

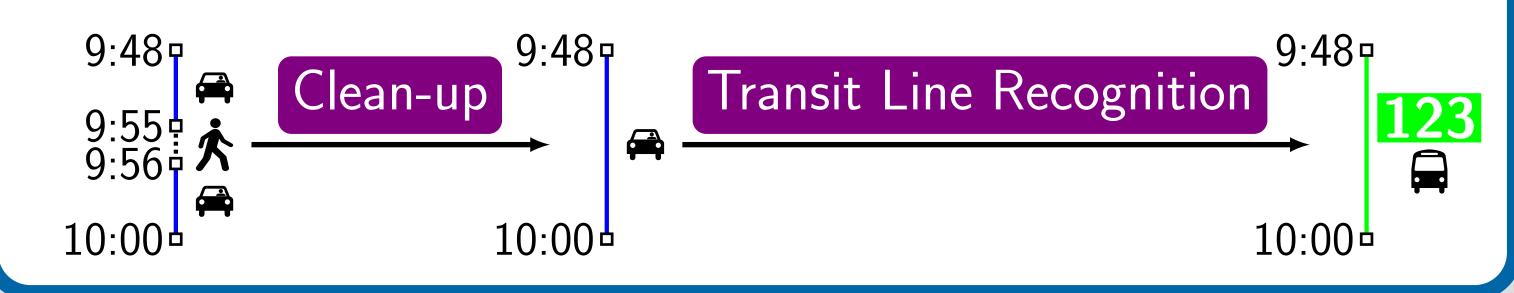
#### Smartphone Data 3

Observation sequence  $o_{1:T}$ , one per second  $o_t \in \text{Location} \times \text{Dynamics} \times \text{Context}$ 

### Location

	GPS	Wi-Fi	GSM
Accuracy	10m	100m	1000m
Availability	Mostly	Populated	Most
	outdoors	areas	areas

■ Phase II



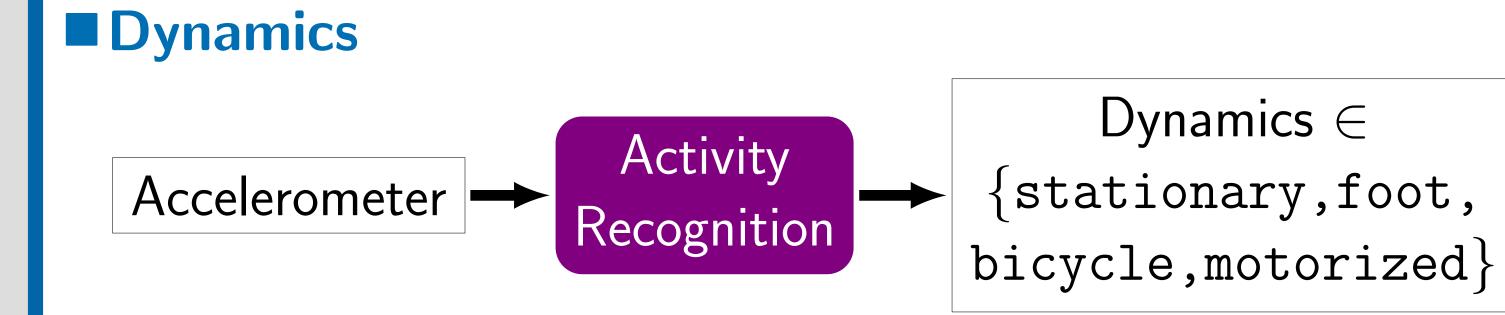
### Evaluation 5

42.5 hours of annotated journeys from users in the Paris region

**Confusion matrix by transportation mode** 

Predicted mode accuracy (%)

	foot	bike	car	bus	train	tram	Time (min)
foot	87	8	1	1	2	1	1068
bike E car	2	98	0	0	0	0	69
Ĕ car	5	2	82	10	0	0	718
bus	4	5	0	90	1	0	419
Yor bus Vorgensie Vorgensie	12	0	2	3	83	0	149
tram	15	3	6	1	0	75	129
Precision	91	36	96	80	81	92	2552



# **Context**

**Underground/Indoors:** indicated by the availability of GPS/GLONASS signal **Public Transportation:** suggested by the number of nearby Bluetooth devices

## **Transit Line recognition rates**

	bus	train	tram
Accuracy (%)	95	78	99
Total Time (min)	381	127	98