

QUARTERLY INNOVATION REPORT

ROUTALIS

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Document information

GENERAL INFORMATION

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1. Electric Van

1.1. Description

Routalis approached the Renault concessionaire to take advantage of their electric van loan offer for testing.

The Renault concessionaire has 2 versions of van:

- 3,5T limited to 110 km/h
- 4 T limited to 90 km/h (considered HGV)

We were able to have the first version on loan for 3 days!



During this 3 days we carried out autonomy tests in real situations (we put a load of one ton in the van) and tests on the response times by taking the most unfavorable scenarios.

A report on the results is being prepared.



We were able to compare the measurements of the van (height of the floor that contains the batteries) with a combustion van. It was satisfactory to respond to the marking activities.

1.2. Cost

Renault electric van purchase price : about 70 k€ HT - guaranteed two years

Guaranteed battery for 160,000 km or 8 years.

1.3. Interest

decarbonization

1.4. Perspective

2025: installation of the first charging stations in the operating center

2026: implementation of an electric van in the organisation of Routalis' viability activities

2. Opening the portal of the center via mobile phone

2.1. Description

We have added a fourth option to open the Operations Center portal: **the mobile phone.**

The first 3 possibilities are:

- a badge linked to an access control which requires it to be swiped in front of the intercom to open the gate,
- a remote control, which Routalis no longer orders for new employees because it is expensive and requires changing the batteries
- the operating radio: only operating vehicles are equipped with it



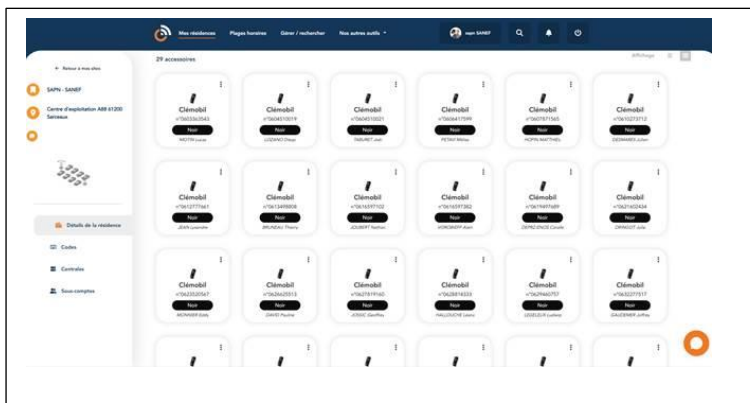
The new system consisted of installing an intrafone HF receiver: it is an external box integrated into our existing system that performs all the functionalities we have with a remote control or radio.

This all-inclusive pack (without commitment, without subscription) is valid for 10 years. It allows you to remotely manage access to the car park in real time (or even schedule entry times).



There is supervision to create, modify or delete with reference to the mobile number.

Phone Programming Site :



2.2. Cost

650 € HT

paid by concessionaire

2.3. Interest

Profitable for all employees

No more badge or remote control purchases

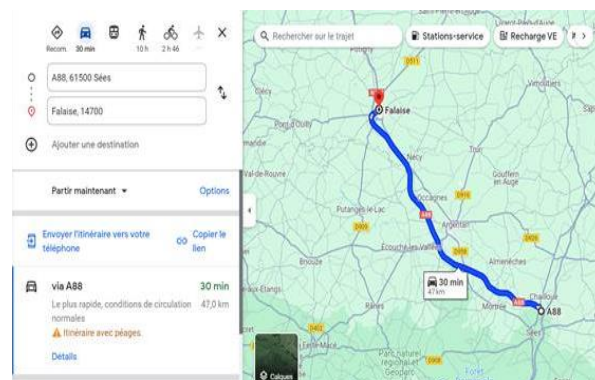
Possibility of registering subcontractors for a period of work (by limiting the schedules)

3. Waze

3.1. Description

Test Waze on the operating PC on 2 levels:
the reporting of reports by users and the
declaration of events by the OPCE.

The objective of the test is to verify the
reliability of the reports reported by Waze.
To do this, Routalis has activated LINCEO
(via a SaaS offer) to access Waze application.



Every month, since December 2024, a Controle Room operator extracts all the
reports made by users on the A88.

It analyses the reports to check whether they correspond to an event that has been
processed by the Control Room
thus it obtains a reliability rate

we added to the statistics the triggering times to know if it was the Waze application
or the control room that got the information of the event first

Mois	Nb de signalements Waze (Sans brouillard)	Nb de signalements Waze qui sont associées à une fiche PCE	Nb de signalements Waze qui sont associées à une fiche PCE en doublon	Nb de fiches PCE liées à un signalement Waze	Signalement waze lié à événement PCE	Signalement avant fiche PCE	Signalement après fiche PCE	Signalement avant PCE
décembre 2024	526	80	40	40	15,2%	29	11	72,5%
Janvier	368	43	16	27	11,7%	21	6	77,8%
Février	371	30	9	21	8,1%	15	6	71,4%
Mars				0	#DIV/0!			#DIV/0!
Avril				0	#DIV/0!			#DIV/0!
Mai				0	#DIV/0!			#DIV/0!
Juin				0	#DIV/0!			#DIV/0!
Juillet				0	#DIV/0!			#DIV/0!
Août				0	#DIV/0!			#DIV/0!
Septembre				0	#DIV/0!			#DIV/0!
Octobre				0	#DIV/0!			#DIV/0!
Novembre				0	#DIV/0!			#DIV/0!
Décembre				0	#DIV/0!			#DIV/0!
2025	739	73	25	48	9,9%	36	12	75,0%

3.2. Cost

0 € (We benefit to LINCEO licence)

3.3. Interest

Participate in measuring the reliability of the Waze application for Routalis and for the
EGIS group

3.4. Perspective

After a few months of statistics, we will be able to decide whether to use Waze to trigger our interventions

4. Shoe wash

4.1. Description

Agents carrying out activities outside return to the centre with their shoes full of soil: a doormat is not enough to remove wet soil... and during the winter period the doormats are difficult to keep clean 😅

Routalis bought a boot washer



Works without electricity.

3 irrigated brushes (1 sole brush, 2 side brushes).

The water supply is directed to the side brushes to promote the sole brush

To control water consumption, a tap has been set up with a valve for opening/closing

4.2. Cost

280 € HT

4.3. Interest

Maintenance of the Centre's premises

offer employees the opportunity to clean their boots properly

5. New Equipment Viability

5.1. Description

When the agents are carrying out the maintenance of the fences, there are certain places where they cannot access with the van

They have to walk several hundred meters loaded with their equipment: brush cutters, petrol cans...

Routalis has bought a tipper to hitch to the micro-tractor for transporting the equipment



5.2. Cost

450 € HT

5.3. Interest

Improvement of working conditions

No more charging port