

# ESFRIs requirements for VO standards

- HiPS for ESFRIs
  - Nice presentation by James Collinson of a service using AladinLite with HiPS of SKA simulated data
  - Further discussion with CDS required
  - Beside this, there is still a little issue to publish the HiPS in the wider community. → to be addressed between FB and Alex Clarke
  - HiPS 3D exists. No real « cube visualisation » functionality. For Radio and MUSE : to be checked ! Spectra extraction and manipulation tool worked out in Aladin by CDS and Toulouse (CASSIS) group.
  - HiPS 2D can be used as discovery of cube « progenitors ».
  - Question mark about CARTA / ALMA ? They have small fields, when SKA is like a survey
- Radio extension to ObsCore
  - Discussion focused on frequency parameters : should we really add them in the extension or only encourage to provide UDF for conversion in ADQL ?



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- DataModels for ESFRIs
  - Many ESFRIs need interoperability datamodels. A workshop in May + IVOA interop will address the coupled questions of « integration » datamodels (source, Cube, TimeSeries, Mango) and serialization/VOTable annotation
- TimeDomain
  - Pulsar data : JIVE has sequences of spectra.
  - How to manage FRBs ?
  - Additional time sampling characterisation attributes are not needed by all ESFRI time data as far as we know
  - Involving ESFRIs in IVOA TimeDomain discussions

