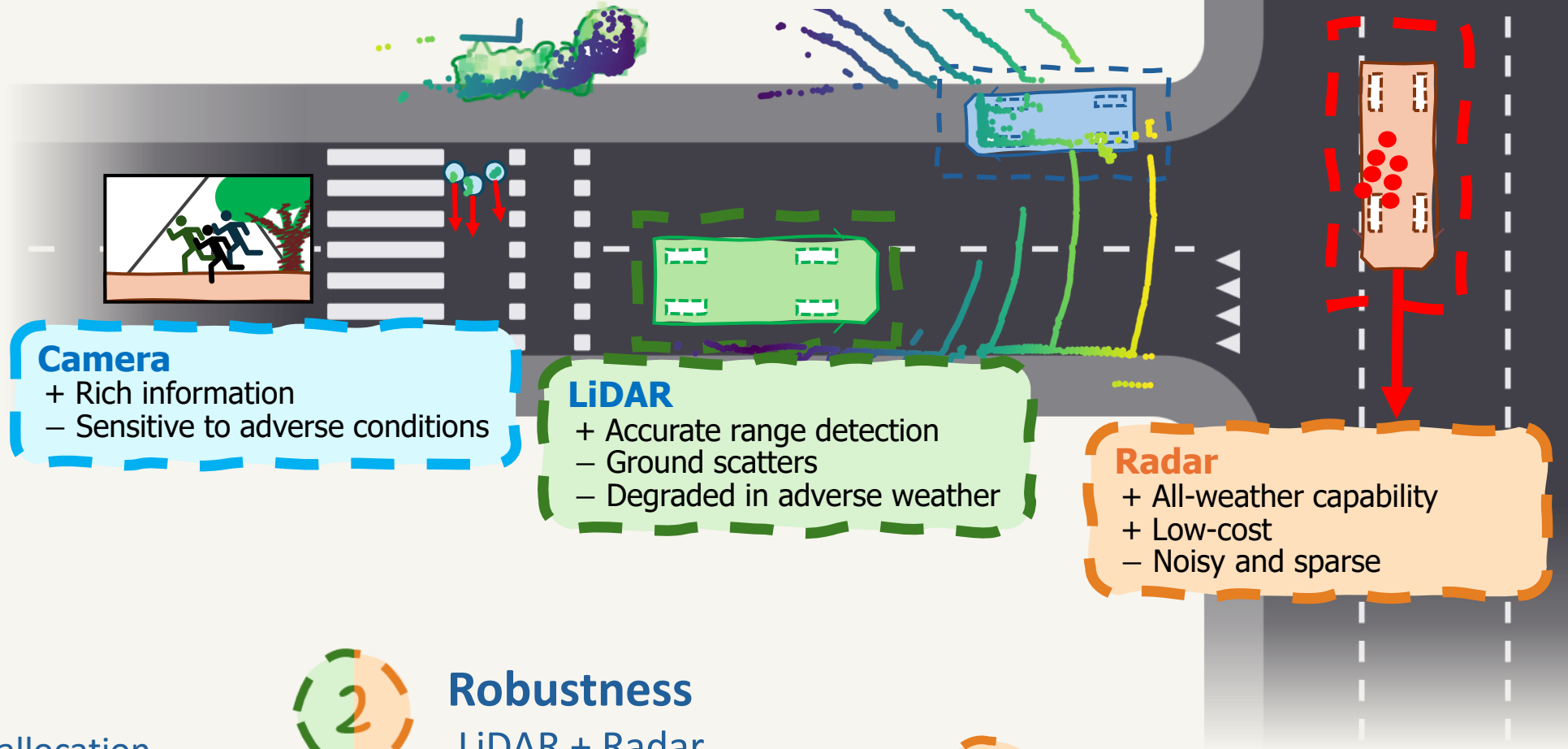
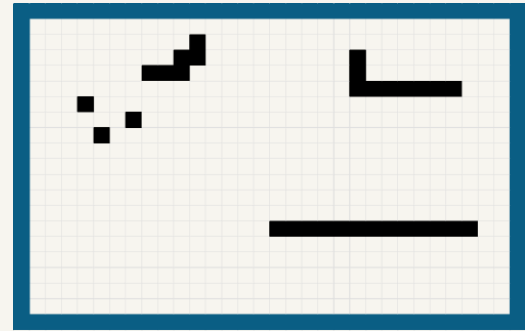


Sparsity-aware occupancy grid mapping



Camera

- + Rich information
- Sensitive to adverse conditions

LiDAR

- + Accurate range detection
- Ground scatters
- Degraded in adverse weather

Radar

- + All-weather capability
- + Low-cost
- Noisy and sparse



Accuracy

Camera

- Visual priors
- Guided occupancy allocation



Robustness

LiDAR + Radar

- Cross-modal enhancement
- Reduced false alarm



Dynamics

Radar

- Doppler information
- Probabilistic inter-frame consistency