HERE Location Services

Routing

Ensuring safety and compliance with always-accurate routes

The HERE Location Services give access to accurate routing functionalities based on enterprise-grade data that reflects real-world scenarios. This means reliably reaching destinations around the world, getting accurate ETAs taking into account real-time congestion and incidents, getting information on the areas of reach and customizing routes to fit specific business operations can all be done through HERE’s Routing services.

How the service works

HERE Routing calculates routes and provides maneuver instructions in 108 languages for different transport modes including coverage for cars, walking, trucks, bicycles and two-wheelers. Its routing algorithm takes into account a rich set of HERE map data attributes and dynamically updated information, such as real-time traffic. In addition, it gives access to a variety of routing options while considering avoidances, such as toll roads, motorways, ferries, stairs or park paths, as well as selections for fastest or shortest route. And since traffic information is one of the most important elements to consider when calculating a route, the service considers both real-time and historical traffic.

With truck routing, HERE’s rich truck data sets are intelligently integrated into the routing algorithm to enable safe, legal routes based on truck size, weight, hazardous freight restrictions and more. It provides optimized routes for trucks by including truck-specific attributes in the calculation of a route. Among the most specialized capabilities it provides for vehicle efficiency and optimization are matrix and isoline routing. An isoline route can provide the area of reach based on requirements for time and distance, fuel or energy consumption. Routing matrices can be calculated while taking into account thousands of locations based on time and distance values, as well as transportation modes (car or truck) and options (fastest or shortest).

Want to talk? We do, too. Get in touch here.
Route options
→ Fastest/shortest car, pedestrian, truck, bicycle and two-wheeler modes
→ Avoid road types (e.g. highways, toll roads, unpaved roads, bridges, tunnels and more)
→ Avoid areas (e.g. environmental zone, vignettes, congestion zones, custom bounding boxes)
→ Pedestrian options (avoid stairs and parks)
→ Support for drag & drop interfaces
→ Itinerary warnings (e.g. country/state border crossings, toll road/booths, seasonal closures, restricted turns)
→ Full time-awareness considering (e.g. seasonal closures, reversible lanes, time-restricted maneuvers, etc.)
→ Stopovers and via points along a route
→ HOV routing (US only)

Matrix routing
→ Support for several routing options: pedestrian, car (shortest/fastest) and truck
→ Considers real-time and historical traffic
→ Multi-route request
→ Matrix size: from 1x1 to 10,000x10,000

EV routing
→ Consumption model calculation considering speed, ascent, descent, time penalty, auxiliary consumption, acceleration, deceleration
→ Extended consumption model calculation considering traffic and speed information
→ Range map for reachable area based on current charge
→ Multi-stop routing including charging stations

Isoline routing
→ Support for several routing options: pedestrian, car (shortest/fastest) and truck
→ Area of reach based on time and distance, or consumption model
→ Considers real-time and historical traffic

Two-wheeler routing
→ Support for maneuver restrictions
→ Two-wheeler optimized ETA calculations
→ Avoid environmental zones

Traffic-enabled routing
→ Traffic-aware routes based on real-time and/or historical traffic data
→ Time-aware routes based on time of day, time of the year (seasonal roads, lane configuration changes, etc.)
→ Incident-aware routes based on traffic accidents, construction, etc.

Route directions
→ Instructions in over 108 languages
→ Maneuver descriptions (structured, descriptive)
→ Distance and driving time to destination
→ Dynamic ETA based on multiple static and/or dynamic data
→ Map reference and side of street

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