



HSF Feedback for IRIS-HEP

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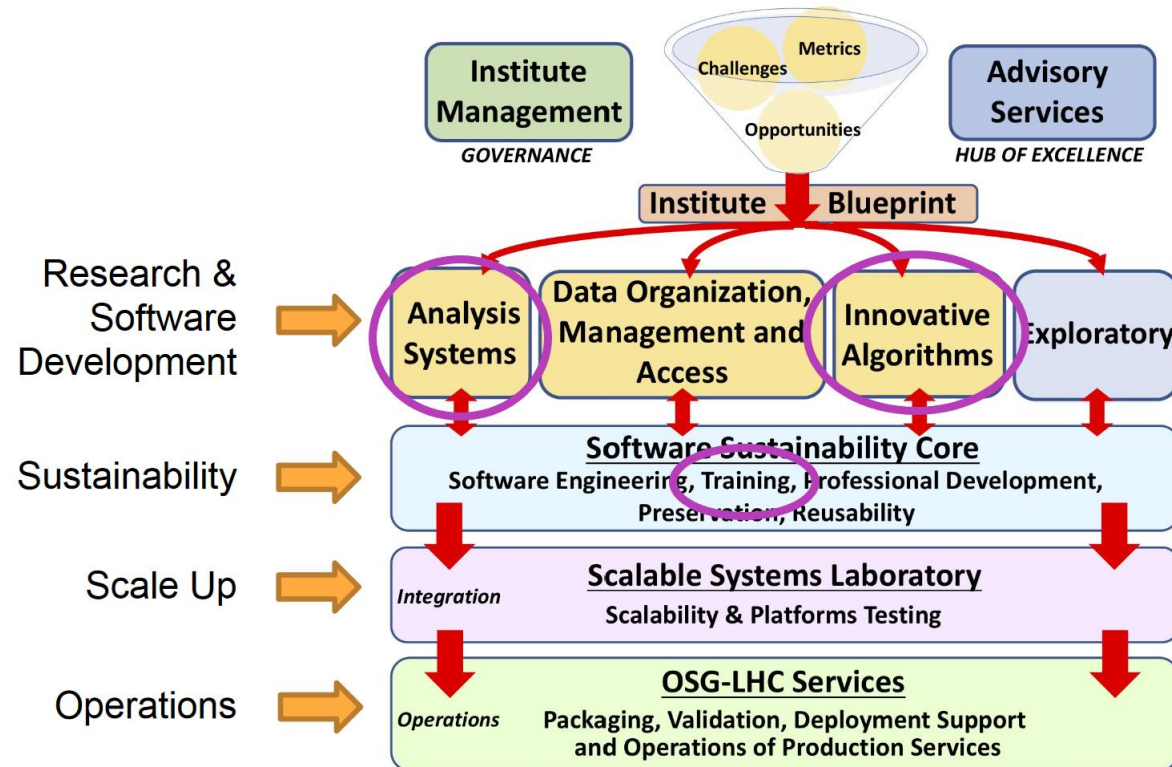
Thank you!

- The engagement of US colleagues in the HSF was absolutely crucial in getting the HSF Community White Paper written
 - US colleagues contributed hugely to all of the white papers
 - Practical help from DIANA-HEP and S2I2-HEP helped make all of the preparatory workshops a success
 - Convergence on the final CWP Roadmap was reliant on US colleagues
 - Strong support of the US community was critical to our successful presentation of the roadmap as a global community view
- We think, from the HSF side, that this was a virtuous circle
 - And that the work we did on the CWP was a contributing factor to the successful IRIS-HEP bid

IRIS-HEP and the HSF

- I will comment mostly on the following areas, which are closest to where the HSF is active:

- Training
- Innovative Algorithms
- Analysis Systems



Training

- Training is one of the great challenges for the HEP community
 - New skills are needed
 - Experts are both busy and in short supply
- IRIS-HEP and FIRST-HEP are having a positive impact here
 - Paying for membership of The Carpentries has provided concrete benefits, reducing the load on our experts for basic level training
 - Joint organisation, with the HSF, of the Software Carpentry event at CERN was a big benefit
 - Proved that this level of training is very much in demand...
 - **probably still exceeding our capacity to organise it**
 - **Transition to sustainable training still not clear**
 - How many trainees will become the trainers in future events
 - Carpentry certification for HEP experts?
- For further work at the top of the training pyramid we need to work even more in cooperation ([openlab](#), [SIDIS](#), [HSF](#))

Innovative Algorithms and Reconstruction

- Focus on the algorithmic level is much appreciated
- As is the attempt to be experiment neutral
 - Nothing much is trivial these days
 - Need to challenge legacy approaches is clear
- Joint meeting last week between IA Group and HSF Reconstruction group was very positive
 - High attendance probably helped by co-organisation and advertising
 - Reduce repetitive presentations
 - Encourage people to have community viewpoint
- A lot of care must be taken when applying new techniques at different working points from different experiments
 - **Please take feedback on board about properly defining the baseline**
 - Specifically this was a comment about LHCb PV finding
 - **More outreach to experiments would help**
 - This can be an area where the HSF can help

Analysis Systems

- Approaches taken by IRIS-HEP here are innovative
 - There is a very positive view of this within the HSF
 - Definite encouragement to continue with this work
- Engagement with the HSF Analysis Group has been good
 - Coffea presentations, in particular, much appreciated
 - Strong desire to continue that interaction towards full-scale systems
 - **There is some concern that the *problem* is also not yet really properly defined**
 - Feedback from the Analysis WG can be incorporated into the R&D, making sure that feedback loops close properly
 - E.g. from pre-CHEP analysis meeting
- Scikit-HEP project: commitment, contributions and collaboration are really important
 - **But that collaboration is a bit hard to see on the IRIS-HEP website**
 - Diminishes the impact and the possibility to attract more collaboration

General Comments and Thoughts... 1

- IRIS-HEP is having a very positive impact in the field that we can see
 - Training, Innovative Algorithms, Analysis Systems, ... but also in other areas
- Good sense of a snowball effect with other funding opportunities
 - “If they can do it, so can we...”
 - *This is another very positive outcome*
 - Particularly in Europe this will balance the HSF’s role if more Old World funding comes
- Meeting overload is a general problem in our field
 - It is hard to keep track of everything which is going on
 - Joint meetings can be encouraged with the HSF
 - It can be helpful when topics align
 - Helps with cross-community and cross-project cooperation and visibility

General Comments and Thoughts... 2

- IRIS-HEP outreach to more experiments should be encouraged
 - LHCb, DUNE, Belle II are different working points, but still fall within the general scope of the project
 - Could the SSL also help these experiments?
 - “How can IRIS-HEP help me?” section on the website was suggested... or “How can I work with IRIS-HEP”?
 - Current collaborations with others could be more visible as well
 - Could we envisage some joint student projects between IRIS-HEP and other HSF protagonists?
- HSF and IRIS-HEP have distinct roles in the community
 - Generally our feeling is that this is playing out well, but could be an issue if the HSF was asked to give an endorsement to IRIS-HEP (or any other funded project)
 - N.B. As we already discussed, letters of collaboration are not contentious