Throughout the topics (computing model, ML, emerging technologies) a main question is whether we should focus our activities on a few, central projects and topics (WLCG, large astroparticle projects) and find solutions for those, or whether a broader approach should be taken. This is also connected to questions like whether we concentrate our effort to build up and maintain expertise on the lab level, or whether we push stronger for IN2P3-wide solutions, e.g. through stronger reseaux and participation in IN2P3-calcul&données master projects? Is creating expertise-clusters on specific topics in certain labs a way to go forward?

Tried to form a panel that represents most communities: L. Arrabito, F. Derue, E. Ishida, A. Moller, P. Verdier

Multiple dimensions, multiple fields



- User of toolkits / libraries
- Designers / programmers
- Experts
- Solution provider

- Resources in lab
- Resources in local data center (univ, "cluster of labs", mesocentre,...)
- National datacenters (CC-IN2P3, IDRIS, CINES,...)

Question

• Who ?

- Large projects
 - + well identified projects, manower within project
 - + visible impact in the field
- Intermediate and small projects
 - + smallish additional manpower can make a noticeable impact
 - - availability of manpower from the project?
- Individuals
 - + "evangelisation of the massses" for the future
 - + competitive advantage for analysis
- Human organisation
 - Master project
 - "competence center"
 - Expert network, consulting
 - Local experts
- Resource organisation
 - National centers
 - Regional/shared centers
 - Local resources

From the discussions here (my take)

Computing models

• Driven by big project, need expert help for smaller projects and individuals to access the resources

• HPC / GPU / FPGA

- Need to build expertise for coding
- Need to support users to access and use the resources adequately
- Better / easier means to access the resources
- ◆ AI/ML
 - Need for user (and expert) training
 - Need of local expert / advanced users
 - From local resources ("my GPU") to production scale resources

• Ce matin

- "Il faudrait que les directeurs acceptent que l'on travaille sur des projets d'autres labos"
- Besoins de formations

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18 oct 2019

My suggestion: hardware resources

National resources

Support users with no local resources For production scale usage User support more complicated Diversity of needs

Campus DC, mesocentres

Identify a few labs for specific technologies with regional or national resource center role? Experience with electronics/mecanics competence clusters? Regional resources

How to better access mesocentres?

Limited resources, for training, for small projects Difficult to maintain resource over time ("1 shot funding")

Lab resources

My suggestion: human organisation

Labs were we can concentrate enough expertise to make significant effort (recruiting) to IN2P3 projects Convince DU that "their" people for mostly for others?

