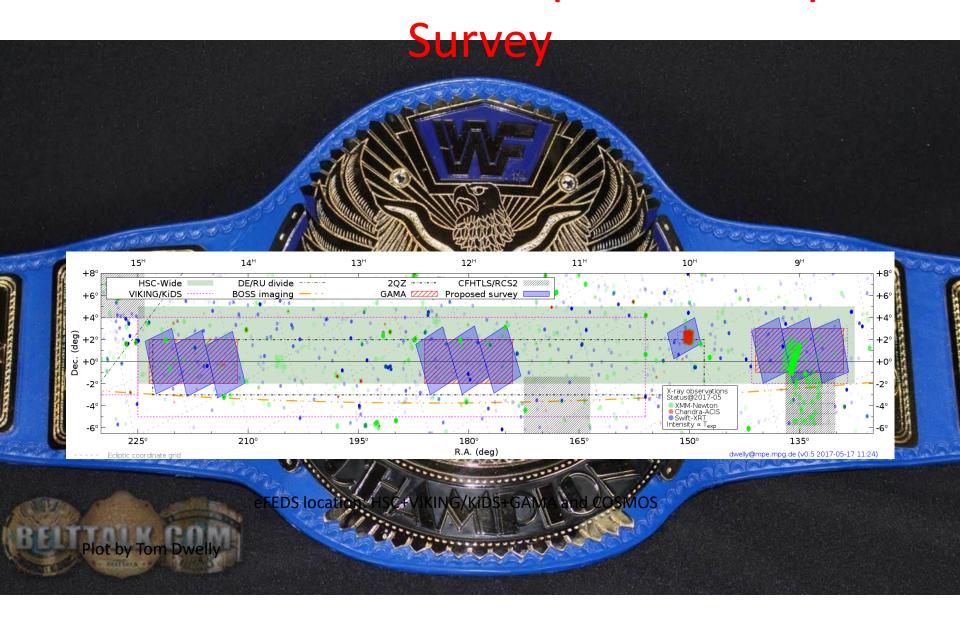
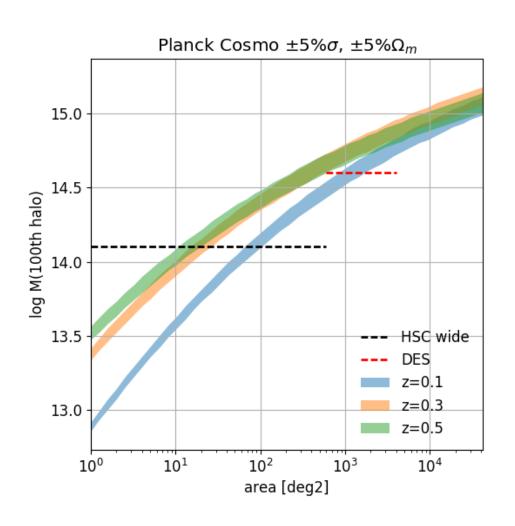


#### eFEDS:eROSITA Full Equatorial-Depth



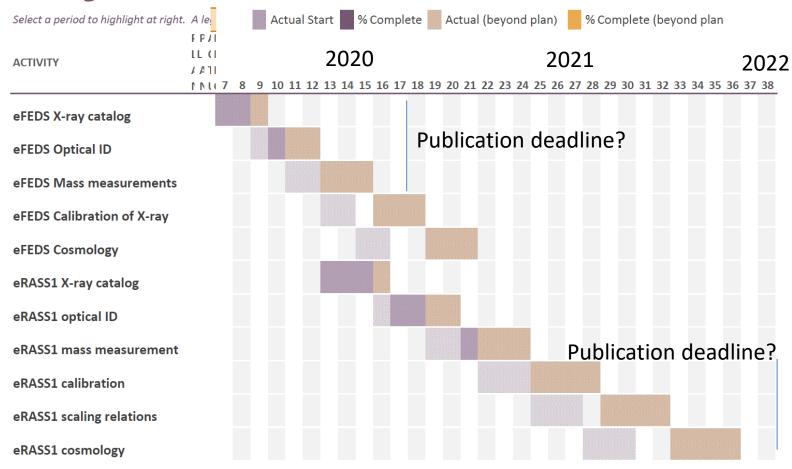
## Why do we need it?



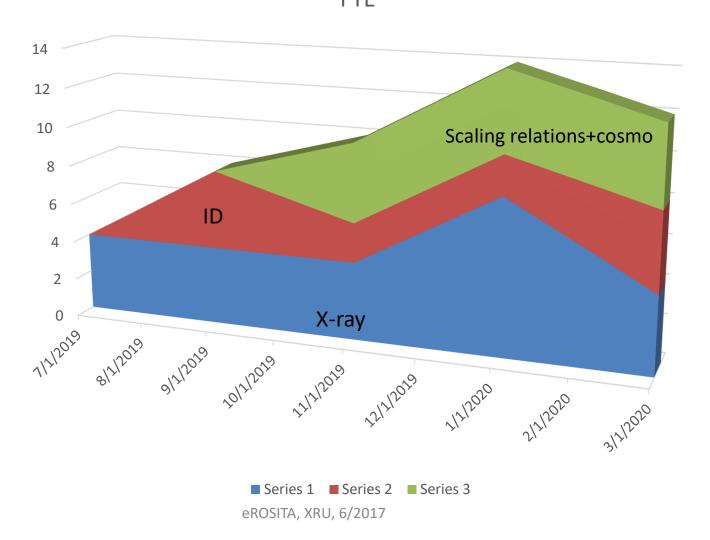
#### eFEDS projects

- Testing eROSITA cluster detection:
  - We will probe the most challenging systems!
  - Test that we are ready to kick the cosmology ball!
  - All that ready to work on in June 2019
  - Deliver realistic timeline for main eROSITA cosmology work
- eFEDS main cosmology
  - Validation of cluster detection pipelines by their ability to achieve cosmology
  - HSC mass calibration
  - KIDS mass calibration
  - Various ways to do cluster ID: cross-check
- eFEDS-HSC other
- eFEDS-GAMA other

#### **Project Planner**



# Example of manpower distribution



#### eFEDS-HSC

http://hscerosita.pbworks.com/w/page/124298769/Clusterprojects

#### eFEDS-HSC: Project A

#### A) Mass calibration and cluster cosmology for eFEDS clusters

A1: Identification of eFEDS extended X-ray sources as galaxy clusters using HSC data. Comparison between HSC, DECaLS and PS1 cluster identification.

A2: Robust WL mass measurement for eFEDS clusters

A3: Calibration of mass-X scaling relations with HSC weak lensing for cluster cosmology

A4: Cosmological constraints from an abundance of eFEDS clusters

A5: Optical properties of eFEDS clusters

A6: Multivariate scaling relations

#### eFEDS. Project B

#### B) X-ray and multi-wavelength studies for opticallyselected clusters

B1: Stacked X-ray analysis of optically selected clusters out to z~1.4

B2: Scaling relations for optical clusters

### Specific of eFEDS projects

- Primarily a test on the X-ray group, as multiwavelength rely on the HSC collaboration
- Dependence on external collaborators potential problems with the schedule (we already see it in the pilot project): we can remove it by using KIDS.
  This will also test our readiness on the calibration
- On cluster ID, the plan is to run various identification pipelines – and we can start testing it already, using GAMA galaxy group catalogs