

Sharing Information, Dissemination and Training

"This is not a presentation"



Why this matters

- In the next 10 years our community has to go through deeper changes than the transition from FORTRAN to C++ and local batch to the Grid!!
 - Yes the world that we know is coming to an end

- This requires to rewire many brains!!
 - And wire new brains correctly from the start
- To do this we need to know what we want to put into these brains.



The station

- Who isation

- Memcison nagement

- Efficient ne Who all code

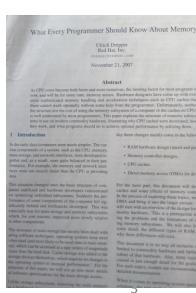
"a latest mach knew it has left the community."

- Favanced new features of C++
- Computing on FPGAs

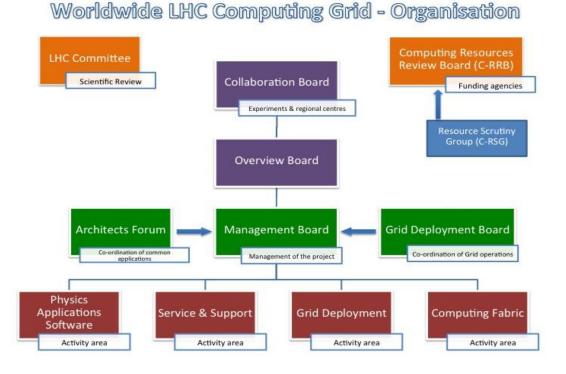


What is the problem?

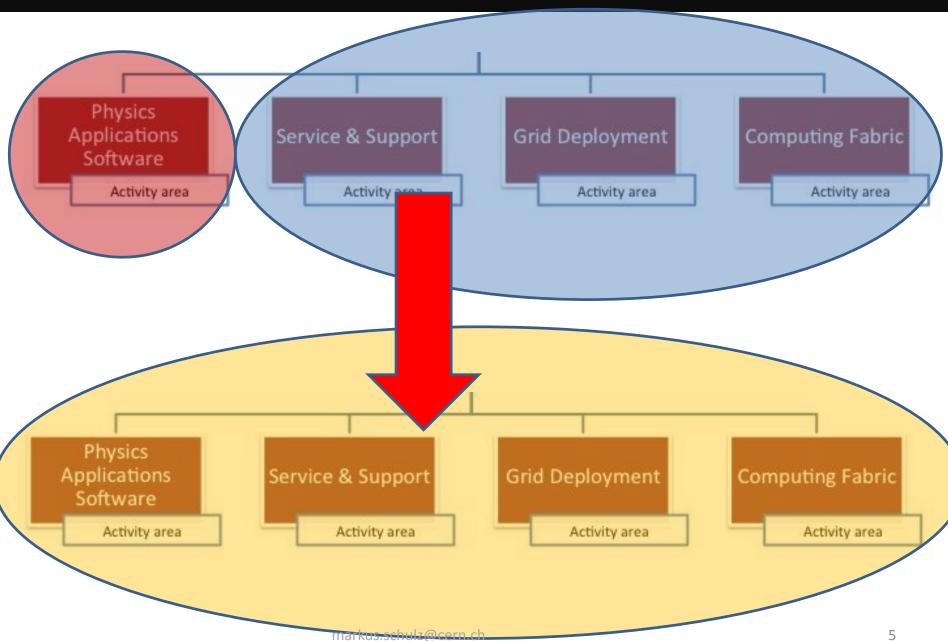
- The knowledge is not accessible in one place
 - Presentations at various meetings, conference schools etc.
 - Often from experts for experts
- Often in one or two people
 - Who are not always "easy" → less persistent
- Often not at the right level:
 - what every programmer should know on memory.... 100+ pages dense text
 - Then you are ready for the next...



- Online / offline
- Experiment A,B,C,D
- Software / Operations / Fabric
- WLCG:









Summary

 As a community we have forgotten more knowledge about computing efficiency than most communities ever had!!!

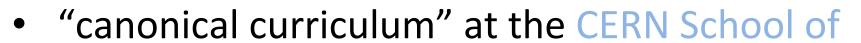
A lot of knowledge is fragmented

 Almost impossible to tell what is relevant and what isn't



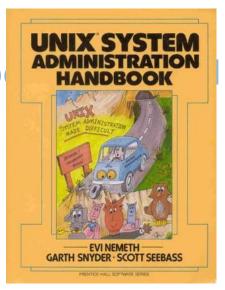
When I was young everything was better!

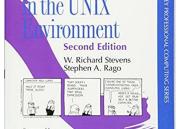
- C++ was new and Paul Kunz the prophet from SLAC
 - C++ for Particle Physicists "just enough"
- Rene Brun gave us ROOT for object p everything else
- There was GEANT
- For UNIX you had 3 books
 - + 2 from Stevens



computing

Very much in the form of recipes.....





Advanced



- Develop a culture with a strong focus on efficiency
- Bring experts from ALL areas together and develop a new curriculum
 - One version for new members
 - One for updating old hands
- Collect information that has been "blessed" in a "library" (QA for information like stackoverflow.com)
- Make R3 experience from LHCb and ALICE accessible
- This cannot be done by HSF or HEPIX alone
 - Fabric and applications can be only separated at a cost ->
 which we can't afford....

• Tell me!!!!