



C2I – Concluding Remarks

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Milestones



C2I Milestones: Workshop



C2I Workshop on Setup & Experiments 15 – 19 Oktober 2018

in: COSMO News Letter No. 18, 2018, page 17-27

- Focus on performing ICON-LAM simulations with the individually chosen configurations: Different areas, different initial and boundary data, ...
- → Talks on 'Getting Started with ICON', 'Overview on ICON-LAM settings', 'Visualization of ICON data with GrADS' and 'Introduction Fieldextra'
- Most of the time was dedicated to working with ICON in the individually chosen configuration (with ICON developers available for assistance)
- → 30 Minutes 'Synchronization' each day to share the individual achievements of the day
- After setting up a 'basic' forecast for their domain at DWD's Cray, the participants continued with their individual priorities

Established a network, very important for the further success of C2I!





C2I Milestones: Verification Report



Verification of ICON in Limited Area Mode at COSMO National Meteorological Services

in: Reports on ICON, 006, 2021, https://doi.org/10.5676/DWD_pub/nwv/icon_006

- → Summarizing verification results for the September/October/November 2020
- → Publication in ,Reports on ICON' to reach the ICON Community
- Verification results mostly positive
 - Especially for surface
- Upper air shows slightly better results for COSMO
 - First results with new ICON versions are promising
- Precipitation
 - Improvements for Poland, Romania and Common Area
 - Neutral for Greece, Italy and Israel







C2I Milestones: Final Report



The COSMO Priority Project Transition of COSMO to ICON-LAM: C2I Final Report

in: COSMO Technical Reports, in preparation

- → Results for one full year of verification
- → ICON shows mostly better performance than the COSMO model
- → INMET Brazil contributes a section with results from May 2022

Publication planned for October 2022







Aftermath



C2I topics continued



Several COSMO Activities and Projects continue the work started in PP C2I

PP ICON-COMFORT

- Extend the forecasters' feedback subtask of PP C2I
- Prepare for a continuous activity on a mid- to long-term perspective

PP C2I4LC

- → Technical support is crucial for a successful transition from COSMO to ICON.
- → Licensing countries will start the transition phase soon
- Prepare a support framework to guarantee a smooth transition

Continuous Verification (WG5)

- → In terms of FTE, verification was the largest topic in PP C2I
- ICON becomes more and more the focus of national and common area verification presented regularly in WG5





Operationalization of ICON



COSMO Member	Configuration	Operationalization
Germany	ICON-D2	11/2019 (pre-operational) 02/2021 (operational)
Greece	ICON-GR2.5	Pre-operational: 06/2019 (not time-critical) Operational: 2023 (planned)
Israel	ICON-IL2.5	06/2020
Italy	ICON-IT	07/2020; Full switch: Q4/2023 (Ensemble requires GPU-capable version)
Poland	ICON-PL	09/2022
Romania	ICON-RO-2.8km	01/2020
Switzerland	ICON-1E ICON-2E	Q1/2024 (Requires GPU-capable version)





The final slide...



Thanks to everyone involved in PP C2I!

C2I has a very, very long list of contributors from each COSMO member state, so I will focus on my contact points:

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