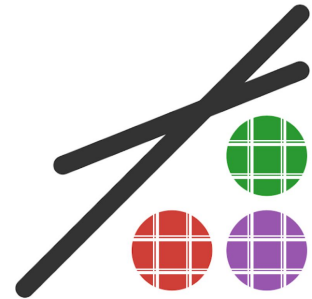




Optimize Your Fleet with Odoo and JuMP

Benoît Legat

JuMP-dev 2026



Our Solution

odoo

+



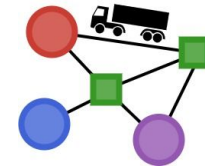
Fleet Routing Optimization Driver Location



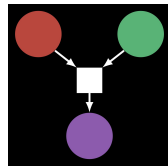
JUMP

+

MathOptVRP



hexaly



JuLS

Vroom
Vehicle Routing Open-source Optimization Machine

atoptima
OPTIMIZATION INTELLIGENCE

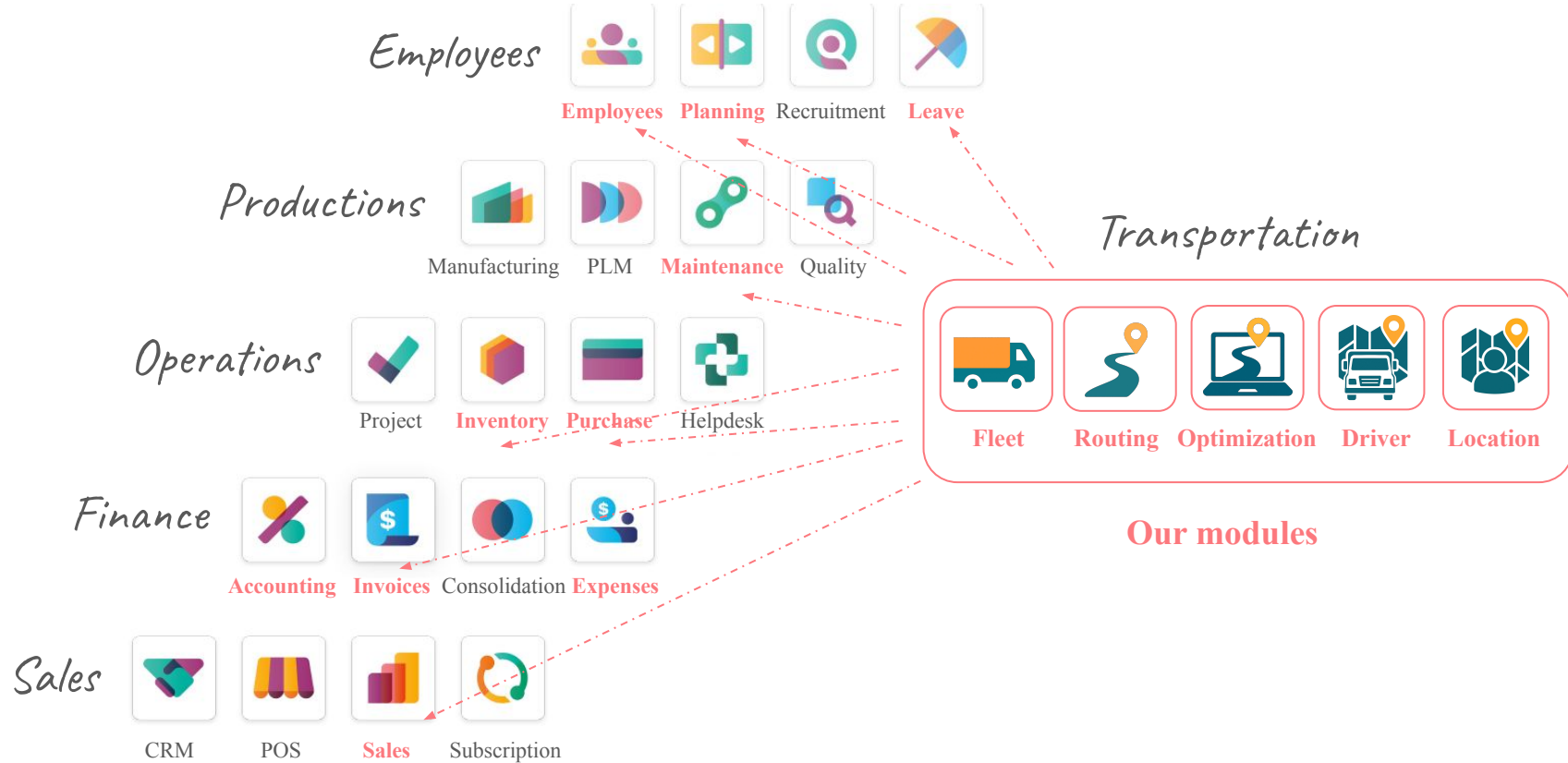
GUROBI
OPTIMIZATION



HIGHS

OR-Tools

odoo extension



Administrator & Driver applications



Fleet



Routing



Optimization



Driver



Location

Transport Routing

Plans P00003 - 2025-12-...

Actual Bulk loading/unloading...

Return to Planned Cancel

Reference P00003

MAIN INFORMATION

Planned Dates Dec 17

PROGRESS

State? Ongoing

Progress 11%

Routes Loading/Unloading

Reference Planned Dates

RO0007 Dec 17 → Dec 17

RO0008 Dec 17 → Dec 17

RO0009 Dec 17 → Dec 17

Add a line

Open: Route

Go to Done Return to Planned Cancel Unassign Operations Driver Application Preview Ongoing

EXPECTATION ACTUAL

Start? Dec 17, 6:00 AM Start? Dec 17, 6:15 AM

End? Dec 17, 5:45 PM End?

Duration? 11:75 Hours

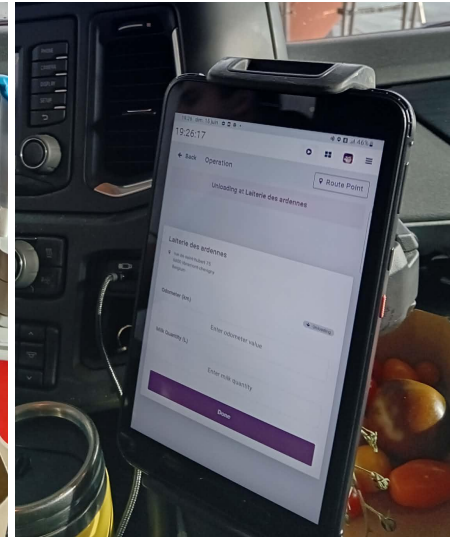
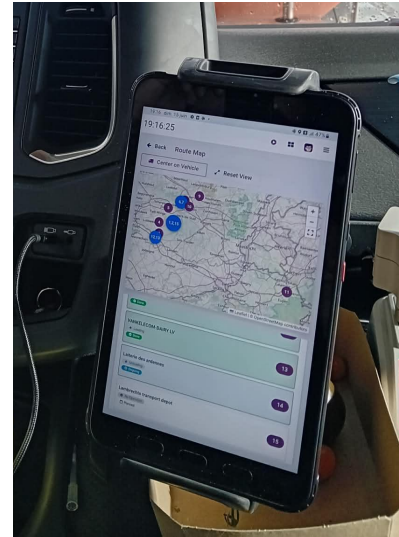
Route Points Loading/Unloading Other Info Tracking

Reference	Date	Location	Operation Tags	State	Loading Act...	Unloading A...	Bulk Unit
RP000079	Dec 17	D Depot		Done	0.00	0.00 kg	
RP000080	Dec 17	B Boris Noiret	Load	Done	3,688.64	0.00 kg	
RP000081	Dec 17	G Gwen Raskin	Load	Done	2,578.75	0.00 kg	
RP000082	Dec 17	D Dorian Hermans	Load	Done	1,650.40	0.00 kg	
RP000083	Dec 17	K Kara Jacobs	Load	Ongoing	0.00	0.00 kg	
RP000084	Dec 17	M Mira Armond	Load	Planned	0.00	0.00 kg	
RP000085	Dec 17	L Laiterie des ardennes LDA	Unload	Planned	0.00	0.00 kg	
RP000086	Dec 17	A Adam Umans	Load	Planned	0.00	0.00 kg	

Save Discard

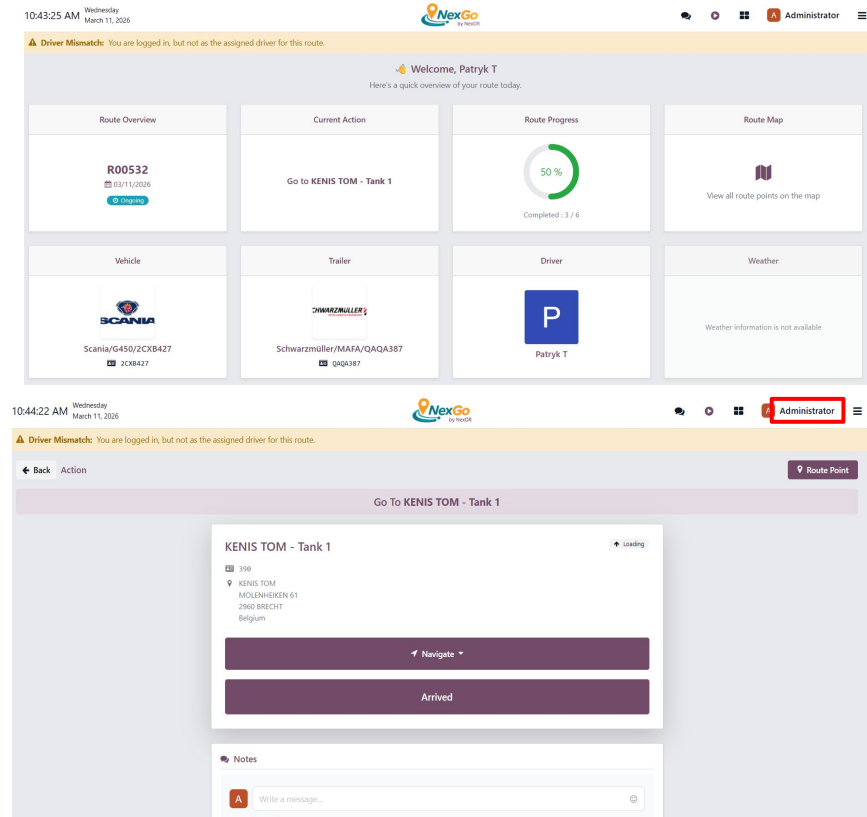
NexOR Optimization

1 / 1 < >



Driver application

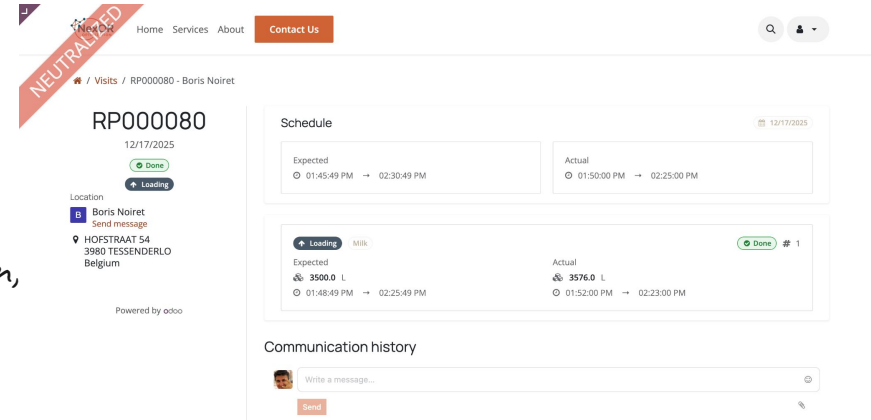
- *Personalized driver accounts*
Login, payslips, working hours.
- *Real-time scheduling & notifications*
- *Flexible route management*
Drag-and-drop rerouting.
- *Simple, intuitive interface*
- *Multilingual support*
- *Offline Resilience:*
Keeps working without network.
- *Live GPS tracking*



Location application



- *Visit history overview*
See past visits with dates, times, services.
- *Automatic notifications & Next visit visibility:*
Alerts when the truck is approaching, delayed.
- *Self-service updates:*
Locations can update basic information (GPS position, contact details, access instructions), opening hours.
- *Quality or anomaly reporting from Locations*
- *Document sharing:*
Certificates, location documents, ...



The screenshot displays the user interface for a location application. At the top, there is a navigation bar with links for Home, Services, About, and Contact Us. A prominent red diagonal banner on the left side reads "NEUTRALIZED". The main content area shows details for a visit with ID "RP000080" on "12/17/2025". The status is "Loading", with "Done" and "Loading" buttons. The location is identified as "Boris Noiret" at "HOFSTRAAT 54, 3980 TESSENDERLO, Belgium". A "Schedule" section compares expected and actual times for two visits. The first visit has an expected time of 01:45:49 PM to 02:30:49 PM and an actual time of 01:50:00 PM to 02:25:00 PM. The second visit has an expected time of 01:48:49 PM to 02:25:49 PM and an actual time of 01:52:00 PM to 02:23:00 PM. A "Communication history" section at the bottom includes a text input field and a "Send" button.

Expected	Actual
01:45:49 PM → 02:30:49 PM	01:50:00 PM → 02:25:00 PM
01:48:49 PM → 02:25:49 PM	01:52:00 PM → 02:23:00 PM



JUMP extension : CVRP example

```


1  using JuMP
2  import MathOptVRP, Hexaly
3  model = Model(Hexaly.Optimizer)
4  @variable(
5      model,
6      nodes[1:n_customers, 1:n_trucks] in
7      MathOptVRP.Partition(n_customers, n_trucks),
8  )
9  @constraint(
10     model,
11     [i in 1:n_trucks],
12     nodes[:, i] in MathOptVRP.Capacity(nodes_Δ, trucks_capacity[i]),
13 )
14 @objective(
15     model,
16     Min,
17     sum(
18         MathOptVRP.op_sum_distances(
19             D,
20             vcat(depot, nodes[:, i], depot)
21         ) for i in 1:n_trucks
22     ),
23 )

```

Zero-padding as route length < n_customers

Bridged differently depending on solver

JuMP.NonlinearOperator

Needs  JUMP PR#3451

A decorative horizontal bar with a teal segment on the left and an orange segment on the right.

Any question ?

- Companies **developing solvers** wanting to integrate with a Fleet management & optimization software integrated in an ERP
- Companies looking for **help to manage their fleet** with a solution that **do not tie them** to a particular solver
- More info at <https://www.nexoropt.com/>
- Contact us at contact@nexoropt.com

