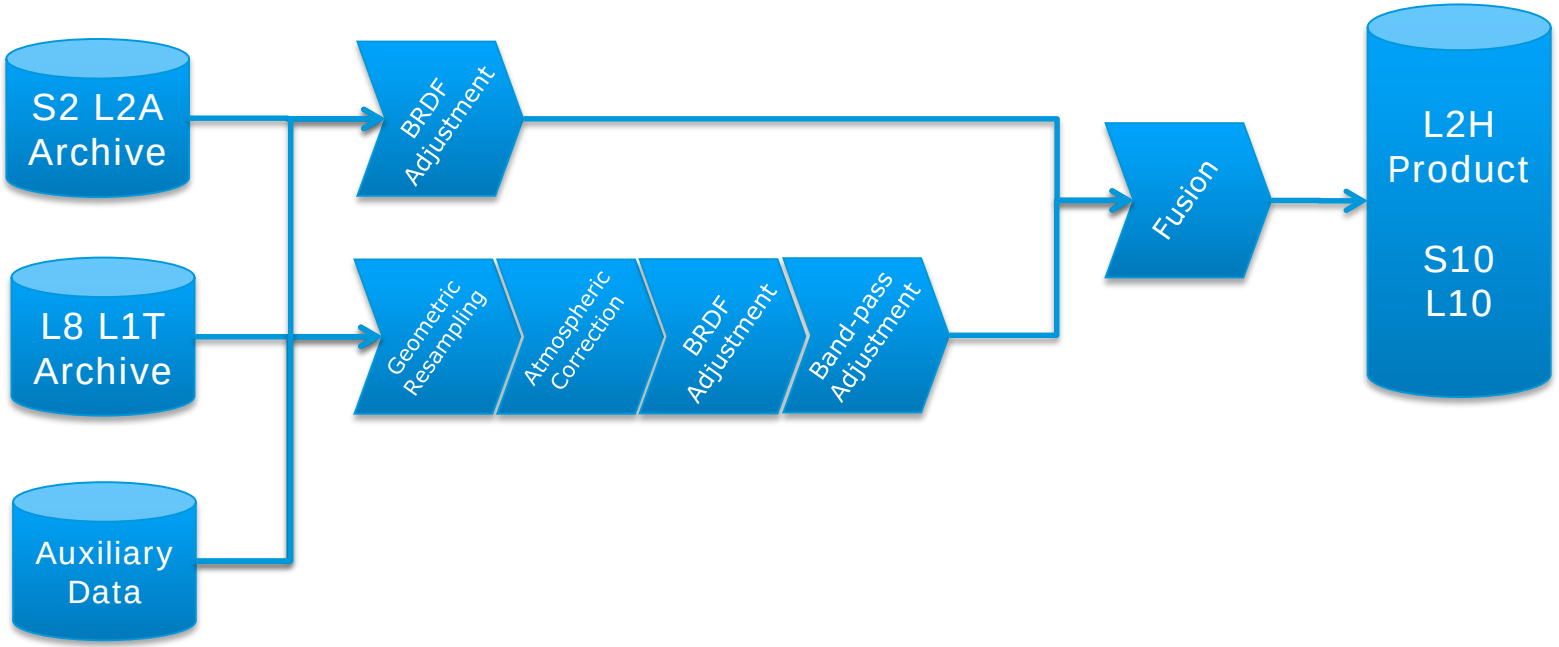
sen2like Project

- ✓ Goal is to provide S2-like surface reflectances with daily periodicity.
- ✓ Surface reflectances will be generated through a harmonisation process combining data from different sensors (Sentinel-2, Landsat-8, Sentinel-3, etc.).
- ✓ First step combining Sentinel-2 and Landsat-8.

sen2like Method

✓ Harmonisation will include consistent atmospheric corrections, spectral adjustments, BRDF adjustments and re-gridding.



sen2like Method

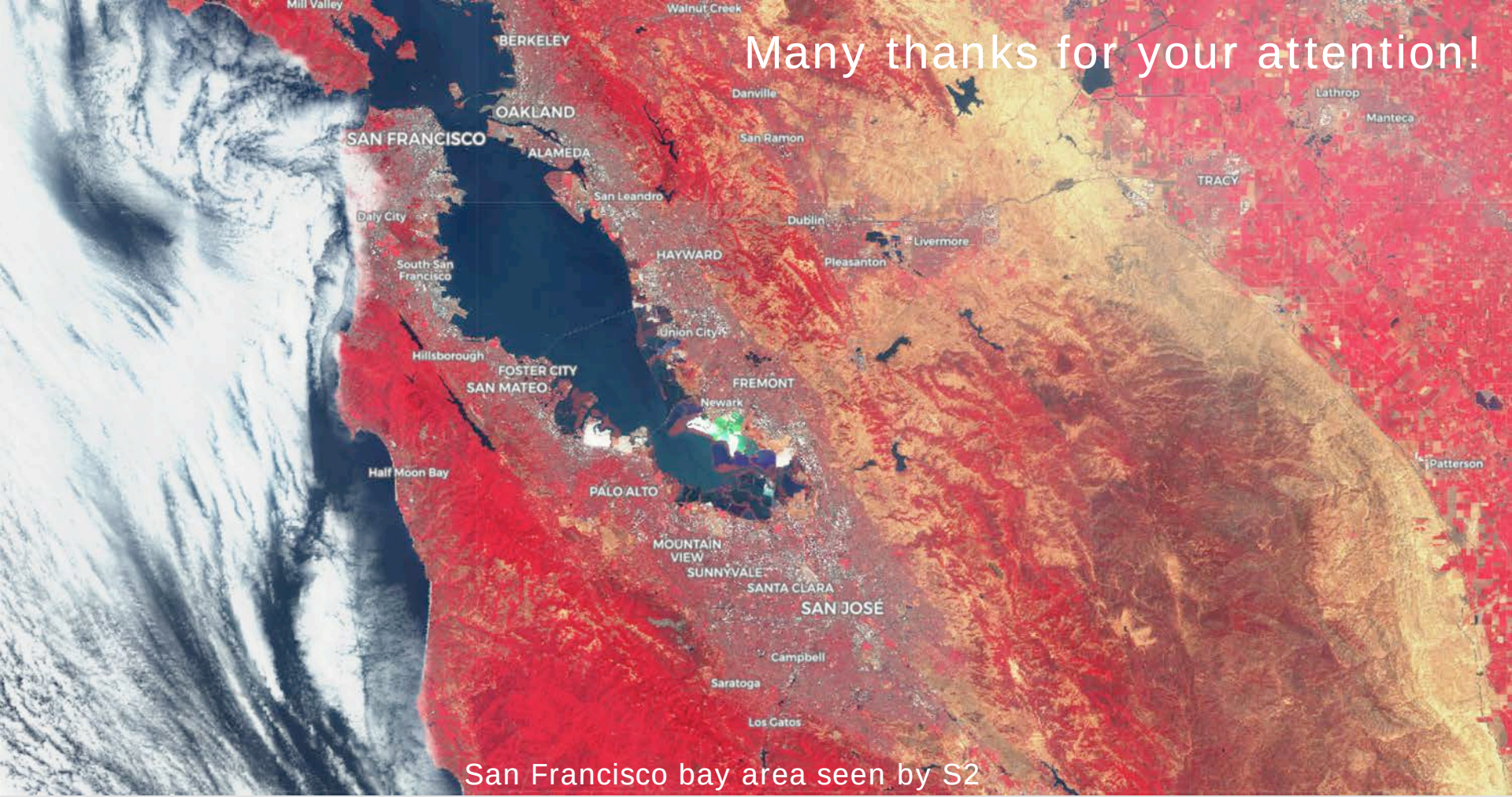
Processing step	Method
Atmospheric Correction	As short-term solution to use SMAC algorithm to correct both S2 and L8 products in order to get coherent L2 ARD data. As long-term solution Sen2Cor will be adapted to be able to process L8 data products.
Geometric Resampling	Sentinel-2 MGRS tiling grid as reference, L8 data products will be adapted. Target 0.3 pixel 2-sigma inter-sensor registration.
BRDF Adjustment	BRDF correction to be applied for both Sentinel-2 & Landsat-8 is Roy et al. 2016 (Remote Sensing of Environment 176 (2016) 255–271)
Band-pass Adjustment	Optional processing step. Method still to be defined.
Fusion	Spatial and Temporal Adaptive Reflectance Fusion Model (STARFM) developed by Gao et al. (2006).

sen2like Roadmap

- First step combining Sentinel-2 and Landsat-8.

- Second step adding Sentinel-3.

- Products will be generated and distributed using cloud infrastructure (e.g. DIAS) and processor will be made freely available on SNAP.


Many thanks for your attention!
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