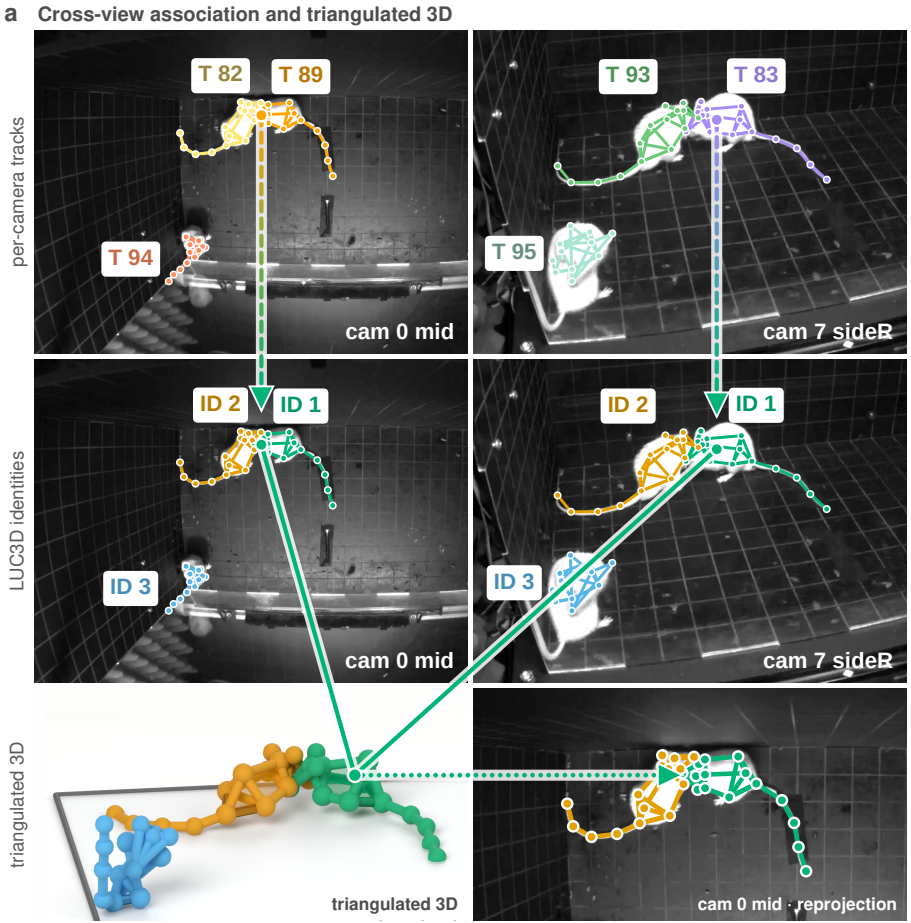
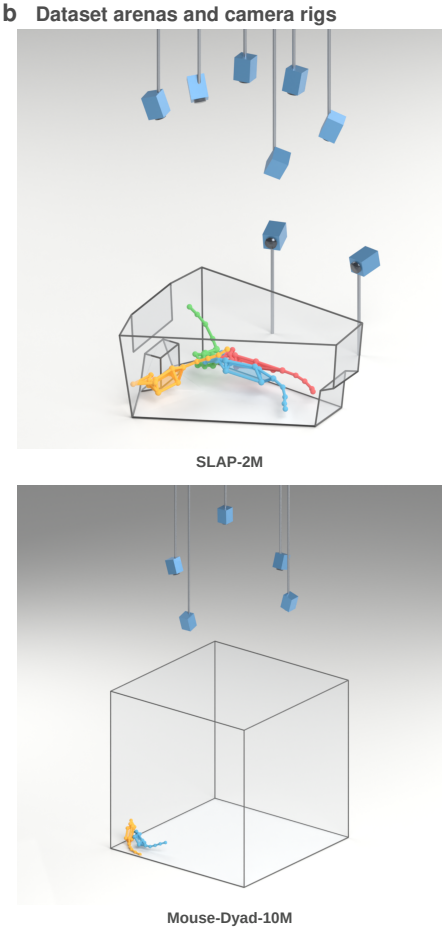
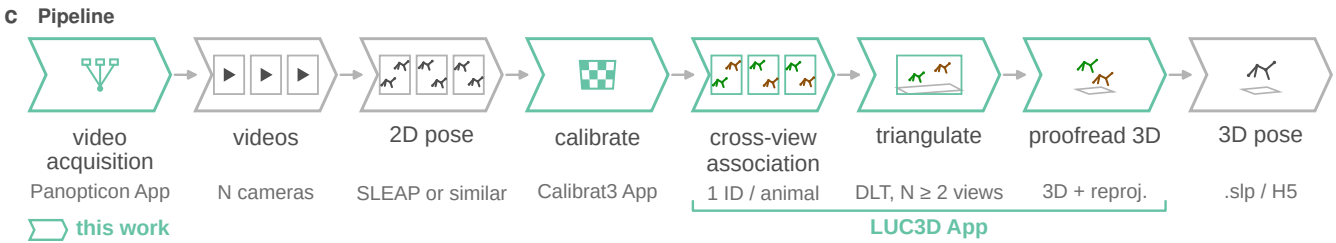

a
Cross-view association and triangulated 3D
per-camera tracks
LUC3D identities
triangulated 3D
T 82
T 89
T 94
cam 0 mid
T 93
T 83
T 95
cam 7 sideR
ID 2
ID 1
ID 3
cam 0 mid
ID 2
ID 1
ID 3
cam 7 sideR
triangulated 3D
cam 0 mid · reprojection


b
Dataset arenas and camera rigs
SLAP-2M
Mouse-Dyad-10M


c
Pipeline
video acquisition
Panopticon App
videos
N cameras
2D pose
SLEAP or similar
calibrate
Calibrat3 App
cross-view association
1 ID / animal
triangulate
DLT, N ≥ 2 views
proofread 3D
3D + reproj.
3D pose
.slp / H5
this work
LUC3D App