

NEMU: Nordic Ecosystem Mobility Unlimited
Seamless, integrated and people-centric mobility in the Nordics
and beyond

Powered by open mobility data – EU regulation compliant

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# Cross border travel case: From Arlanda, (Stockholm) airport to Gardermoen (Oslo) airport

I need to attend a physical meeting at a hotel at Oslo Airport within walking distance from airport

Arrival **October 15** in the evening in time for a dinner with colleagues **19.30** 

- 1. Air travel: Departure Arlanda, Arrival Gardermoen, cost of ticket with one carry on luggage and one personal item.
- 2. Car travel: Km? Duration. When to start trip?
- 3. Train travel: travel plan and best price incl seat reservation where possible (adult standard)







# Nordic Ecosystem for Mobility Unlimited NEMU Project Consortium









Budget 5000 TNOK (431 TEUR) 50%

Project start: June 2024

Project duration: 36 months





# Vision: MaaS Roaming 2030

#### Roam like home for MaaS

Plan, book and pay for mobility services for any journey in and between the Nordic countries – in one go - using your "home" Mobility services app - your language – your currency

We encourage other countries and actors to join and take advantage of open mobility data as mandated







# Ground and sea mobility borderless in one go

MaaS emerging on National level in the Nordics

Next step: **Roam like home** on journeys outside direct reach of each MaaS agent.

Use your favourite app – your language – your currency anywhere in the Nordics

Scalable to European level.....







# Open Trip Planner for the Nordics

Travel plan suggestions including pricing between any two addresses in the Nordics – in one go
Consolidates NeTEx and SIRI open mobility data from National access points in Norway, Sweden,
Denmark and Finland

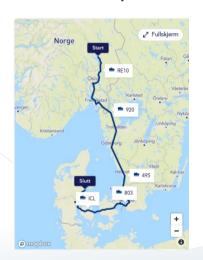
An open source service for Mobility as a service actors in the Nordics powered by **OpenTripPlanner** 



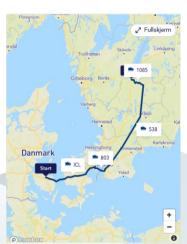




# Cross Border travel plans using open mobility data and NEMU Open Trip Planner





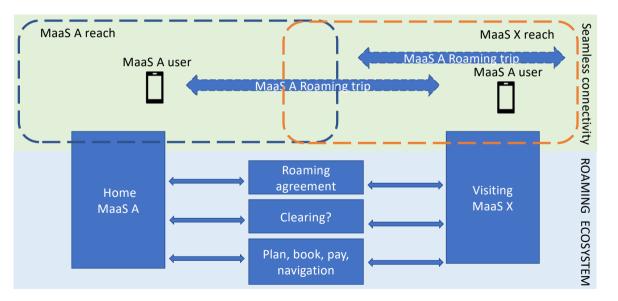






## MaaS roaming





### Oslo – Copenhagen in one go

Discover – plan – book – pay – validate – after trip services

MaaS service actor: Entur

NAP services used: Norwegian, Swedish and Danish

Roam like home: Primary language: Norwegian. Currency: NOK

Entur right to sell on behalf from Sweden and Denmark

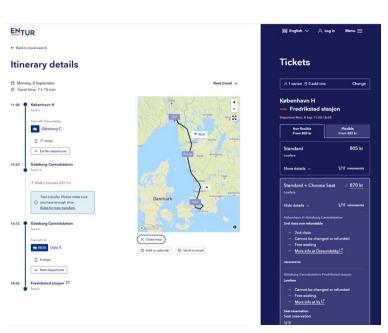
Acceptance and validation of Entur issued multimodal ticket for the corridor: VY, SJ, Öresundstoget, DOT, Skånetrafiken, Ruter







## North South Corridor in operation Q2 2025









## Helsinki – Oslo in one go

Discover – plan – book – pay – validate – after trip services

MaaS service actor: Matkahuolto

NAP services used: Norwegian, Swedish and Finnish

Roam like home: Primary language: Finnish. Currency: EUR

Matkahuolto right to sell on behalf from Sweden and Norway + international ferries

Acceptance and validation of Matkahuolto issued multimodal ticket for the corridor: VY, SJ, Öresundstoget, Ruter, SL, VR, HSL others?







# Including cross border Ferries

#### Service path for travel chain user experience



- · How do the customers find the option to book the whole chain from Trips and Tickets?
- · The cabin reservation is obligatory!
- · Onboard services will not be included because of the Act on Travel Service Combinations . Will this discourage customers to book the ferry as part of the travel chain?
- · How do we ensure sufficient transfer time at the terminal? Configuration of the OTP?



Matkahuolto





# How the Baltics could join in 4 easy steps

- 1. National stop register and static and dynamic mobility data in NeTEx / SIRI on national level Use Nordic profile
- 2. Use open source tools to create MaaS services (copy Entur approach)
- 3. Nordic (joint) OpenTripplanner sources data from Participating NAPs
- 4. Make roaming agreements with participating MaaS agents







### For more

Follow the NEMU project here: NEMU - ITS Nordic Plus



For more on the project:

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