

# Year 1 Plan - Current Draft

## Task 1 - Application Portability:

- Develop a **cookbook** for portability layers based on Phase 1 findings
- Outreach to experiments for portable solution implementation (**workshops/hackathons**, followed by regular office hours)
  - Understand the experiments' timescales for portable accelerator uses
- Create **mini-apps** based on two of the Phase I PPS testbeds that can be executed at NERSC, OLCF and ALCF, preferably with the same software environment (FCS, p2r)
- Use mini-apps to extract **figures of merit** for ASCR facilities and LCFs to use as baselines

## Task 2 - Workflow Portability:

- Complete **survey** of existing HEP experiment workflow technologies on HPC; also look into workflow technologies used by **other experiment facilities such as light sources**.
  - Find commonalities between experiment workflow systems
- Explore the needs of HEP in terms of **ML workflows/pipelines and microservices** (synergistic with the distributed ML activity)
- Investigate common layers and interfaces (batch scheduler, policies, pilots, ... ) to facilitate portability and interoperability across ASCR facilities in collaboration with **IRI testbeds**
- Create **2 representative HEP experiment workflows** to run two different HPC systems. Candidates include: DESC, LZ, DUNE, LHC Experiments (ATLAS/CMS).

## Sign Up for PAW Mailing List and Meeting

<https://tinyurl.com/cce2-paw> (You can sign up as an observer! )

Initial cce-paw mailing list created with pps and cw members. Will add new members as they sign up.

PAW Weekly Meeting will start on January 12, 2024:  
<https://indico.fnal.gov/event/62577/>