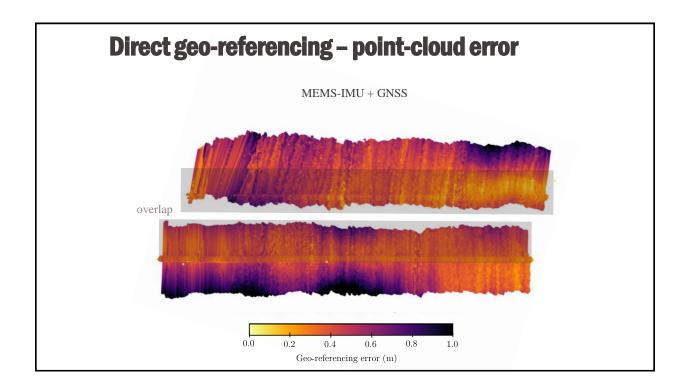


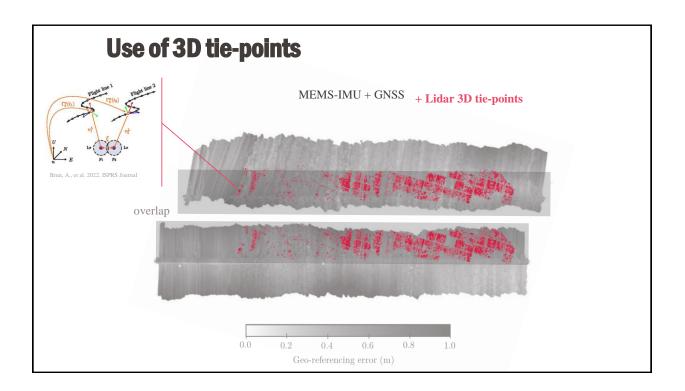
Trajectory determination approaches

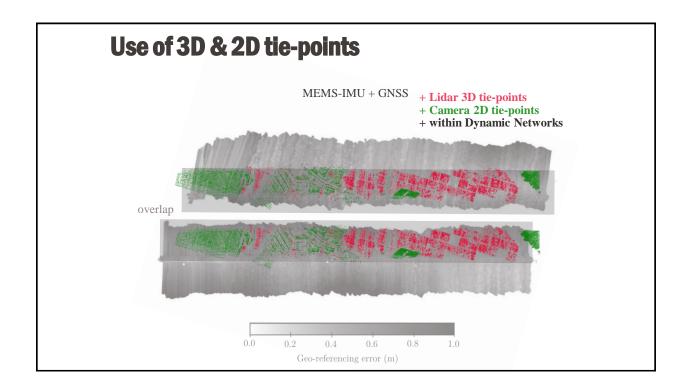
Reference (< 5 cm) vs

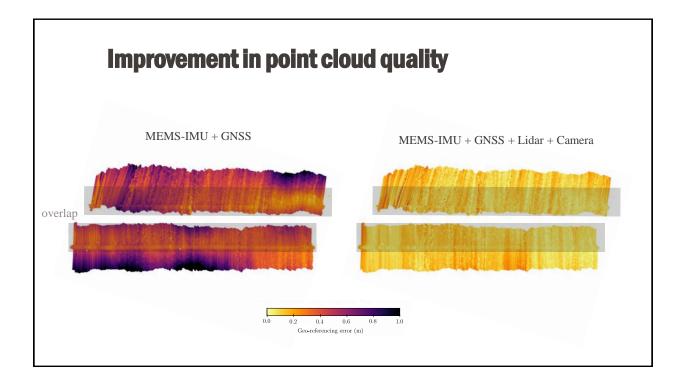
- 1. MEMS-IMU + GNSS
- 2. MEMS-IMU + GNSS + Lidar
- 3. MEMS-IMU + GNSS + Camera
- 4. MEMS-IMU + GNSS + Lidar + Camera

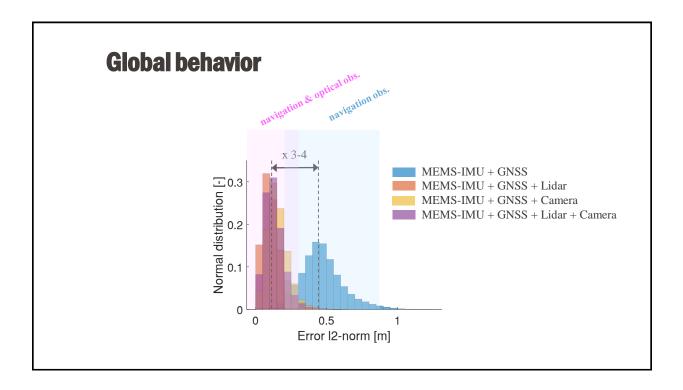


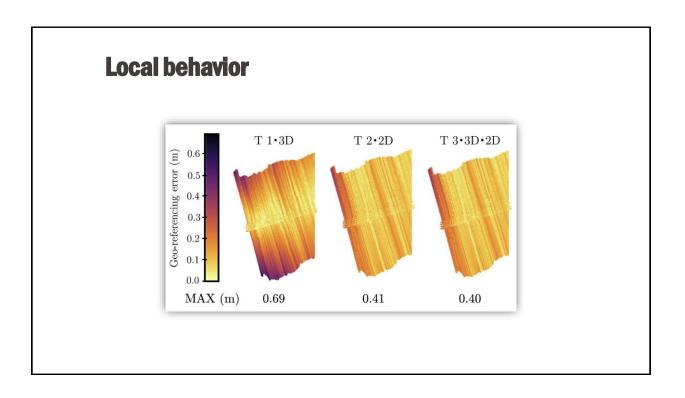














Conclusions

- ✓ Dynamic Networks
 {single adjustment of optical & navigation data}:

 3-4 times reduced geo-referencing error
- ✓ complementarity of 2D tie-points & 3D tie-points: continuous control along trajectory

