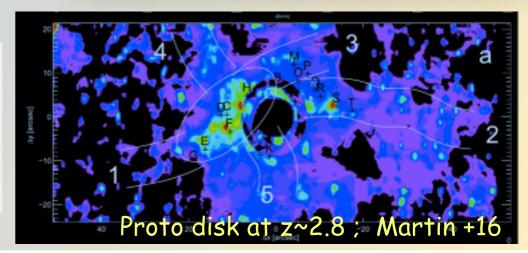


New Paradigm for galaxy formation in CDM :

- * collapsing virialized gas forms a hot halo and slowly cools to fuel SF
- * cold accretion flows transports 10⁴ K gas from CW filaments to gal. disks: direct channel to fuel SF & transfer of AM



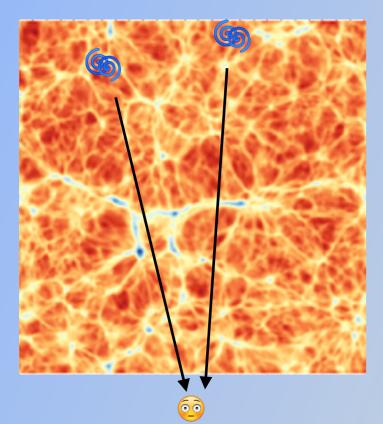


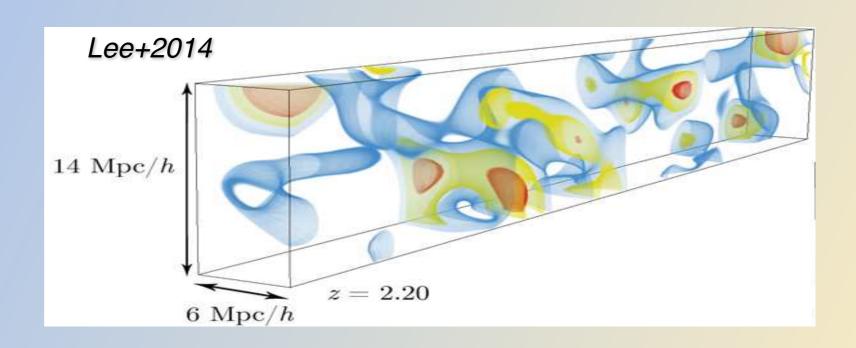
Strategy to Map the Cosmic Web

-1- with the IGM

* in emission with CIV, OVI... lines in UV & X: with FIREBALL (UV) at z<2

* in absorption with Ly-a forest with QSO and LBGs : IGM tomography at z>2

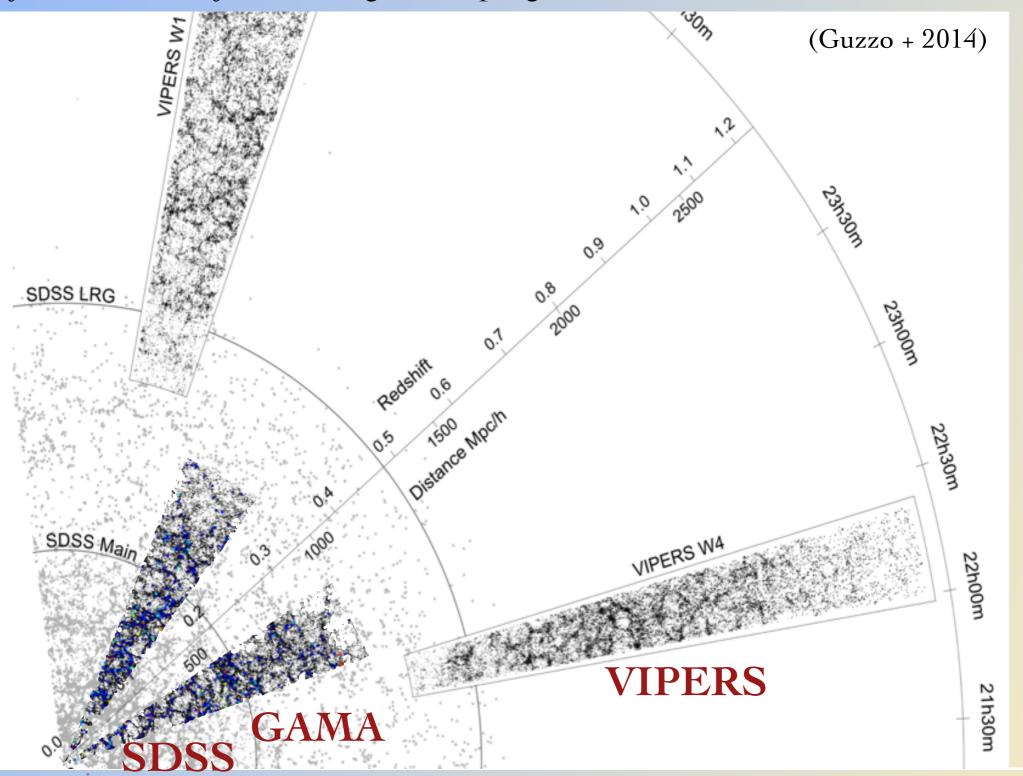




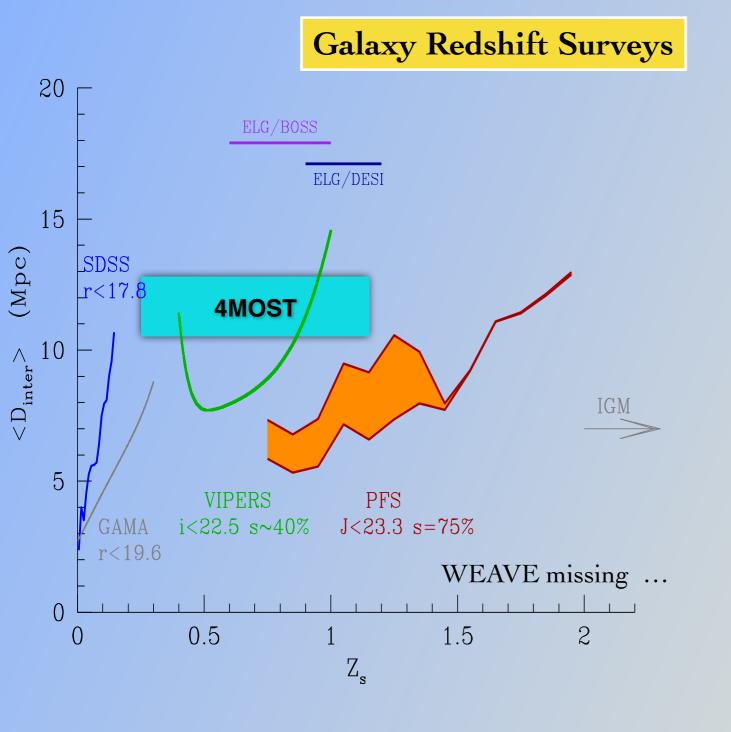
Strategy to Map the Cosmic Web

-2- with the Large Scale Structure

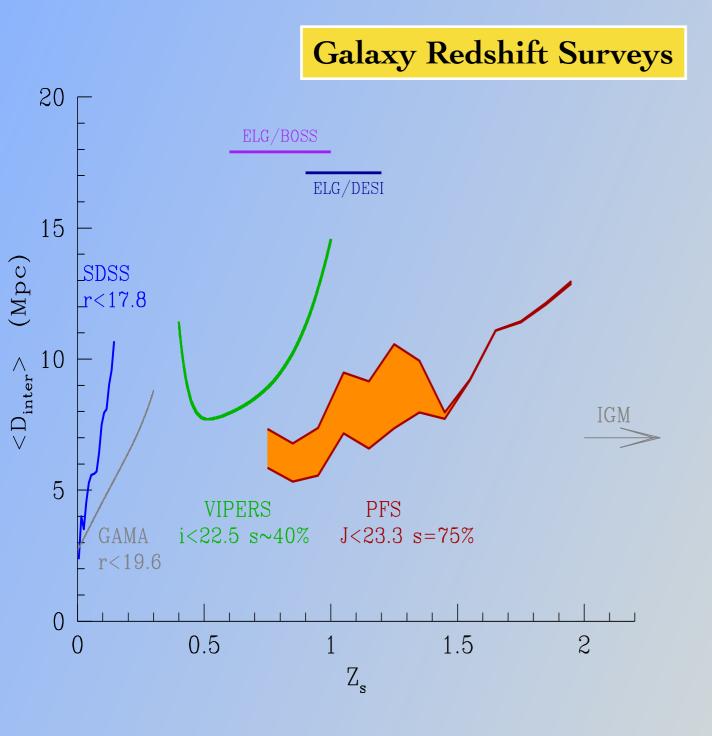




Compilation of present and future surveys with their respective efficiencies to map the CW : volume density



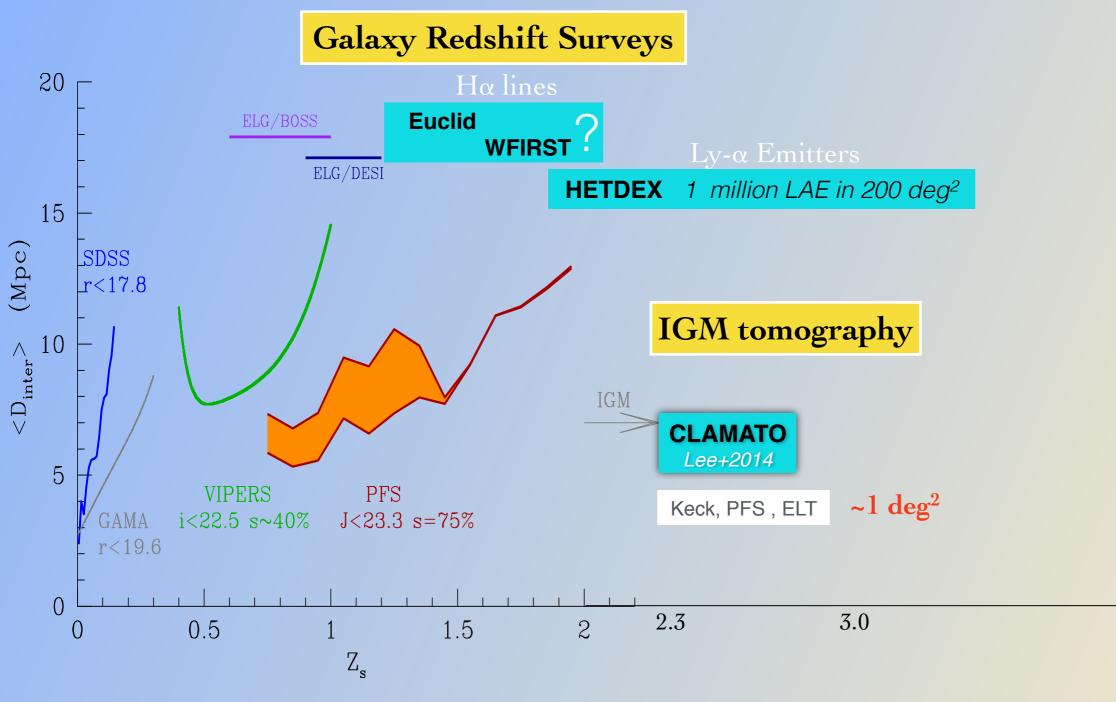
- * future at ESO not optimal :
- VIMOS (decommissioned).
- focus on 4MOST z<1
 12 million sources 20<V<22
- WEAVE ?
- MOONS (+ MUSE ...) too small
- * on-going discussion at ESO for the need of a dedicated 8-10m telescope (R. Ellis) ?
- * future of CFHT : 10m telescope MSE ?



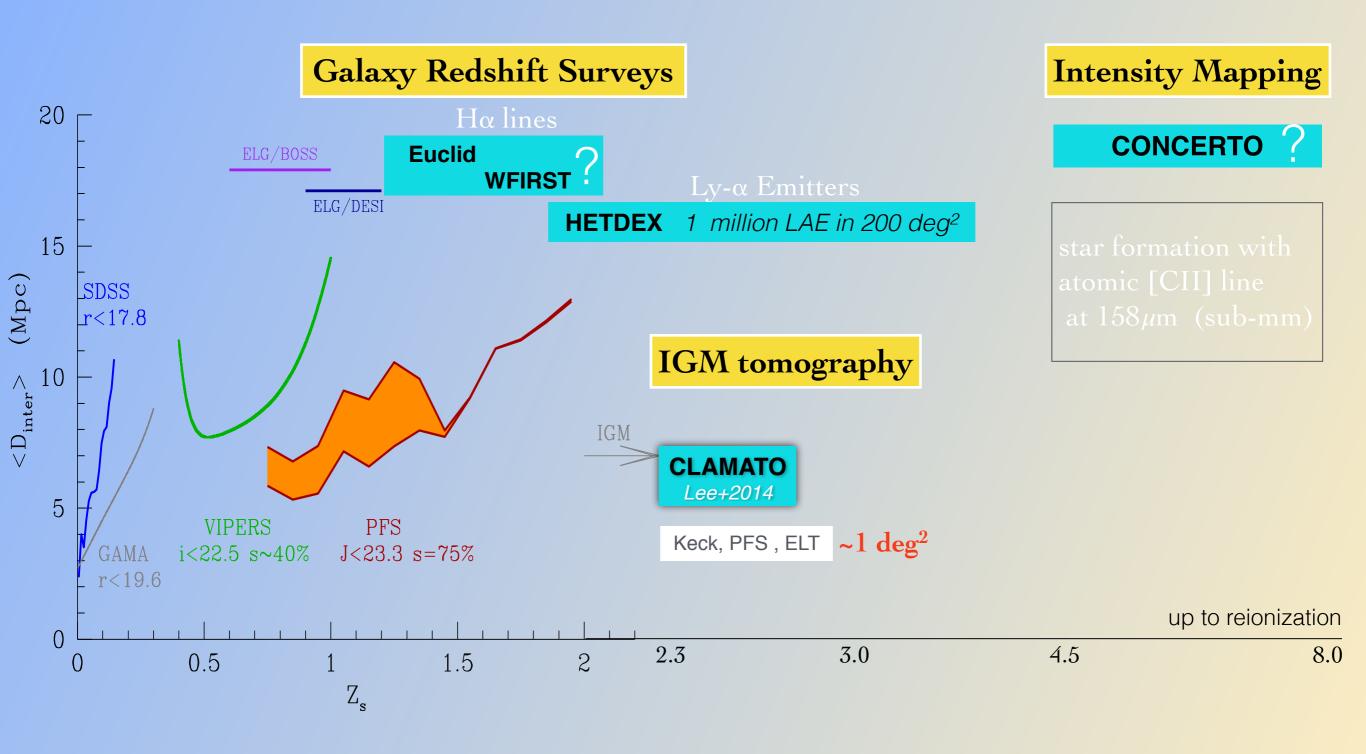
PFS will be unique in the LSS reconstruction with high contrast up to z~2

but 25 deg2 only!

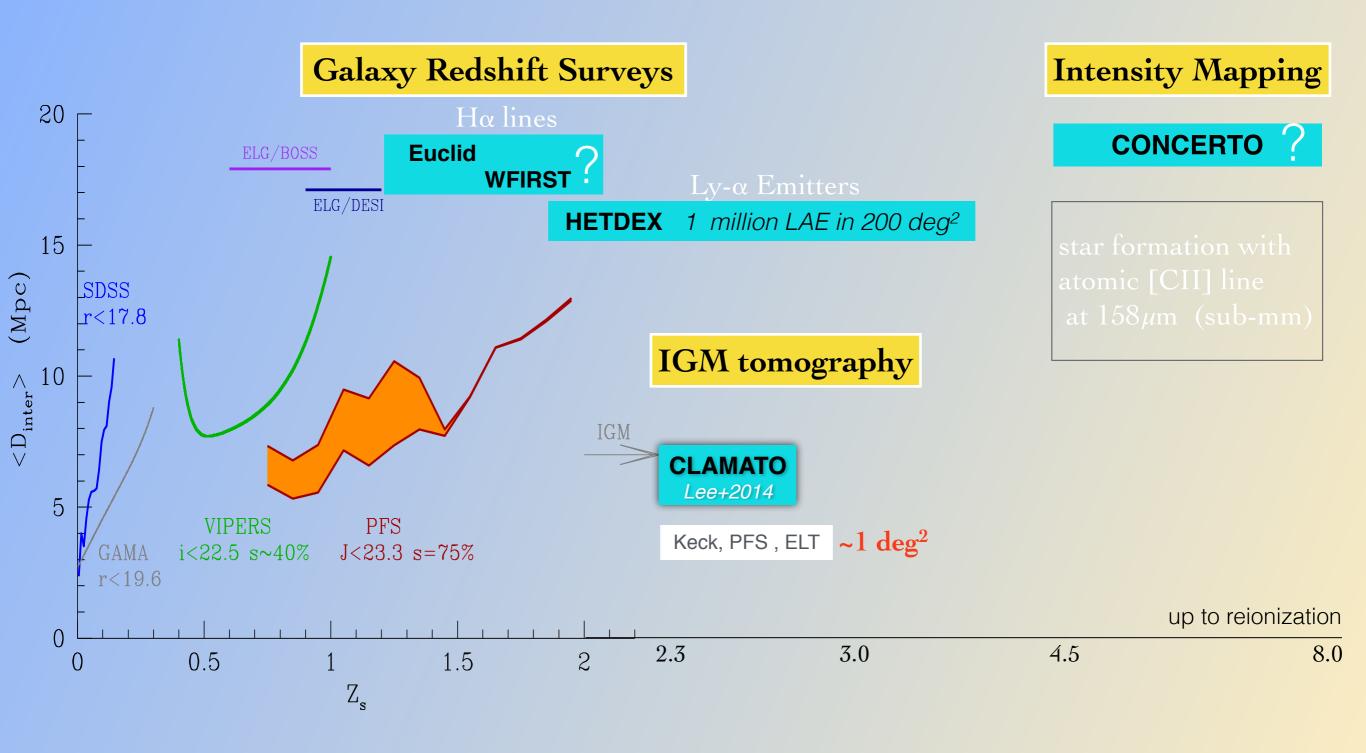




- * Large Scale Surveys : HETDEX / DESI / Euclid / JWST
- * High contrast mapping : IGM Tomography



Very High Redshift with Intensity Mapping in sub-mm



* GECO involved in almost all the future projects joint effort around this thematic : mapping tools + simulations + theory + ...

The Influence of Cosmic Web on galaxy Evolution







