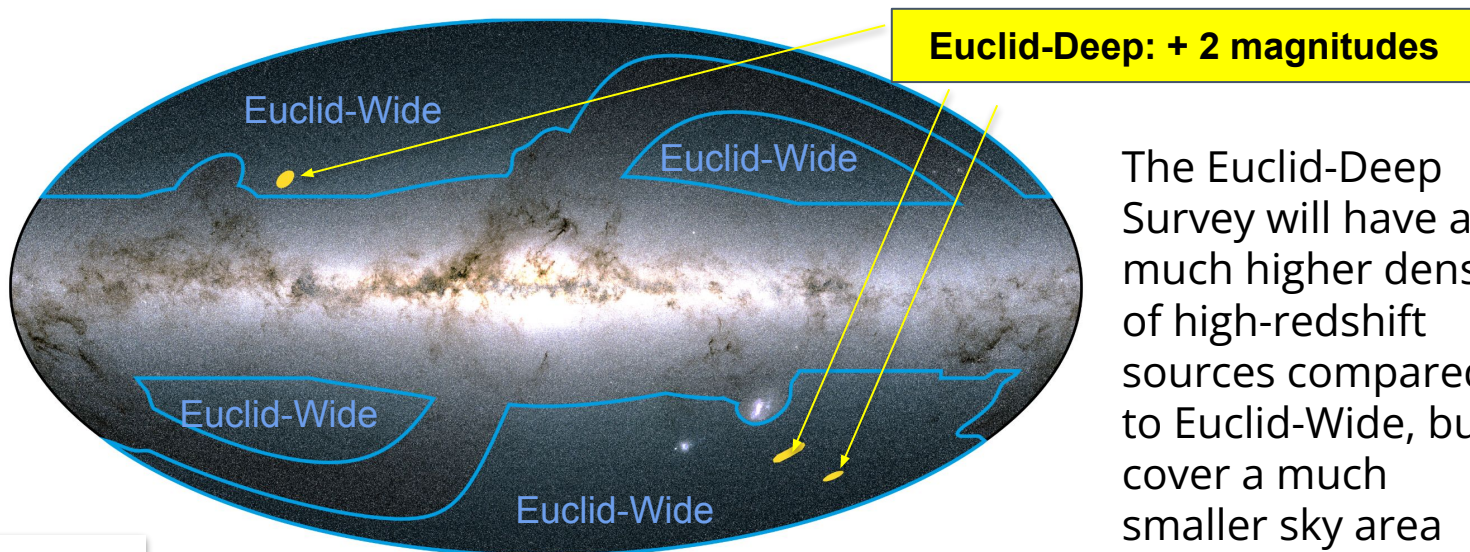
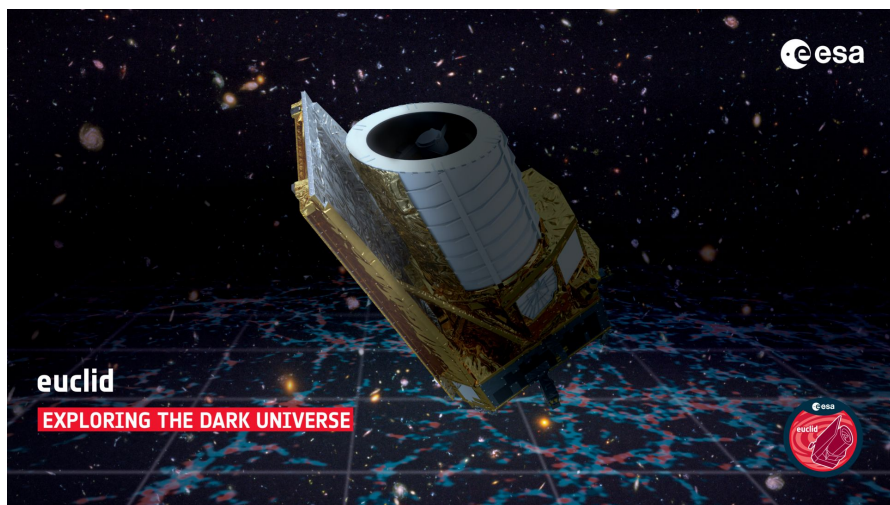


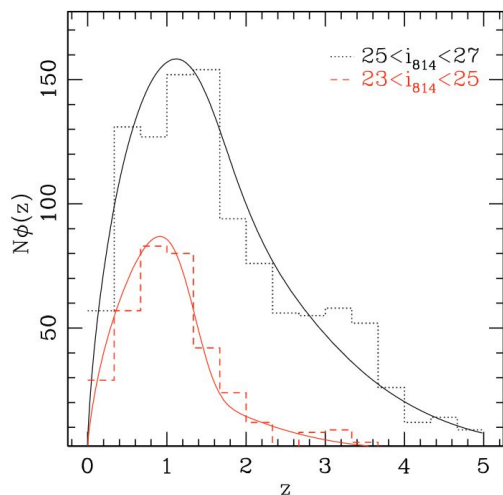
Topic 3: Prospects for weak lensing in *Euclid's* Deep Survey



The Euclid-Deep Survey will have a much higher density of high-redshift sources compared to Euclid-Wide, but cover a much smaller sky area

Credit: ESA

The Euclid Deep Survey and the Euclid Wide Survey
 ■ Euclid Deep Fields (left to right) : North=20 deg², South=23 deg², Fornax=10 deg²
 □ Euclid Wide Survey region of interest : 17,354 deg²



Galaxy redshift distribution in two magnitude bins in Hubble deep field data (Schrabback et al. 2010)

Questions to answer in this Bachelor thesis project:

- Can Euclid-Deep improve weak lensing measurements of the masses of high-redshift galaxies & galaxy groups?
- How robustly can we select high-redshift background galaxies in Euclid-Deep and Euclid-Wide data?