

# AGN WG report

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AGN WG

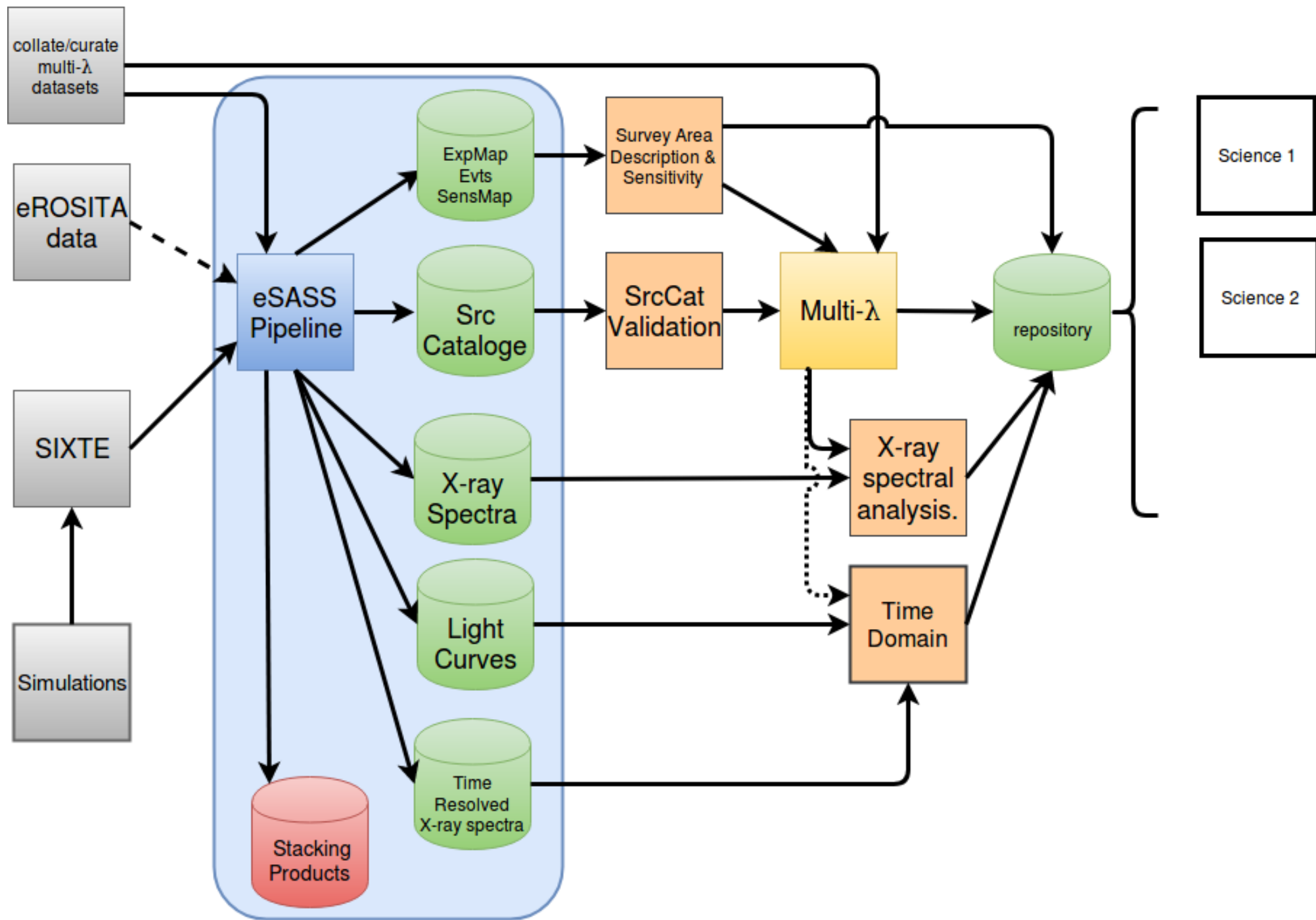


# eFEDS Science Papers (Team)



1. Data release “mandatory” papers:
  - a. eSASS X-ray catalogue (**Brunner? Key Project?**)
  - b. AGN catalogue – via identifications, photometry, photo-z (**Salvato**)
  - c. Optical spectroscopy: e.g. optical types, BH masses, Mdot (**Comparat**)
  - d. X-ray luminosity function (can be combined w/Chandra) (**Georgakakis, Nandra**)
  - e. X-ray spectra, obscuration, reflection (+contribution to CXB?) (**Baronchelli, Liu, Nandra**)
2. “Optional” science papers that can (or sometime must) come later:
  - a. AGN Clustering based on Sloan spectra (**Comparat, Georgakakis, Krumpe**)
  - b. AGN/Galaxy cross-correlation – in GAMA  $z < 0.2$  (**Georgakakis, Krumpe**)
  - c. Luminous obscured quasars: searching for powerful outflows (**Brusa, Urrutia**)
  - d. Large variables ROSAT-XMM/eROSITA (**Bogensberger, Boller, Freyberg, Liu, Ponti, Rau, Malyali**)
  - e. Large term-spectral variability vs. Chandra/XMM (**Liu**)
  - f. Variability within eFEDS scans - feasibility study for eRASS? (**Bogensberger, Krumpe, Ponti**)
  - g. AGN Host galaxies (**del Moro**)
  - h. Compton ghosts (**Lamer**)
  - i. Strong lenses – looking for double/multiple AGN (**Lamer**)
  - j. High  $z$  AGN (**Nandra – possibly new MPE student?**)
  - k. Incidence of radio/X-ray AGN in low- $z$  galaxies and/or mergers (**Merloni**)
- AGN, non-eFEDS:
  - a. 1H0707 observation (**Boller – PI**)
  - b. Cal test scan: large variables (**Cal team gets priority – see also 2d., 2e. .**)
  - c. Cal test scan: SEP variables (**Cal team gets priority – Nandra CAASTRO proposal**)





# Summary of status and actions

- identification of X-ray sources with multi-wavelength counterparts. Identified flow-chart of activities
- Photometric redshifts: data / methods in place
- X-ray spectral analysis: need to adapt existing code
- end-to-end simulations to test tools
  - Time-domain
  - X-ray spectra
  - Luminosity function
  - eSASS