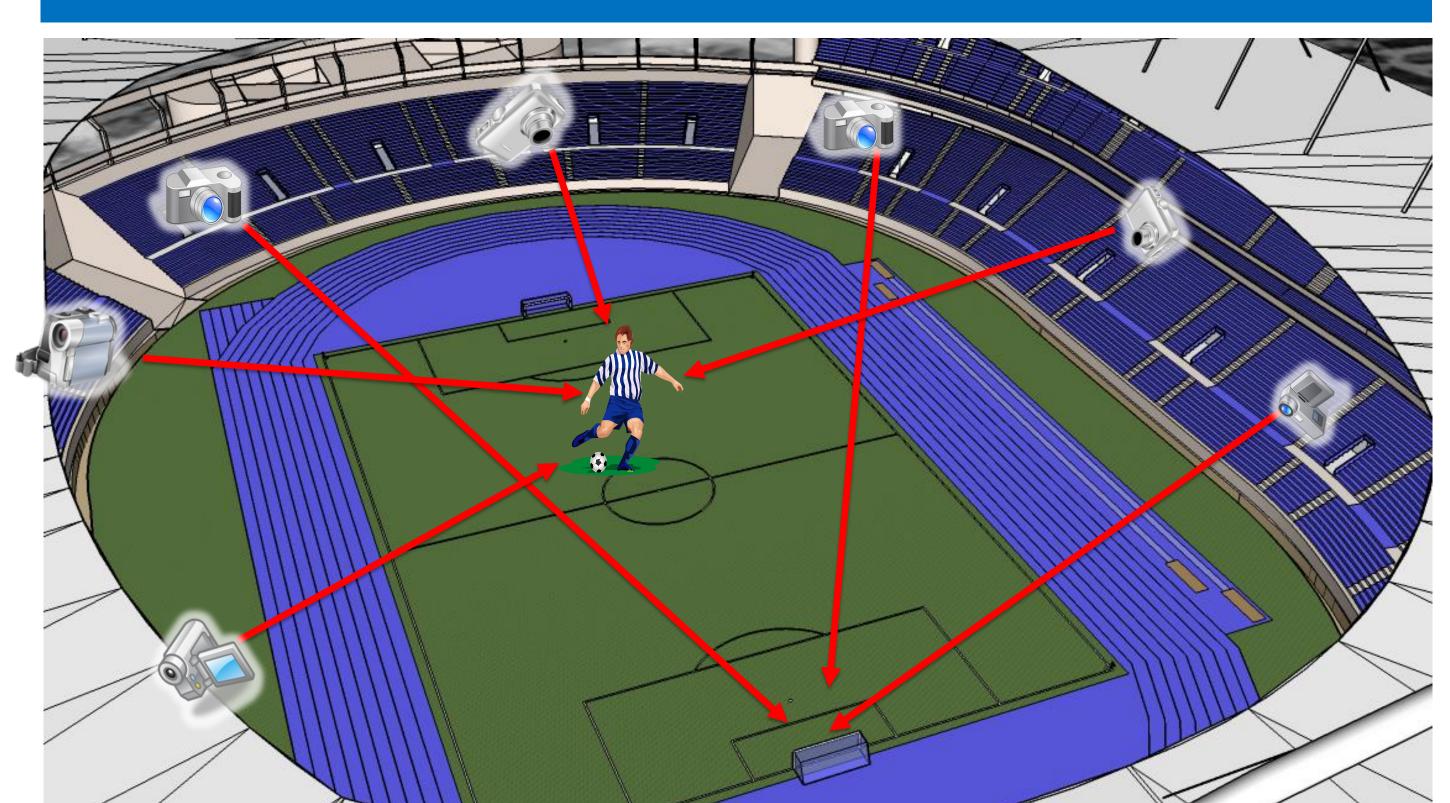
## FOCUS: Clustering Crowdsourced Videos by Line-of-Sight

Puneet Jain, Justin Manweiler, Arup Acharya, and Kirk Beaty



### Motivation



### Live Dashboard



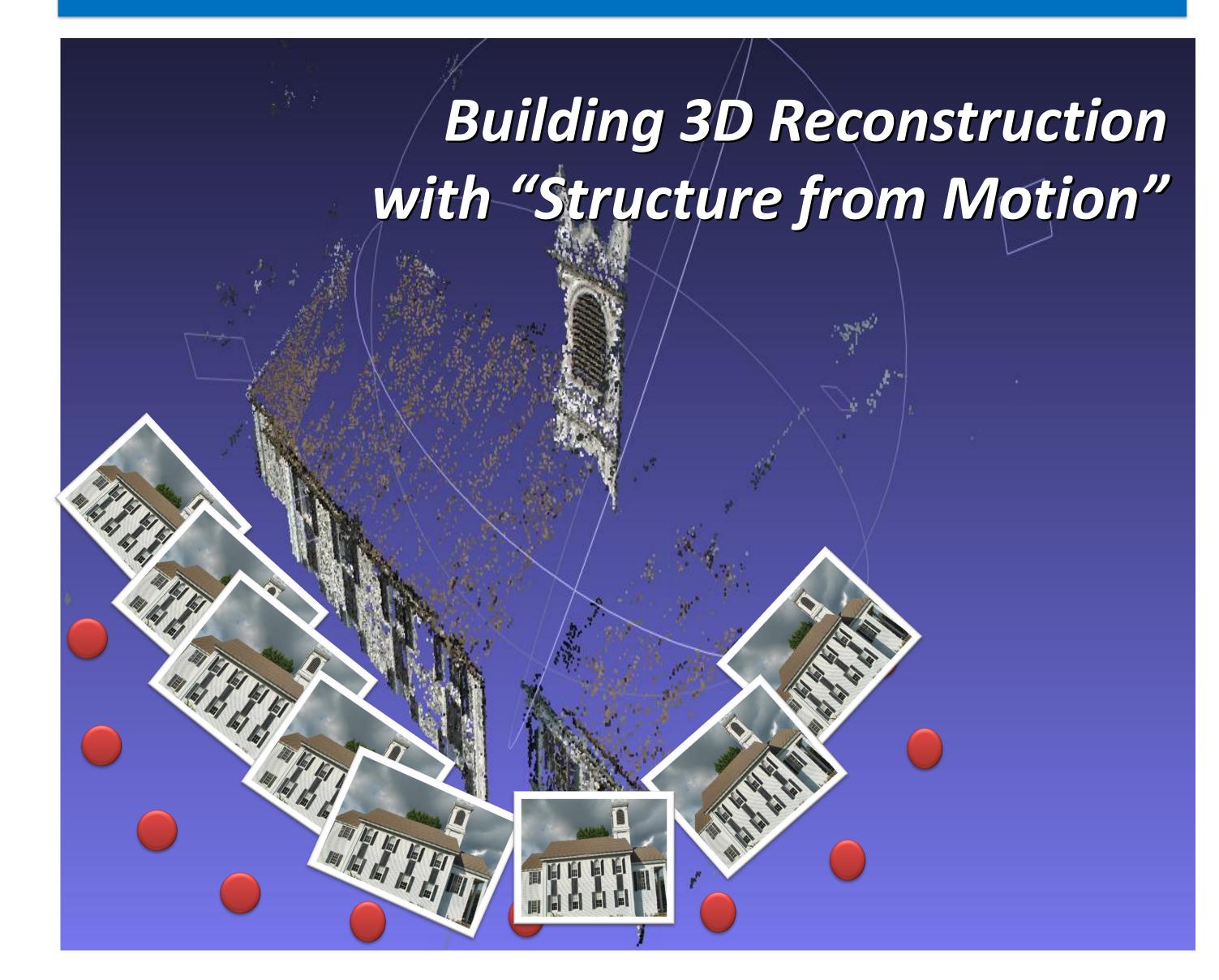








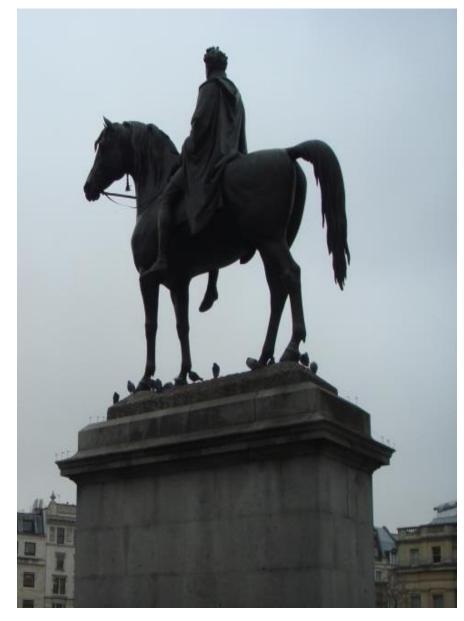
Possible to infer *camera pose* precisely: deducing observer *location + angle of view* 

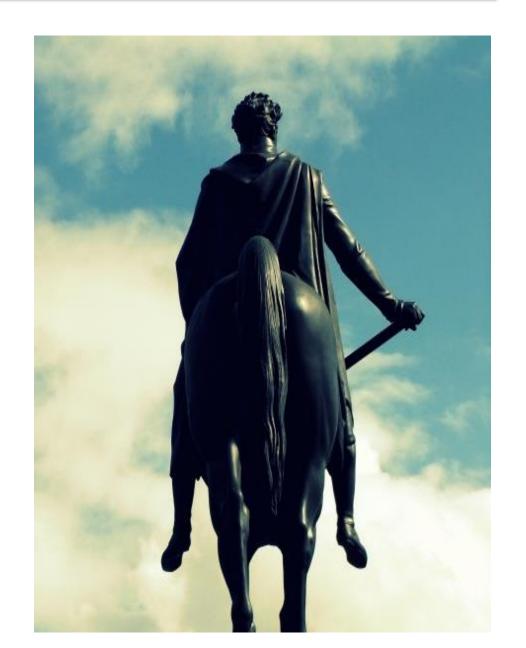


# FOCUS Challenges

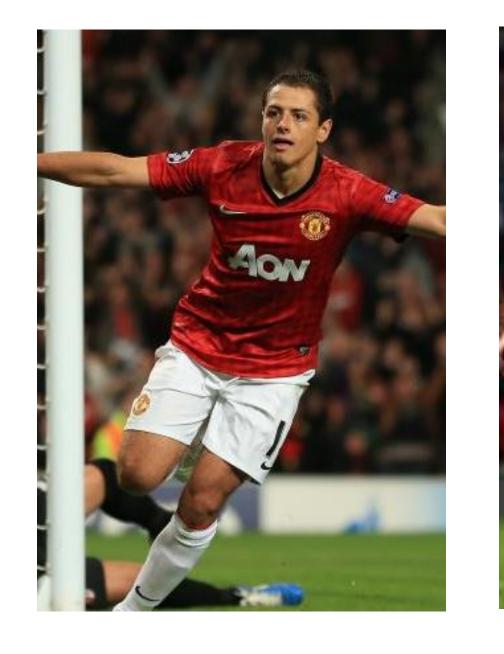
Visually different, yet similar



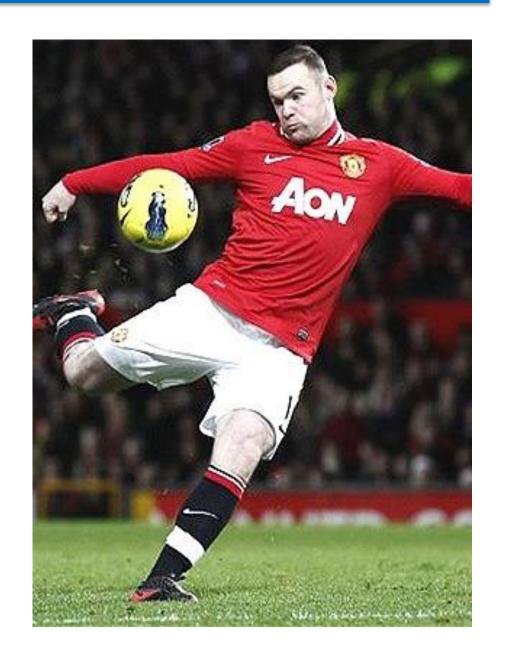




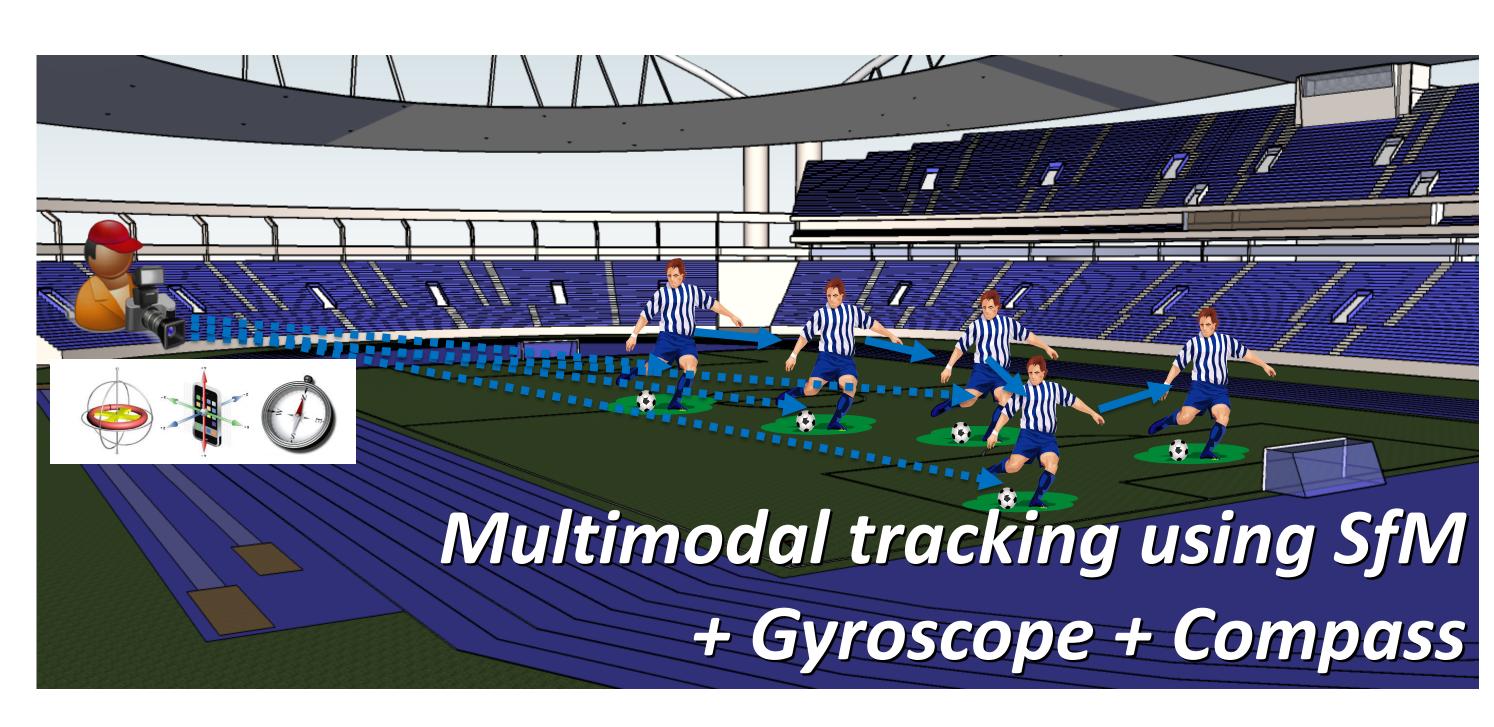
Visually similar, yet different





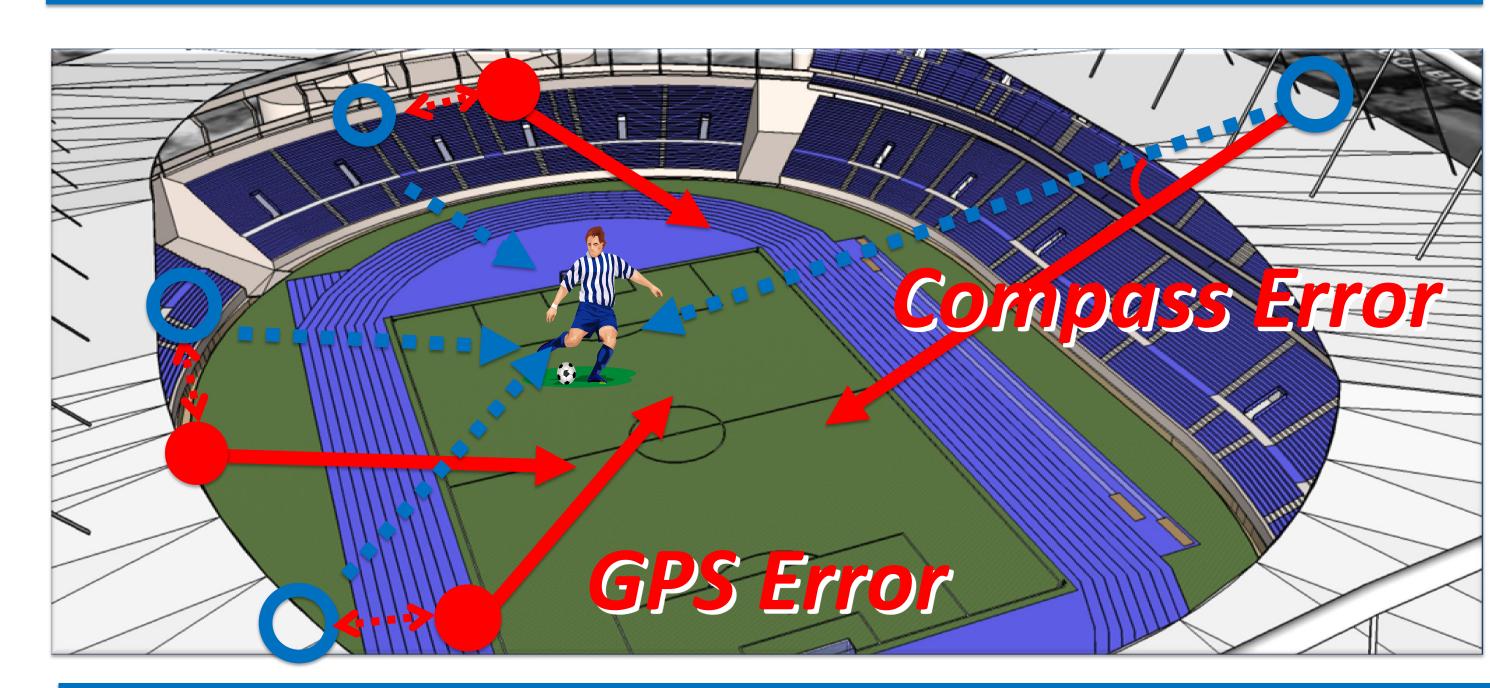


Combining *computer vision* and *sensing* to match *contextual similarity* across time



From a known 3D geometry, can reason about shared content

#### Triangulation does not apply



FOCUS informs clustering on video streams with spatial and temporal correspondence

