Augmented Reality for Urban Environments

PUSHING AR ONE STEP FURTHER
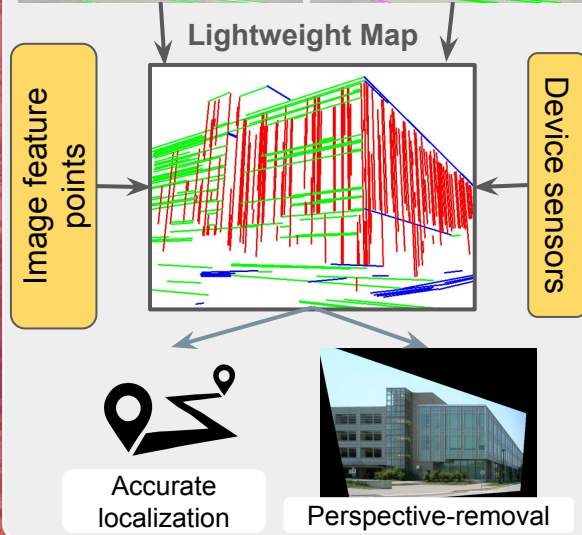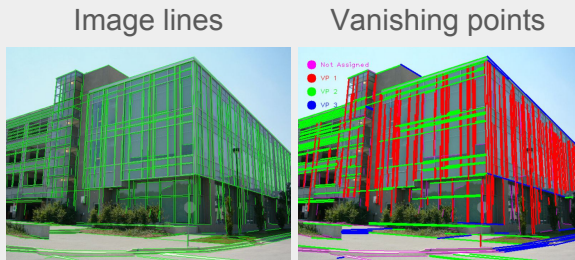

Destination 53 m
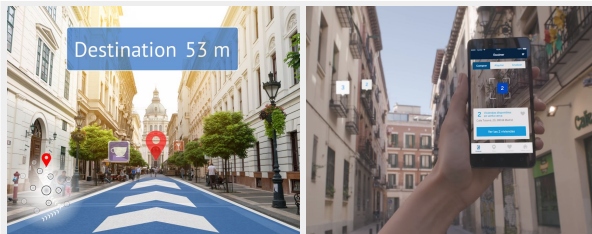
TODAY'S METHODS

· Perspective-dependent
· Lighting-dependent
· Indoor only
· Heavy
· Slow

LIGHTWEIGHT FEATURES 3D MAP

Image lines

Vanishing points

Not Assigned
VP 1
VP 2
VP 3

Lightweight Map

Image feature points

Device sensors

Accurate localization

Perspective-removal

AUGMENTED REALITY PIPELINE

Lightweight features

Robust localization

Drawing

3D Content

Video

Ads

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