

IRIS-HEP Retreat September 12-13, 2019

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The Blueprint Activity



- It was recognized early in the community process of developing IRIS-HEP that its success depends on an informed evolution of its activities, direction, and (possibly) structure
- It was suggested to formalize this into a Blueprint Activity that was written into the Strategic Plan submitted to the NSF



Strategic Plan for a Scientific Software Innovation Institute (S^2I^2) for High Energy Physics

Peter Elmer (Princeton University)
Mark Neubauer (University of Illinois at Urbana-Champaign)
Michael D. Sokoloff (University of Cincinnati)

9 Building Partnerships

9.1 Partners . .

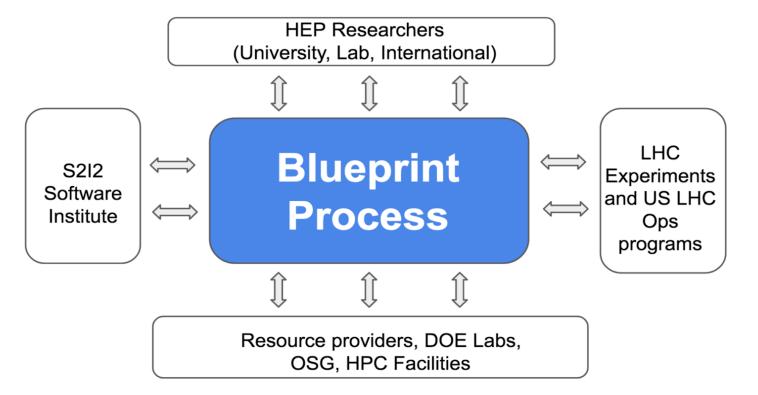
9.2 The Blueprint Process



The Blueprint Activity



 The Blueprint activity is used to inform the development and evolution of the IRIS-HEP strategic vision





The Blueprint Process



- A <u>series of workshops</u> that bring together IRIS-HEP team members, key stakeholders and domain experts from disciplines of importance to the Institute's mission
 - Topical presentations and breakout sessions
- Discussions are captured and they inform key outcomes which are summarized in a short report



The Blueprint Workshops



Completed

- Analysis Systems R&D on Scalable Platforms (June 21-22 at NYU)
- Accelerated Machine Learning and Inference (Sept 10-11 at Fermilab)

Scheduled

- A Coordinated Ecosystem for HL-LHC Computing R&D (Oct 23-25 at CUA)
- In the planning stage (Please contact me if you have more ideas!)
 - Training, Education & Workforce Development
 - Efficient & Sustainable Software for Research
 - Strengthening Connections between Theory & Experiment
 - Analysis Systems & Software Ecosystem
 - Intelligent & Accelerated Big Data Delivery
 - Analysis Preservation & Open Access Data



AS/SSL Blueprint Workshop



Analysis Systems R&D on Scalable Platforms (June 21-22 @ NYU)

 Strong engagement with the AS team, SSL team and representatives from NCSA, SDSC, NYU Research Computing, Google and RedHat (26 registered participants)

Key outcomes:

- A set of requirements for SSL and important use cases from Analysis Systems R&D area
- Kubernetes identified as the "common denominator" among system deployments
- Federated "substrate" project discussed to aggregate contributions from clusters





FastML Blueprint Workshop



Fast Machine Learning and Inference (September 10-11 @ FNAL)

 Hosted by the LPC at Fermilab and co-located with the FastML "developer bootcamp" which held tutorials and hackathon





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