

Tactile sensing

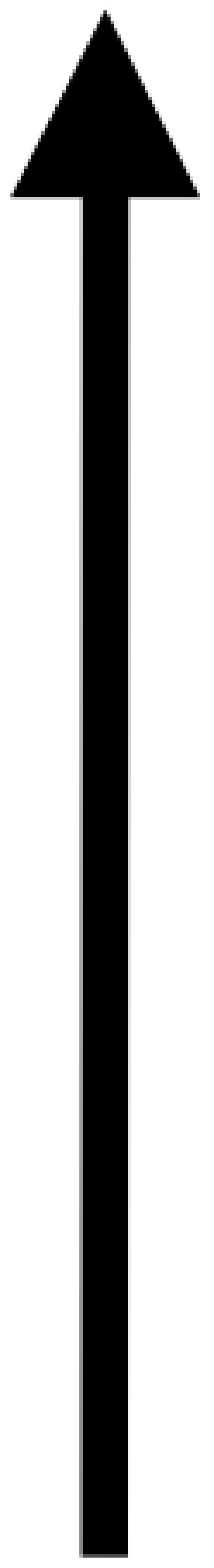
Mapping

Visual sensing

The Big Picture

Semantic Segmentation

Spacial Projection



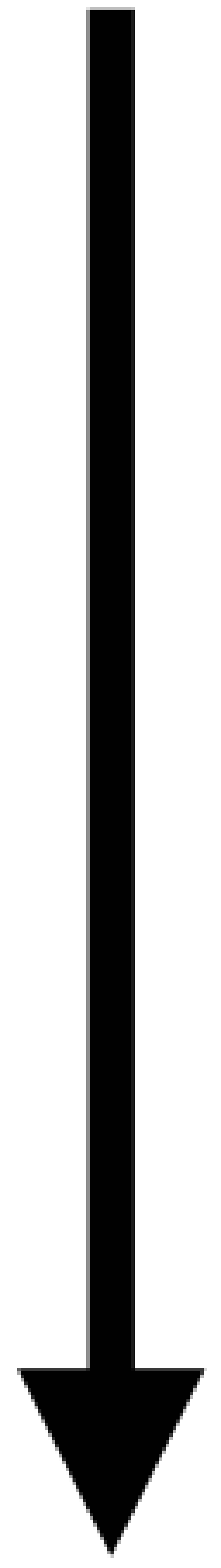
Semantic Prediction

Physical Estimation

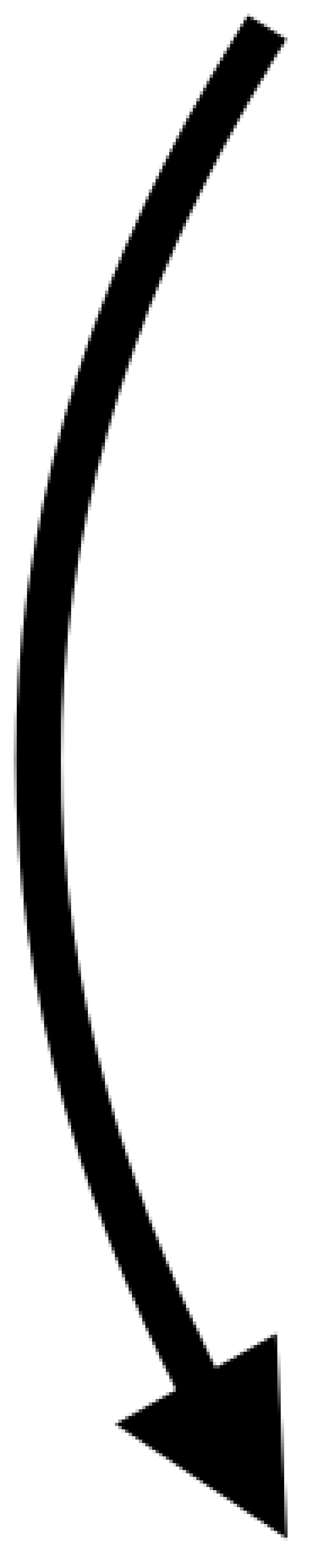
Physical Measurement

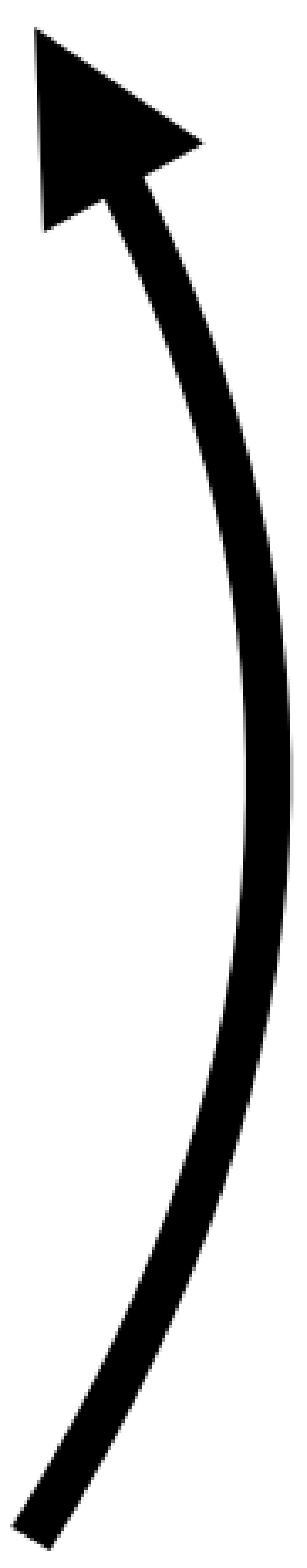
Measurement Dataset











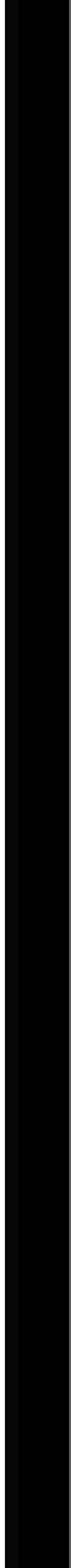


Thm 1.

(Conjugate prior)

Thm 3.

(Moments)

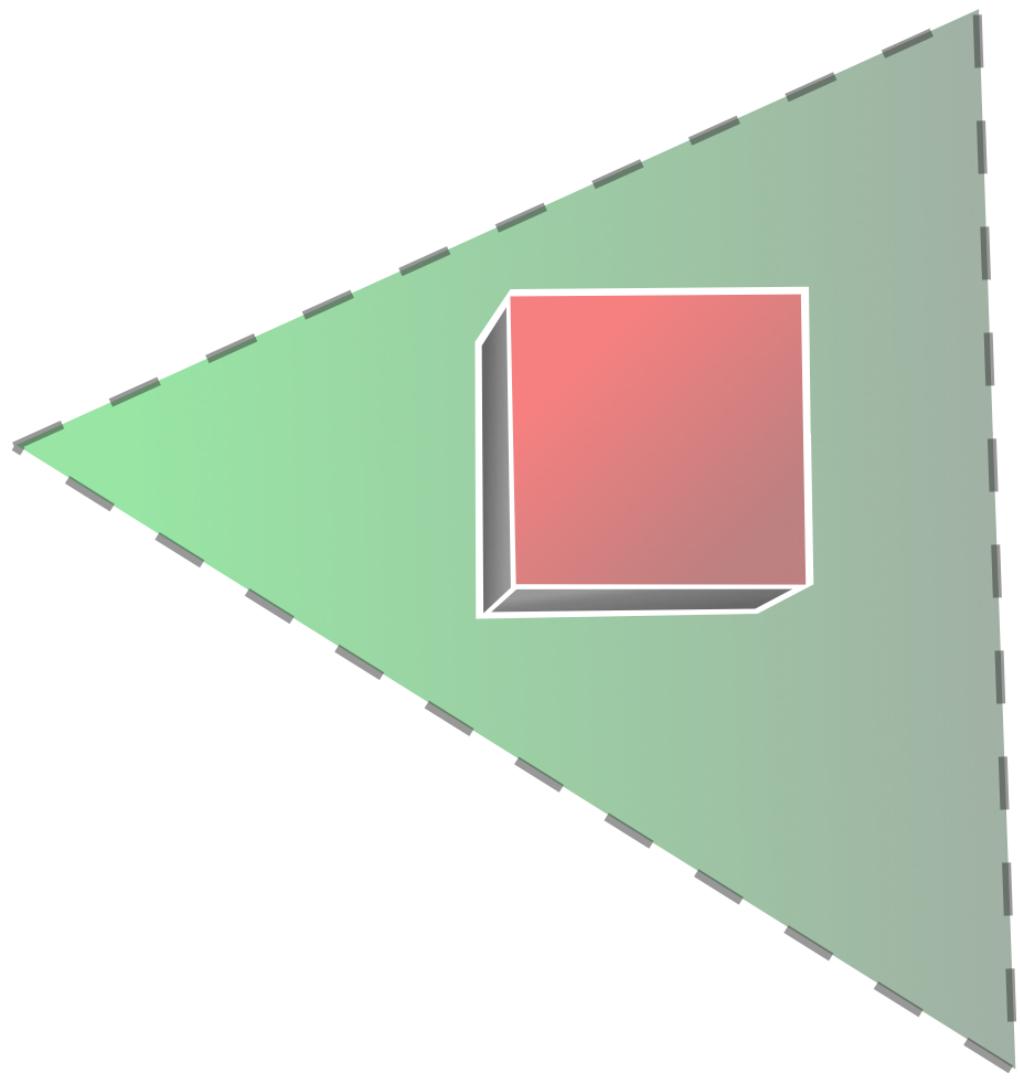


*init with default
friction table*

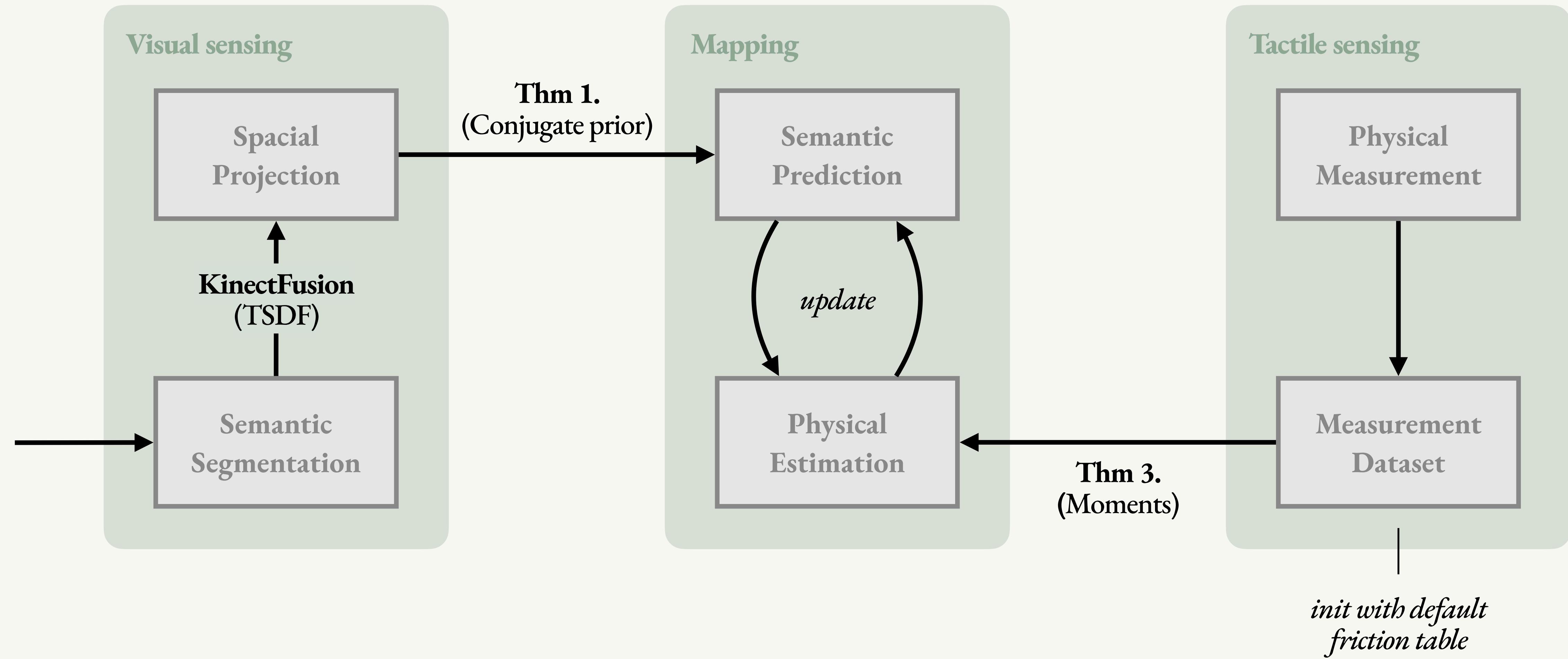
update

KinectFusion

(TSDF)



The Big Picture



Semantic label is corrected on contact

