ST1 Summary

What are the central challenges of the Subtopic?

Online data reduction

High rate meta data management

full data lifecycle management

Federated, cross-disciplinary solutions

Coomunication between user communities and facilities

Where does online analysis end and offline analysis start

How much control can we give the user?

How to make it easy to move data, e.g. from light source to place where it is analysed

also metadata ontologies

Administrative vs technical reasons to store data. e.g. requirement to store "raw" data for 10 years

How/if to store intermediate files, calibration data etc

Collect example to address the challenges

What actions need to be taken to address these challenges?

Communication:
- open seminar series ST1
- important infos should be communicated cross ST
- common platform (integrated)
  - gitlab, mattermost, metadata, Indico for seminars
- cross talk to be strengthened
  - inter ST meetings, also to introduce people
  - on dedicated topics
- communication to community
  - workshops
  - common workshops with ARD .... MU/MML
  - overarching activities, synergies (NFDI, e.g.)
- adresse incubator and include Helmholtz Digitalisation Strategy

gitlab(HZD up for HG, be che mattermos too (it is cc

Tim

Alexander Debus   Christian Voß   Thomas Gruber

Who will be driving these actions (people, centers)

Communication :
who takes initiative ?
Michael, Volker, Kilian, Yves
Volker: DMA Platform ?
Cross Talk:
Monthly Meeting of MB
ST1-STX Cross ST Meetings (Yves, Kilian)
Community: ST Speakers

Centres: DESY, GSI, FZJ, HIJ, HZDR, (HZB)

What are the specific steps for the next 12 months?

- continue seminar series
- get a picture
  - which facility/community uses which tools
  - synergies
  - gap analysis
- combine this in a first workshop (end 2021)
- start reaching out to communities
- AI: identify communities to address and key persons
- AI identify organising comittee of ST1 workshop
- CROSS Subtopic Seminars to be organised

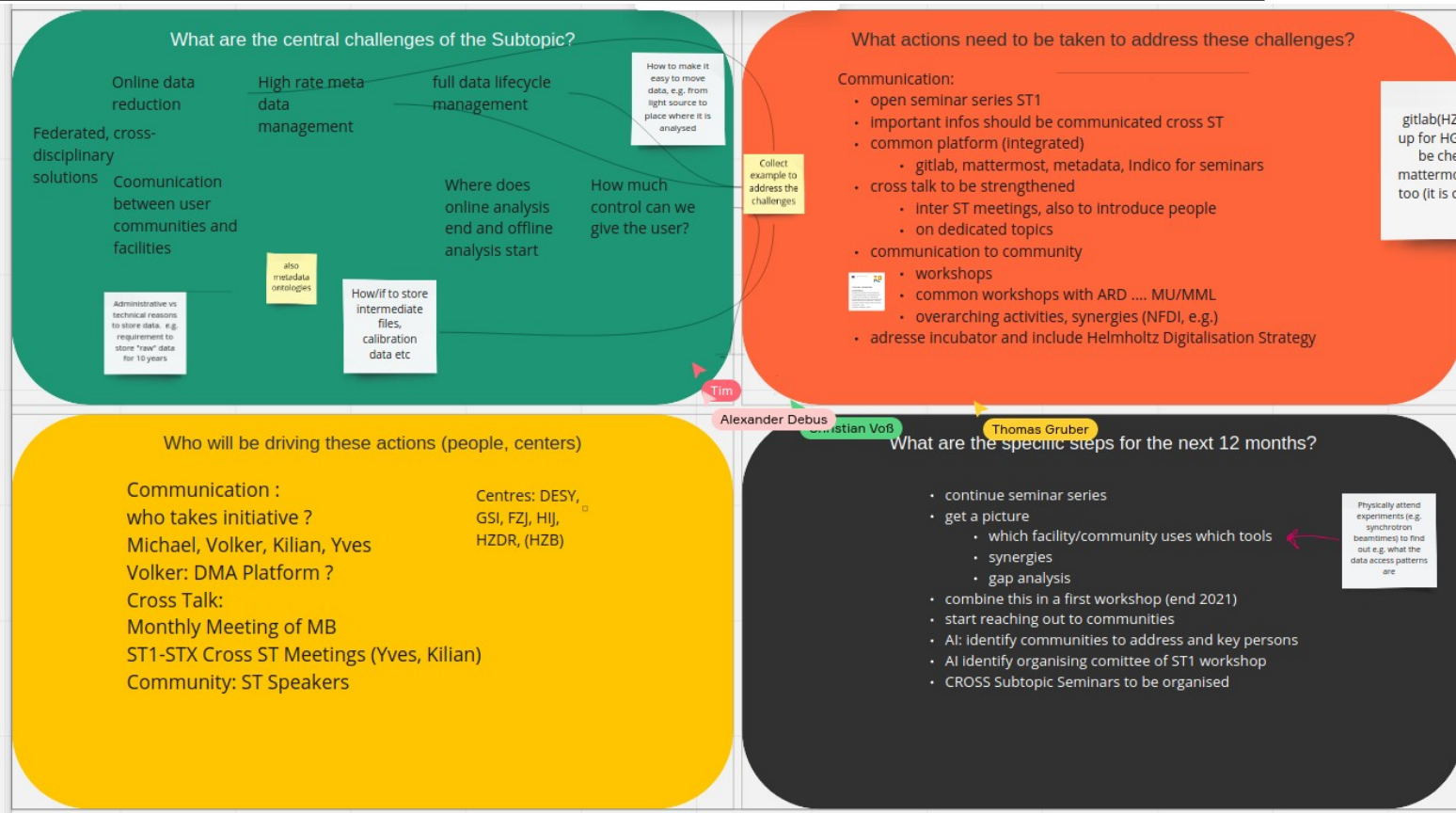Physically attend experiments (e.g. synchrotron beamtimes) to find out e.g. what the data access patterns are

Miro1: central challenges

- Online data reduction
    - Where does online stop and offline start ?
- Federated, cross disciplinary solutions
- Communication between user communities and facilities
- Metadata ontologies
- High rate meta data management
- Administrative vs. Technical reasons to store „raw" data for 10 years
- how/if to store intermediate files, calibration data, etc
- Full data lifecycle management
- How much control can we give the user
- How to make it easy to move data, e.g. from light source to the place where it is analysed

Miro2: actions to be taken

- Communication
  - Open seminar series of ST1
  - Important infos should be communicated inter ST
    - Mattermost good candidate, up to then use mailing lists
  - Common platform (integrated)
    - Gitlab, mattermost, metadata, Indico for seminars
    - Gitlab at HZDR is set up for HG, should be checked if mattermost is open, too
  - Cross talk to be strengthened
    - Inter ST meetings on dedicated topics, also to introduce people
  - Communication to community
    - Workshops
    - Common workshops with ARD, MU, MML, DTS
    - Overarching activities, synergies (NFDI, EOSC, …)
  - Address Incubator and include Helmholtz Digitalisation Strategy
- Collect examples to address the Challenges

Miro3: who will start actions

- Participating centres: DESY, GSI, HIJ, FZJ, HZDR, (HZB)
- Communication
  - DMA heads + ST1 speakers for initial discussion
  - Volker: DMA Platform, due to HIFIS experience
  - Cross Talk
    - Other topic speakers
  - Monthly Meeting of MB
    - On topic interaction, ST1 speakers for start
  - ST1-Stx Cross ST Meetings on cross cutting topics relevant for ST1 (Yves, Kilian)
  - Community: ST Speakers
  - GitLab, Mattermost: HZDR to check

Miro4: specific steps for 12 months

- Continue ST1 seminar series
- Get a picture
  - Which facility/community uses which tools
  - Synergies
  - Gap analysis
- Combine this in a first ST1 workshop (open to DMA) probably end of 2021
- Start reaching out to communities
- AI: identify communities to address and key persons
- AI: identify organising committee of ST1 workshop
- Cross Subtopic Seminars to be organised
- Physically attend experiments (e.g. synchrotrons, beamtime) to find out e.g. what the data access patterns are

Introduction ST1

- - Jens Viefhaus: General Question on Gap-Analysis, facing Req from other subtopics -> address funding from ST1 point of view

-   Answer: Get clear picture of needs for communities/centres -> GAP analysis, Workshop for communities/STs discussing proposal, work together on dedicated communication channels between STs

-   Michael: Funding from other ST, Work at Centres for the Centres as challenge. DMA platform to level synergies. Reuse solution from on centre to others. DMA-amount -> how to make it available in broader solutions. Organisational challenge -> Ansatz for creating community the connects all communities.

Discussion Planning ST1

- - Thomas White: How to get notifications on seminars -> Email to ST1 Mailing list or directly to Kilian Yves

-   Michael -> make everything more visible throughout DMA to clarify interaction between ST

- - Volker -> HIFIS connection to use Helmholtz AAI to setup S4M DMA platform as central point for everything in DMA, Synergy with HIFIS. No island solutions.