

## Long-term strategic issues General discussion & identification of future agenda





- Performance comparison? for a better science
  - Add in metadata
  - working session Isenes 2 WK, incl discussion on metrics
  - + also HPC WK
- Access to HPC facilities? Prace business model vs climate
  - HPC TF: update with feedback from projects; 1st step: PRACE board
  - Longer access to development: port & science; Tier 1 compatible with Tier0
  - multi-year access for « production »



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- Models for petascale & exascale ?
  - Revisiting dynamical cores: already there for atmosphere in US but not in UE, still a question?

Science, performance drivers

With « new » dycores: some can go up to 100 000 cores

Open issues: low memory/core, threads and/or tasks; silent errors; bandwith Still on-going work

Dycores: not disruptive technology?but important effort

Revisiting model structure? Key topic for a WK

Separating model SW and programming model?

Algorithms with higher parallelism DT

« Community efficiency »: more sharing; issue open access

Issue of different timing: increase adaptability and robustness of model common superstructure

Science drivers



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- From « Exaflop » to « Exabyte » challenge? Exabyte before Data: DT issue
- Need for interdisciplinary teams: climate-computing-maths
  On-going activities



#### **IS-ENES**





#### 2<sup>nd</sup> HPC Workshop on Climate Models Toulouse, 30 January-1rst February 2013









