



# General Assembly

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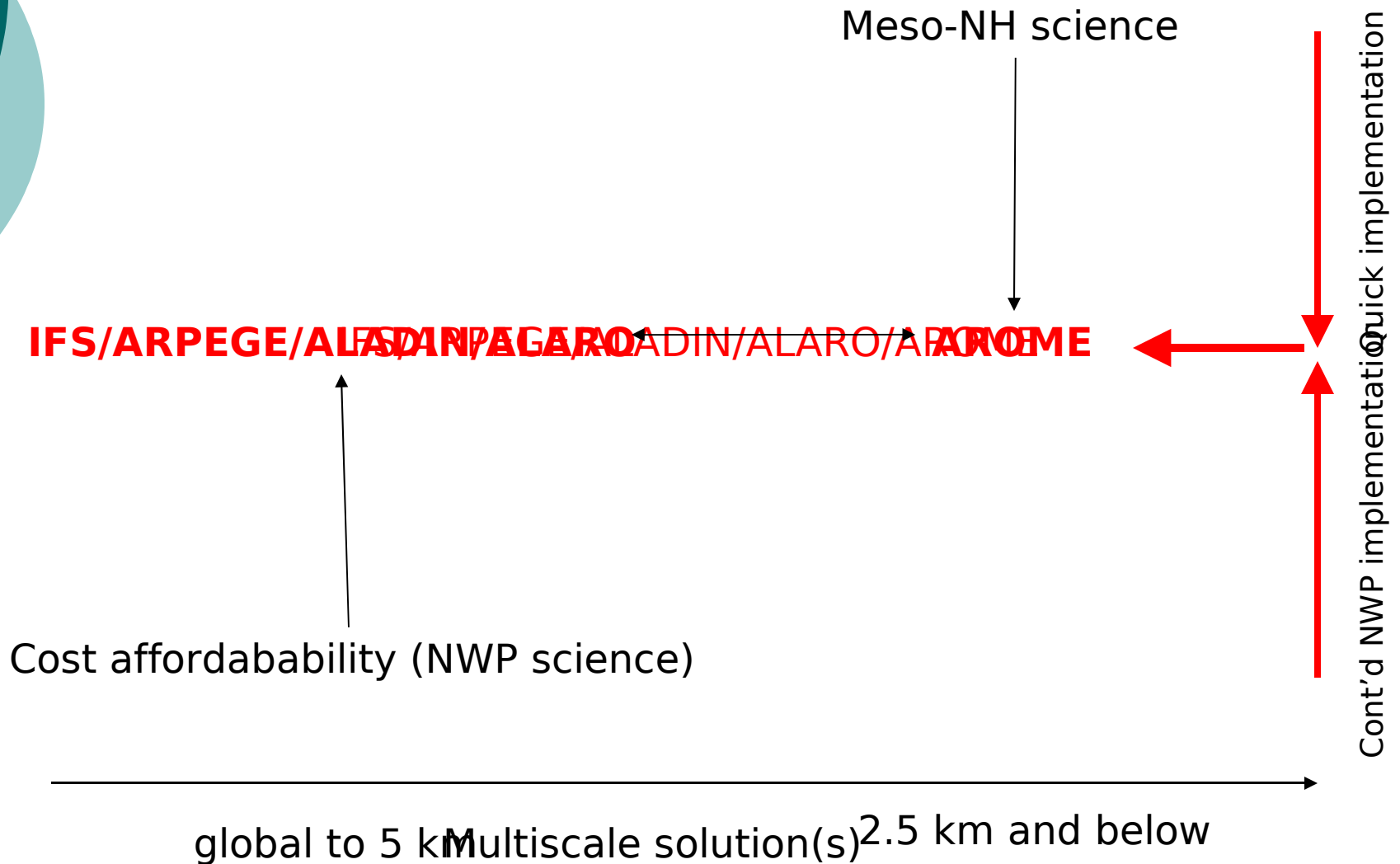
P. Termonia,  
CSSI Chair  
12-13/11/2009, Istanbul



# 7c Update about convergence

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



# The CSSI text (GA last year, reminder)

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- *“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)

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- ***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).

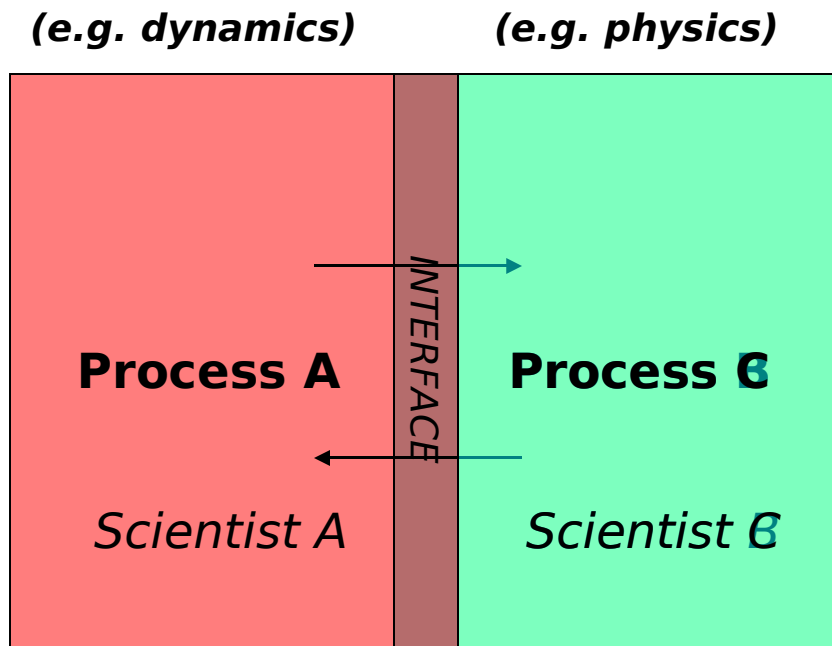
# Paradoxes (fyi)

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- 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)

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- 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?

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- 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

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

## GA is *invited* to

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**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**