



eFEDS+eRASS Planning. Report of Cluster WG

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Cluster working group

FTE, X-rays

- X-ray: 9 FTE (presentation by Dominique)
 - Background model: 2 people 0.5 year prior to eFEDS + 4 people, 0.5 year after, 2 from background WG=3FTE – completed in 2019
 - Modelling: 4 people in 2019 (new hires+outsourcing 1 to Daisuke Nagai) = 4FTE - completed in 2019
 - Mass proxies: 2 people, 0.5 year starting with eFEDS=1FTE in 2019, continue in 2020 with 4 people. Complete in 2020.
 - Catalog production $\frac{1}{4}$ year, 4 people=1FTE – delay the end of eFEDS to acquire resources by $\frac{1}{4}$ year (March 2020), eRASS1+2 = $\frac{1}{2}$ year in 2020, complete by Sep. 2021.
- Proposal to allocate 15 FTEs by end of eRASS2. Demanding. Outsourcing on modelling. Strategic planning within MPE. Add X-ray people at Bonn.

Optical ID

- 3 FTEs are requested (Matthias talk) to extend the cluster identification to low mass systems
- Larger FTE request for SDSS-V and 4MOST underway, starting 2020
- 3 people are available (2MPE, 1 LMU)
- Recommendation is to maintain this at this level. Potentially adding experience on dynamical mass calibration to help other packages.
- This implies 9 FTE by the end of eRASS2.
- Teach them X-ray stacking (Ghazaleh knows already) to beef-up HSC projects

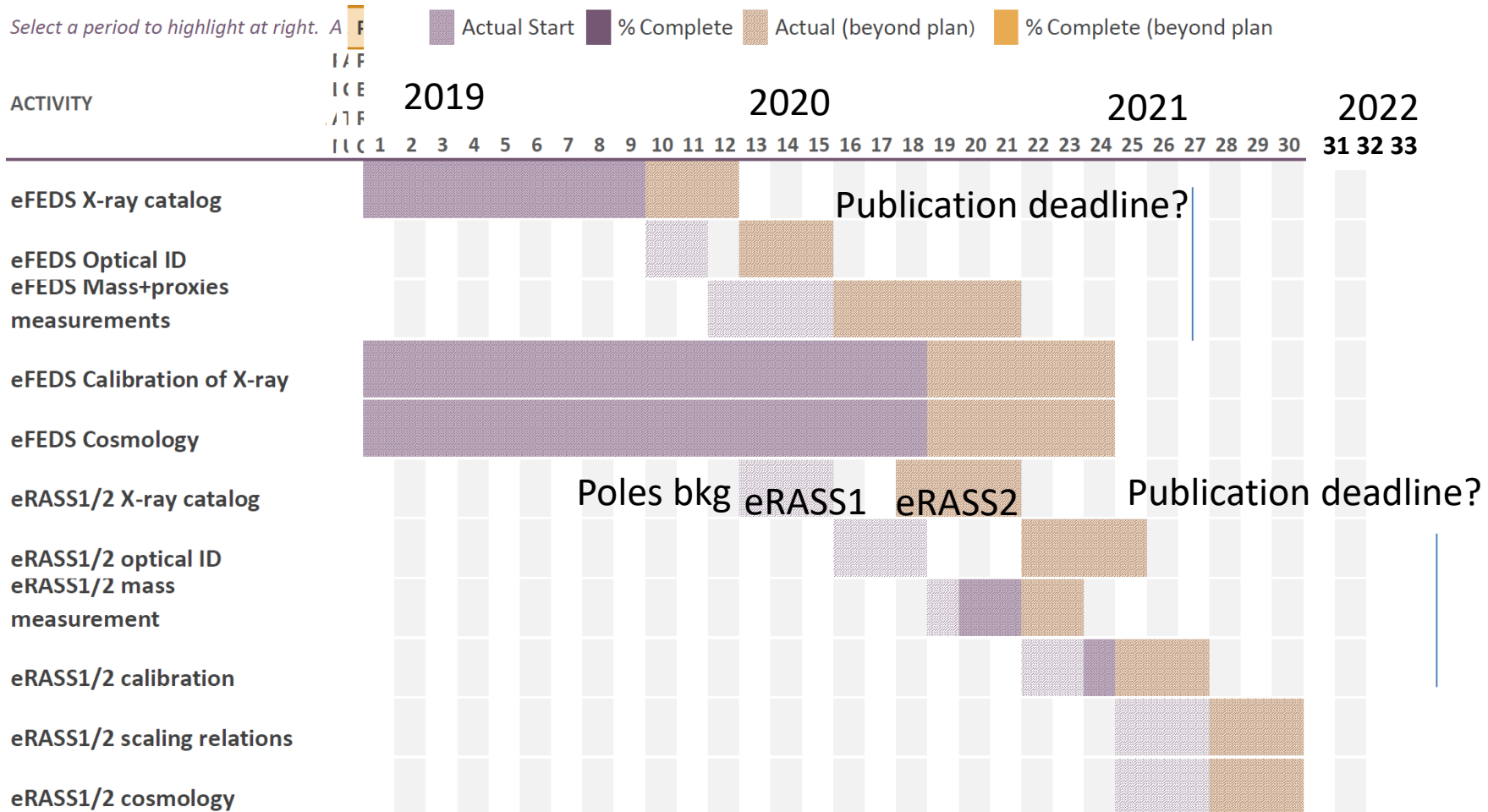
Lensing

- 12 FTEs requested (presentation of Tim). 2.5 years to final production, 2 people at Bonn, 2 at MPE, 1 at USM, =12.5 FTE by the end of eRASS2
 - Outsourced on eFEDS
 - Assume required uncertainty prior to completion of the work
 - Provide calibration of eRASS2 using eRASS1 catalog in order to reduce the delivery time for the main cosmology project

Scaling and cosmology

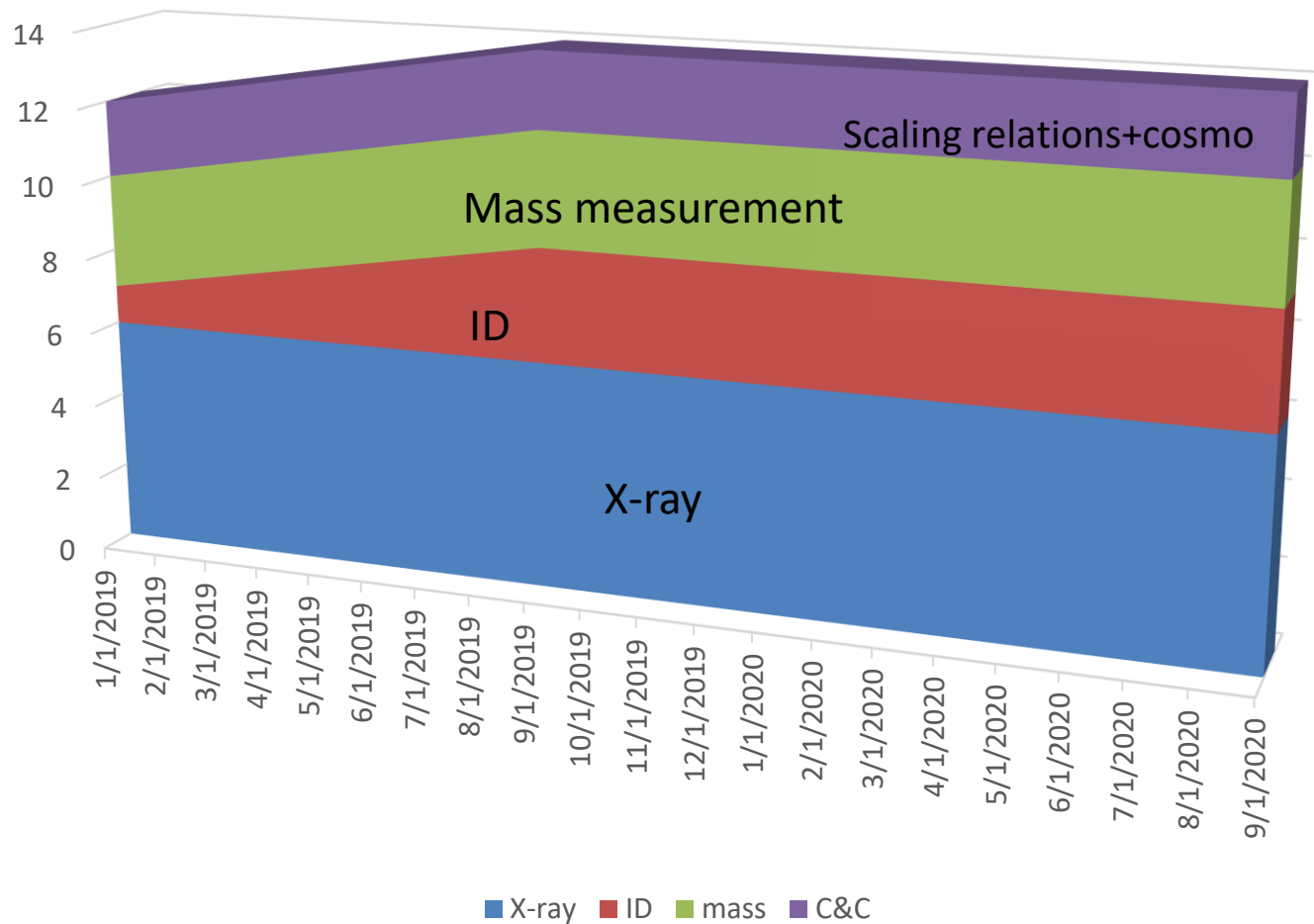
- 5 FTE are requested (Sebastian's talk)
- 2.5 years to delivery.
- Likely need 2 people in parallel (USM?)
- Proposal to outsource 1 FTE (e.g. EC to Steffen Hagstotz), ask Jochen Weller to contribute
- Proposal to allocate 10 FTE within 2.5 years (by completion of eRASS2)

Project Planner



Proposed of manpower distribution

FTE



Conclusions

Performance of the key project will likely take all the resources available at CWG. But this is doable.

Favorite scheme: eFEDS+eRASS2, with eRASS1 used for training the calibration

revised publication deadlines:

eFEDS – mid of 2021 (2 year after data taking)

eRASS2 – end of 2022 (2 year after data taking)