

**LOGISTICS+TECH**



**SUMMIT**

organized by **hypertrack**

# **Building Scalable and Secure Infrastructure for Logistics API Platform**

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# Why does HyperTrack Exist?

```
import UIKit
import MapKit
import CoreLocation

class ViewController: UIViewController, CLLocationManagerDelegate {

    let locationManager = CLLocationManager()

    override func viewDidLoad() {
        super.viewDidLoad()
        locationManager.requestAlwaysAuthorization()
        if CLLocationManager.locationServicesEnabled() {
            locationManager.delegate = self
            locationManager.desiredAccuracy =
kCLLocationAccuracyNearestTenMeters
            locationManager.startUpdatingLocation()
        }
    }

    func locationManager( manager: CLLocationManager, didUpdateLocations
locations: [CLLocation]) {
        guard let locValue: CLLocationCoordinate2D =
manager.location?.coordinate else { return }
        print("locations = \(locValue.latitude) \(locValue.longitude)")
    }
}
```

Mobile operating systems have APIs that provide you your device's GPS location and with a public cloud provider's managed services that can be integrated and implemented in minutes - why do you need experienced teams for this?

Quote from customer:

***“At first we thought: OS gives you GPS location, and maps give you everything else. Why do we need HyperTrack?! And now after 8 months of using HyperTrack, I wonder how we ever thought of doing it ourselves.”*** —  
*Android developer for a gig economy app in San Francisco*

# Use Cases

- **Live Order Tracking for Customers**
- **Dispatch Orders to Nearby Drivers**
- **Order Assignment and Route Optimization**
- **Productivity of Visits and Routes**
- **Pay Fairly Based on Ground Truth**
- **Enable Visibility to Ops Teams**

# HyperTrack Platform

## Mobile SDK

Battery efficient, real-time, accurate, fraud resilient, and secure location data generation and communication with the cloud platform

## Cloud Platform

Secure, scalable, reliable, fault-tolerant, intelligent and real time location data processing to provide up to date driver location information, operations dashboard with maps and actionable insights

## Data stores

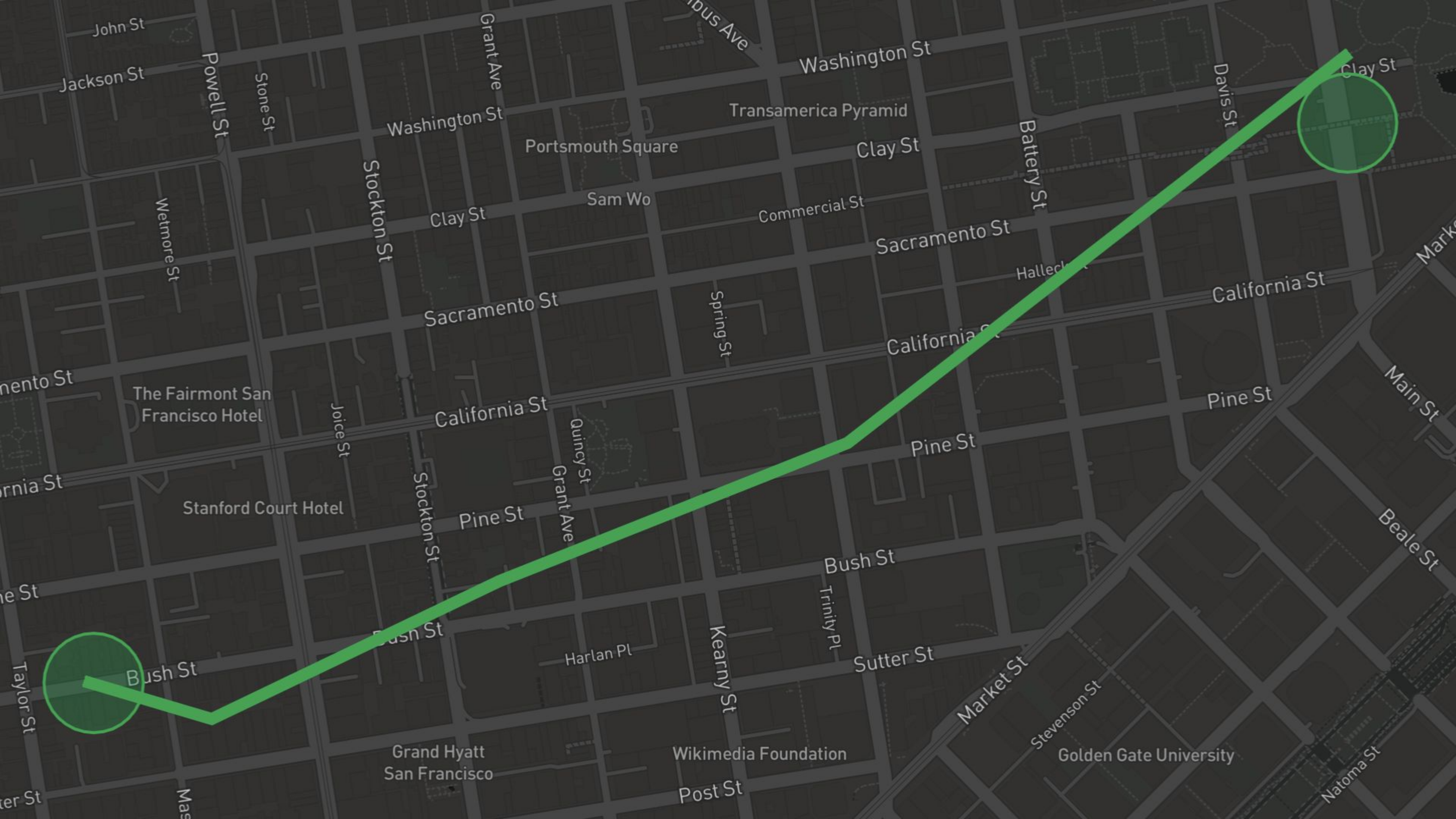
Highly scalable, NoSQL stores for real-time updates and event processing, SQL stores for aggregate data, columnar databases for raw data, data science, and business intelligence analytics

## Security

Secure access to public APIs and operations dashboards data; data encrypted at rest and in transit; data retention is limited to up to 90 days.

# Accurately Capturing Driver Movement





John St

Jackson St

Powell St

Stone St

Stockton St

Washington St

Grant Ave

Bus Ave

Washington St

Transamerica Pyramid

Portsmouth Square

Clay St

Davis St

Clay St

Wetmore St

Clay St

Sam Wo

Commercial St

Battery St

Sacramento St

Halleck St

California St

Sacramento St

Spring St

California St

The Fairmont San Francisco Hotel

Joice St

California St

Quincy St

Pine St

Pine St

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ramento St

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Stanford Court Hotel

Stockton St

Pine St

Grant Ave

Pine St

Beale St

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Bush St

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Sutter St

Market St

Stevenson St

Golden Gate University

Grand Hyatt San Francisco

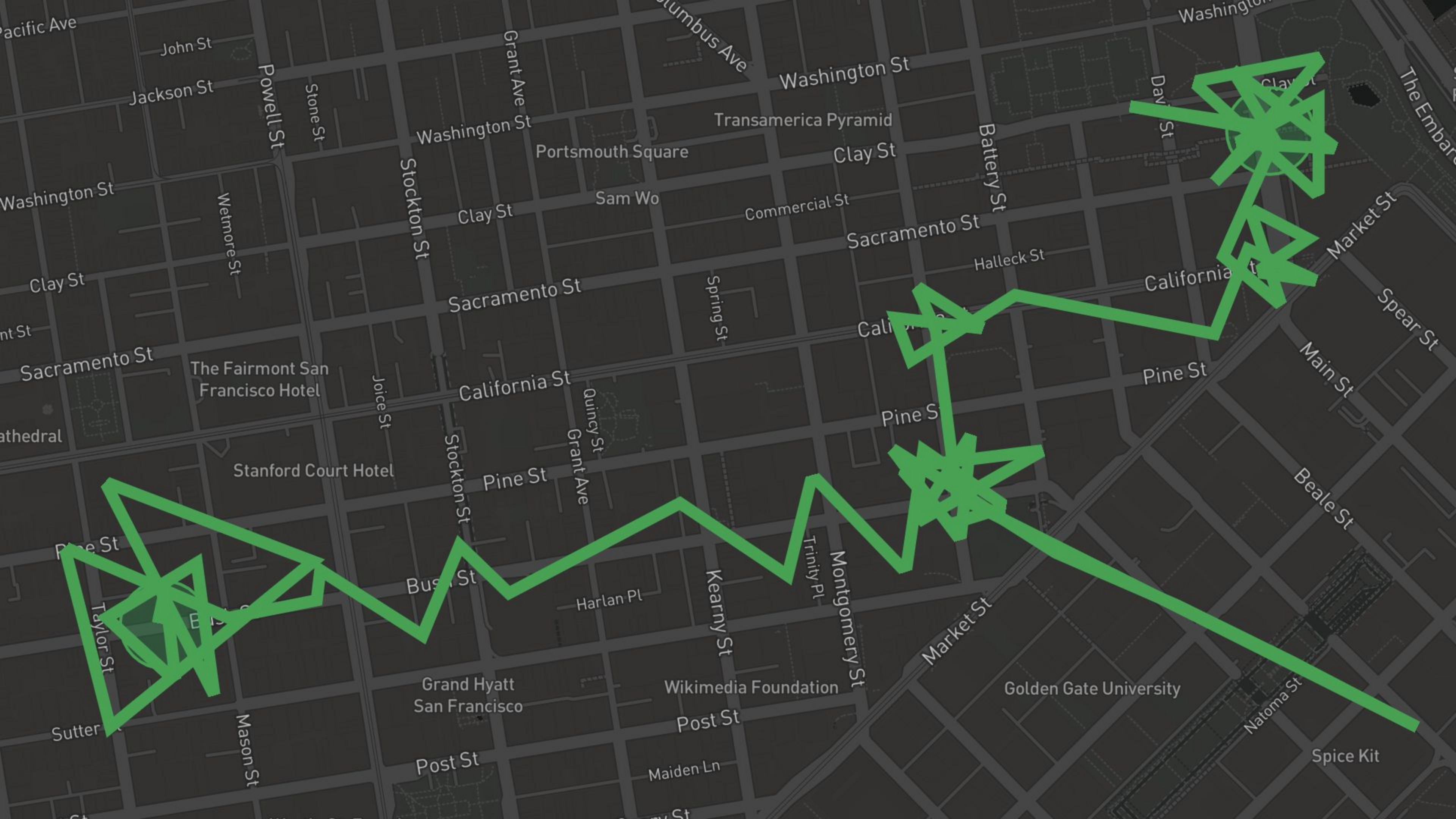
Wikimedia Foundation

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# Accurately Capturing Driver Movement

- **Solving accuracy noise**

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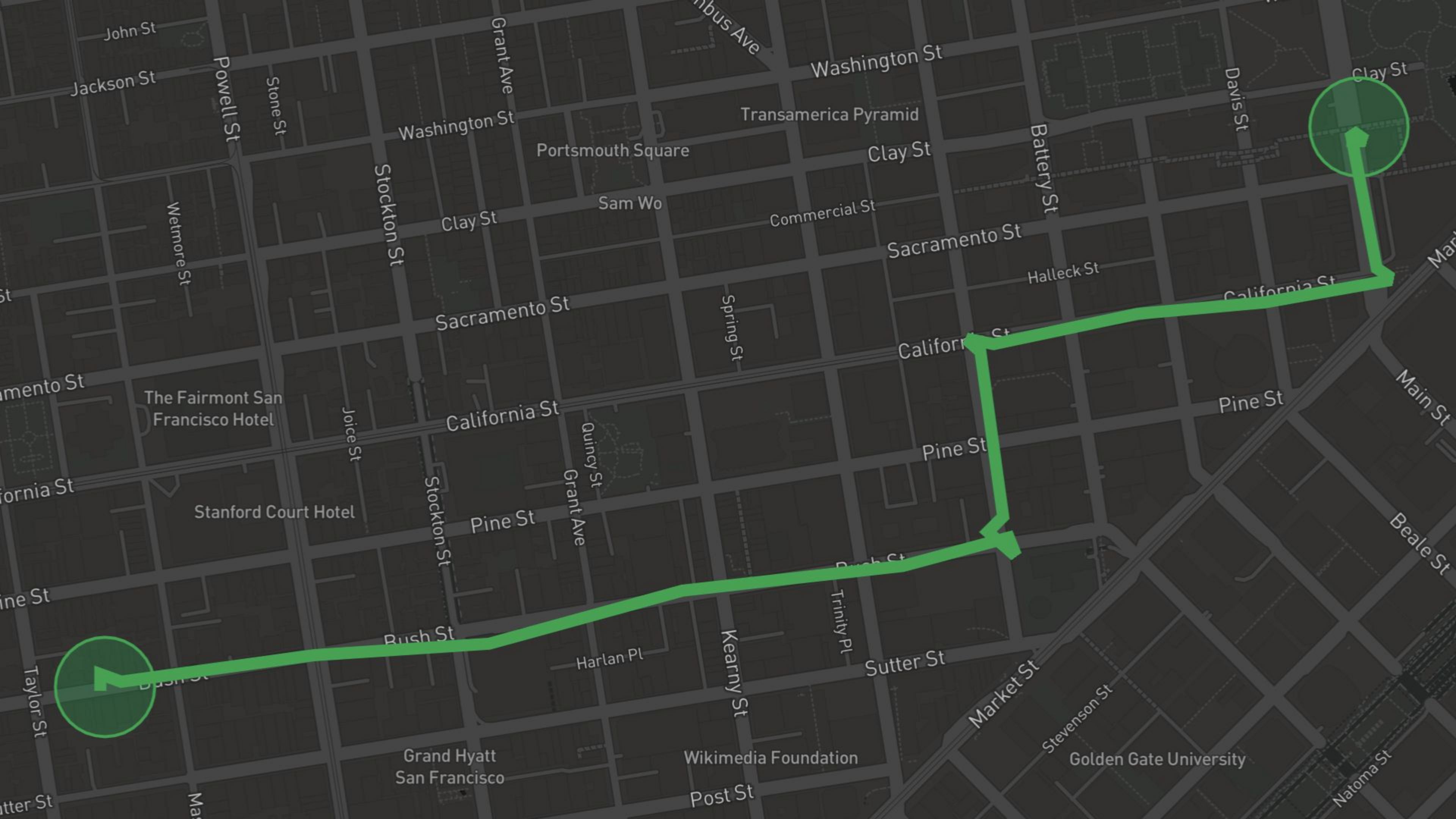
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  - **Use movement patterns to solve both battery and disconnection detection**

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  - **Use local geofences and silent notifications**

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  - **Use simulation detection APIs from OS**
  - **Use heuristics for older OSes**

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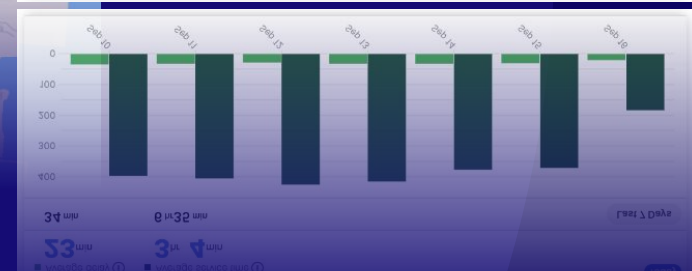
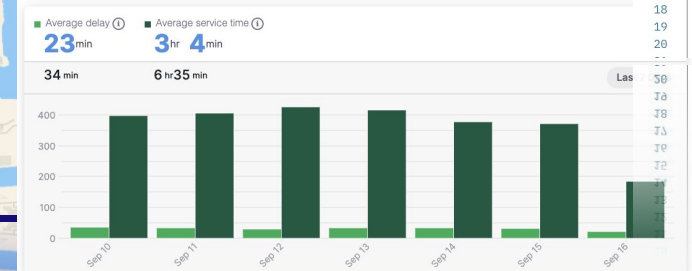
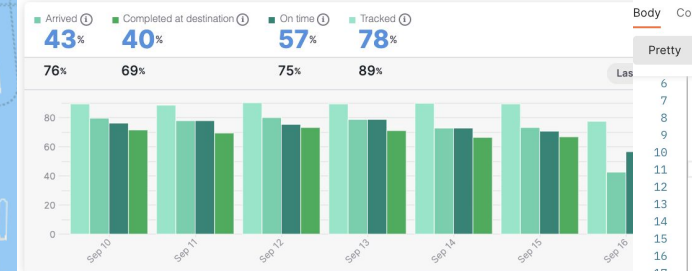
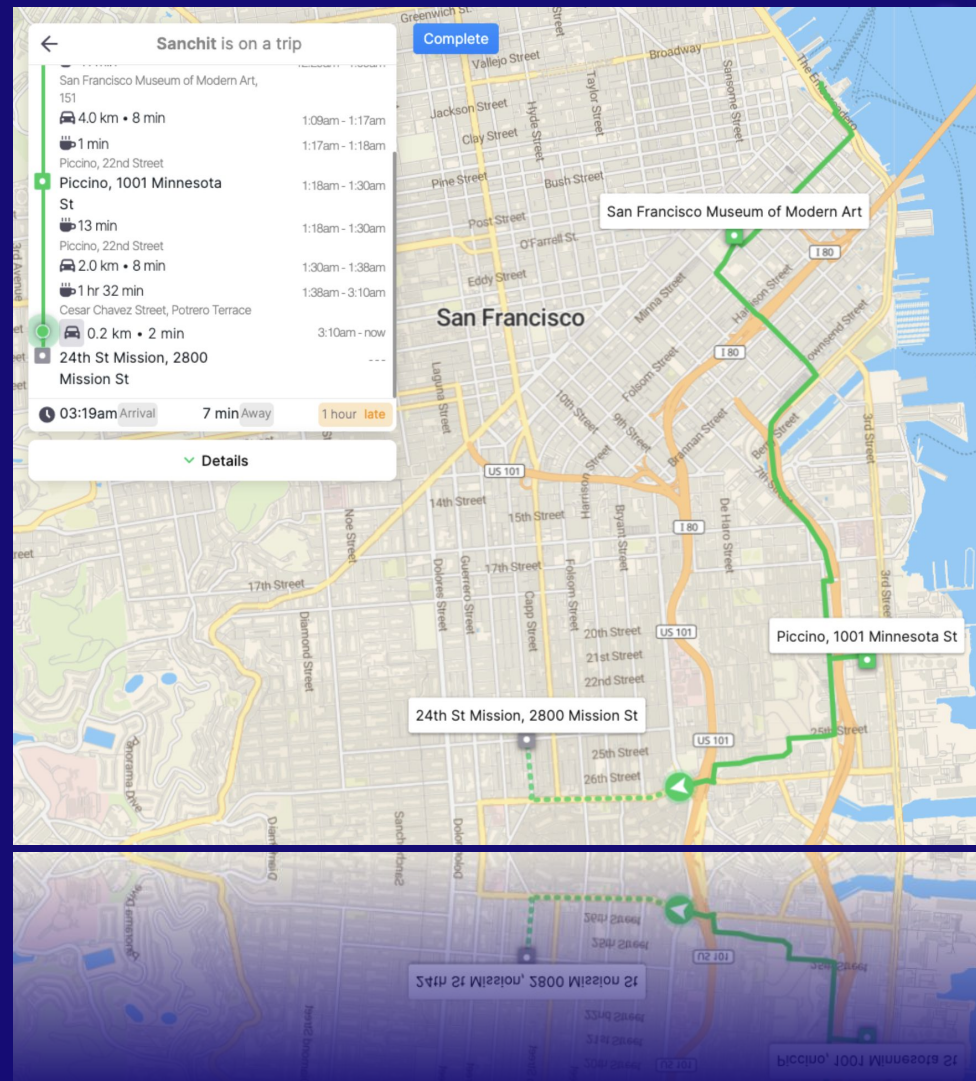
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  - **Property based testing**
  - **Propagating state using CRDTs**

# From Raw Data to Insights

```

{
  "device_id": "00112233-3883-4FD9-A33E-074845EE5DCC",
  "recorded_at": "2022-11-04T03:05:35.753Z",
  "account_id": "00112233-3883-4FD9-A33E-074845EE5DCC",
  "arrived_at": "2022-11-04T03:05:35.762Z",
  "created_at": "2022-11-04T03:05:35.762Z",
  "data": "{\"location\": {\"coordinates\": [-122.3938916314764, 37.79734517847494], \"type\": \"Point\"}, \"speed\": 0.2, \"altitude\": 610, \"bearing\": 90, \"location_accuracy\": 665.02}",
  "expiry_time": 1670555135,
  "id": "23a2a5df-4a63-4edd-ad91-3b65ce027097",
  "type": "location"
}
    
```



HyperTrack API / Devices API / Get device history

GET https://v3.api.hypertrack.com/devices/00112233-8529-4A19-8DB7-8B9319330505/history/2022-11-13

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body Cookies Headers (6) Test Results (1/1)

```

{
  "markers": [],
  "started_at": "2022-11-13T00:00:00.000Z",
  "completed_at": "2022-11-13T23:59:59.999Z",
  "distance": 0,
  "duration": 86077,
  "steps": 0,
  "name": "Pavel",
  "tracking_rate": 99.63,
  "inactive_reasons": [],
  "inactive_duration": 0,
  "active_duration": 86077,
  "stop_duration": 86077,
  "drive_duration": 0,
  "walk_duration": 0,
}
    
```

### Order Score

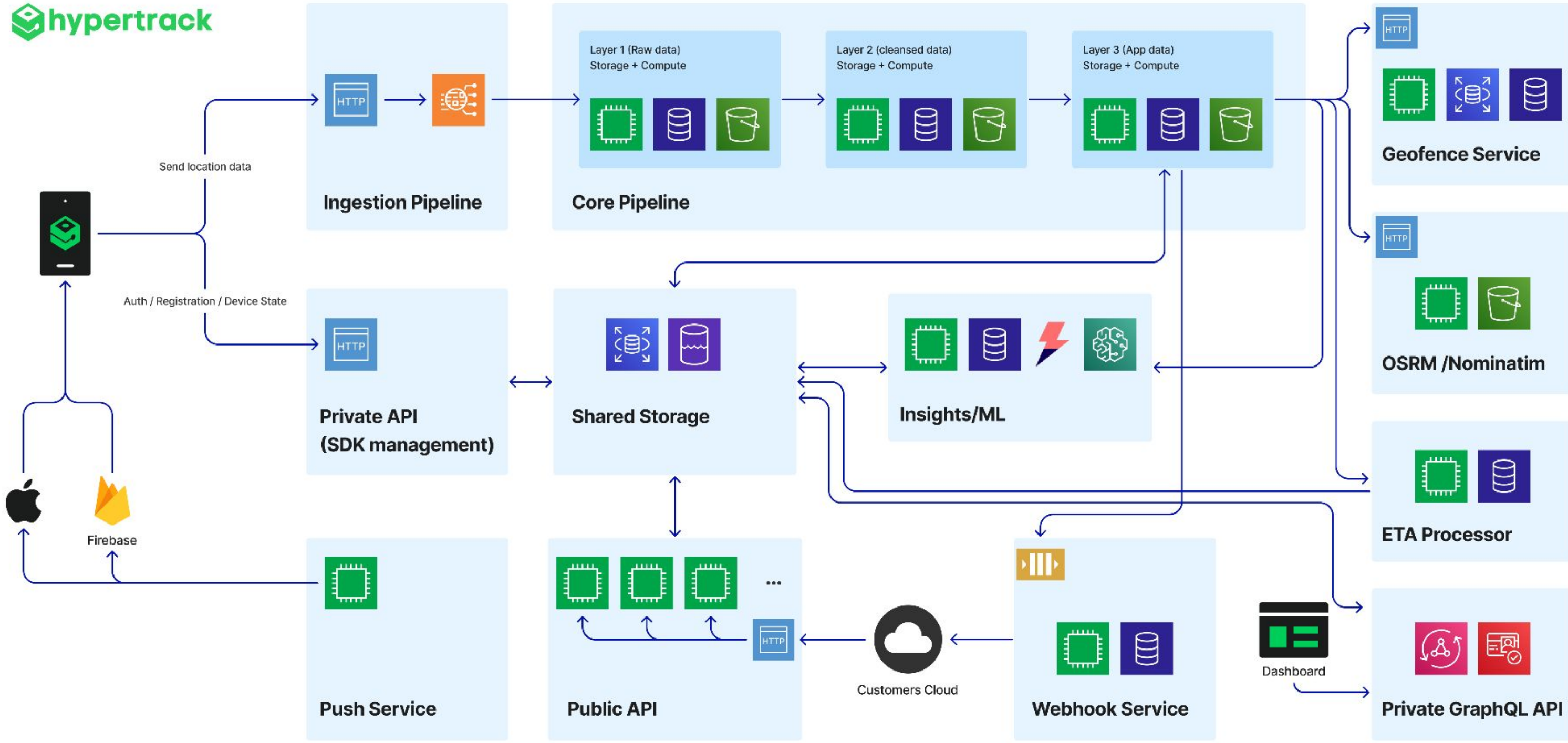
Keep a finger on the pulse of every order

Last 7 days

- ORDER SCORE: 58**  
Your order score is a combination of factors like address accuracy, route efficiency, tracking rate and delays
- ADDRESS ACCURACY: 50**  
ADDRESS IS ACCURATE
- ROUTE EFFICIENCY: 48**  
DRIVER TOOK LONG ROUTE WITH HIGH IDLE TIME
- DELAY: 50**  
ORDER COMPLETED ON TIME
- TRACKING RATE: 85**  
INCORRECT TRACKING DUE TO OUTAGES

COMPLETED AT EXPECTED: 50 | STOPPED AT EXPECTED: 51 | IDLE TIME: 48 | SHORTEST ROUTE DISTANCE: 47 | ARRIVAL VS INITIAL: 48 | SCHEDULED VS COMPLETED: 49 | SYSTEM DRIVEN OUTAGES: 93 | DRIVER DRIVEN OUTAGES: 92

# HyperTrack Architecture



- API request
- cloud function
- AWS S3
- Amazon Sagemaker
- data stream (Kafka/Kinesis)
- database
- data lake
- RDS
- AWS Cognito
- AWS AppSync

# Realtime On-Demand Logistics API platform

- **Realtime processing**
  - **Updates from SDK and API calls are handled in real time**
  - **Event-Driven architecture**
  - **Events are applied to existing state and historic movements**
- **Highly elastic platform to scale with our customers**
  - **Serverless platform that scale automatically**
  - **Strong observability and auto scaling automation**

# Handling Unreliable Mobile Clients

- **Outages**
  - **We can distinguish dozens of different outages. Ranging from permission issues to network/GPS connectivity issues and present actionable fixes.**
- **Device connectivity**
  - **SDK data caching**
  - **Waking up disconnected devices remotely**
- **Location and movement accuracy in real time**
  - **Cleaning locations in real time**
  - **Detecting activity and movement based on SDK events in real time**
    - **Accurate activities and locations required for visit detection, ETA processing, Insights, ...**
  - **Mock location detection to protect against driver fraudulent activity**
    - **Developer at a leading flex work company: “wow - great that HyperTrack is able to tell us that, thanks!”**

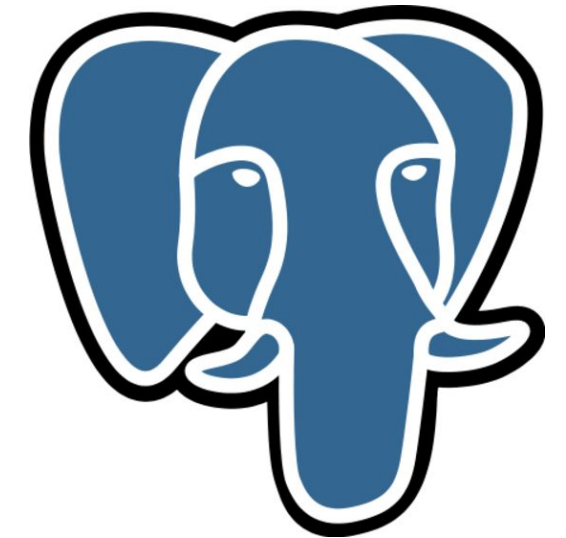
Error Code	Description
OS1	Location services disabled globally in the phone. <b>Android</b> <i>Turn location services on in Settings &gt; Location &gt; Use location</i> <b>iOS</b> <i>Turn location services on in Settings &gt; Privacy &gt; Location Services</i>

# Data for Logistics

- **What datastores are used for what cases?**
  - **NoSQL store for real time updates**
    - Great for some use cases, not that great for others
  - **Postgres for aggregate data**
    - Dashboard and API data
    - `Select date_trunc('day', created_at) from hypertrack.orders;!`
  - **DW (columnar store) for raw data and later analysis**
    - BI team
    - Data science team
    - Source data for aggregations
  - **Elasticsearch for search/filtering of your fleet data and history**
- **PostGIS to query geospatial data on scale**
- **Reliable jobs to aggregate**
  - To trust the data, jobs needs to be transparent and reproducible
  - Apache Airflow for job scheduling
- **Openstreetmap / OSRM / Nominatim**



Amazon Athena



Apache  
**Airflow**



Amazon DynamoDB

# Security At HyperTrack

- SDK
  - Unique, per account based, key initiated in the SDKs
- Cloud
  - Multi-tenant data stores isolated for each customer account
  - IAM roles and policies implemented across the entire cloud platform components
- APIs
  - OAuth2 for REST APIs and embeddable dashboards
- Integrations
  - Each webhook payload is uniquely authenticated
- Location data is PII (personally identifiable information!)
  - Storage encrypted (data at rest)
  - Data Encrypted during transfers
  - Limit access to data via strong AWS controls and audit logs
  - Support for deleting data
  - Storage of raw data limited up to 90 days
- Credentials
  - Passed security checks and validation by Intuit, Salesforce, and AWS FTR (Foundational Technical Review)
  - Passed select customers' VAPT checks



# Scale at HyperTrack

- SDK event stream
  - Billions of events per month sent from drivers' devices to HyperTrack platform
- AWS lambdas for compute
  - Hundreds of millions of daily invocations
- API calls
  - Tens of millions of daily API calls
- Hundreds of thousands of orders/day
- TBs of data storage in different data storages
  - Data retention limited to maximum a three month period

# Production Lifecycle: From conception to release

- No infra setup is done manually, everything is automated
- This drives speed to production (quality-speed flywheel)
- IaC
  - Terraform for shared, stable setup like networking, VPC, data warehouses
  - Serverless Framework used for resource definition, management, and business logic with AWS Lambda
  - Lots of yml files that define our infra (allows us to carefully review changes and manage changes)
  - Allows us to provision in new regions quickly to support redundancy and quick failovers
- CI/CD
  - Fully automated deployment pipelines
  - Unit, functional, and front-end tests are executed in each individual development environment, staging, and in production post deployment
  - Live production deployments take place dozens of times each day of the week

The screenshot displays a CI/CD pipeline dashboard for a platform identified as 'platform 37133'. At the top, there is a status indicator 'Success' with a green checkmark and a dropdown menu set to 'all'. Below this, a list of jobs is shown under the heading 'Jobs'. Each job entry consists of a green checkmark icon, the job name, and a unique ID. The jobs listed are:

- deploy-shared-open-search 210591
- deploy-shared-efs 210597
- deploy-shared-container 210590
- deploy-shared 210594
- deploy-rds-cluster 210596
- deploy-push-notification-service 210592
- deploy-movement-cleansing-layer 210595
- deploy-common-lib-requirements-layer 210593
- deploy-device-simulation 210604
- deploy-devices 210607
- deploy-events\_v2 210609
- deploy-public-api 210612
- deploy-summary-service 210599
- deploy-centralized-logging 210598
- deploy-core-pipeline 210613
- deploy-device-settings 210606
- deploy-device\_info 210620
- deploy-email\_dispatcher 210610
- deploy-geofence-service 210616
- deploy-gql\_public\_api 210623
- deploy-history\_views 210624
- deploy-invite\_user 210614
- deploy-iq\_score 210621
- deploy-jobs 210618
- deploy-nearby 210615
- deploy-order\_iq 210602
- deploy-orders 210603
- deploy-scorecard 210622
- deploy-trips 210619
- deploy-users 210617
- deploy-webhooks 210608
- deploy-billing 210601
- deploy-authorizers 210600
- deploy-appsync 210605
- deploy-account 210611
- frontend-tests 210627
- func-tests 210628
- summary-service-func-tests 210626

# Team expertise and experience

- Distributed across North America, India, and Europe
- Mobile engineering
  - Decades of cumulative experience in mobile platform development on iOS and Android with expertise in background service based location tracking, efficient battery management, and functional programming
- Cloud infrastructure
  - Multiple decades of cumulative production experience in building scalable, resilient, and performant cloud services ranging from enterprise SaaS, data pipelines to large scale gaming servers

## Customer quote:

- Director of Engineering at a Benchmark Capital funded company - one of the largest gig economy companies ) : ***“your engineers operate as an extension of our team”***

## Deeply differentiated customer support:

- Deeply differentiated support from the engineering team to get customers integrated with HyperTrack platform; It became possible because the platform designed from the ground up to support logistics use cases, easier to understand and integrate than solutions from Google and AWS.

# What's in store for our next release

- Based on Rust programming language
  - Small binary size and battery efficiency
- Battery efficiency improvements
  - Instrumentation and observability
- Ease and speed of SDK integration
  - Simple integration APIs
  - Proactively notify developers of integration issues
  - Significant binary size reduction
- Next generation core runtime
- More features
  - Improved tracking logic and policy support
  - Whitelisting
  - Motion permissions are optional for availability tracking
  - Add imprecise permissions outage in Android SDK

## Thank you for attending!

HyperTrack helps you build apps that feel like the future in the world that is going on demand and making it mainstream.

HyperTrack engineering works very hard so that your logistics technology can do everything to support your logistics automation use cases while you can focus on your core business needs.

“HyperTrack is a really intelligent location based platform. It was really easy for us to set up and get going in a day. We have seen improved customer satisfaction.” - Pragya Jaiswal CTO

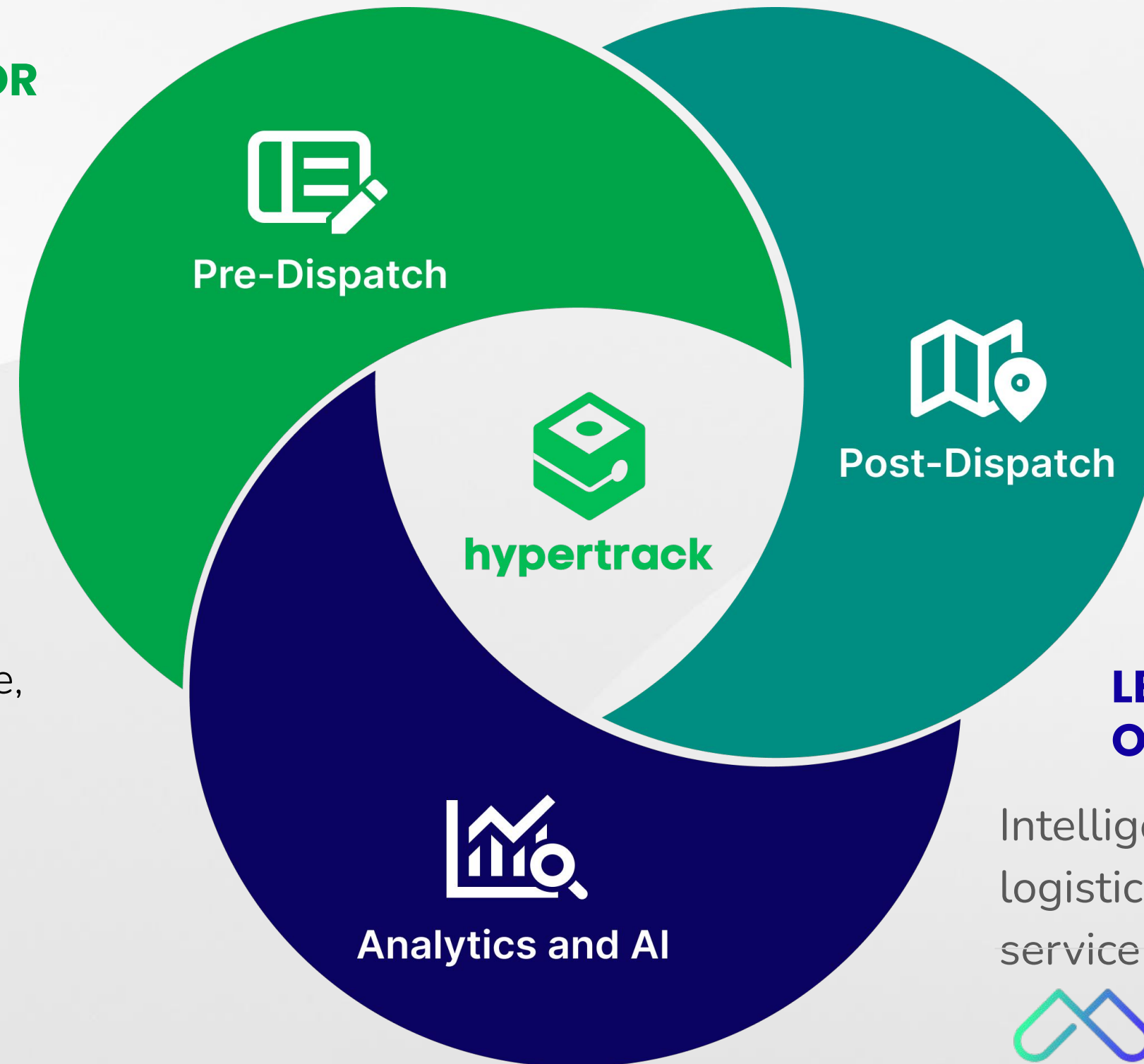
# Plan, Assign and Track Orders for Last Mile Logistics

## PLAN AND ASSIGN ORDERS FOR EFFICIENT OPERATIONS

Build custom business logic & workflows for on-time delivery with higher capacity utilization and predictable per order cost

### **JOBBOX**

Assign and track nearby, eligible, and available home service professionals improving the job completion rate



## TRACK ORDERS FOR ON TIME FULFILLMENT WITH LOWEST COST

Live location tracking with driver and consumer apps, ops dashboards for continuous real-time visibility



Delight customers with live tracking of liquor delivery orders

## LEARN AND IMPROVE END-TO-END ORDER FULFILLMENT LIFECYCLE

Intelligence built on ground truth of your logistics operations including addresses, service and route times



Deliver streamlined order fulfillment for independent retailers across Europe

# Last Mile Logistics with HyperTrack



# HyperTrack is Trusted by Logistics Tech Builders



*“Near real time visibility into the activities being done by the delivery executives had an immediate impact on the business. Distance capture is a problem with a lot of nuances that we worked together with HyperTrack to continuously improve and eventually lead to a real impact on the business as well.”*



**Siddardha Garimella**  
**Engineering Manager**

**4B+**

Location Events Processed

**7M+**

Orders Tracked

**4M+**

Geofence Visits

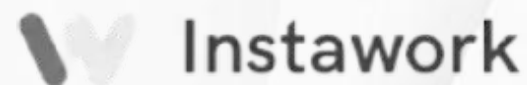
**3K+**

Logistics App Built

Last mile delivery



Gig work



Field service



# Delivering Last Mile Logistics Technology - 3 Options

1st Generation -  
Do-it-yourself from scratch  
with mobile, cloud, and maps

2nd Generation -  
Last Mile Logistics App Suite  
(Locus, OnFleet, ShipSy)

3rd generation -  
Last Mile Logistics API Platform  
(HyperTrack)

	1st Generation - Do-it-yourself from scratch with mobile, cloud, and maps	2nd Generation - Last Mile Logistics App Suite (Locus, OnFleet, ShipSy)	3rd generation - Last Mile Logistics API Platform (HyperTrack)
<b>Implementation Timeframe</b>	❌ 9-12 months	⚠️ 3 – 6 months	✅ 15-30 days
<b>Custom Business Logic</b>	✅ Supported	❌ Not supported	✅ Supported
<b>Custom Workflows</b>	✅ Supported	❌ Not supported	✅ Supported
<b>Battery Consumption</b>	❌ High	⚠️ High-Medium	✅ Low
<b>Webhooks for Location Data &amp; Outages</b>	✅ Supported	❌ Not Supported	✅ Supported
<b>Tracking Accuracy</b>	❌ Poor	❌ Poor	✅ High
<b>Predictable Order Cost</b>	❌ No	✅ Yes	✅ Yes
<b>Pre-built Analytics - Order, Route, Driver</b>	❌ No	❌ No	✅ Yes

# Case study

## Spiritzone delights customers with live tracking of liquor delivery orders



**SPIRITZONE**

Last mile delivery Grocery



"HyperTrack is a really intelligent location based platform. It was really easy for us to set up and get going in a day. We have seen improved customer satisfaction."

**Pragya Jaiswal**  
CTO

[Read the Case Study](#)

### Use case

Provide consumers with accurate live tracking of their liquor delivery orders

### Buyer

**CTO**

### Trigger

Customer unable to see the live location of their orders - repeated calls to customer service resulting in poor experience

### Business Need

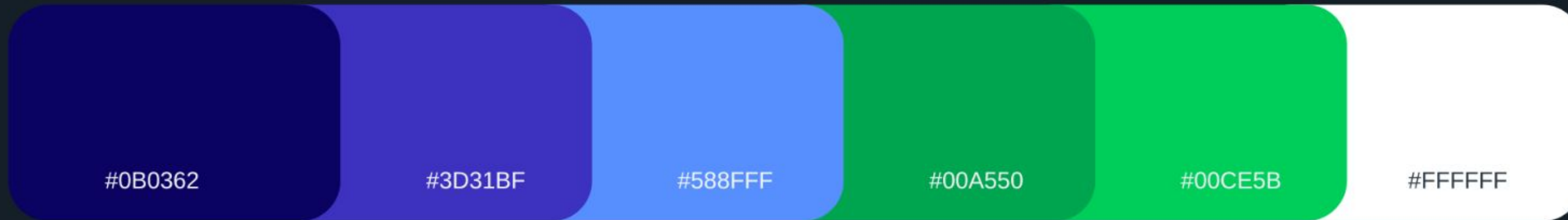
**Deliver** accurate location tracking of customer orders  
**Eliminate** the need to call customer service for order tracking

### Solution

**Live accurate location tracking** of delivery agents for customers  
**Service time measurement** for liquor pick-up from stores by delivery agents  
**Real-time visibility** of delivery agents near the liquor stores for pick-up and on-time delivery  
**Implement incentives and penalties** based on data to facilitate on-time delivery for customer orders

# LOGISTICS + TECH SUMMIT BRAND ASSETS

## COLOR PALETTE



## FONTS IN USE

### Code Pro Bold LC Regular

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz  
1234567890 !@#\$%^&\*()

### Code Pro

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz  
1234567890 !@#\$%^&\*()

### Montserrat Classic

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz  
1234567890 !@#\$%^&\*()

### Inter

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz  
1234567890 !@#\$%^&\*()

### Montserrat Extra Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz  
1234567890 !@#\$%^&\*()