

Visual Mapping & Localization

Benefits

Cost efficient

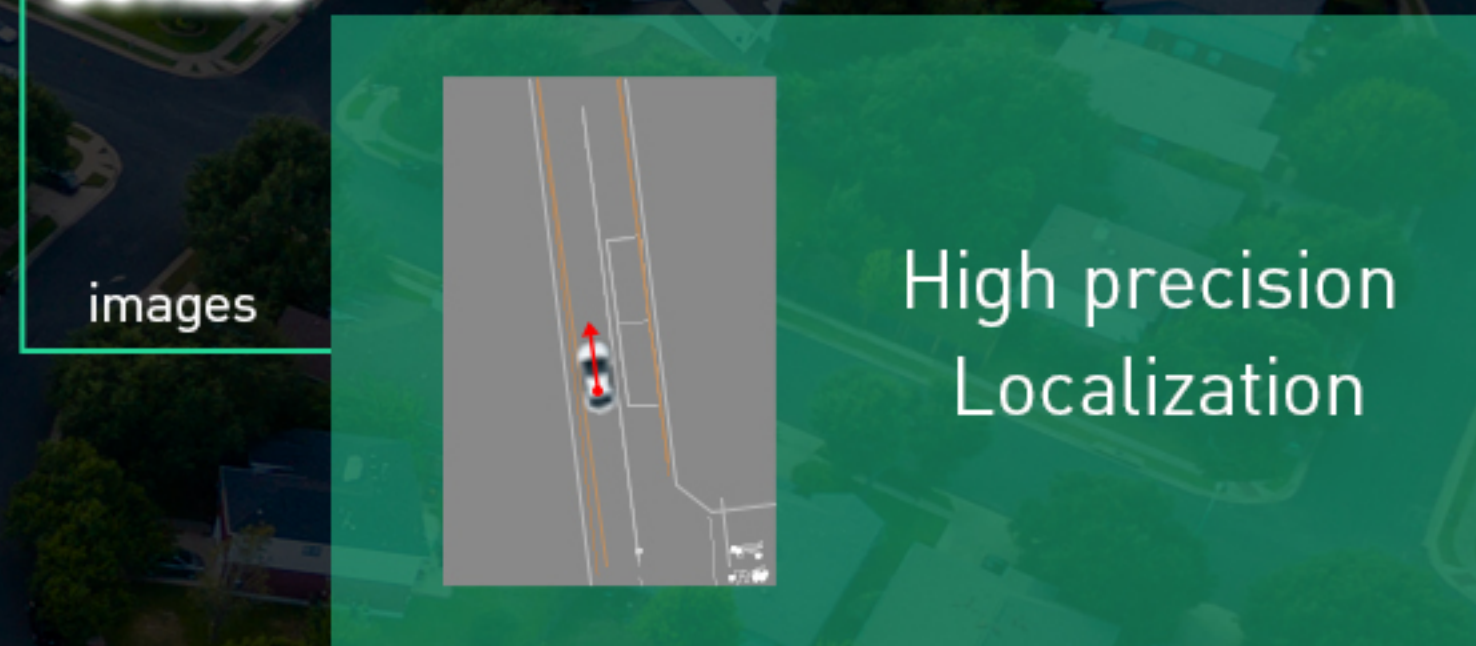
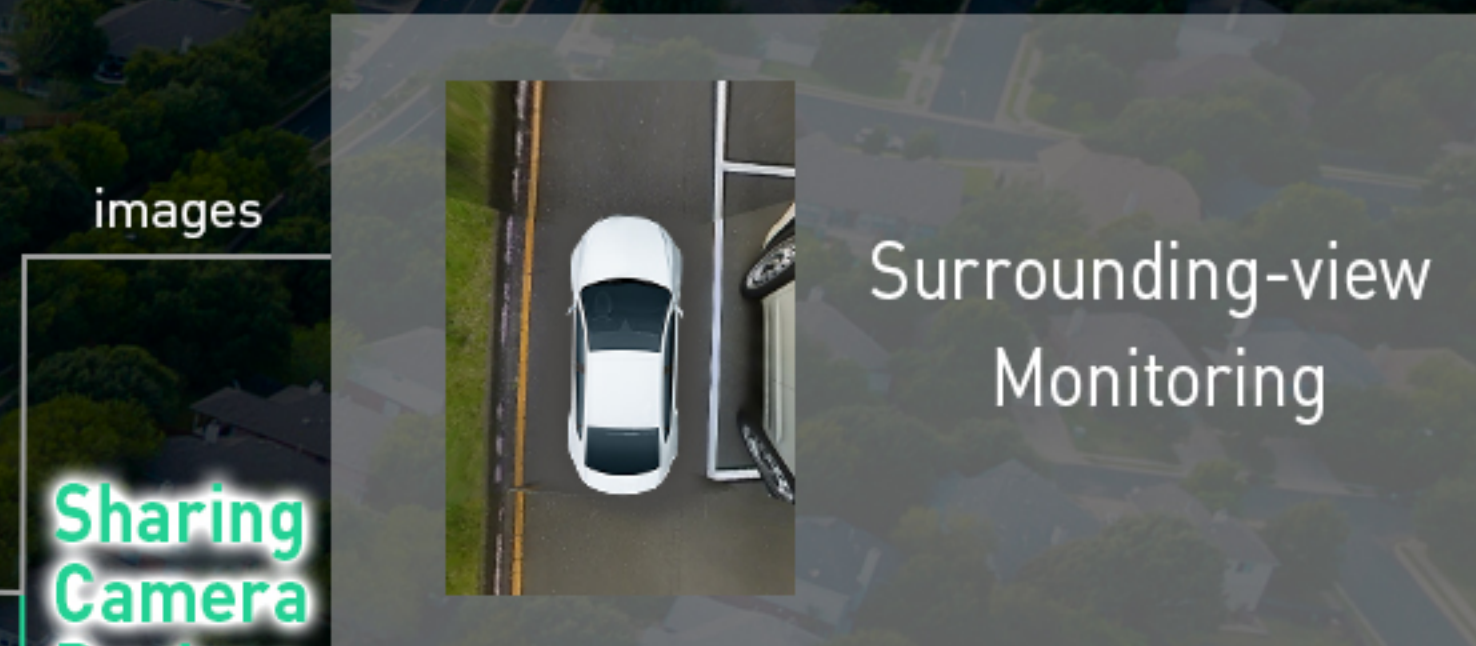
Realization of Low cost solution by using existing Surrounding-view Monitoring Cameras without additional dedicated device.

High precision & Robust

Satisfying the high-precision localization requirement (<20 cm) for Automated Driving Vehicle/Robot and working robustly in dynamic environment.

Working in GPS or Lidar denied environment

Can be used indoor, near high buildings and inside tunnel.



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Technical Advantages

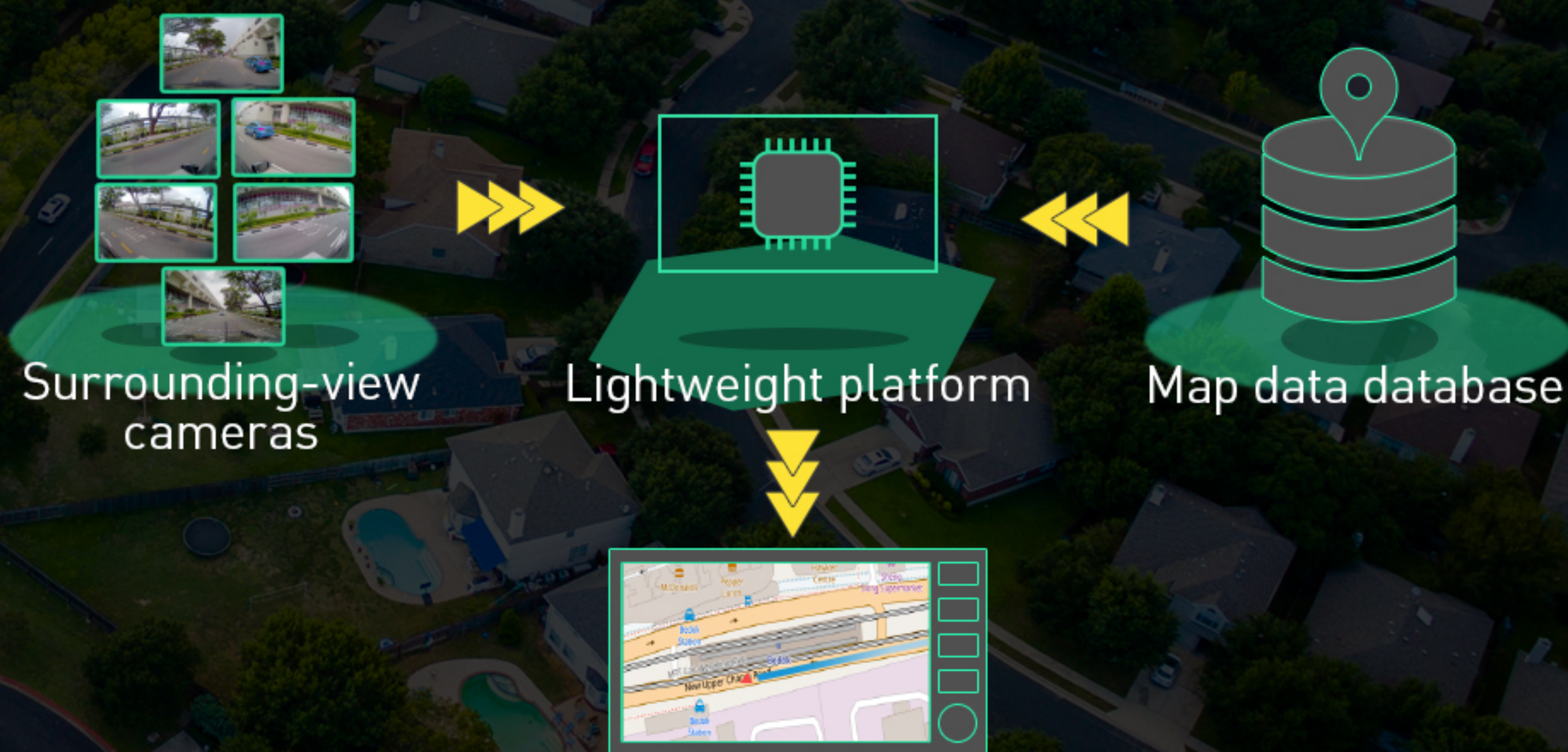
Robustness by using multiple cameras

Localization by surrounding-view observation and robust in case of occlusions and lens blur.



Localization deployed on lightweight platform

Real-time localization achieved on platforms with constrained memories and computing power.



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Applications

Automated Driving

Localization for fast-running vehicles at dynamic road scene.



Auto Valet Parking

Localization with high accuracy at indoor or outdoor carpark.



Auto Wheelchair & Robots

Localization of low cost for robots working within constrained environments.

