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ABOUT CARMERA

MISSION:

• The world's most robust street intelligence platform for mobility and autonomy.

PRODUCTS:

- Autonomous Map: full-stack HD maps and navigation-critical data for autonomous vehicle customers
- Fleet Monitoring: data collection via telematics & video monitoring service for high coverage professional fleets
- Site Intelligence: data exhaust in the form of planning analytics for government and other key AV stakeholders

LOCATIONS::

• HQs in New York and Seattle; satellites in San Francisco, Detroit, Tokyo, Seoul

TEAM:

- Team: Maps @ Amazon, Apple, Microsoft; **3D/Vision** @ Google, MakerBot; **Geo/Data** @ Inrix, Snap
- Investors: Recent Series B venture backing from Google Ventures, Matrix Partners and others



CHEAP DATA COLLECTION \rightarrow LIVING AV MAPS \rightarrow VALUE-ADD DATA EXHAUST



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We create dense, < 20 cm accurate base maps via customer or third party LiDAR / RGB scan data





In addition, we partner with high coverage fleets, providing free video monitoring and safety analytics In return we mount affordable sensors on their vehicles for free high-frequency change detection











FIRST PUBLICLY ANNOUNCED PRODUCTION DEPLOYMENT

- Voyage Self-Driving Taxi Service, The Villages, FL
- Largest announced passenger robotaxi service; > 750 miles, > 10k proj daily riders
- Large-scale static mapping followed by **<u>real-time/living map updates</u>**



HOW WE PLAN FOR CONNECTIVITY: ASSUME THE WORST, EXPECT OKAY, HOPE FOR THE BEST

- **The Worst**: Network deserts / extended outages
 - Robust in-vehicle modules, caching
 - Proactive warnings for data staleness
- The Okay: Status quo cellular in field and broadband at homebase
 - Mobile payloads within a typical consumer LTE plan
 - Nightly wifi transfers for any larger or batch updates
- The Best: 5G / DSRC / Ethernet-via-Charger / ? ...
 - If/when at scale, hooray! \rightarrow shift more and more to cloud/fog
 - But don't ASSUME ("makes an ASS out of U and Mobile Engineers" ;)

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