STATUS OF ALADIN-HIRLAM COOPERATION

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CONTENT

- History
- Main issues
- Final remarks

HISTORY (1)

- September, 2003: Informal contacts from HIRLAM Project Leader
- October, 2003: HIRLAM Advisory Committee (HAC) discussions about mesoscale non-hydrostatic modelling (NH inside spectral HIRLAM)
- December, 2003: HIRLAM Council, positive principle support
- January, 2004: Wish for full code cooperation

HISTORY (2)

- March, 2004: Mesoscale model training workshop in Toulouse
- April, 2004: HIRLAM request for ALADIN license for research use
- Spring 2004: First ALADIN participation on the HIRLAM Advisory Committee meeting
- June, 2004: HIRLAM Council, approval for code cooperation

HISTORY (3)

- October, 2004: ALADIN Assembly discussions (resolution, first representation of HIRLAM)
- December, 2004: HIRLAM Council, first representation and presentation of ALADIN
- February, 2005: First HIRLAM participation on the LACE Steering Committee meeting
- April, 2005: Formal decision (resolution) about the HIRLAM-ALADIN cooperation by HIRLAM Council

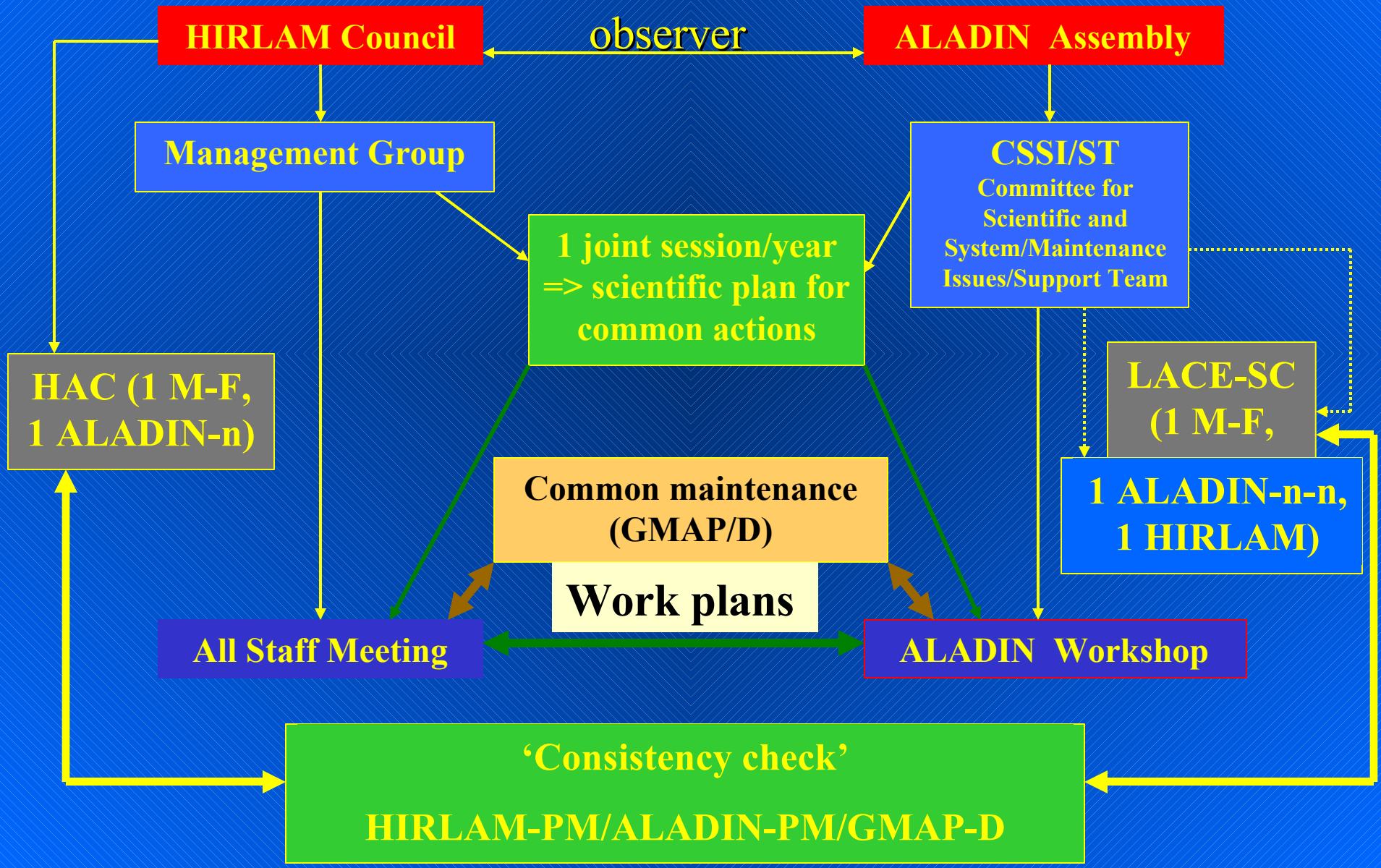
HISTORY (4)

- June, 2005: First meeting of CSSI and HMG, planning procedure (Bratislava)
- October, 2005: Cooperation between the ALADIN and HIRLAM consortia: Main objectives and first topics of common interest (list of common topics)
- October, 2005: ALADIN Assembly, presentation of the common plans (signature of new ALADIN MoU)

HISTORY (5)

- December, 2005: Formal signature of HIRLAM-ALADIN cooperation agreement (signature of HIRLAM-A MoU)
- January, 2006: Start of new governance at both sides
- May, 2006: First common HIRLAM All Staff Meeting (ASM) and ALADIN workshop (+HMG-CSSI meeting)

Planning and supervision of the HIRLAM-ALADIN common work



MAIN SCIENTIFIC AND TECHNICAL ISSUES (1)

- Training
  - dynamics (Toulouse, 2004)
  - physics-dynamics interface (Prague, 2004)
  - code and maintenance (Budapest, 2005)
  - data assimilation (Budapest, 2005, 3d-var/odb, 6-10 June, 2006),
- Code collaboration: step-by-step involvement of HIRLAM scientists into the phasing of IFS/ARPEGE/ALADIN/AROME (short visits in Toulouse, HIRLAM physics into the code)
- Data assimilation: code convergence between ALADIN 3d-var and HIRLAM 4d-var, (observation operator inter-comparison, adjoint of SL, radar and clear and cloudy radiances satellite data)

MAIN SCIENTIFIC AND TECHNICAL ISSUES (2)

- Dynamics: vertical finite elements for vertical discretisation, transparent boundary conditions
- Physics: externalised surface, interfacing, microphysics, turbulence, 1D model
- Predictability: Grand Limited Area Ensemble System (GLAMEPS, demand for special project at ECMWF)
- Verification and validation: working group for case studies

COMMON „POLITICAL" STEPS

- Common approach to the EURRA project (10 km European re-analyses)
- Common proposal for the renewal of SRNWP („NWP vision")

ACTIONS/DECISIONS TO BE TAKEN IN THE NEXT DAYS

- Interest for 3d-var/odb training (Budapest, 6-10 June, 2006, limited number of participants)
- Express of interest for EURRA project participation (proposals from HIRLAM and ALADIN, talk of Francois Bouttier on Friday)
- Express of interest in the participation on the GLAMEPS project

FINAL REMARKS

- ALADIN-HIRLAM cooperation: huge international European (and Mediterranean) cooperation effort
  - More than 20 countries
  - More than 100 persons involved

- Now it is put on its right track, but now the hard joint work should really start!