

HERE Platform for Business

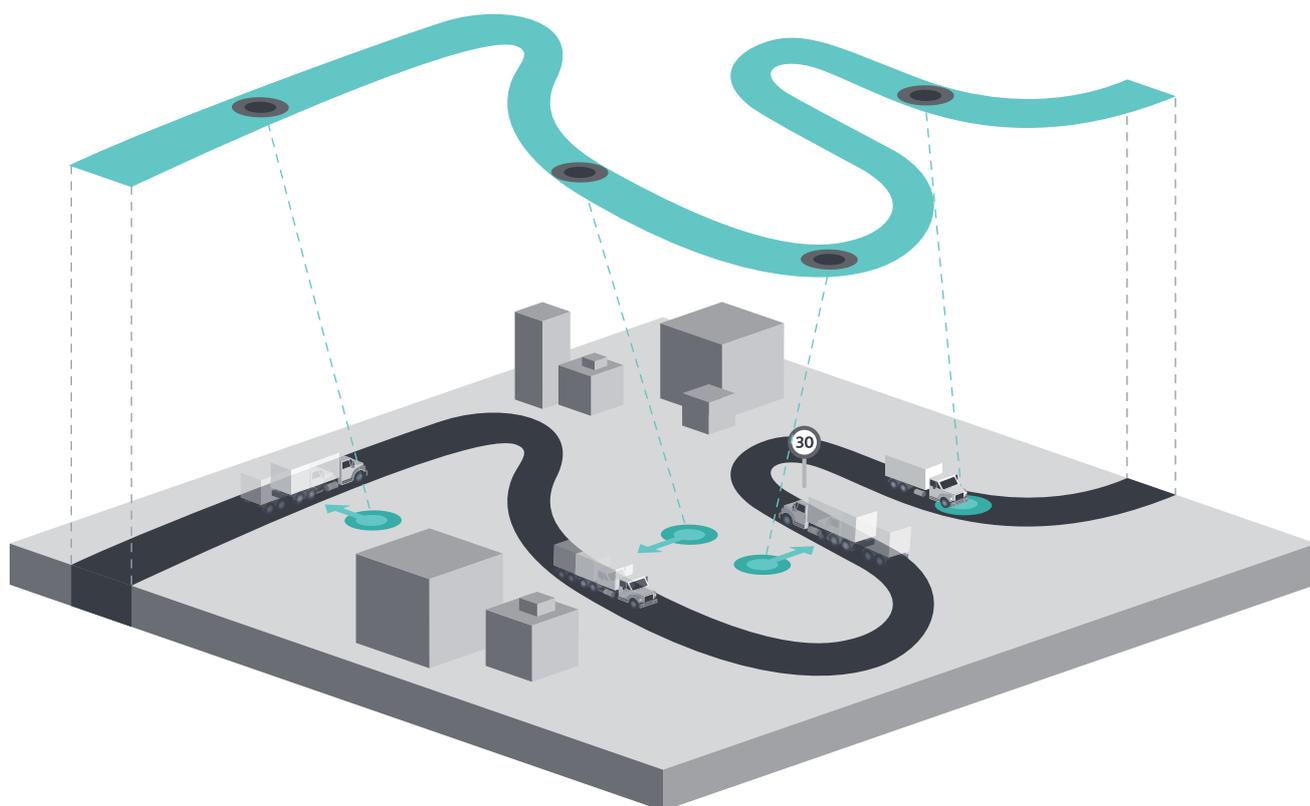
# Route Match Extension (RME)

Match your GPS traces to the HERE road network and see your vehicles' whereabouts

Accurately built routes with given coordinates

Algorithms considering GPS inaccuracies and road restrictions

Easy-to-use services to support various implementations



The **HERE Route Match Extension** gives access to a robust set of tools which make exploiting massive GPS trace data not just possible but also accurate. The problem of determining the path of a user or vehicle on a map from a sequence of GPS positions often sparse and noisy can be a difficult task. RME delivers an improved server-side map-matching algorithm which takes into account typical inaccuracies with GPS traces as well as legal use of the public road network to deliver the most probable and accurate routes.

RME provides a robust solution for solving the map-matching problem when exploiting large volumes of GPS trace data. At the core of the service is HERE's collection of accurate and precise road segments which are the building blocks of all matched paths. RME returns the most probable routes matched to the HERE road network and supports post-analysis usage when batch processing of GPS coordinates is needed, even at defined time intervals.

Since it leverages complex HERE data sets, RME also provides road geometry and link road information, allowing applications to get more intelligent on each vehicle-matched route. It leverages a robust algorithm for map matching which also takes into account challenging conditions such as uncertain or incomplete data coming from GPS noise, which is particularly severe in urban areas due to signals obstructed by or reflected off buildings.

## Input parameters

- GPS traces with coordinates in WGS84 format
- GPX, NMEA, KML or CSV in a POST request, plain or zipped
- GPS deviations < 30 meters
- Point density of 1 per second (max 30 seconds)
- Consecutive set of GPS coordinates

## Output response

- Route path w/ link ID + direction of movement per link + geometry + link length
- Collected GPS coordinates + matched link ID on route + matched coordinate

## Key features

- Considers legal use of public road network for cars and trucks
- Takes into account typical inaccuracies of GPS traces

### Supports post-analysis usage

- Batch processing
- Processing at select time intervals

Only the **HERE Platform for Business** delivers powerful, flexible and global location cloud services built on enterprise-grade map data. Discover how HERE can help your business run smarter, faster and more efficiently. Today, leading enterprise organizations around the world use the **HERE Platform** in hundreds of customer applications and support core business processes such as fleet management, telematics, geomarketing, business intelligence, field force optimization and more.