Fleet Management Towards Automated Vehicles
A Snapshot

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Agenda

- Legacy fleet management – a reminder
- Automated driving trends
- Fleet oriented automated driving types
- Robotaxis and CAAS
- CAAS FMS – A different type of fleet management
- CAAS fleet management – functional review

About Spotam

Auto-Tech

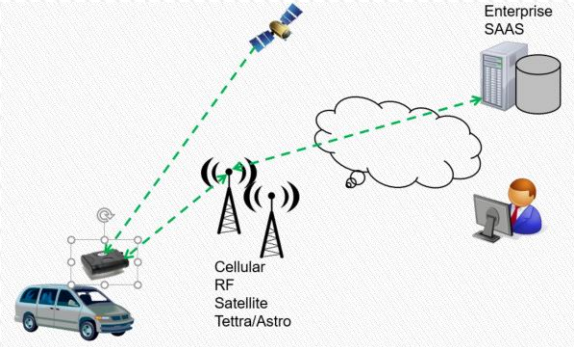
Legacy
Telematics

Mobility & ITS

Automated
Driving

Legacy FM Systems

- Tracking
- Dispatch
- Fuel management
- Driver management
- Vehicle management
- Reports
- Alerts
- Mobile application
- Eco/safe driving
- Rout management
- Vehicle diagnostics
- Back office integration



Major Trial Trend

Automated consumer cars → Automated commercial schemes

Fleet management becomes a key success factor

It is a different fleet management

Moving from supervision to action

Fleet Oriented Automated Driving

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Robotaxis (CAAS)

Delivery vehicles

Platooning

Automated trucks

Shuttle bus

Robotaxi Trials

Daimler & Bosch

Nutonomy

Waymo One

GM Cruise

Dena & Nissan

Yandex

Robotaxis (CAAS)

- Unification of all forms of personal service transportation
- Ride share or exclusive ride
- Private section
- Business model: distance, mileage, sharing
- Lower cost – no driver expenses
- Simpler control (A to A, A to B)
- Better city and society:
  - Safer
  - Traffic efficiency (congestion, parking)
  - Less pollution
  - Economical savings (Personal efficiency)

CAAS Fleet Management
A Different Type Of Fleet Management

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- Main differentiating factors:
  - No human presence in work flow
  - Mass quantities of vehicles & service providers
  - Special automated vehicle needs
- As a result:
  - Action mode vs. supervision mode (automated decisions & activations)
  - No compromise on CAAS features
  - Intensive optimizations on all fronts (all kinds of work flows in mass)
  - Remote maintenance & diagnostic services
  - Effective emergency services
  - Roaming and partnerships on the automation level
  - Expended variety of in-vehicle sensors
  - Automated driving regulation compliance

AV-CAAS Fleet Management

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Fleet Management

- Tracking
- Fuel management
- Vehicle management
- Alerts
- Mobile app
- Back office integration

Maintenance

- Remote in-vehicle supervision
- Remote & predictive diagnostics
- Emergency detection
- Emergency remote driving
- Sensor & safety diagnostics
- Automatic field staff/ SP dispatching

Automated CAAS

- Vehicle selection
- Dynamic pricing
- Billing
- Reservation
- Check in/out/pickup
- CRM & service
- Registration
- Consumer app
- Cyber protection
- Passengers history
- Data warehouse
- Reporting

Service Control

- Automatic dispatch
- Human override
- Max fleet availability
- Opt fleet utilization
- Route optimization
- Automatic work flow management
- Off streets parking management
- External data inclusion

Third Party API

- Roaming
- Service aggregation
- Inter networks cooperation agreements
- MAAS integration
- Third party's cooperation agreement

Real Life Examples

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OpenFleet Solutions How it works Library EN REQUEST A DEMO

Optimize your service operation through

→ Dynamic pricing and demand response to update your service based on foreseen or unforeseen weather/events/conditions

→ High-status alert monitoring for your operations (State of Charge for Electric Vehicles or fuel level reporting)

→ Autonomous vehicle integrity safety (antitheft notifications, software intrusion, etc)

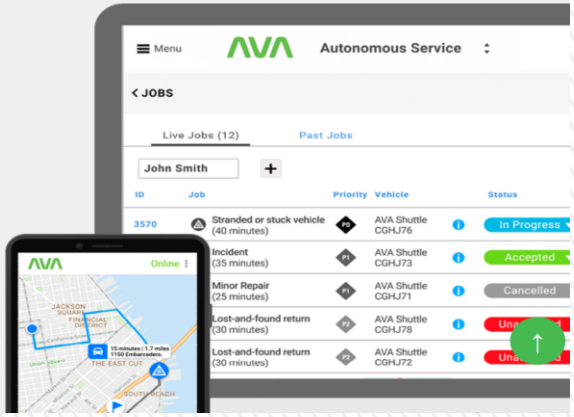
→ Metadata analysis based on vehicle utilization and track record/reports (based on graphics, statistics, vehicle scoring, heatmaps, spreadsheets and recommendations), depending on your deployment strategy

RIDECELL INDUSTRIES SOLUTIONS RESOURCES ABOUT CONTACT US

A system to match wits with your autonomous vehicles

From workflow management to real-time fleet management and automated alerts, Ridecell keeps your autonomous service running smoothly.

SEE RIDECELL IN ACTION



Thank You

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