



General Assembly

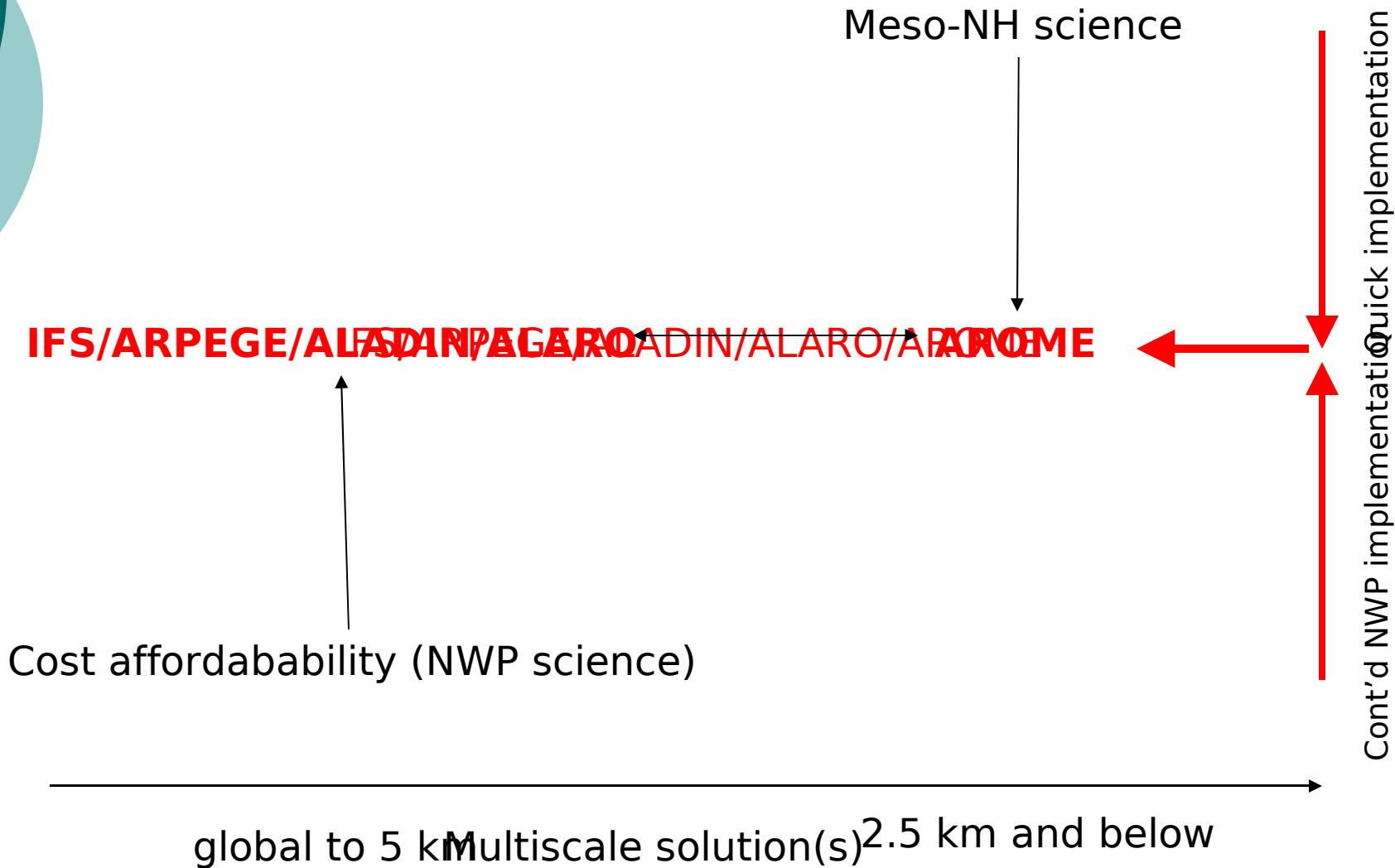
P. Termonia,
CSSI Chair

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7c Update about convergence

Change of definition AROME vs. ALARO (GA last year, reminder)



The CSSI text (GA last year, reminder)

- “*The scale specificity which currently characterizes AROME and ALARO is going to be progressively replaced by a difference in the way of capitalizing on upstream research either rapidly for the process side or more slowly for the NWP specific side.*”
- This characterization allows **to optimize the benefits from each other's developments.** (!!!)
- Linked with these principles, there are several scientific and technical particular choices which are detailed in the convergence days outcome document.”

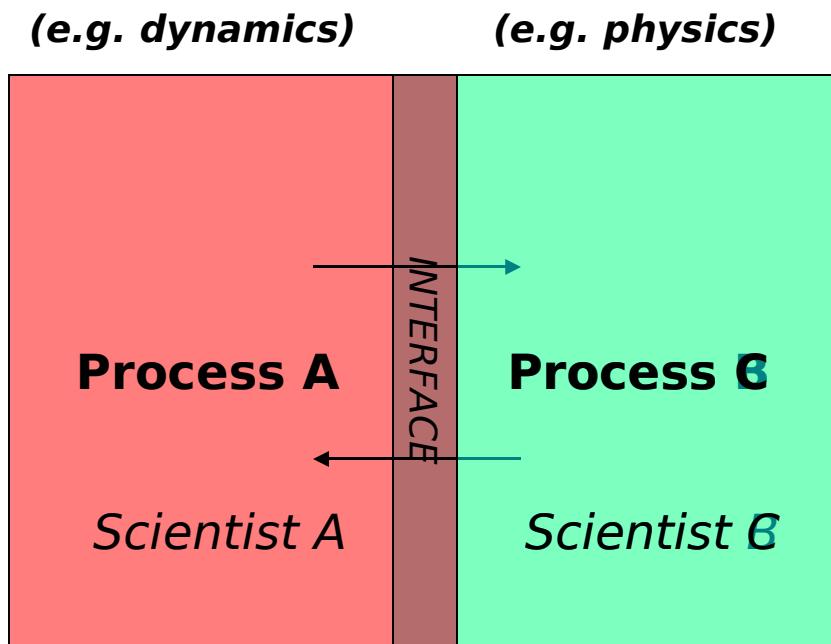
CSSI: status of *convergence actions* (fyi)

- ***Roughly according to plan*** but with some delay (which was to be expected)
 1. DDH according to plan: *perfectly on track*
 2. Microphysics: *work in progress*
 3. 3MT scheme in ARPEGE: *work in progress*
 4. Equations and interfacing rules: most of the analysis has been done on paper; a *general explicit approval is however still missing* (also unclear issue about who should code what).

Paradoxes (fyi)

- Spirit of working together has greatly improved, but still relies too much on *one-sided actions*
- The last action (equations and interfacing) is probably the *most crucial one*, but evolves the *most slowly*.
- More and more coming *on top of the ALARO team.*

Flux conservative equations (a mini lecture)



- Nature conserves some quantities, think of energy
 - While you can do NWP without guaranteed conservation, some developers try to make the model also to conserve these quantities as much as possible.
 - But they can only do so if the interface does this
 - There was a proposal of how to do this.

Discussion: How to collaborate?

- B makes a proposal to C for the interface by giving specifications of how it should behave. C agrees to follow the proposal. One could even go as far as working together on a contractual basis
- B and C agree on the approach of the interfaces, recognise its value and understand its potential **to optimize the benefits from each other's developments.** (see CSSI past year)
- ***This does NOT mean that C is forced to make his/her scheme conservative!***
- ***This also does NOT mean that B knows all the answers. In fact the discussion is NOT about who is right or wrong.***
- ***The discussion is about how to collaborate.***

Dilemma

- Everyone agrees that we should converge
- But everyone is trying to converge by him/herself, by one-sided actions



GA is *invited* to

Discuss the dilemma, and if appropriate, make proposals for improvement.

Specifically for the GA:

- 1. Make a special effort for stagairs/visitors (cfr. Patricia's presentation) in particular with respect to the 4 actions**
- 2. Endorse the coding effort of the interface**