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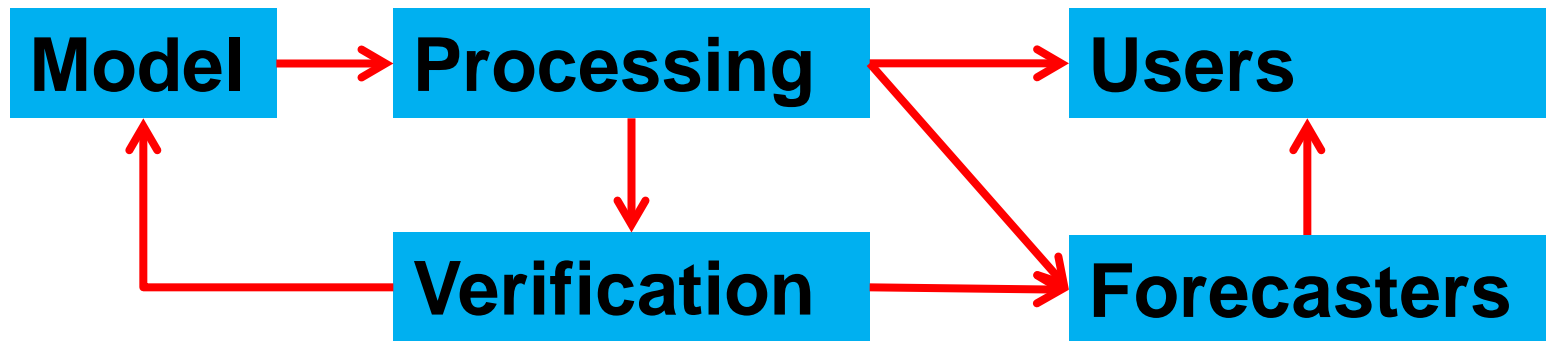
Usability of high resolution (ensemble) models

Ideas and discussion

Pierre Eckert
MeteoSwiss, Geneva



My personal view





Workshop at MeteoSwiss



- One day workshop
- COSMO Application representative, COSMO NExT project leader, responsible for forecasting methods, representatives from the weather services, from the visualisation platform, from the product management.
- Short Presentations about model configuration, verification results, postprocessing, visualisation, expectations.
- 3 breakout sessions
 1. Verification and best practices
 2. Postprocessing and visualisation
 3. Requests to the model configuration



Verification und best practice



- Always (and only) use (show) what is qualitative best (→ verification!). As working basis to the forecasters as well as for end users.
- Each deterministic forecast product (forecasters and end users) should be accompanied with an error bar.
- Ideally the users receive only verified products, resp. Only the parameter combination verifying best. For instance for precipitation a neighbourhood average or quantile.



(Post)processing and visualisation



- Processing priorities for COSMO-E:
 1. median, (mean), ctrl, quantiles;
 2. probability upscaling
 3. all the rest : clustering, time-lagged ensemble probabilities, neighbourhood probabilities, ...

Post-processing priorities for COSMO-E and COSMO-1

1. MOS, specially for T2m and Td2m, if possible not restricted to measurement stations (gridding)
2. Kalman Filter
3. Reforecasts

Visualisation: