



HSF (Affiliated) SW Projects

HSF Core Coordination Team

WLCG-HSF Workshop 2024, DESY Hamburg

Goal of this Presentation - Feedback

HSF can **facilitate collaboration** on SW development, and **enhance availability/visibility/recognition** of software falling in these two categories:

- HSF projects and software, developed with/by HSF [[HSF GitHub repository](#)]
 - Direct input and maintenance from active HSF members
- HSF **affiliated** projects and software
 - Community projects with dedicated person power
 - No HSF control or responsibility for maintenance, their own repository
 - Can benefit from community visibility that the HSF provides

We would like feedback on the procedures we are proposing to put in place, coming from [this document](#) prepared by the core coordination team.

Engagement, Endorsement and Review of Projects

- Engagement: In order to make a software project/product a HSF affiliated one
 - We welcome project with broad community engagement
 - Proposal: Projects approach HSF through the HSF Core Coordination Team
- Endorsement: by HSF Core Coordination Team (CCT) after evaluation and open consultation
 - Short evaluation by CCT, relevant WG conveners, community experts
 - Evaluation is public and advertised in the HSF Forum
- Reviews: Project reviews with experts
 - Assessing aspects from requirements to implementation
 - Always at the request of the projects or experiments
 - HSF CCT matches project to appropriate external experts

How does the project get recognised?

- List of HSF (affiliated) projects hosted in dedicated web area
- All HSF (affiliated projects) have to commit to software sustainability practices
- Propose GitHub badges depending on maturity, community support and update, engagement and implementation of software sustainability practices
 - **Bronze:** young effort, evolving from few (1 collaboration) users to more, commitment / striving to meet sustainability practices
 - **Silver:** more mature effort, strong community support, guaranteed maintenance in the medium term, high standards of software sustainability
 - **Gold:** adopted by several collaborations and/or experiments, strong long-term support from developers and community, highest software sustainability standards
- Annual Project Awards

Best-practice guidelines

- Still in flow - evolving checklist
- Start from https://hepsoftwarefoundation.org/project_guidelines.html
 - Guidelines, not strict requirements
- Can incorporate other community guidelines
 - See e.g. [EVERSE project](#) talk on Friday
 - Other efforts in the US, e.g. [FAIROS](#) (reinterpretation-focused), [FAIR4HEP](#) (AI-focused) ...
 - FAIR for Research Software ([FAIR4RS principles](#))

Requirements and Reference Implementation

- Realisation of HSF (affiliated) project in practice: *reference implementation*
- Start from a whitepaper (problem, general idea of solution)
 - Solicit community input to agree on problem formulation, specific/concrete requirements
 - Get endorsement (“this problem applies to me”) from experiments / communities
- Use whitepaper as basis for API implementation
- HSF can facilitate development of solutions
 - Model for this process: conditions database used for sPHENIX starting from HSF Conditions Database WG, [[2401.16274](#)] ([talk](#) later this afternoon from Lino)

Letters of support

- We already have a mechanism: [Letters from the HSF](#)
- Letter of **cooperation**: general support for projects aligned with HSF goals
- Letter of **support**: specific support for a project where HSF will be an active collaborator
 - Requires circulation to the whole HSF community
- Mechanism: request to coordination team, then circulate

Funding

- The HSF doesn't have a budget...but it can help with
 - (1) Facilitating connection between sponsors and small grants for travel support at international events (e.g. early career researcher wants to present HSF software project at a conference)
 - (2) Highlighting external funding opportunities and providing advice

Some Brainstorming Points for Discussion

- Do Project Leaders think the concept of affiliation is useful?
- Is there more we can do to recognition of software developers / Research Software Engineers?: are badges enough?
- How does the MC generator community fit in this discussion?
- ...