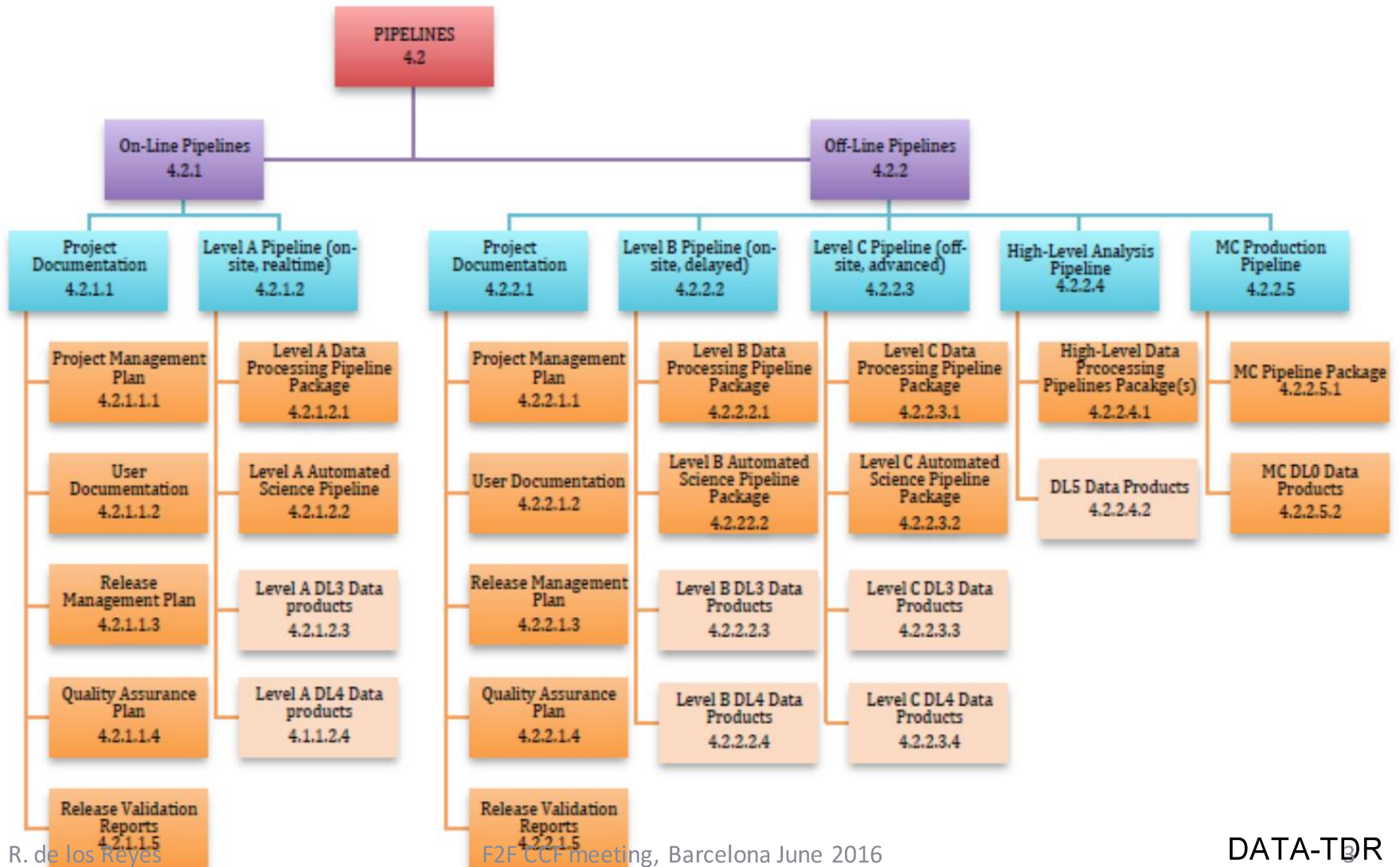


Array Calibration Data-flow

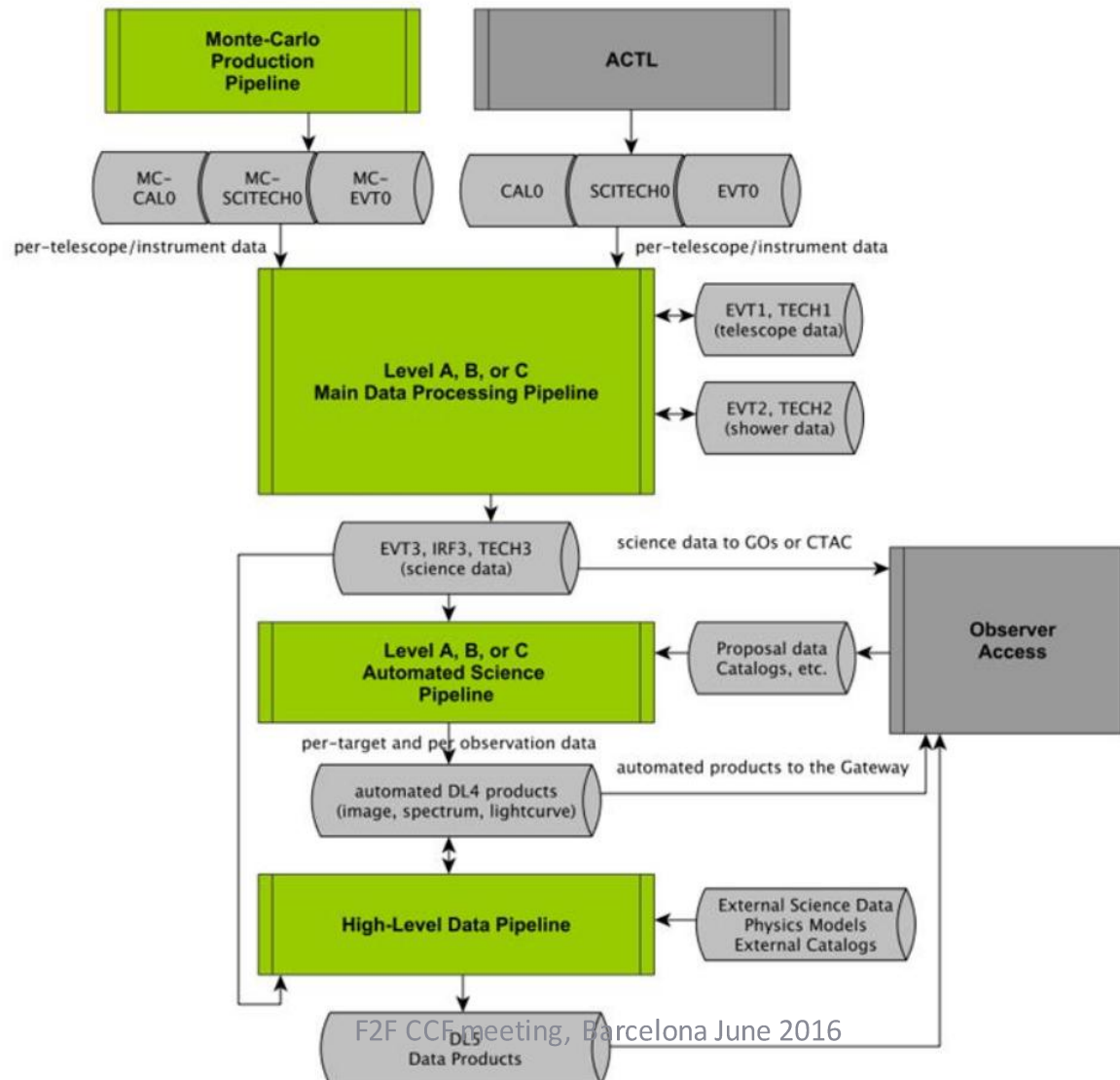
R. de los Reyes

- Data Levels:
 - DL0: data received from data acquisition hardware/software. First input for the Pipelines. Intended for **long-term storage**.
 - DL1: processed DL0 data, calculated **telescope-wise**.
 - DL2: reconstructed shower parameters (particle ID, energy, direction,...) **shower-wise**.
 - DL3: **selected events** (e.g. gamma-ray candidates), along with IRF and technical data for science analysis
 - DL4: **data products** (e.g. spectra, sky maps, light curves, etc.)
 - DL5: **“legacy” observatory data** (e.g. catalogues, survey maps, etc.)

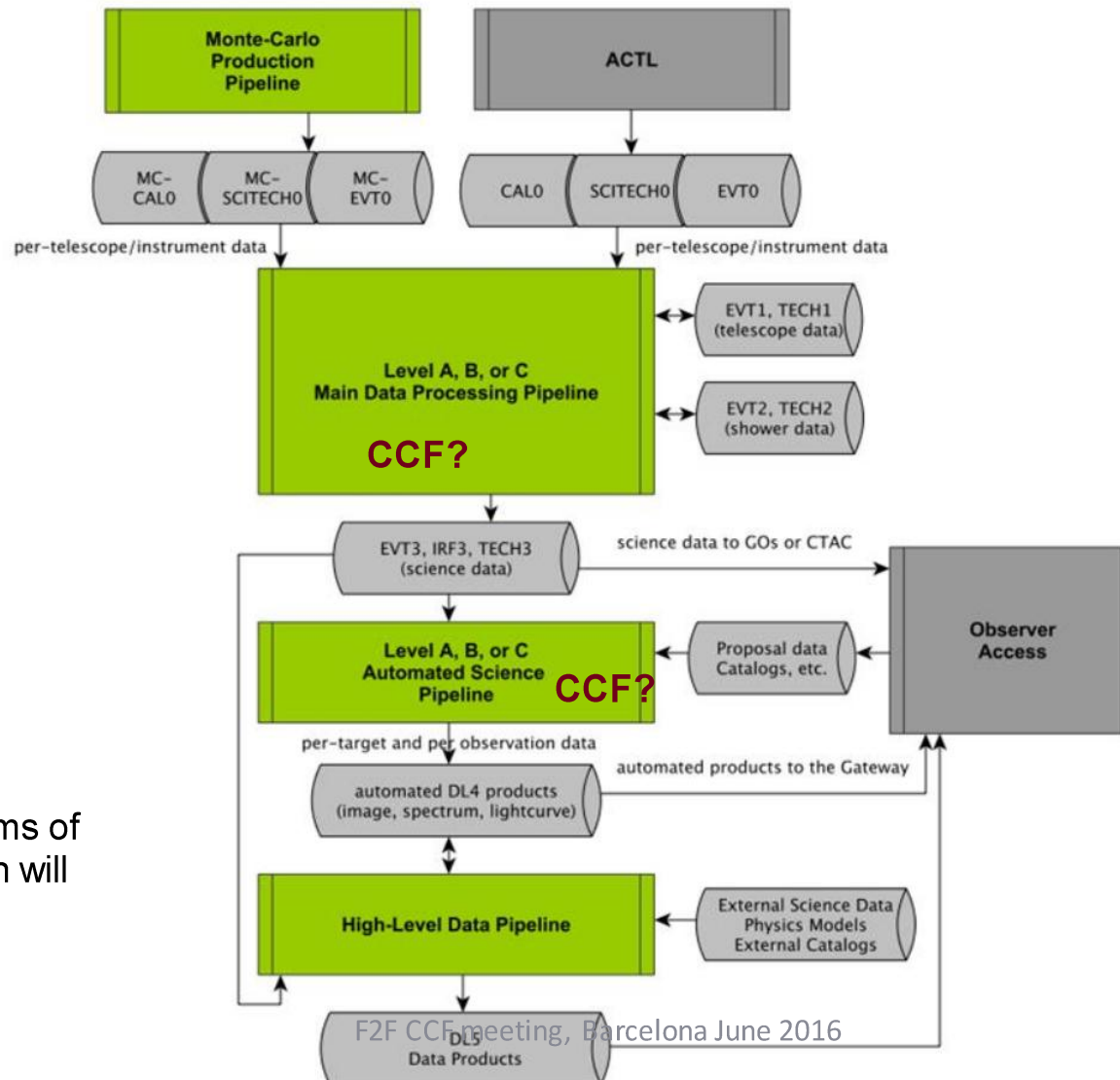
Introduction Pipelines



Introduction Pipelines

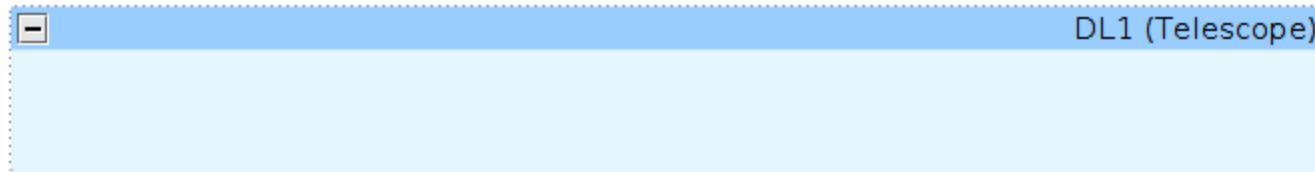
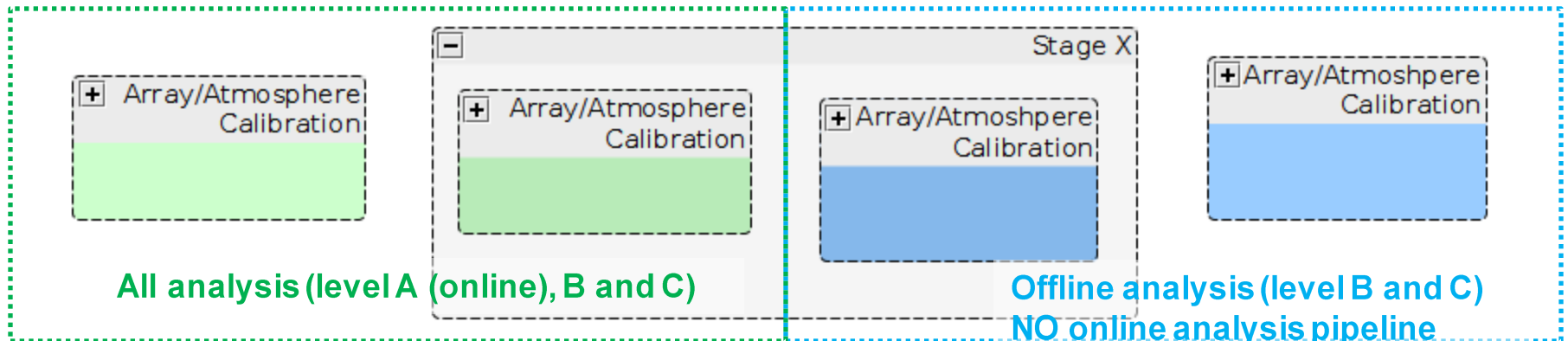
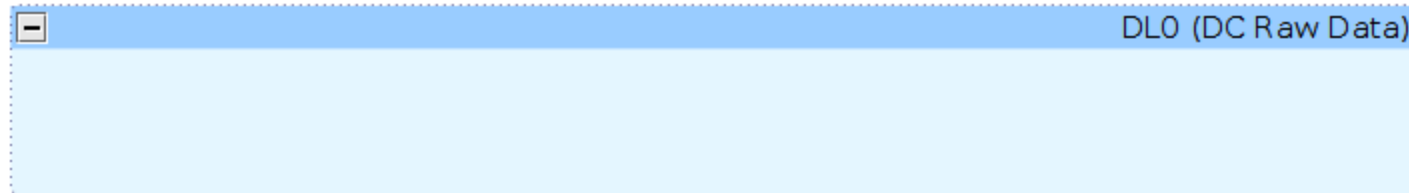


Introduction Pipelines



Main goal:
Which algorithms of
CCF calibration will
run in the CTA
Pipeline?

Preliminary draft (introduction)



Grey if the methods/equipment can only be done Off-site (level C)

Implementation in Pipelines

- Level A (Online analysis):
 - Fast feedback from results.
 - Online systematics requirements.
- Level B (“delayed”analysis):
 - Level B systematics requirements
 - Too slow for level A but still feedback needed onsite a.s.a.p.
- Level C:
 - Require pipelines products as input -> CTA re-calibration once per year.
 - Calibration algorithms modified/improved at least once in CTA life time -> applied to the full history of CTA.

