

ESCAPE 2 Tentative Agenda

Main Driver Models:

The main focus of the workshop will be on computational patterns of models participating in the ESCAPE-2 project (NEMO, FVM, ICON, ...) although key developers of external partners are encouraged to participate at the workshop and participate in the definition of the HIR concepts.

Discussions will be organized in working groups where key developers of models with similar/common computational patterns will gather in the same working group.

Model category 1: Eulerian finite-difference/volume methods on lat-lon grids (NEMO, FVM structured, etc)

Model category 2: Eulerian finite-difference/volume methods on irregular grids [icosahedral, reduced octahedral] (FVM on reduced octahedral, ICON ocean and atmosphere, etc)

Model category 3: DG & semilagrangian methods (DG models, IFS semilagrangian, LFRic, etc)

Agenda:

Day 1:

12:00 welcome & introduction [goals of the workshop]

12.30-13.30 Introduction to concepts (DSL and HIR concepts), clarification of goals and preparation of working groups

13.30- end of day

breakout working groups (according to model categories) to discuss and prepare presentations for individual codes. The goal of each working group is to present the computational patterns and make proposals of HIR concepts for discussion of day 2
(each group would have one or more DSL/IR/concepts expert that will help the group sharpen their ideas)

Day 2:

presentations from all working groups and time for discussion.

Day 3:

8.30-12.30

Prepare and present a joint proposal of concepts, discuss tradeoffs of different options. Discuss a way forward towards a first white paper with the main outcomes of the workshop, summarizing a first proposal of HIR concepts.

1 pm — Close the workshop