

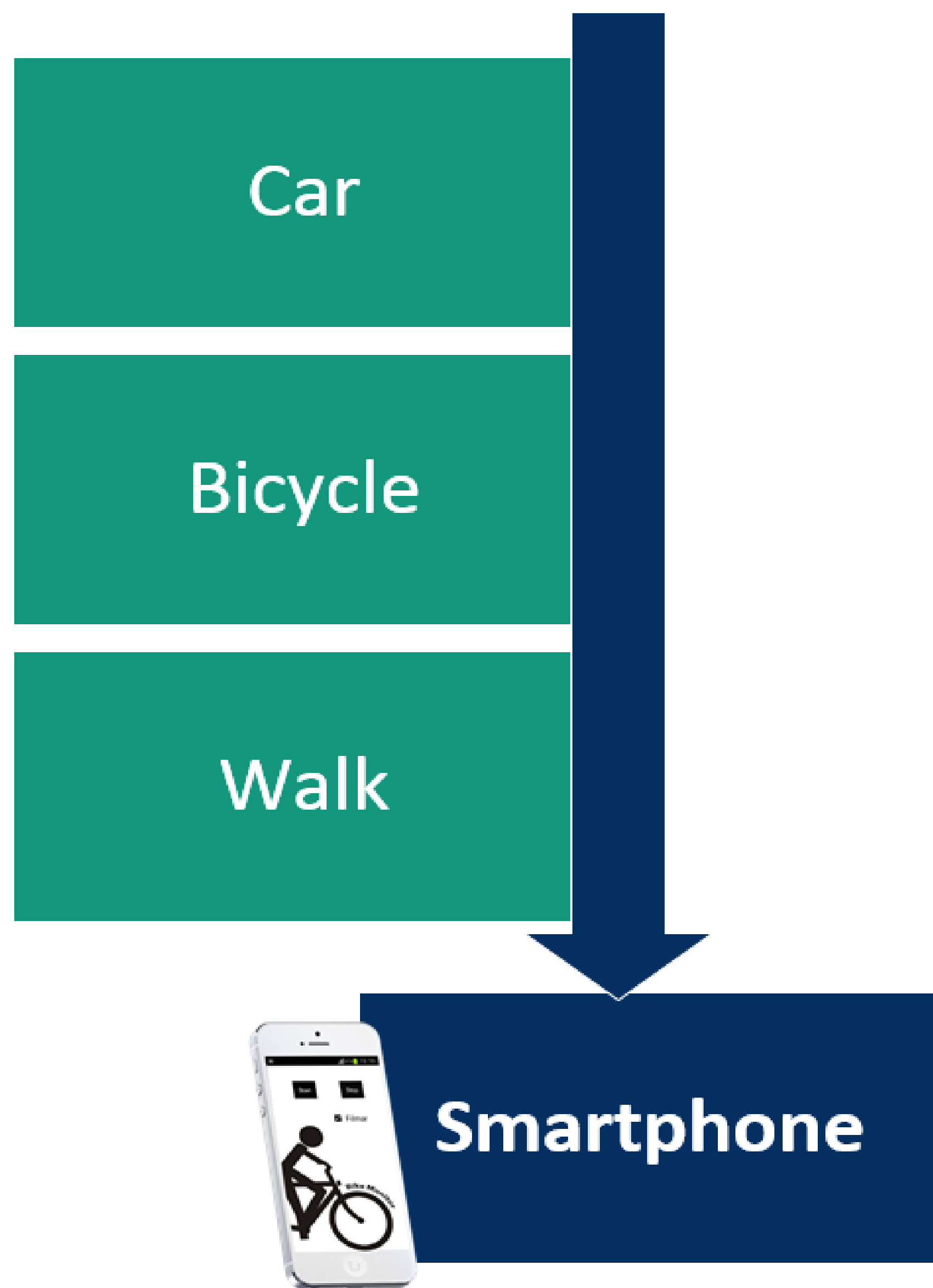
LARSyS
Laboratory of Robotics
and Engineering Systems

Mobility in Cities: Assessing Experiences Using a Smartphone

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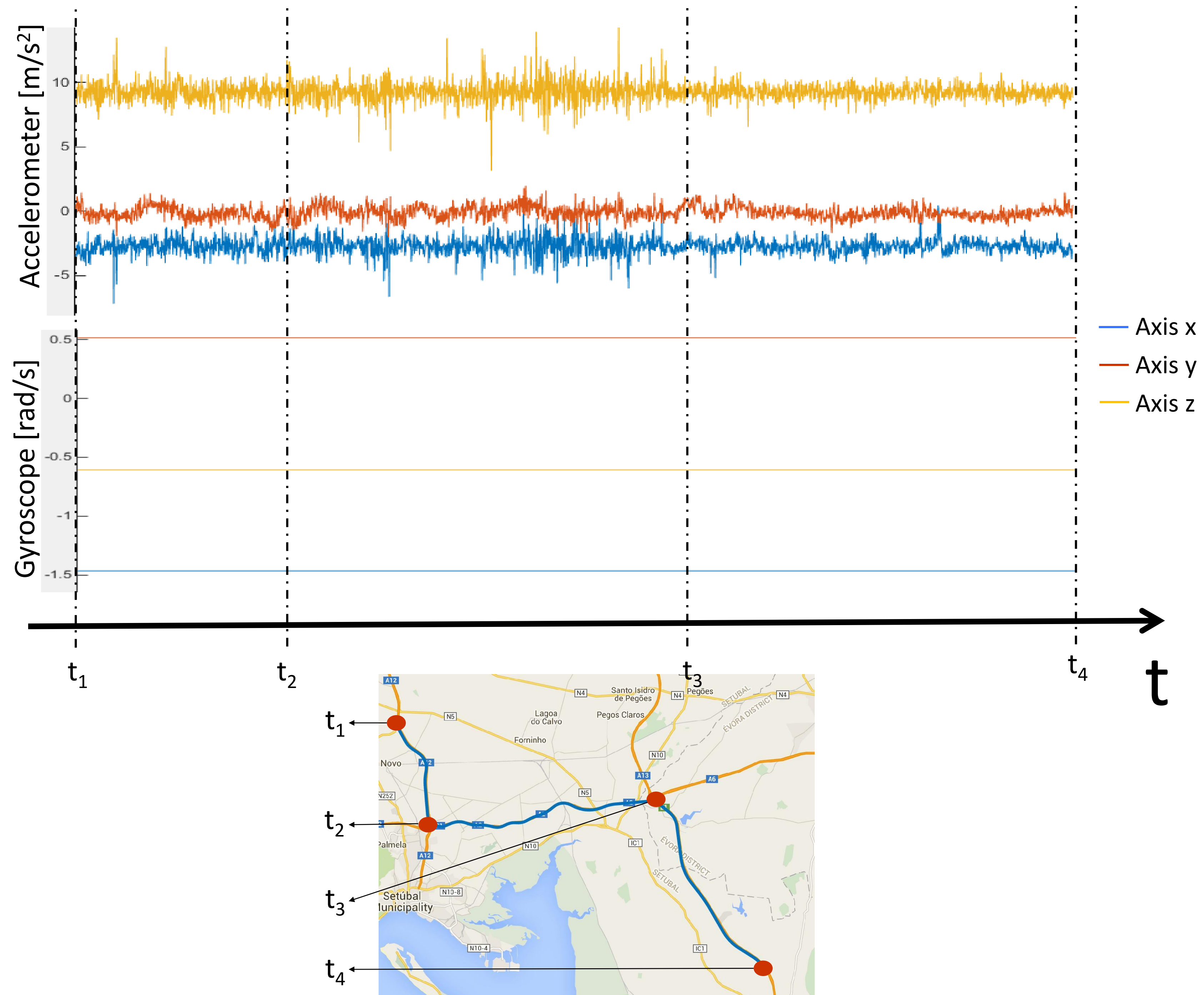
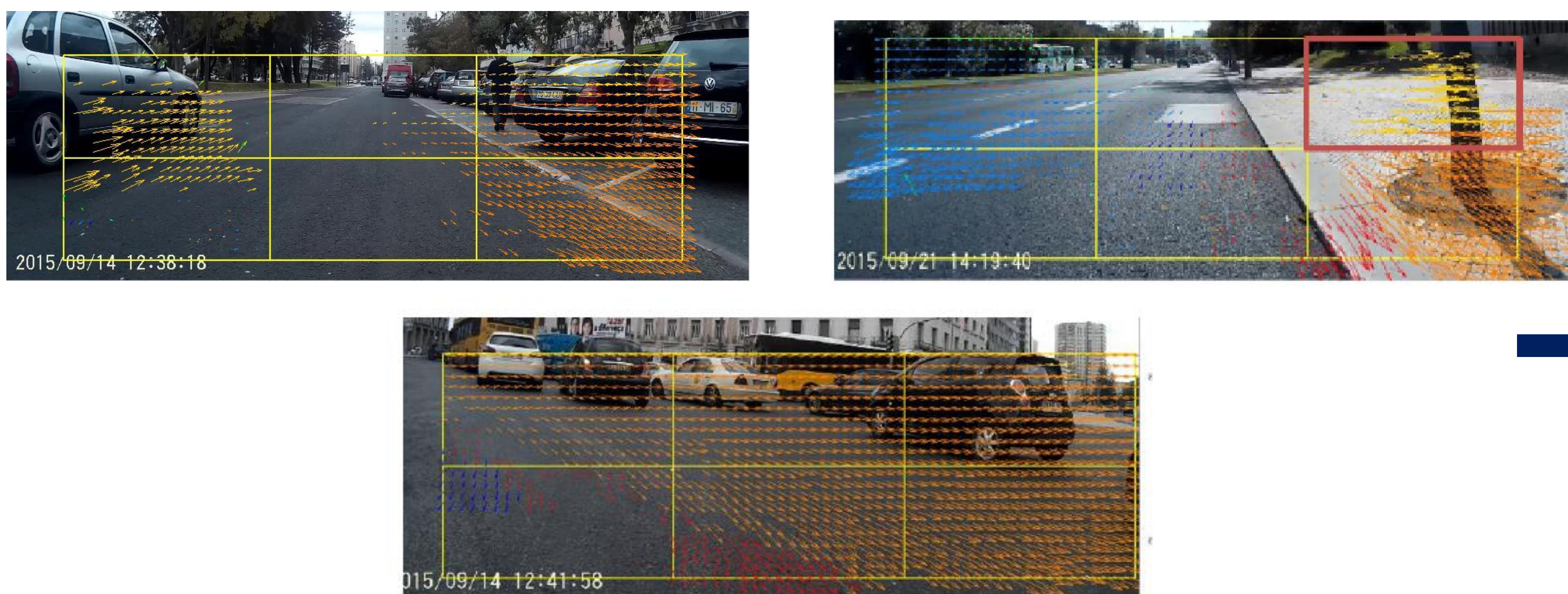


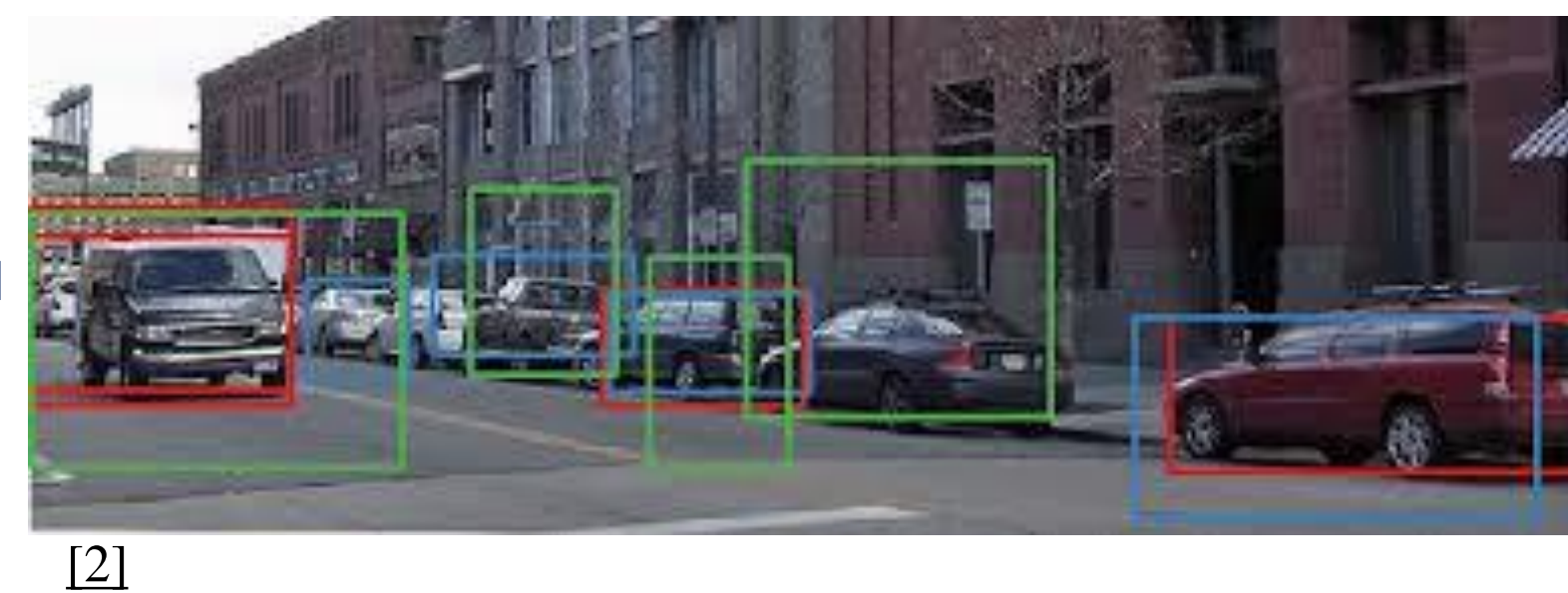
IMAGE PROCESSING

1. Low-level features, e.g. optical flow [1]



2. Semantic data

Object recognition using
R-CNN



Mapping of road obstacles
and ground irregularities

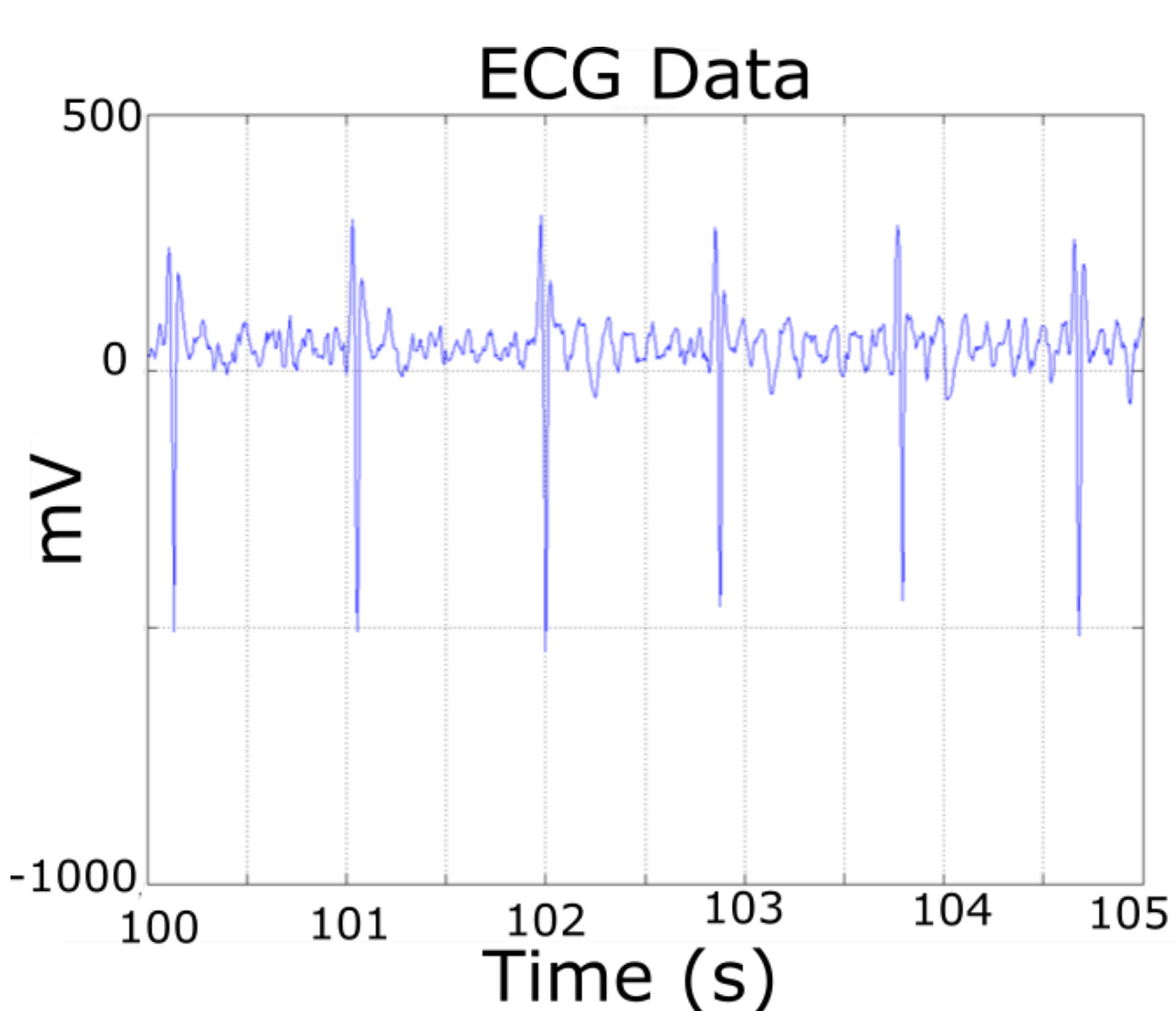
Events detection

And others

USING BIO-DEVICES



- Using smartwatches or
hearth-rate-monitor straps

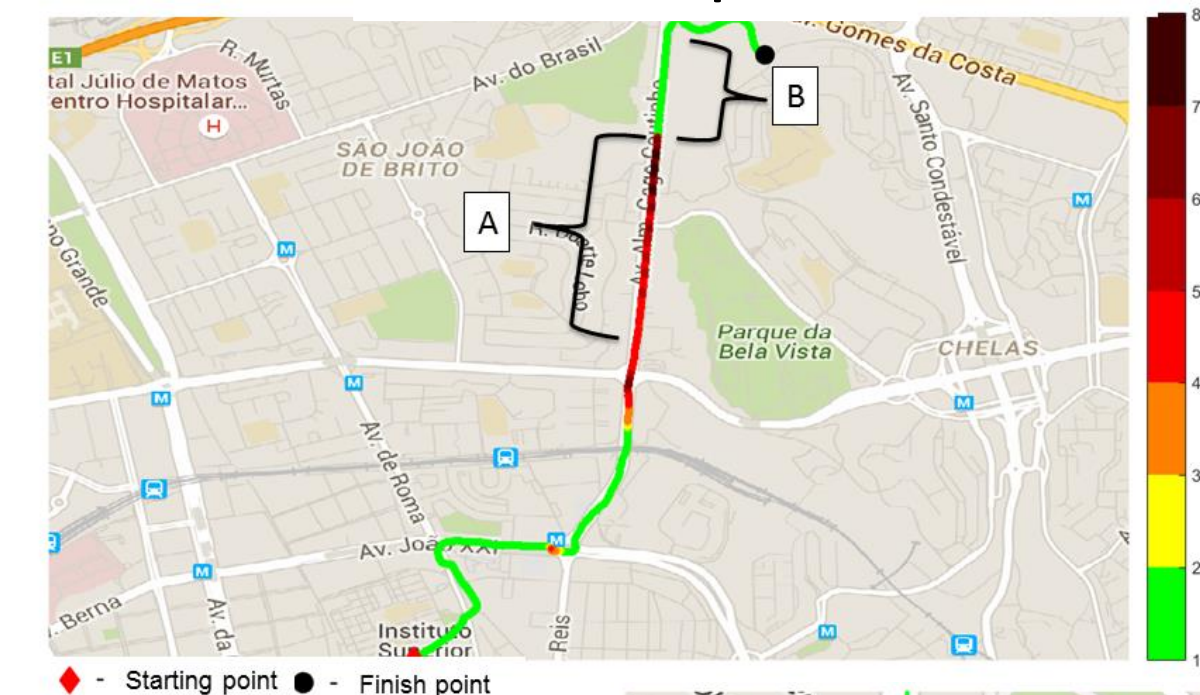


Stress map

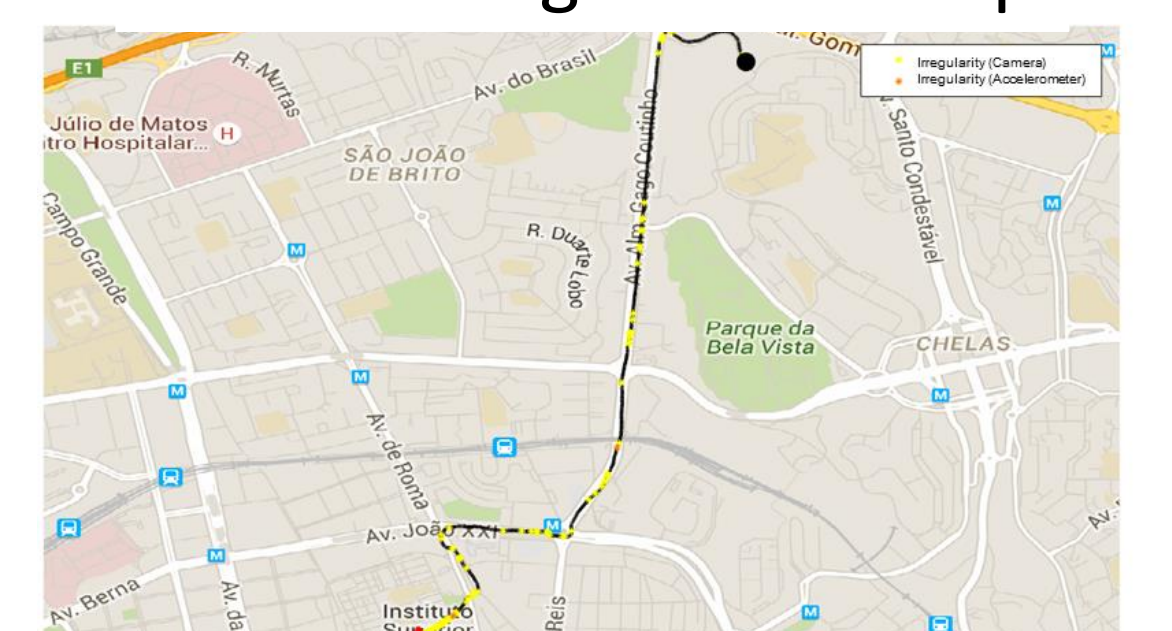


GEO REFERENCED DATA COLLECTION

Stress map



Ground Irregularities Map



[1] Vieira et al ... IV16

[2] <http://www.cs.toronto.edu/~kkundu/CSC2523DeepObjDet.pdf>

FCT
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