

Role of WG3b coordinator

- From the [Terms of Reference](#), role of WG coordinator ([extract](#)):
 - *plans, monitors, and reviews COSMO activities within the scope of the Working Group*
 - *maintains an overview of all the international activities as well as the scientific literature within the scope of the Working Group*
 - *plans changes to the official version of the COSMO software within the scope of the Working Group and supervises their implementation*
- [In practice](#), as WG3b is concerned
 - *find opportunities given existing resources and center specific priorities*
 - *convince colleagues about the interest of the proposed developments*
 - *document activities on the COSMO web page*
 - *E.g. mire parameterization (PhD student at Moscow), snow model (funding available at MCH), TERRA standalone (code developer was at MCH for some time)*

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- This worked (more or less), because **the group of the involved persons was small**, all at DWD in the same “section”, we knew each other well, and the soil and surface model was not being intensely further developed.
- But the situation has now drastically changed with the **ICON model** and the **ICON community**! So ...
- **... what should be the future role of the WG3b coordinator** ? Shall we stick with the ToRs ? Or stay with the current pragmatic approach (but how to make this work) ? Restrict activities to documentation activities ? Merge with the CLM community (which has a strong interest in soil & surface aspects) ? Transfer the coordination duties to a model core developer ? ...



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Suggestions (Roland P, Linda S, 2.9.2021)

- ICON Development Monitoring, in particular it could mean *taking part in the coordination meetings* of the ICON development groups for ICON-Land, ICON-Atmosphere, ICON-Ocean, Data Assimilation and ICON-Consolidated
- Make sure the COSMO WG Guidance to reflect / relates to *activities in the wider community*
- Promote the role of R&D in *operational weather forecasting* to the COSMO-ICON development community
- Contribute to the *resources* discussion to realize the goals and targets of the COSMO Working Group

WG3b some important issues

- What is the future of the *improved TERRA hydrology* developed by Linda S. and Daniel R.? Who could provide resources on this topic?
- The new *multi-layers snow model* is very promising (in particular with respect to global applications and to climate applications). Who could provide additional resources to support the work of Sascha? CLM community? DWD? RHM?
- An *off-line soil & surface module* is a very important tool for further model developments and for efficient computation of the model spin-up. What is the strategy in this respect (TERRA standalone, ICON-LAND...)? Who can provide (permanent) resources to care for this tool?
- *Model calibration* (tuning) is a difficult but important topic. The PP CALMO-MAX has shown a weak impact of the methodology (compared to climate applications at ETHZ), possibly due to a strong dependencies of the parameters optimum on the weather pattern. Which future for this methodology?

