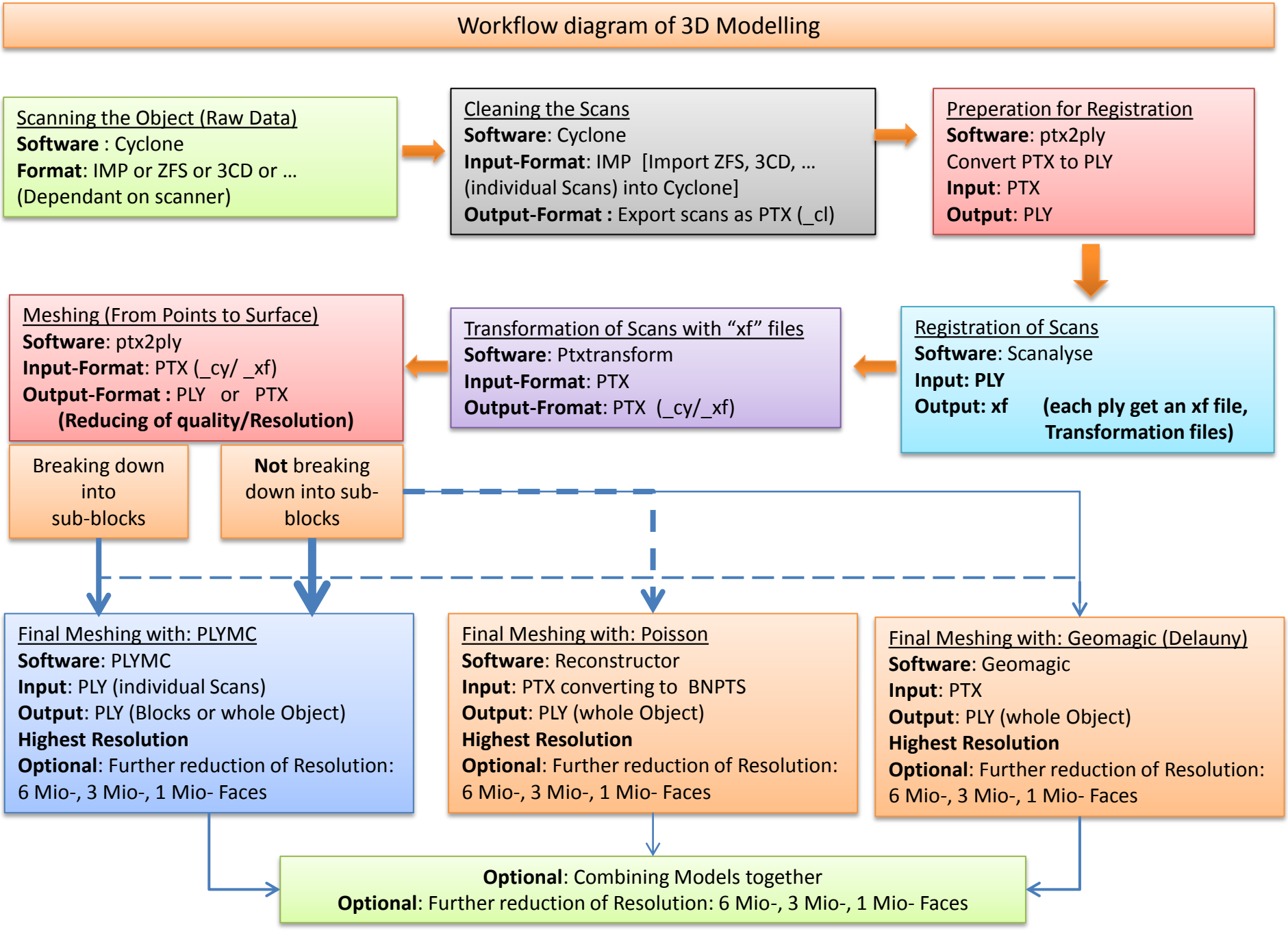
Workflow diagram of 3D Modelling
Scanning the Object (Raw Data)
Software : Cyclone
Format: IMP or ZFS or 3CD or …
(Dependant on scanner)
Cleaning the Scans
Software: Cyclone
Input-Format: IMP [Import ZFS, 3CD, …
(individual Scans) into Cyclone]
Output-Format : Export scans as PTX (_cl)
Preperation for Registration
Software: ptx2ply
Convert PTX to PLY
Input: PTX
Output: PLY
Registration of Scans
Software: Scanalyse
Input: PLY
Output: xf (each ply get an xf file, Transformation files)
Transformation of Scans with "xf" files
Software: Ptxtransform
Input-Format: PTX
Output-Fromat: PTX (_cy/_xf)
Meshing (From Points to Surface)
Software: ptx2ply
Input-Format: PTX (_cy/ _xf)
Output-Format : PLY or PTX
(Reducing of quality/Resolution)
Breaking down into sub-blocks
Not breaking down into sub-blocks
Final Meshing with: PLYMC
Software: PLYMC
Input: PLY (individual Scans)
Output: PLY (Blocks or whole Object)
Highest Resolution
Optional: Further reduction of Resolution:
6 Mio-, 3 Mio-, 1 Mio- Faces
Final Meshing with: Poisson
Software: Reconstructor
Input: PTX converting to BNPTS
Output: PLY (whole Object)
Highest Resolution
Optional: Further reduction of Resolution:
6 Mio-, 3 Mio-, 1 Mio- Faces
Final Meshing with: Geomagic (Delauny)
Software: Geomagic
Input: PTX
Output: PLY (whole Object)
Highest Resolution
Optional: Further reduction of Resolution:
6 Mio-, 3 Mio-, 1 Mio- Faces
Optional: Combining Models together
Optional: Further reduction of Resolution: 6 Mio-, 3 Mio-, 1 Mio- Faces