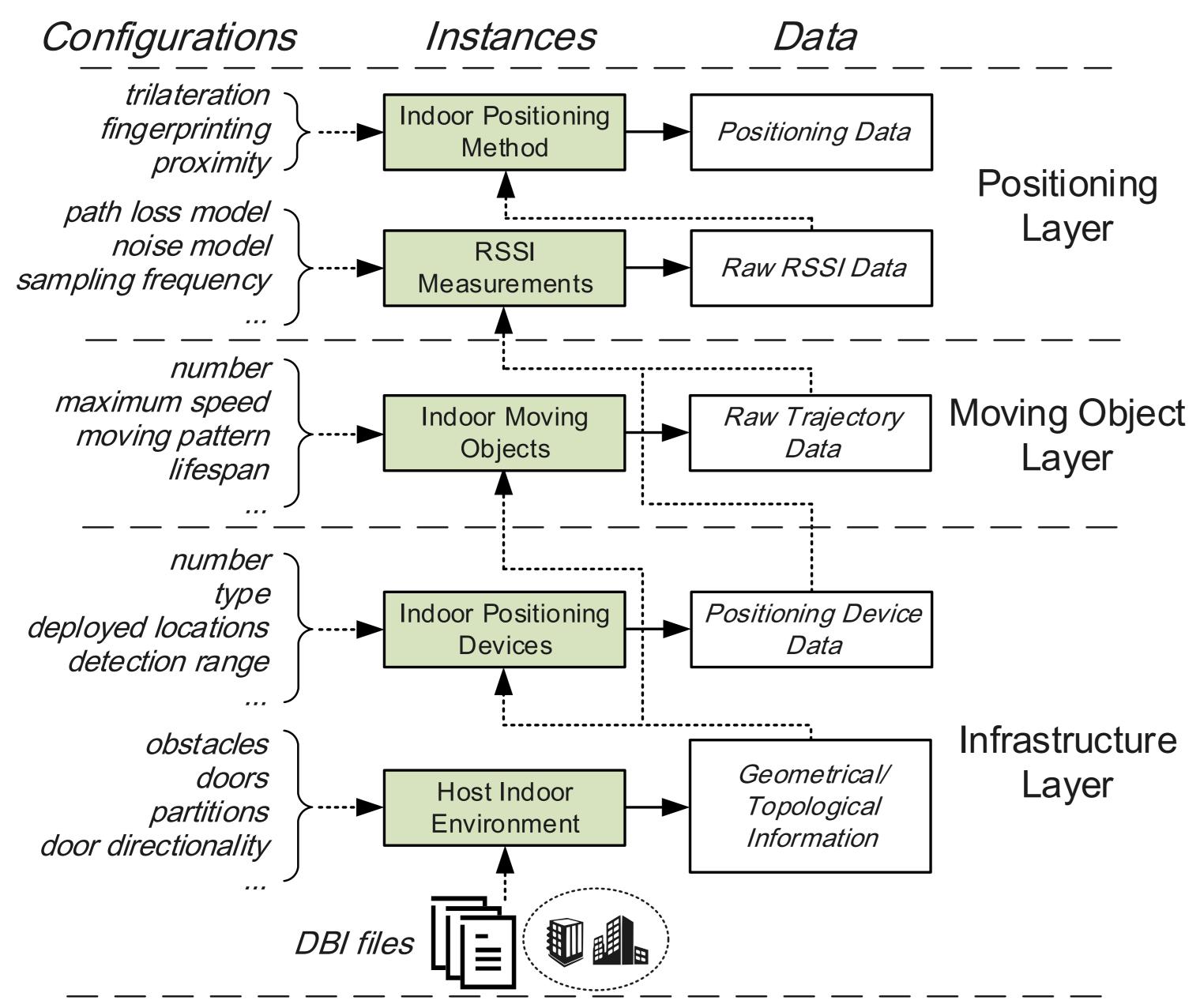


Vita: A Versatile Toolkit for Generating Indoor Mobility Data for Real-World Buildings

†Huan Li, ‡Hua Lu, †Xin Chen, †Gang Chen, †Ke Chen, †Lidan Shou †College of Computer Science and Technology, Zhejiang University, China ‡Department of Computer Science, Aalborg University, Denmark



GENERAL DATA FLOW FOR INDOOR MOBILITY DATA GENERATION



Analytics on indoor mobility data has emerged as a promising research frontier, the database community is still missing a synthetic data generator with important features.

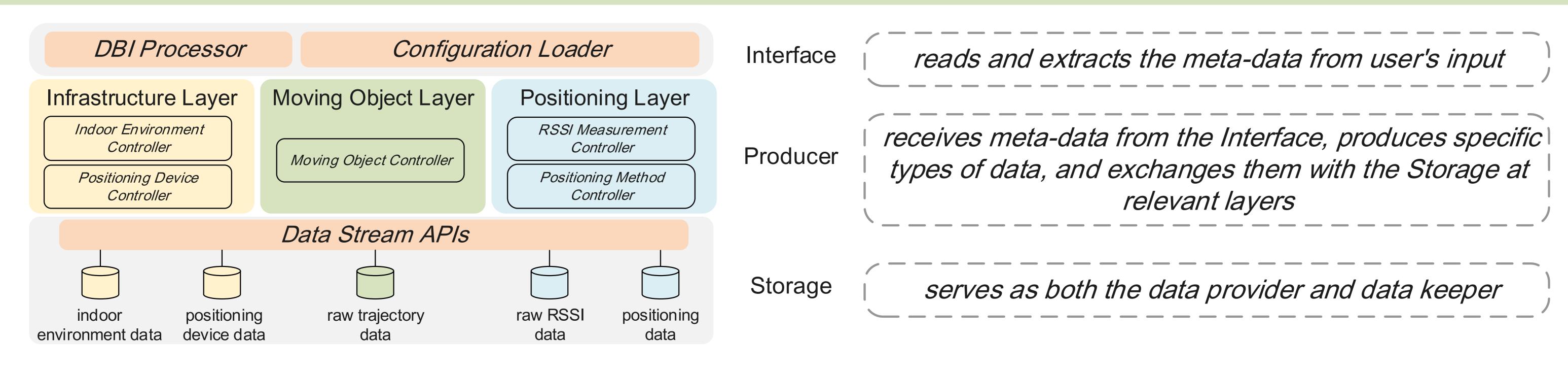
- → can simulate high volumes of indoor mobility data for evaluating location-dependent queries/algorithms assuming different indoor positioning technologies;
- → can provide "ground truth" for the simulated data in spite of the discrete nature of the data (necessary for effectiveness studies).

Industry-standard Building Designing Files as Input

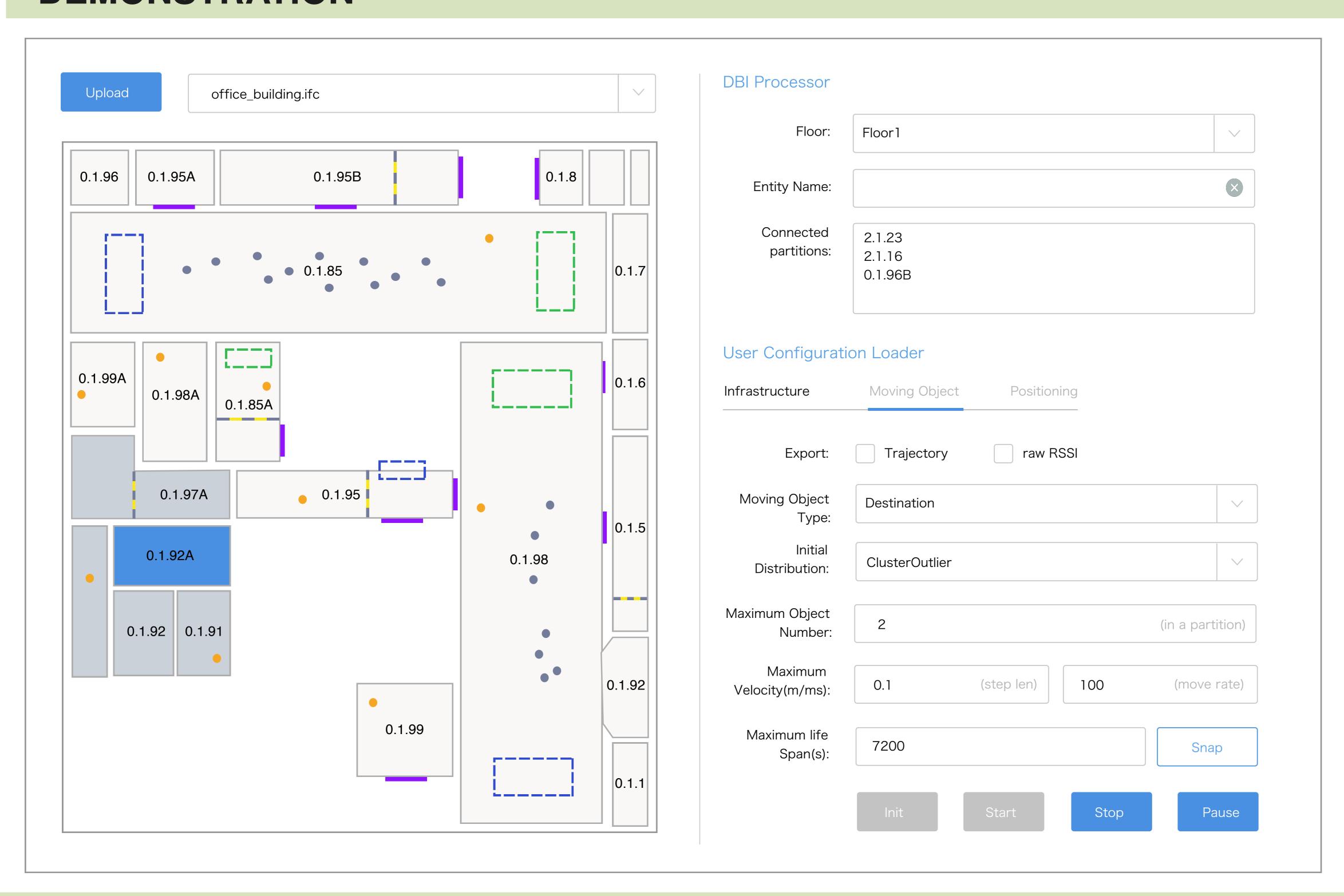
Moving Patterns & Distribution Models for Generating Indoor Objects

Keep both the Mobility Data and the "Ground Truth" Trajectories Supporting Multiple Indoor Positioning Algorithms

DESIGN



DEMONSTRATION





System Website.



A Demo Video.