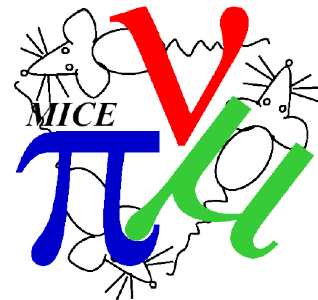
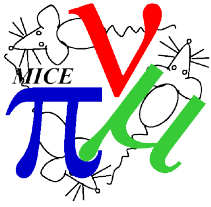


MICE

Analysis Phase



Plan for computing and Data



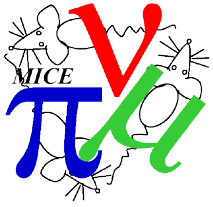
Many parts of the MICE computing infrastructure are no longer required.

Manpower to support MICE computing infrastructure is rapidly diminishing.

Simplify MICE computing

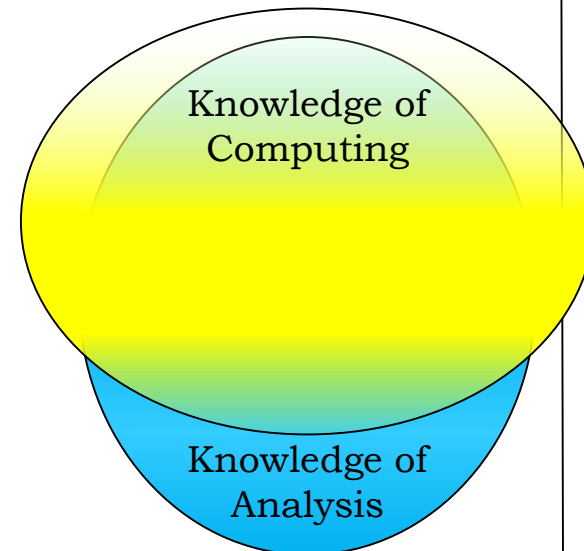
Guided by the workflows needed to perform a piece of analysis



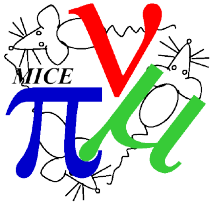


Problems

- Loss of personnel who own a good deal of knowledge associated with running MICE
- Reduction in time available for remaining researchers
- Intersection of people with knowledge of the computing and the analysis techniques.

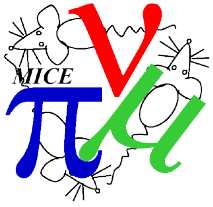


Implementation



- Identify a (small) number of workflows.
- Detail the tasks which constitute the workflows
- Identify where the expertise lies in executing these tasks.
- Ensure that the information for these is suitably documented.
- Map these onto individuals.





Progress

Aim was to have a document for CM51 which could be presented to the collaboration

Give everyone a chance to look at the workflows and tasks and identify any holes in the list

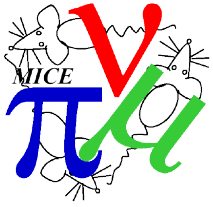
Not even a draft.

A set of notes; open questions; and partial solutions.

(Thanks to people who have answered my questions)



Current Status

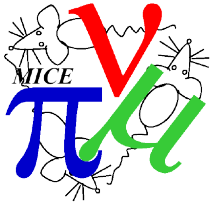


I will present a top level view of what I am doing so people have some background to read the document.

I will invite comments; suggestions; and criticisms.



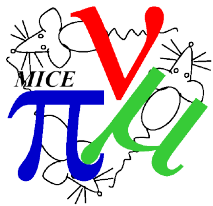
Top Level Workflows



- Generate Monte Carlo for a new analysis
- Reconstruction (data and MC) re-run after improvement of code or discovery of an error in existing code
- Dissemination of information

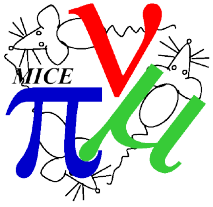


Generate MC for a new analysis



- Set up geometry; run conditions; dead channels; CDB; noisy channels; calibration. Create input files
- Run G4Beamline
- Run Monte Carlo
- Store runs on the GRID
- Run reconstruction on new monte carlo
- Access EPICs and eLog for run information



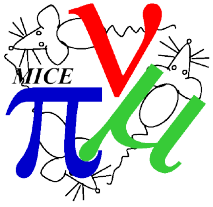


Reconstruction of Data and Monte Carlo

- Fix errors and include improvements.
- Merge in bzd
- Run Jenkins (including for Grid) – what should be included
- Compile, create tarball and send to Janusz
- Re-run reconstruction and update directory structure



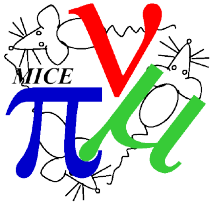
Dissemination of information



- Wiki, mailing lists



Supporting tasks



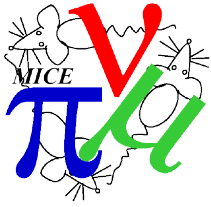
- Grid
transfer of knowledge from Henry
- Epics
- TOF
- SciFi

I have dug down deeper

BUT

It isn't organized well enough to present





Conclusions

MICE has the knowledge to continue to run MC and analysis

Plans to simplify and consolidate computing resources exists and the programme to complete it is well under way.

Knowledge is not the same as expertise.
MICE will rely on people who know how, but are not practiced to take up the slack.

We need to spread that knowledge more widely

