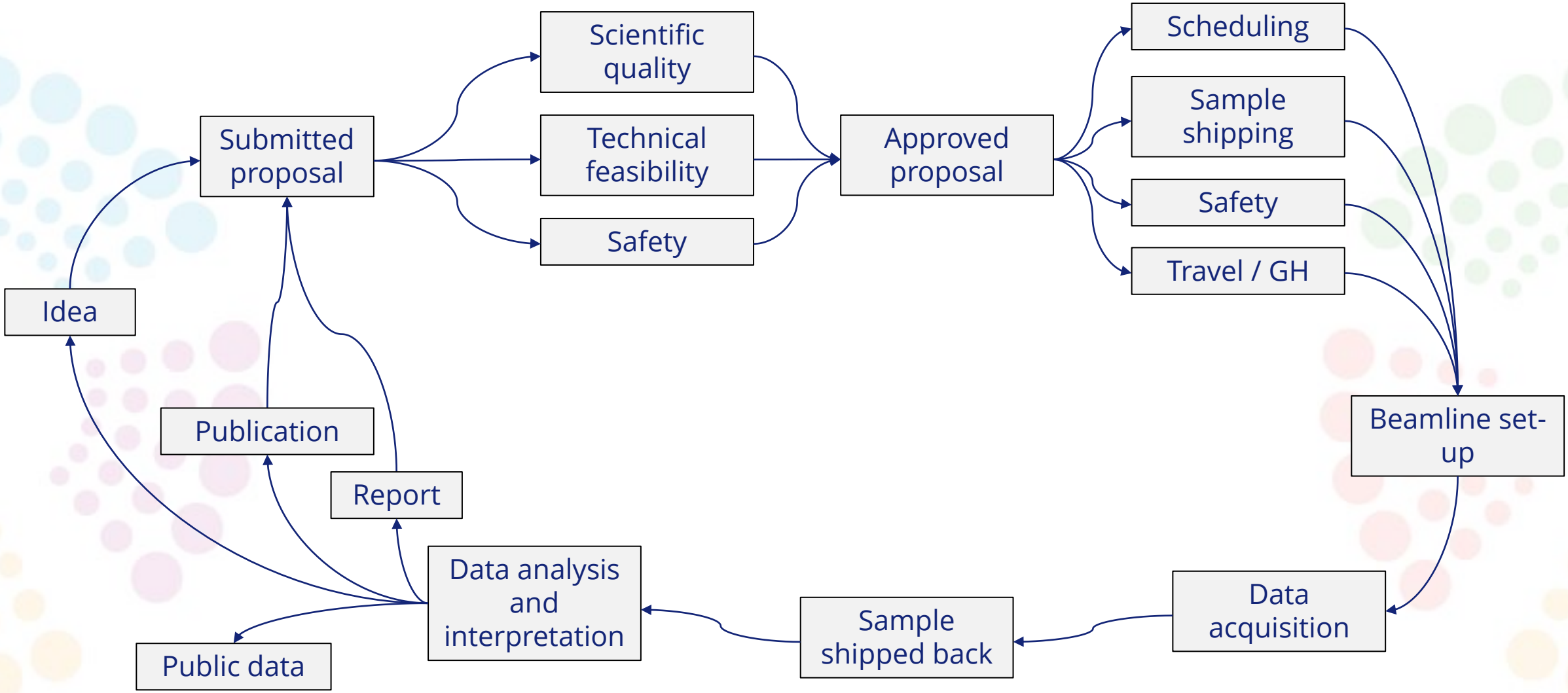
The long process from idea to publication



STREAMLINE has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 870313.

Motivation for new business model - some key figures

Submitted proposal

> 2500 proposals / year

Scientific quality

Technical feasibility

Safety

> 80 proposals / reviewer / year
125 reviewers

Approved proposal

Scheduling

Sample shipping

Safety

Travel / GH

> 100 000 samples / year

Travel budget
15% overspend

Beamline set-up

Data acquisition

Speed x >10

Sample shipped back

Streamline WP3:
- optimize existing models
- create new models

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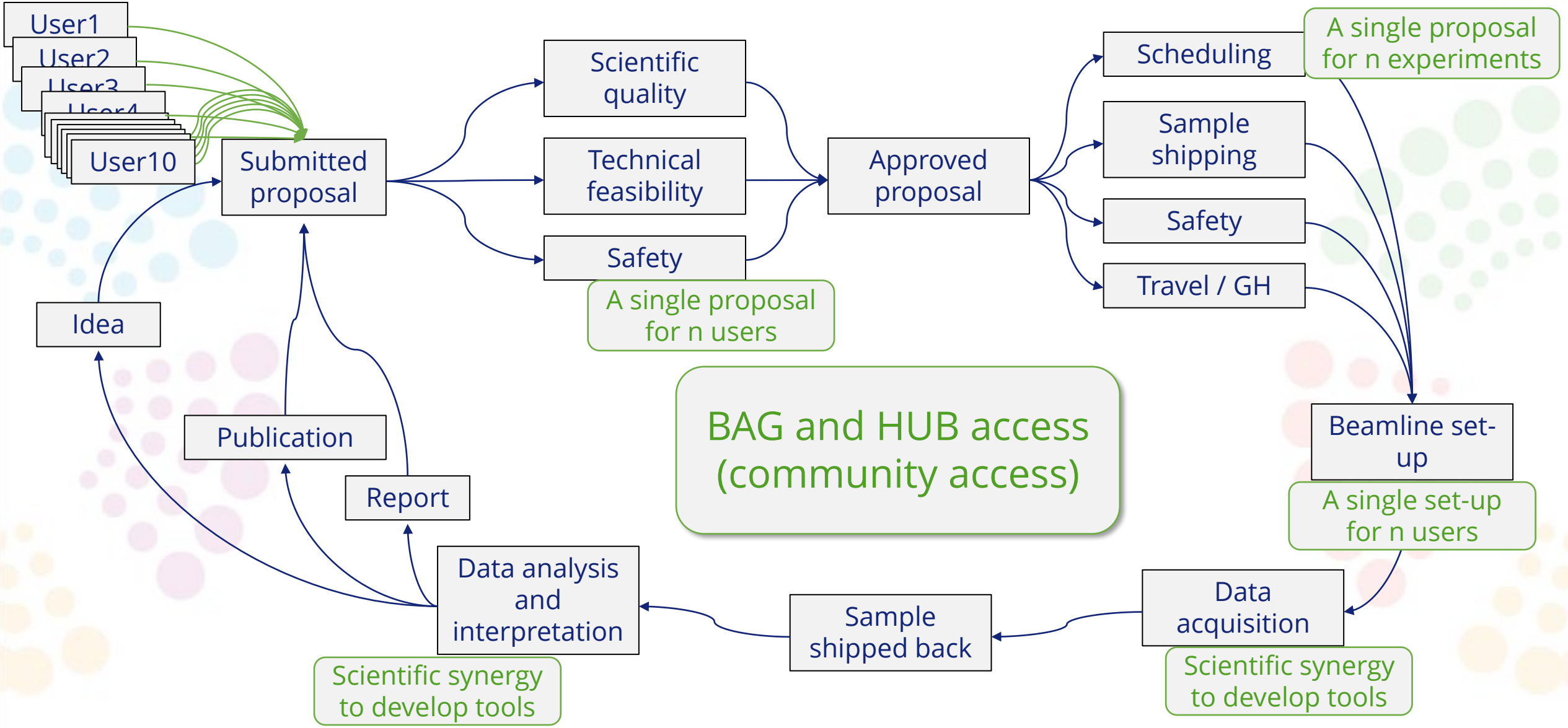
Enabling new access models



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Definition of community access proposals

Community access proposals group together **scientists working on similar scientific topics or themes who apply together as a consortium** for a regular allocation of beamtime at the ESRF to work on that topic or theme. If successful, **the ESRF grants the beamtime to the community** who **decide between themselves how best to distribute the beamtime within the community and for which projects** in order to produce the most impactful science in that field.

In addition to the existing MX BAG proposals, the ESRF is also implementing (i) **BAG proposals for non-MX** topics and (ii) **HUB proposals**.

The essential difference between a BAG and a HUB is that a BAG groups together a number of **independent** Principal Investigators working on similar scientific or technical projects, who **share beam time and decide on measurement priorities**. In general, they **work independently and do not necessarily share results**. The HUB access mode is different in that it groups a number of Principal Investigators (PIs) working on the same major scientific theme, but who **commit to collaborate and work together** to coordinate the beamtime use and **share results** obtained in such a way that progress is faster and more impactful across the field, rather than made incrementally by the different PIs working separately. **This necessitates that the HUB members share knowledge, beamtime data and results prior to publication**.

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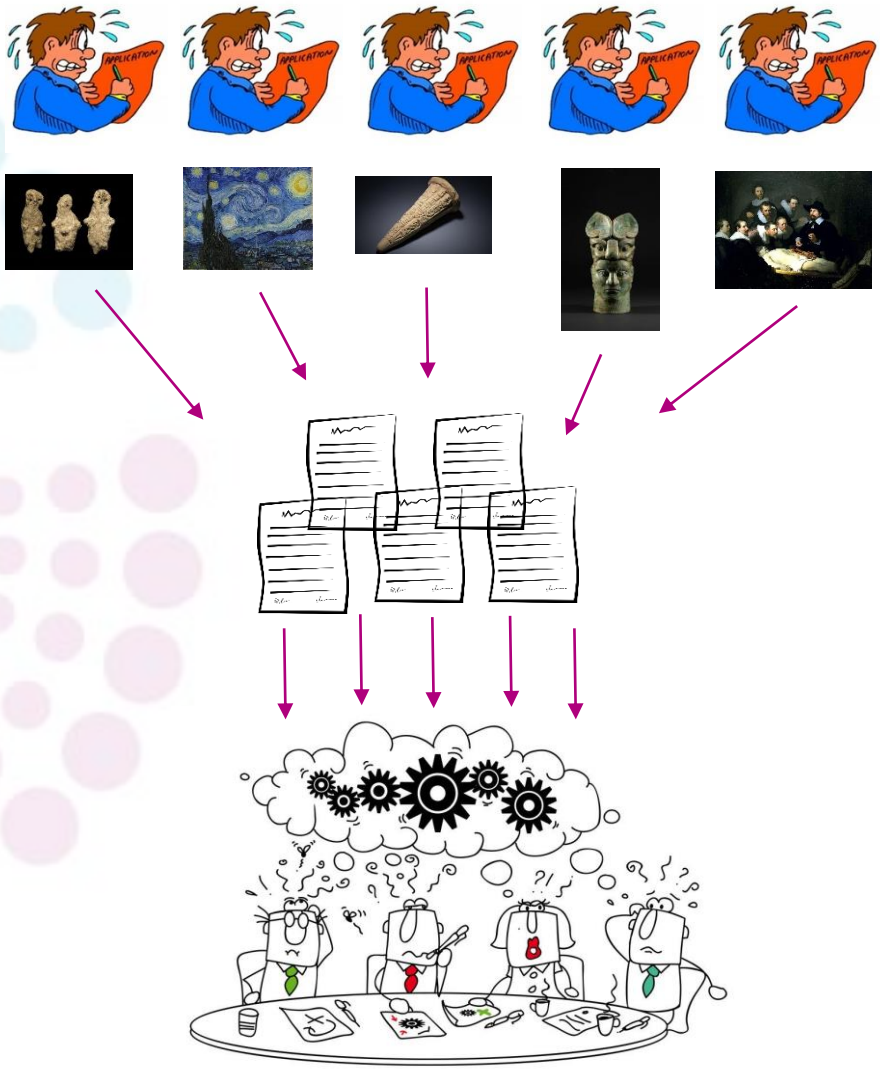
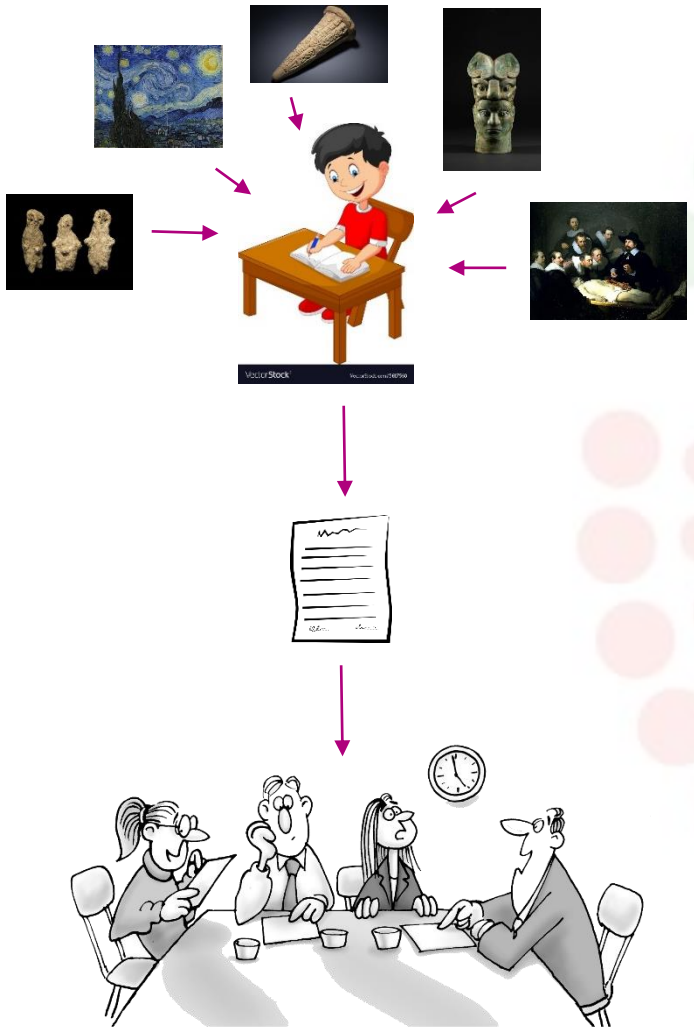
Community proposals – applying for beamtime

NOW



BAG/HUB



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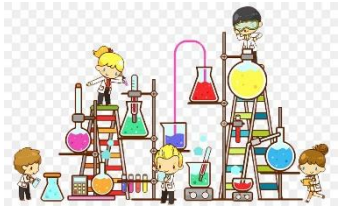
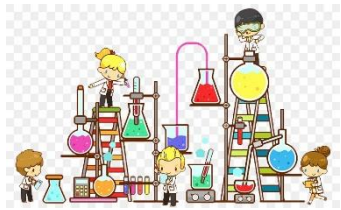
Community proposals – on the beamline

NOW

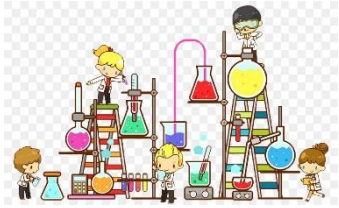


Experiment 1



Experiment 2

BAG/HUB









Experiment 1

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ESRF Community Access Proposals – Pilot Proposals

Definition of sustainable access models

- **Reflection on new access models and selection of pilot projects**

Expand the ESRF role towards an active facilitator for targeted communities

❖ Starting pilot projects:

1. Technique driven: *e.g.* collect the entire “shock” community in a single BAG
2. Science driven: *e.g.* encourage museums to adopt BAG(s) – “degradation of paintings”
3. ESRF as a science hub in selected areas – “Grenoble Battery Hub” (LTP-style)

Creation of an expert working group
(3 SAC members, 3 senior ESRF scientists, DoRs, UO)
to reflect on new access models

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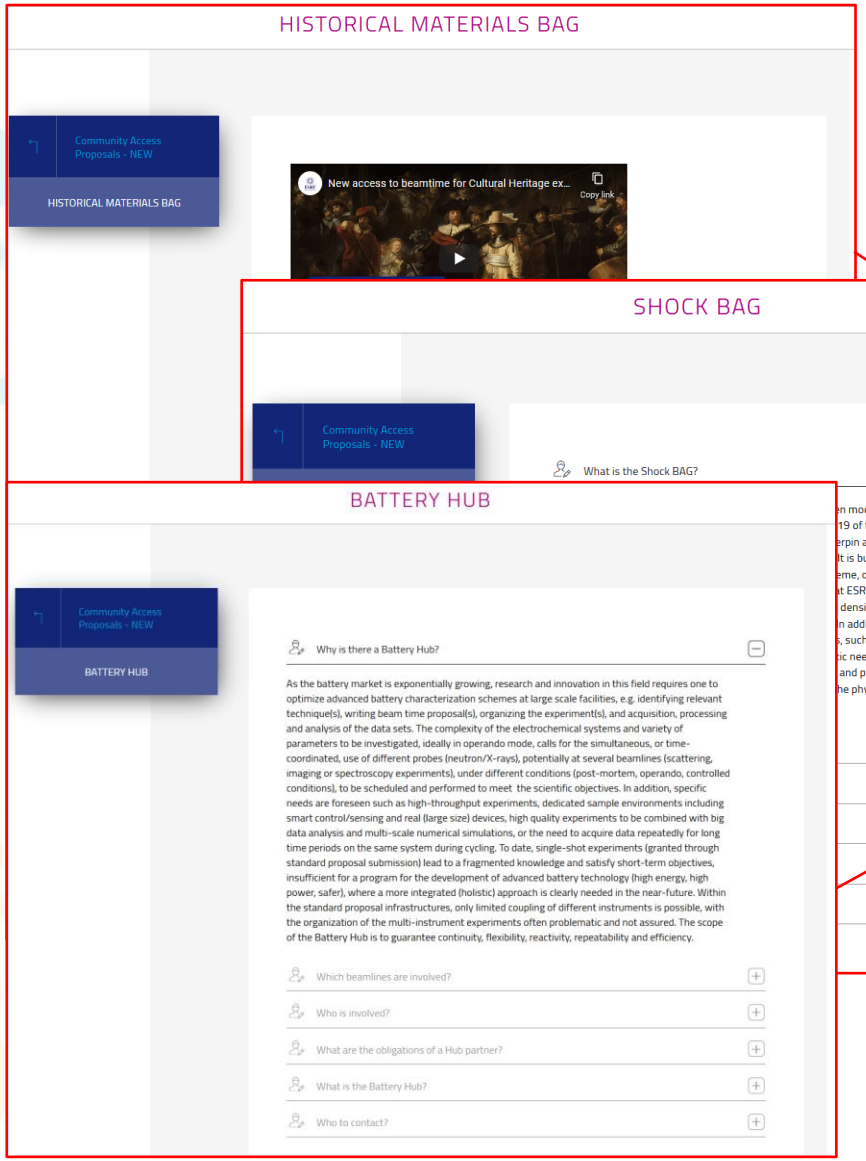
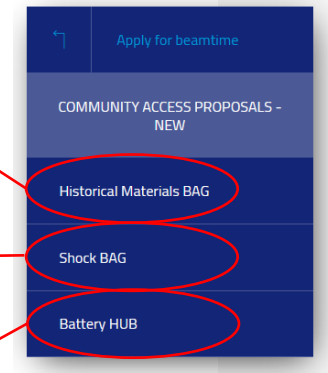
Community Access Pilot Proposals





https://www.esrf.fr/CommunityAccess

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Community Access Pilot Proposals – Aspects to Consider

Aspects to consider

1. **Definition (& conditions) of community access proposals**
2. **Governance - membership of community proposals, transparent and fair beamtime allocation**
   - **formal structure for governance and organization**
   - **sharing of data**
3. **Submission, review and selection - approval process for community access**
4. **Follow up and reporting - documentation, procedures (cycle length, who evaluates, etc), decision making**
5. **Fair balance between different ESRF access modes**
   - **STD, LTP, BAG, HUB, etc**
6. **Further administrative aspects (integration into SMIS, safety aspects)**

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Session on Effective Access Policies – Points for Discussion

Rapid access

1. Proposal required? How is the time counted for in usage stats? Country balance?
2. Who decides on allocation (Review Committees, Management, BL staff…)
3. Time limits for accepting, safety, etc.
4. ….

Community access

1. Do we need to monitor membership? Do we need to police collaboration?
2. Fair balance between different access modes, do we need to ensure individual access is preserved?
3. What limitations in terms of beamlines, beamtime, preferential access?
4. What about competing proposals, how do we keep beamtime reasonable?
5. ….

Cross-facility access

1. Do we really need to know if a proposal is accepted elsewhere? Is it even really possible to know this for sure?
2. ….

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