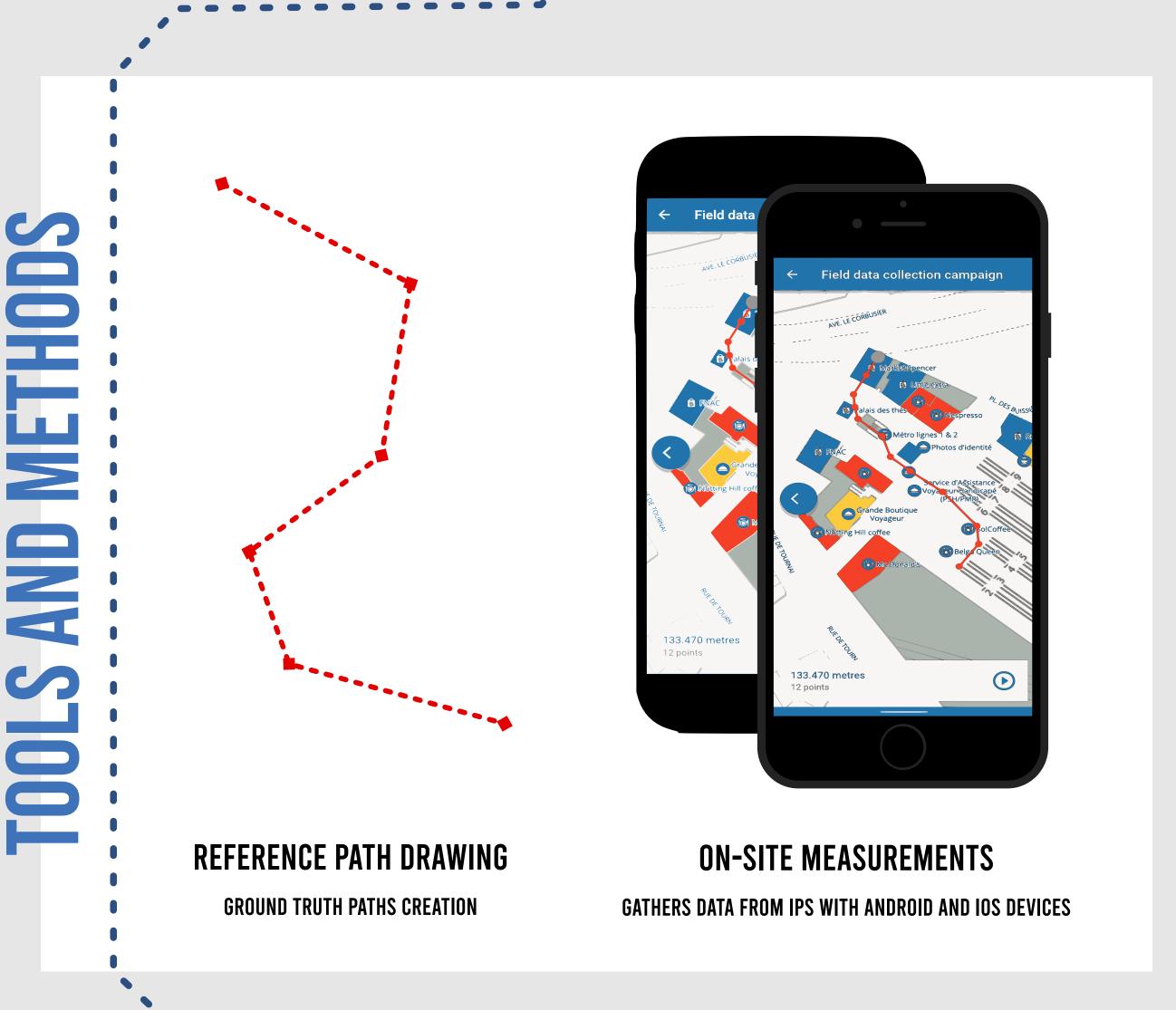
ANALYZING THE IN-SITU ACCURACY OF INDOOR-POSITIONING SYSTEMS DEPLOYMENTS

REMY RAES, PIERRE BOURHIS AND ROMAIN ROUVOY

 Indoor positioning systems (IPS) are widely adopted by location-based services to track assets or humans in closed environments (ranging from small offices to railway stations).

 However, once installed and configured, IPS may report inappropriate locations, because of various reasons such as configuration mistakes or building constraints.

HOW TO ACCURATELY MEASURE THE ERROR OF IPS? HOW CAN WE OPTIMIZE AN IPS DEPLOYED IN THE WILD?





DIRECTION 1 26 24 22 18 14 our Ru Tou Tru Tou Tru But Ru But But Tou Tru Tru Tru Tru Tru Tru Tru • Great inaccuracy at the **beginning** of runs. May be lowered by waiting before starting

measurements?

AVERAGE ERROR PROGRESSION ALONGSIDE REFERENCE PATH

DIRECTION 2 • We observe an average error raise around stairs, but

not in both directions.



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