

HIFIS Software Services – Objectives and current work

HIFIS-Konferenz 2019



HIFIS Software Services



Task: Establish & Support a professional Software Development



HIFIS Software Team



Started between August and October



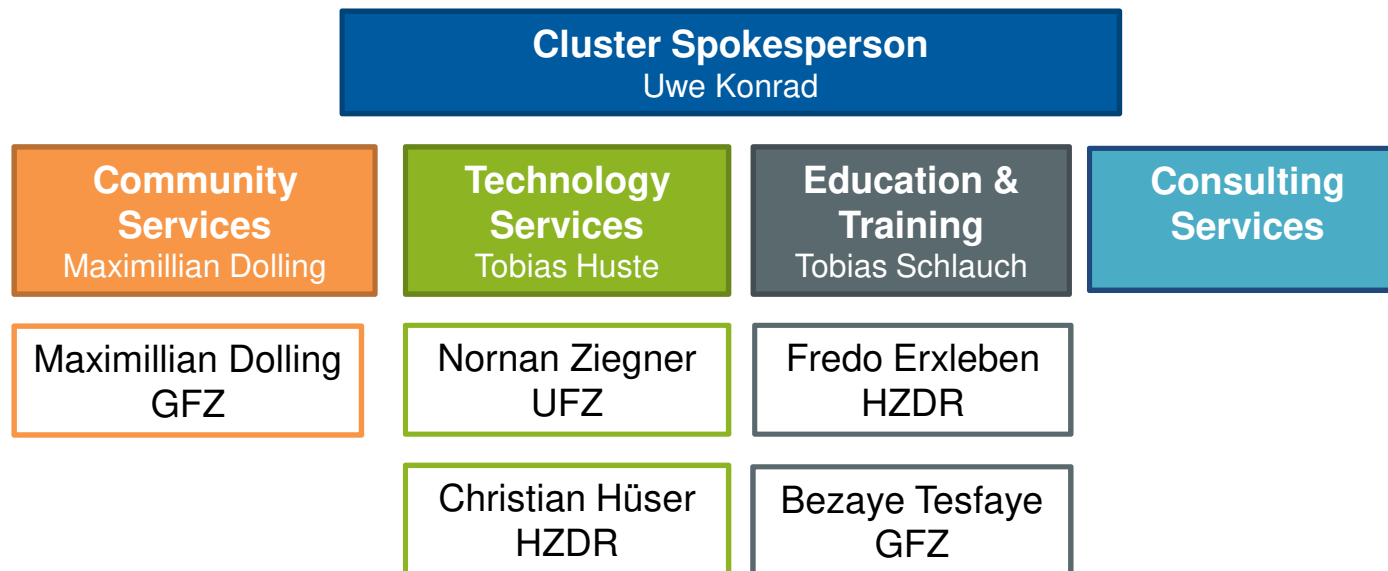
Estimated to start in November



Open Positions



HIFIS Software Team



Training & Education

Basic plan

- **Basic idea:** Align course offer with desired development practice.
- Desired development practice:
 - Short-term topics
 - Basis is going to be laid by the Software Policy (SP)
 - Concept for practical information to accompany the SP
 - Verifiability through introducing suggestions for application classes (compare DLR suggestions)
 - Mid-term topics:
 - Proceed on making advanced practice verifiable
- Provide course offer to enable the desired development practice
- Establish cross-link to the Helmholtz Data Science Academy (HIDA)

Training & Education

Current activities



Consulting Services

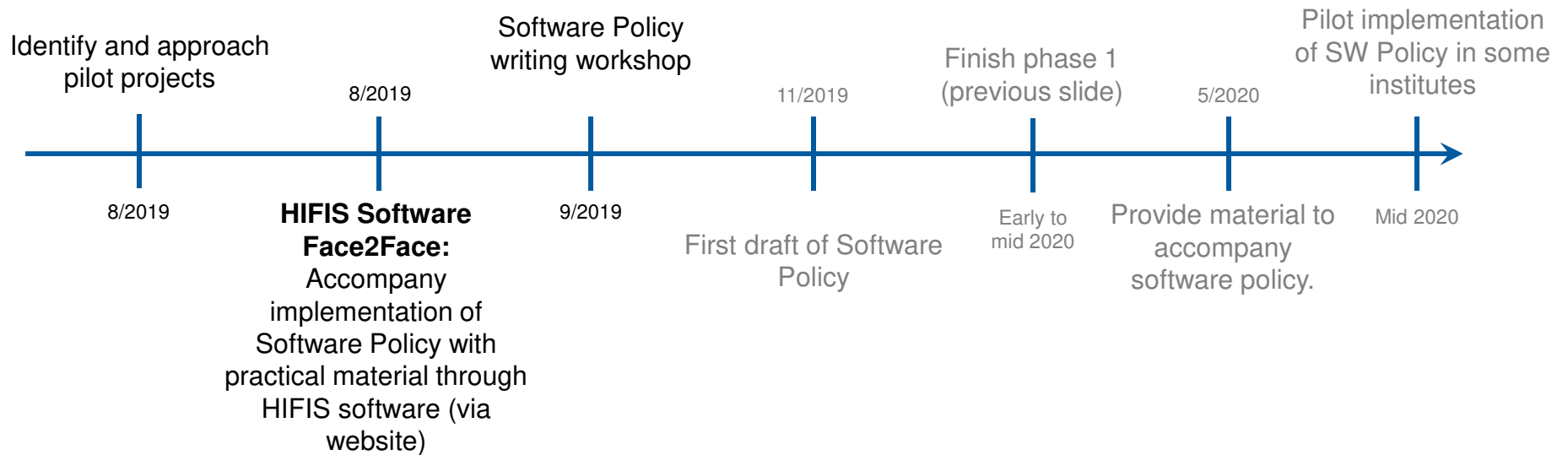
Basic plan

- Creation of a general consulting concept and framework (phase 1)
 - Define the scope of the offered consulting services
 - Prominent presentation of the offers on the HIFIS Software website
 - Setup the required tools
 - Introduce quality criteria
- Implementation of the offers in practice and continuous refinement according to quality criteria (phase 2)



Consulting Services

Current activities



Community Services

Basic plan

- Identify software related topics having potential to create effective communities
 - Hand in hand with 'Training and Education'
- Identify experts within a specific topic, who are willing to invest time. Support them
 - A 'critical mass' must be achieved
- Cross-event-promotion, so that people know about the different communities
 - Promote communities and show benefits



Community Services

Current activities

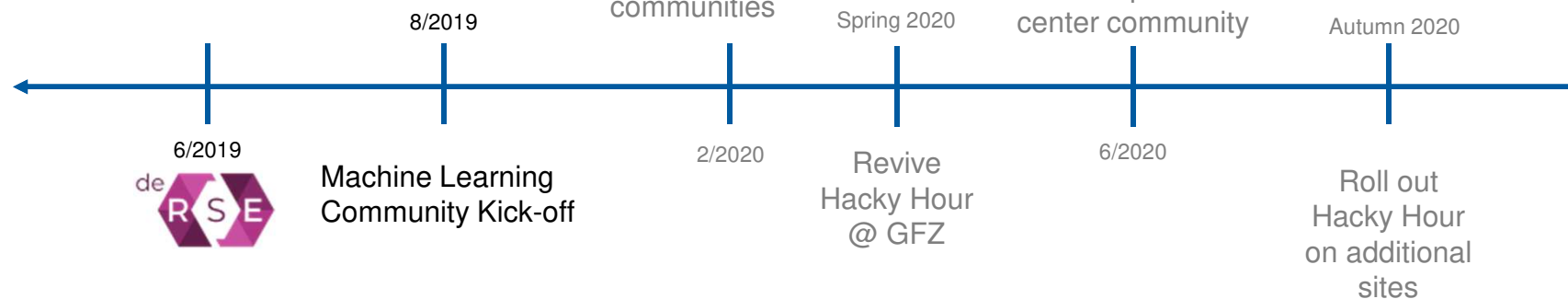
deRSE'19 conference:

- Co-organization
- HIFIS Software presentation
- HIFIS Software workshop

Evaluate ML community

- lessons learned
- create guidelines for building up and sustaining communities

Start first pilot cross center community



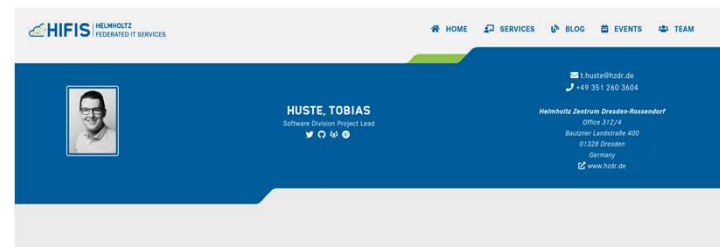
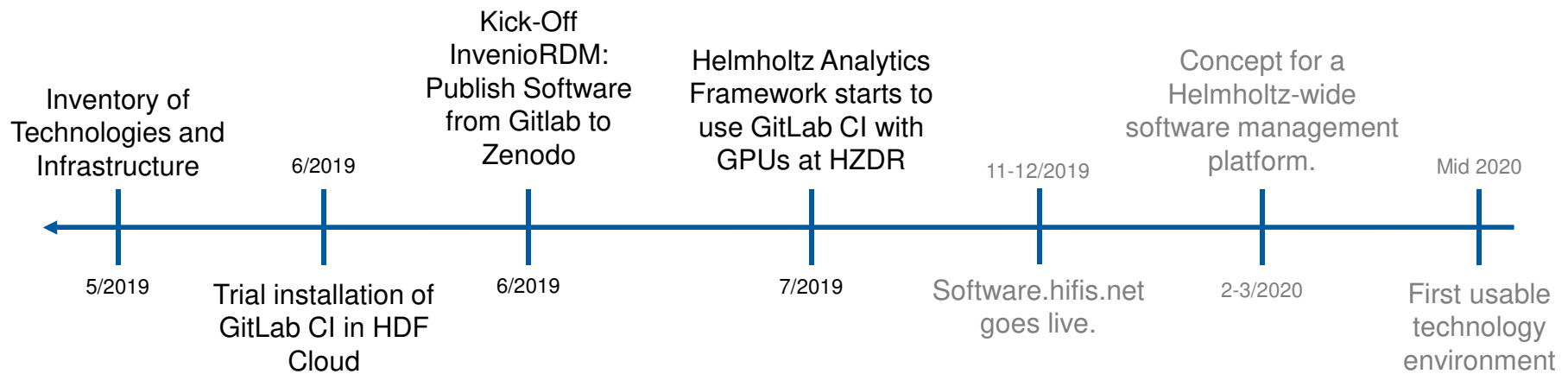
Technology Services

Basic plan

- Create concept for a Helmholtz-wide software management platform (by Q1 2020)
 - Incorporate the findings from the inventory of existing technologies and infrastructure
 - Interaction with existing infrastructure like Helmholtz Data Federation (HDF)
 - Compare free vs paid solutions
- Stepwise implementation of the proposed concept
 - First usable environment expected for spring to mid 2020

Technology Services

Current activities



HIFIS Software Developer Survey



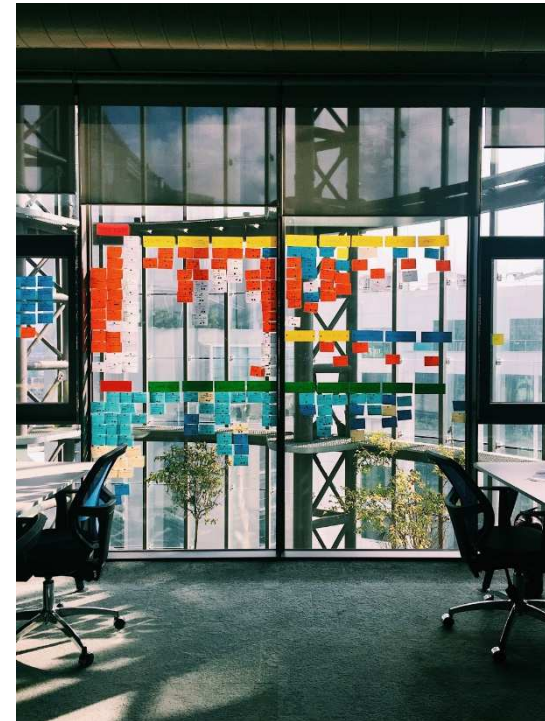
- **Goal:**
 - Acquisition of the status quo
 - Determination on the demand for concrete services
- **Target audience:**
 - All Helmholtz employees who develop software of arbitrary size
 - No categorical exclusion of external participants; Exclusion in the analysis phase
- **Communication:**
 - Open Science Newsletter
 - Various center mailing lists
 - Helmholtz Incubator newsletter
 - deRSE newsletter
 - KODA mailing list
 - ...
- **Official start: 21. to 27. October (Staged rollout)**

HIFIS Workshop

User Story Creation Workshop



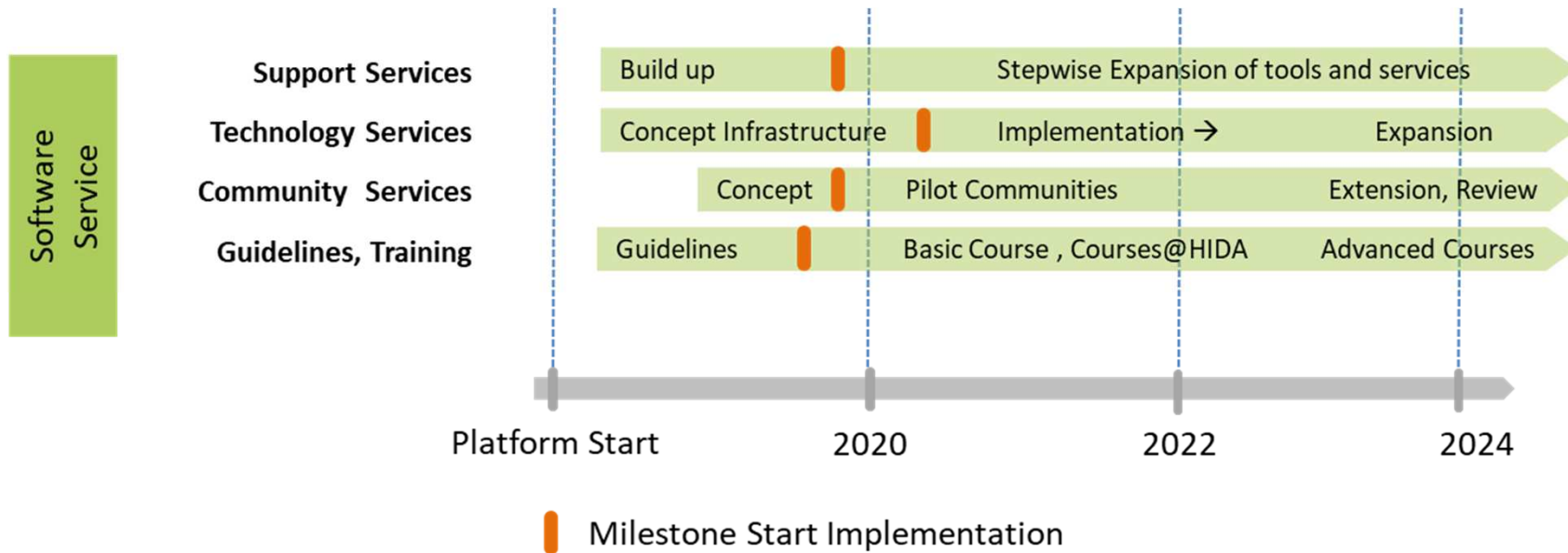
- Interactive session
- Collect expectations and requirements
- Hope for input from many different directions



HIFIS Software Services

Objectives and current work

Proposed Work Packages & Time line



Summary

Helmholtz Software Services will ...

- Empower scientists of any domain to implement and to perpetuate modern scientific software development principles
- Raise software development at Helmholtz Centres to a new level of quality and protect invested efforts
- Be part of an overall Helmholtz ICT strategy
- Provide sustainable services to make research software **F**indable, **A**ccessible, **I**nteroperable and **R**eusable

