, the discussion about these ToR had to be dropped at PAC).

4. *Draft MoU*

Daniel reported that the HLG agreed to not open questions any more on the draft MoU and to support the approval of this draft MoU at the next meeting of the Directors of the ALADIN or HIRLAM consortium they belong.

Daniel opened the floor for questions of the draft MoU (besides *item 41* already discussed and the *Annex VIII* where, for each code, it was decided to add in which repository the reference version of this code is at the present time).

Branka was worried about the possibility for a proposed research to be refused (if not in the Rolling Work Plans RWPs, see *item 38*). She was reassured by the explanation on the process to establish and agree on the RWPs, and the possibility for each Member to do any research outside the RWPs although this Member should not expect support from the Consortium on a research that was not of common interest and thus was not included in the RWPs.

Jure pointed that, among the categories of licenses, ARSO is in favour of "component" licenses (such as CeCILL-C). He would have preferred this category of licenses to be defined (*item 16*) and imposed (*item 146*) rather than the "non-contaminating" licenses.

The PAC agreed to raise the question during the PAC-HAC meeting.

Besides the points mentioned above, the PAC has no comment on the draft MoU.

5. *Roadmap*

The discussion on this point was postponed to the PAC-HAC meeting, for lack of time during the PAC meeting.

2. Rolling Work Plans 2019 and beg. 2020

The discussion on this point was postponed to the PAC-HAC meeting, for lack of time during the PAC meeting.

3. Rolling Work Plan 2021 (inc. timeline)

The discussion on this point was postponed to the PAC-HAC meeting, for lack of time during the PAC meeting.

4. Preparation of GA agenda

This point was not discussed for lack of time and **the CWG was asked to prepare a draft agenda and to propose it to the GA chair.**

4. **Policy issues: ALADIN only**

1. ALADIN Budget 2020 & Covid-19

The 2020 flat-rate budget plans were prepared in line with all recommendations of the Istanbul General Assembly. The flat-rate 2020 document was sent to the relevant Partners, together with the letter of exchanges for the money transfers that have already started.

Taking into account that this budget should be the last of its kind, and taking into account that although nobody travels on missions, the actions were done (attendance to the video-workshop, LTM and HMG-CSSI meetings, PAC-HAC video meeting), and as for the Workshop missions the amount of flat-rate money is rather similar for all flat-rate Partners, **Patricia proposed to consider these actions are completed and not apply any penalty for the missions. PAC agreed.**

One scientific visit took place before the Covid-19 crisis. The other scientific visits are planned later in the year. **In case many visits would be cancelled, Daniel offered to manage the penalties, transfer back or transfer to 2021 through the RMI budget: Patricia will estimate the amount of money and the number of involved partners and look for a solution in order to minimise the financial operations.**

2. *harp*: possibilities for open-source

Piet explained that the developers group of the *harp* software (Austria and Belgium for ALADIN) proposes to make *harp* open source.
PAC agreed and recommended to use CeCILL-C license.

5. **A.O.B.**

None.

6. **Date and place of the next meetings**

This point was discussed during the PAC-HAC meeting (see 10th PAC-HAC minutes for more details). The next PAC ad HAC meetings will be organised in video-conference:
- 19 October 2020 morning: separate PAC and HAC meetings,
- 19 October 2020 afternoon and 20 October 2020 morning: joint PAC-HAC meeting,
- 20 October 2020 afternoon: meeting of the CWG.

7. **Closing**

Daniel thanked the participants for the good discussions and closed the meeting at 12:45.