Source/catalogue DM presentation : A wrap-up attempt

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Source/catalog model : observational project views

- Sources are about a related set of measurements of some part of the sky
- Time, space,energy , spectral, but many differences in detail. Even sometimes shape instad of position. PM, plx, Velocities, redshifts not always
- And the heart it is about association and the open question is the way we do it
  - Sources are « made of » detections which may be « made of » observations. The way they are merged into a source is project dependant
  - Sources may be simple or made of sub-sources : systems = homogenous or heterogenous (exoplanets)
- We probably need « association models » if feasible (personal attempt):
  - Measueremnt model is one of those at the lower level. (PhotDM and Coordinates inside)
  - Provenance may be useful at the higher level.
  - But something at higher level is needed

Data providers/application point of view

- Generic metadata (Time and space) needed
- Column, low level annotation : more homogeneous, more complete, really interoperable solution needed
- Annotation for association is obviously needed (GROUPS, refs, names, etc.)
  - annotation of association itself in addition to column annotation
  - provide a more homegeneous and interoperable way to do it.
- Practice and « is it useful ?» criterium (Aladin, TOPCAT and also from Astropy developers)