

ESK[®] M4

Connected fleet management
All brands
All mobile and stationary equipment



SUMMARY

About us

Our certifications

Features

Dashboard

Employee management

Materials management

Shock detection

Material commitment

Hour meter

Equipment geolocation

Géofence

Maintenance/Service

Check-Box

The benefits

In response to the increasingly recurrent safety issues in industrial and production environments, EC2E offers a wide choice of advanced solutions to secure the use of your rolling stock, your production tools (such as machine tools), and more generally to secure your warehouses where human/machine coactivity is a daily challenge.

For over 40 years, EC2E has been designing and developing connected, scalable electronic systems. The entire production process is mastered in order to adapt to your specific needs, because when it comes to security, there's no such thing as a one-size-fits-all solution. The answer lies in tailor-made solutions.

At EC2E, the skills and personalities of our staff have always made the difference. While innovation and quality are part of our DNA, listening, service and sharing are the values that guide us every day.

Our added value?

The only French, multi-brand solutions on the market !





ESK® M4 is a "full Web" access control solution that lets you monitor and manage the global activity of your operators and the use of your equipment at the click of a button.



You also receive detailed reports by e-mail on the indicators you select, and are alerted in real time to any faults that may have occurred.



Multi-brand and multi-voltage, our solution is designed for all sectors of activity (airport, automotive, food processing, industry, etc.).



FEATURES

<p style="text-align: center;">Access control</p>	<ul style="list-style-type: none"> • Access to equipment restricted to authorized personnel only • Start-up by multi-technology badge, RFID key or keypad • Management of CACES, driving authorizations and medical examinations • Novice driver' function (downgraded mode according to selected profile) • Creation of specific access
<p style="text-align: center;">Shock detection</p>	<ul style="list-style-type: none"> • Remote parameter setting via the management platform • E-mail alert in the event of major equipment damage • Helps make operators more accountable and control costs associated with equipment misuse • Reduces costs related to breakage (equipment, infrastructure) and optimizes machine uptime • GPS geolocation of impacts : -Identifies high-risk areas and any need for operator training
<p style="text-align: center;">GPS tracking</p>	<ul style="list-style-type: none"> • Shock detection on equipment • Geofencing: alerts on leaving/entering predefined zones • Daily truck route (loaded or empty)
<p style="text-align: center;">CHECKBOX (Available as stand-alone version or optional M4)</p>	<ul style="list-style-type: none"> • Replaces 'paper' logbook • History of answers entered • E-mail alert if fault recorded • Customizable questions • Random order of question display
<p style="text-align: center;">Hour meter</p>	<ul style="list-style-type: none"> • CANBUS time meter feedback or meter input • Enables you to monitor operating hours and adapt your rental contracts
<p style="text-align: center;">Sending instant messages</p>	<ul style="list-style-type: none"> • Allows messages to be sent to the cab display for urgent missions
<p style="text-align: center;">Maintenance and intervention management</p>	<ul style="list-style-type: none"> • Allows you to manage maintenance based on a value or time and/or date



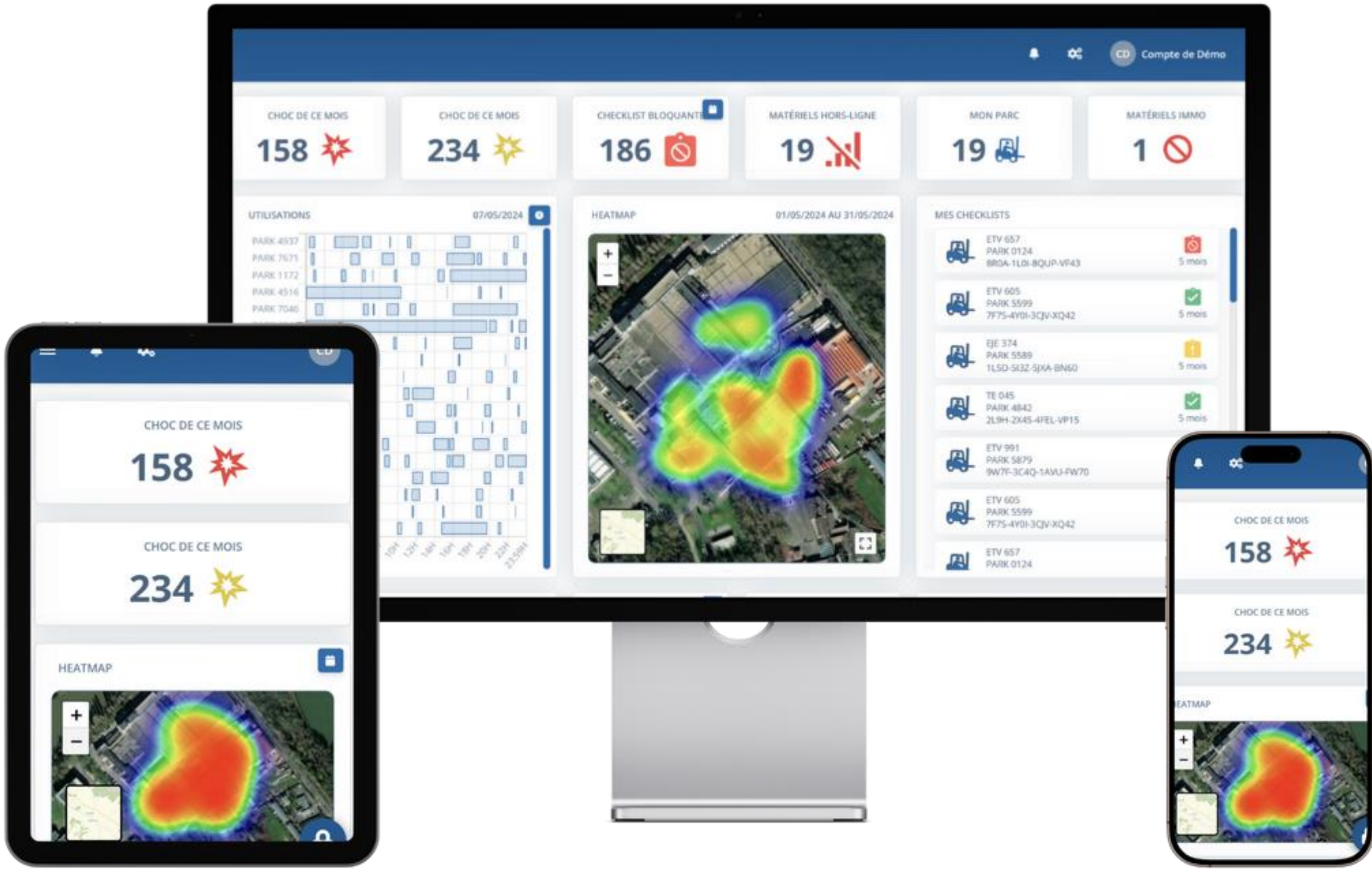
DASHBOARD

Fully customizable, the dashboard allows you to monitor key indicators that are essential to you at a glance, such as :

- Equipment usage time
- Accident-prone areas
- Geolocation of your equipment
- Number of impacts suffered, etc.

Automatic alerts are available for sensitive criteria such as :

- Maintenance (VGP)
- Impact
- Zone exit and entry
- CACES expiration
- Invalid checklist



A little extra ...
With real-time information, you can respond more quickly and take the necessary corrective action !














EMPLOYEE MANAGEMENT

You can easily manage driving permissions and restrictions for each type of equipment. You can assign specific restrictions based on your employees' certifications and training, such as CACES or any other necessary qualifications.

Limitation de conduite

Liste des limitations de conduite

Rechercher

R489 Catégorie 1A  60 mois	R489 Catégorie 2A  60 mois	R489 Catégorie 3  60 mois BLOQUANT	R489 Catégorie 4  60 mois BLOQUANT
R489 Catégorie 5  60 mois	R489 catégorie 7  60 mois	R486 Catégorie A  60 mois	R486 Catégorie B  60 mois
R482 Catégorie A  60 mois	R482 Catégorie C2  60 mois	R482 Catégorie C1  60 mois	

Modifier une limitation

Liste des limitations de conduite

Nom: R489 Catégorie 1A

Période de validité (en mois): 60

Est bloquant:

Est global:

Description: Transpalettes sans élévation du poste de conduite

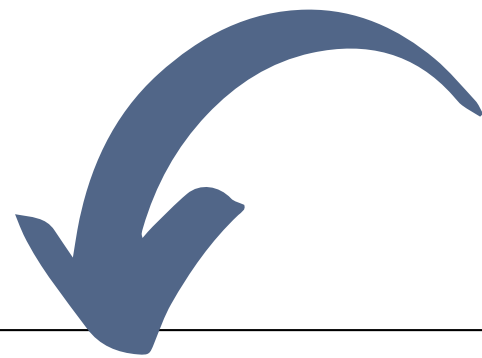
Enregistrer Retour

The **ESK® M4** solution lets you secure the use of your equipment by limiting access to authorized personnel only.

In particular, you can manage :

- CACES and employee training dates
- User profiles (badge type)
- Group employees by department
- Export of employee list

Create a employee



Employees List

Search [] [X] +

Name	Identifier	Registraton number	Type	Department	Outdated Licence	
Martinez Gilles	A440A71D	EMP-0115	RELEASE	Dépannage		
Fouquet Vincent	D7193473	EMP-5679	IMMOBILIZATION	Dépannage		
Lucas Bernard	9329EEA8	EMP-1674	IMMOBILIZATION	Dépannage		
Couturier Anastasie	BD1FC5E8	EMP-7525	IMMOBILIZATION	Logistique 59		
Etienne Marthe	450DE375	EMP-9033	IMMOBILIZATION	Logistique 59		
Fabre Dominique	A32306EF	EMP-9935	RELEASE	Logistique 55		
Herve Benjamin	6AED7C59	EMP-7727	IMMOBILIZATION	Logistique 55		
Pereira Stéphanie	FC4B318C	EMP-3743	IMMOBILIZATION	Logistique 45		
Noel Charlotte	8D10F83D	EMP-7676	IMMOBILIZATION	Service Zone		
			IMMOBILIZATION	Service Famille		

4 5 ... > >| 1 of 9 pages (85 items)

Employee creation / edition

Employees List

Employee file

Firstname: Gilles Name: Martinez

Identifier: A440A71D Type: RELEASE

Department: Dépannage Registraton number: EMP-0115

Comment: Comment (Field size: 255 charasters)

Driving limitation list

Name: Visite médicale	N°: 70137	Start date: 26/05/2018	End date: 26/05/2020	
Name: Formation avancé	N°: 30419	Start date: 07/11/2020	End date: 07/11/2021	
Name: CACES 1	N°: 75909	Start date: 08/03/2020	End date: 08/03/2040	
Name: CACES 2	N°: 64169	Start date: 19/09/2020	End date: 19/09/2040	
Name: CACES 5	N°: 99572	Start date: 06/12/2019	End date: 06/12/2039	

+ Add new limitation

Save Exporter la fiche Back



MATERIALS MANAGEMENT

Shock, hour meter, geolocation...

All management criteria are integrated and displayed clearly and concisely.

Liste des matériels										
	Matériel	Famille	Zone(s)	Horamètre	Status	Choc	GPS	Dern. connexion	Contr...	Signal
	PARK 4291 ETV 943 C733A0348CD7FE1A	Gerbeur 35	Atelier 103 Atelier 461 Atelier 141							
	PARK 4937 ETV 066 BF0A3D2E9CF7E727	Nacelle	Atelier 103	60,0 (Traction)				17/05/2024 02:43		
	PARK 7671 ASD 200 F4A9FF98A7EDF9FA	Gerbeur 35	Entrepot 453	75,2 (Entrée 3)				12/05/2024 13:22		
	PARK 1172 EJE 698 BB1B28F51E234A25	Gerbeur	Atelier 347	56,7 (Elevation 2)				12/05/2024 19:59		
	PARK 5879 ETV 991 8995A233C45EE466	Transpalette	Atelier 103	9,3 (Levage)				06/05/2024 15:03		
	PARK 4516 ETV 300 2182F5E083B87EDD	Transpalette	Entrepot 453	13,0 (Levage 1)				11/05/2024 17:19		
	PARK 7046 ASD 148 8AB7FF659E13DA32	Gerbeur	Atelier 103	53,7 (Elevation 2o)				12/05/2024 05:03		
	PARK 4842 TE 045 E6A49BE8672DEA8A	Transpalette	Atelier 103	74,6 (Levage 1)						
	PARK 6986 ESD 775 75D84A273B87D0A0	Gerbeur 35	Entrepot 453	38,8 (Entrée 3)						
	PARK 5589 EJE 374 86A956EF6D6004D8	Transpalette	Atelier 103	13,5 (Levage 1)				17/05/2024 06:57		

Fixed assets

No communication for more than 15 days

Mr. X

Last GPS position

4G signal quality

Impact on equipment

Access control disabled



SHOCK DETECTION: CONFIGURATION

Remotely configurable and real-time alerts in the event of a severe impact !

Impacts are defined by two criteria :

- Sensitivity : the heavier the equipment, the higher the sensitivity must be (otherwise the impacts will not be **“felt”**). The default setting is 4.
- Intensity : defined on a scale of 1 (0.5G) to 15 (8G), with level 15 corresponding to an extreme impact. You define a warning threshold above which impacts are recorded and an alert threshold at which a deceleration action (timed or untimed) can be triggered.

The post-shock action is defined via the **“mode”** drop-down menu.

The screenshot displays a configuration interface for post-shock actions and sensitivity settings. At the top, the title "Action après choc :" is centered. Below it, there are two input fields: "Mode:" with a dropdown menu currently showing "Mode 2 - Action temporisée", and "Tempo (en sec):" with a numeric input field set to "10".

Below the mode and tempo settings, the "Sensibilité :" section features a horizontal slider. The slider is labeled with levels from "Faible 1" to "Forte 7". The levels are: 1 (Faible), 2 (Moyenne), 3 (Modérée), 4 (Élevée), 5 (Très élevée), 6 (Extrêmement élevée), and 7 (Forte). A blue circular marker is positioned at level 4. A leaf icon is on the left and a bell icon is on the right of the slider.

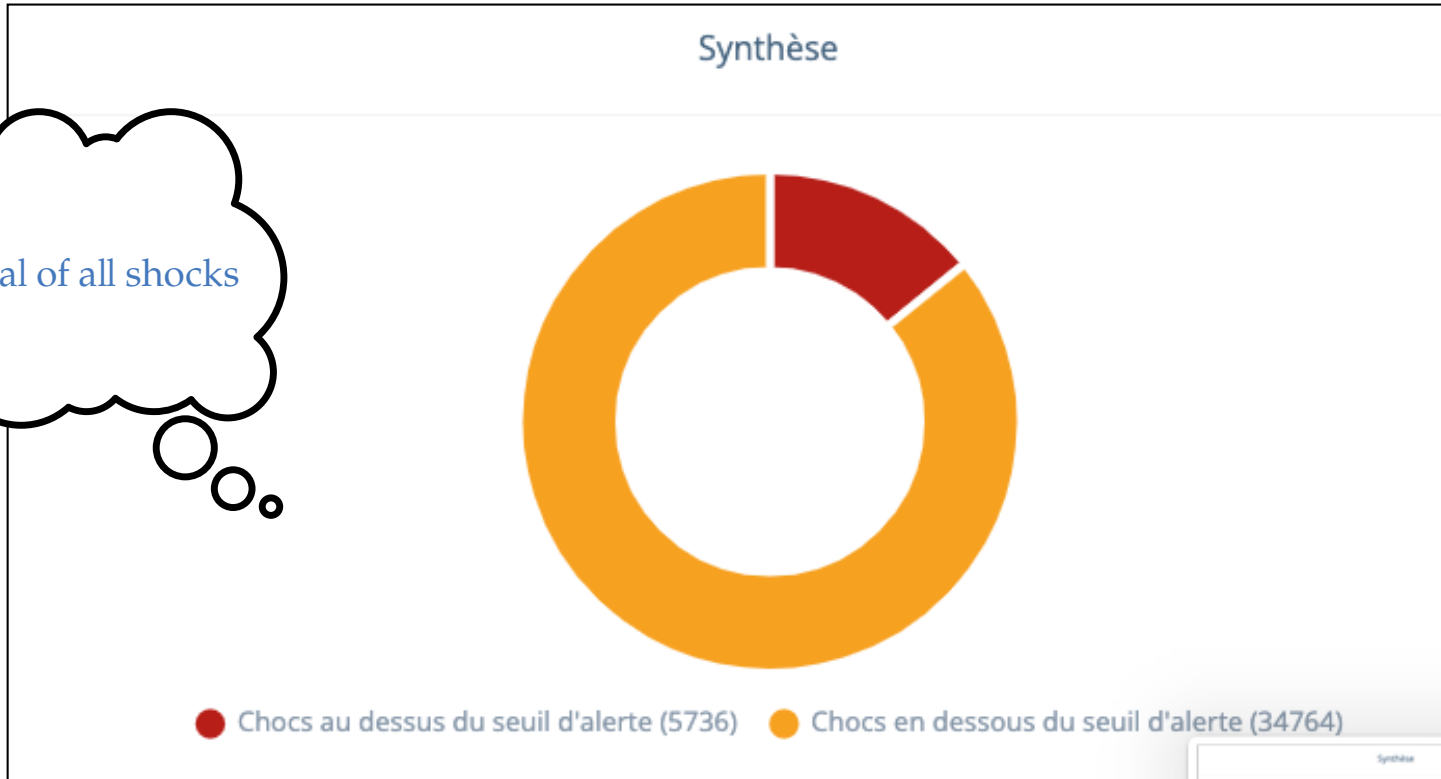
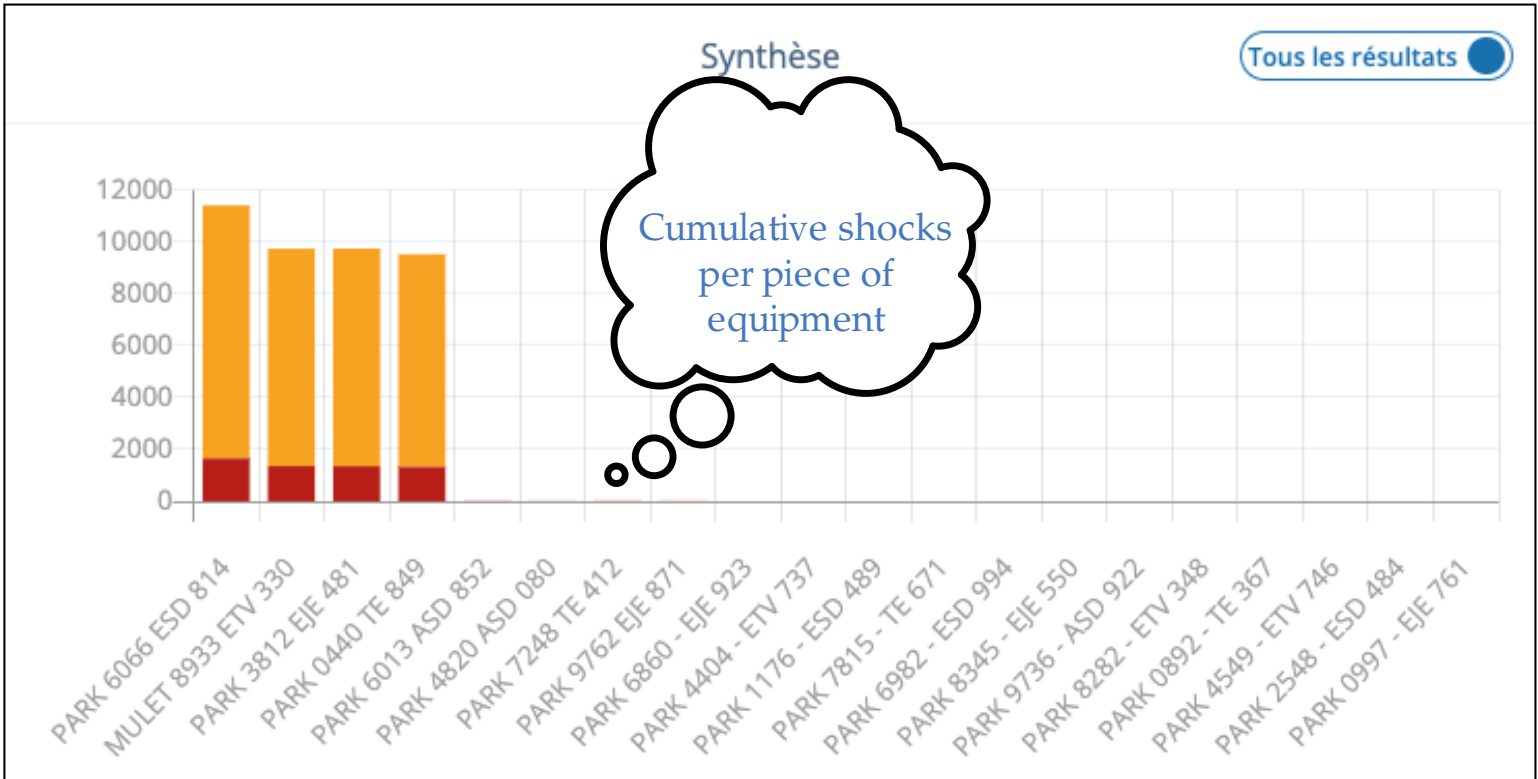
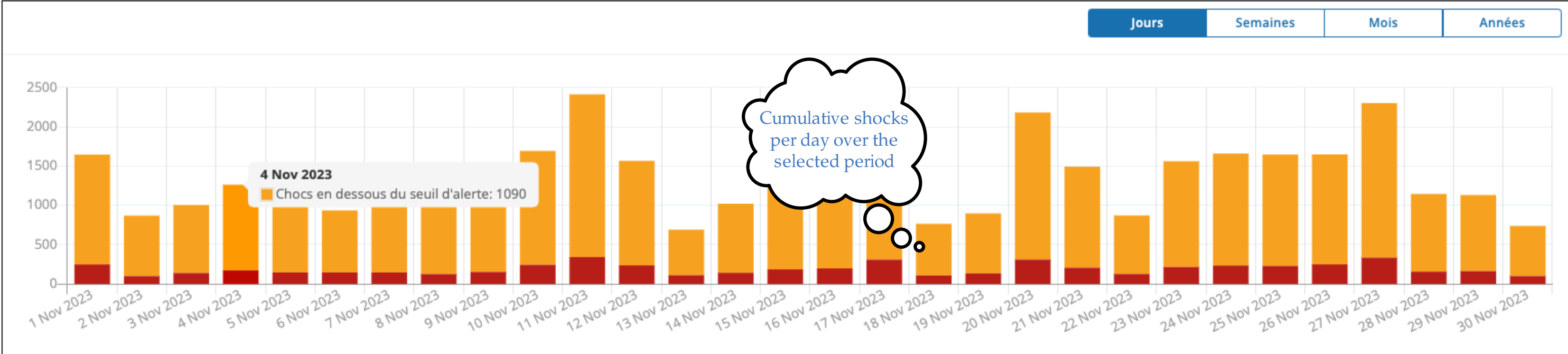
Below the sensitivity slider, the "Niveau :" section features another horizontal slider. This slider is labeled with levels from "Faible 1" to "Forte 15". The levels are: 1 (Faible), 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, and 15 (Forte). A yellow marker is positioned at level 7, labeled "Seuil d'avertissement", and a red marker is positioned at level 10, labeled "Seuil d'alerte". Forklift icons are on the left and right of this slider.



SHOCK DETECTION: REPORTING

Shocks by material distinguish between low and high shocks, according to the 2 thresholds recorded beforehand.

A detailed report is sent automatically by e-mail at the desired frequency. Shocks above the alert threshold are notified by e-mail in real time to the recipients (the alert is activated according to the option chosen).



In this same report, you can view and export all recorded impacts to Excel.


Each impact is detailed with :

- The driver present during the impact
- The severity of the impact
- The date and time
- The GPS position (optional)
- Recording of impacts in the absence of a driver

Matériel	Choc	Employé(e)	Date	
PARK 3615 ASD 087	Niveau 15	7F140392	31/01/2024 20:04	
PARK 7671 ASD 200	Niveau 14	E33450C3	31/01/2024 18:38	
PARK 3615 ASD 087	Niveau 15	BC024E1B	31/01/2024 08:51	
PARK 7046 ASD 148	Niveau 12	A2FE4CF3	31/01/2024 06:10	
PARK 7046 ASD 148	Niveau 12	A1EF9E43	30/01/2024 22:16	
PARK 7671 ASD 200	Niveau 14			
PARK 7843 ETV 320	Niveau 12			
PARK 1172 EJE 698	Niveau 12			
PARK 7671 ASD 200	Niveau 14			
PARK 7671 ASD 200	Niveau 15			

10 Eléments par page

1 2 3 ...

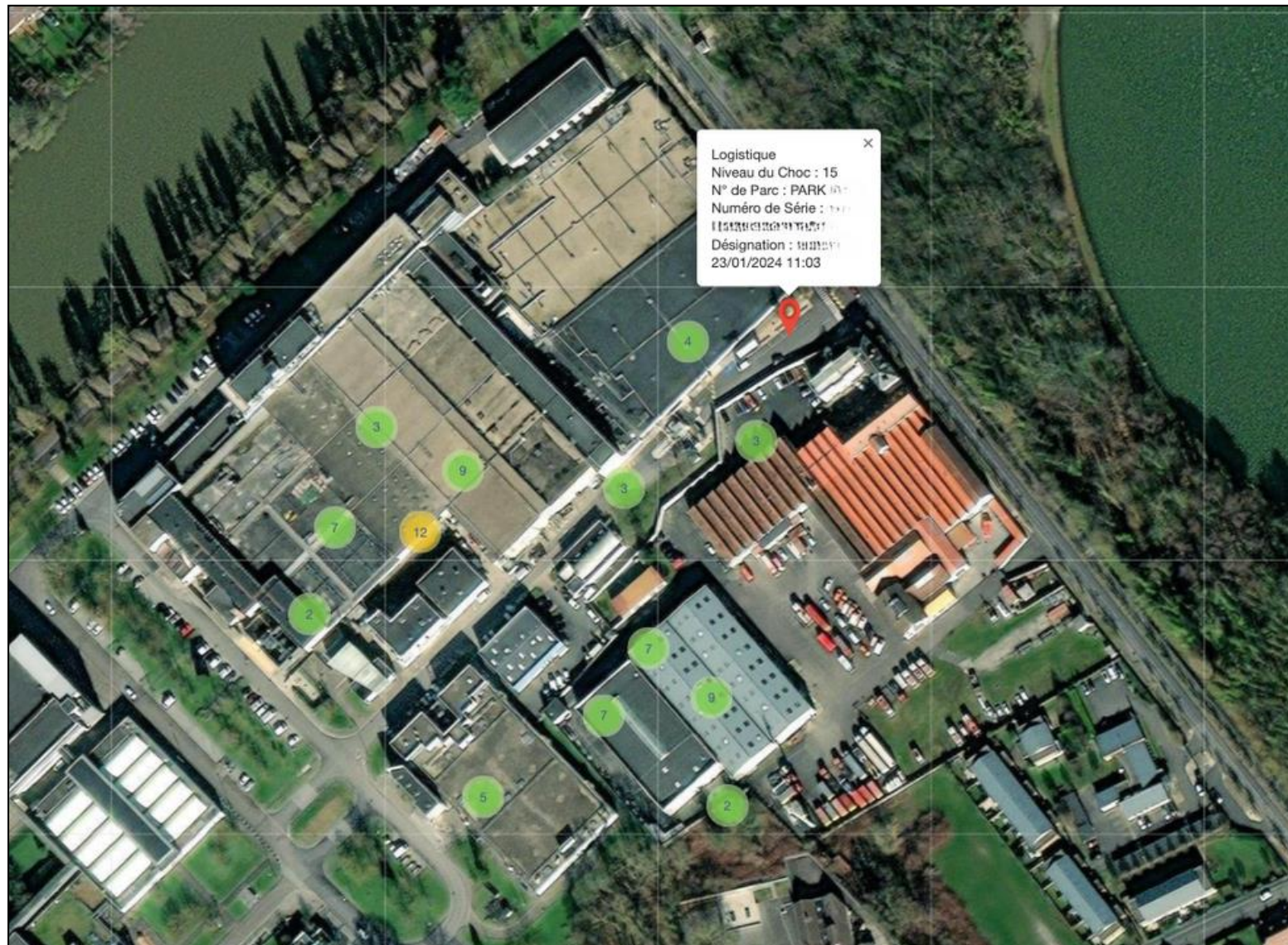


You can also display impacts on a map as a heat map or point concentration.

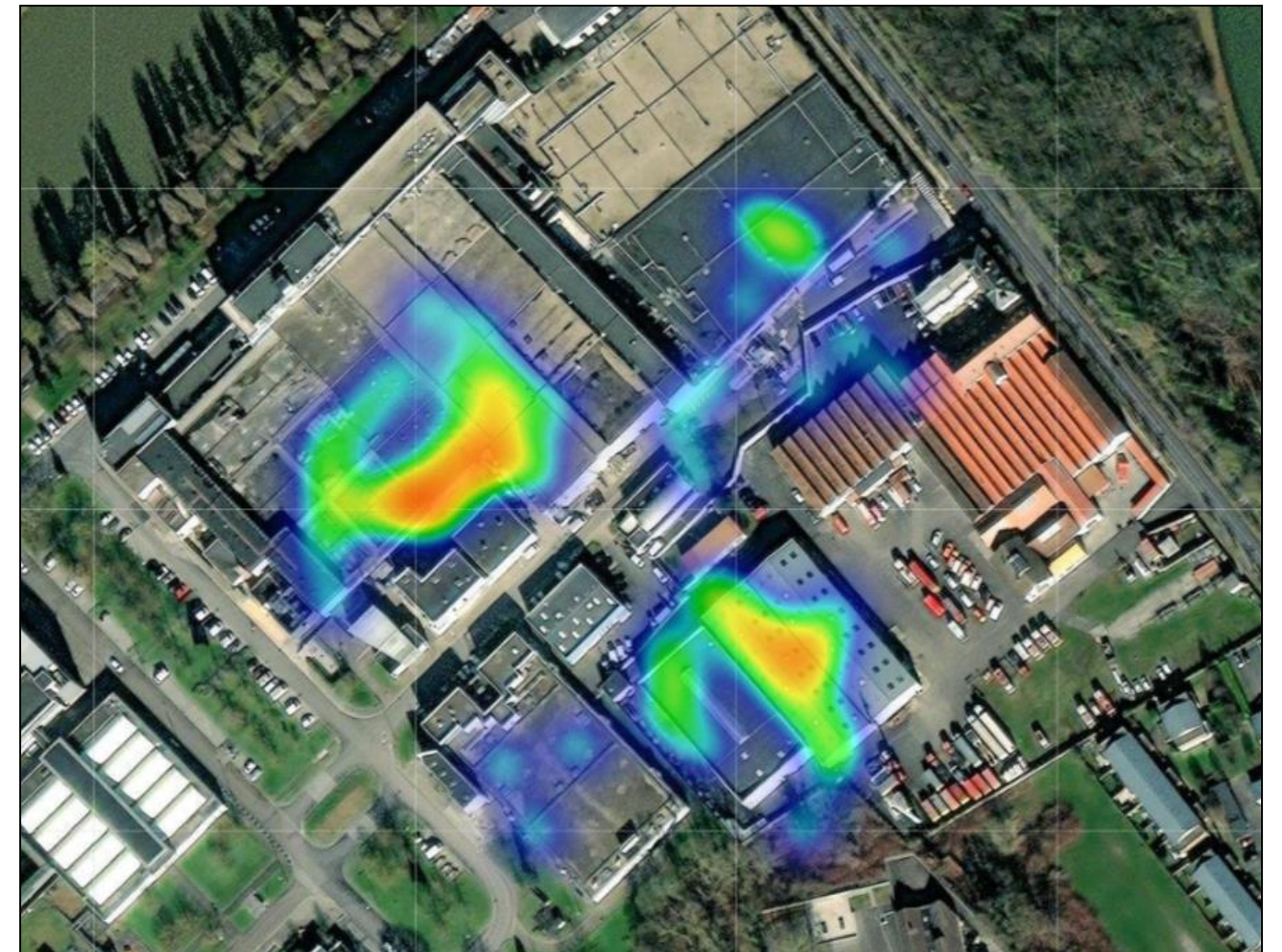
This feature provides valuable mapping to understand the distribution of impacts in your work environment.

It can be particularly useful for identifying accident-prone areas, optimizing forklift layout, and improving safety in sensitive areas.

Cluster Map



Heat Map

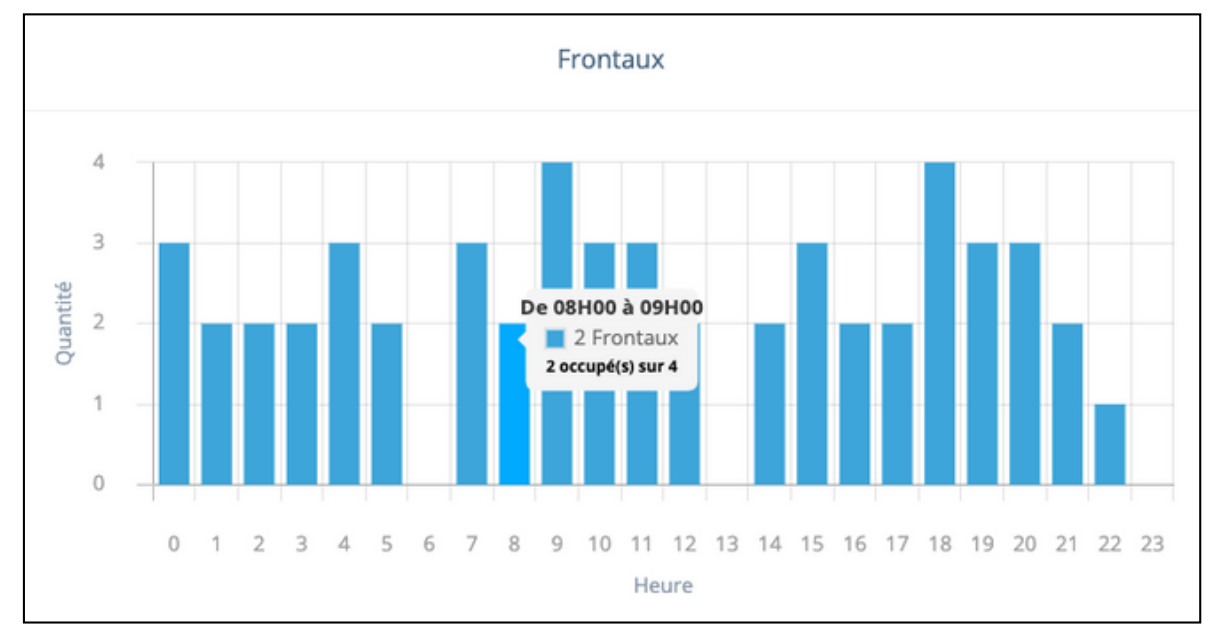
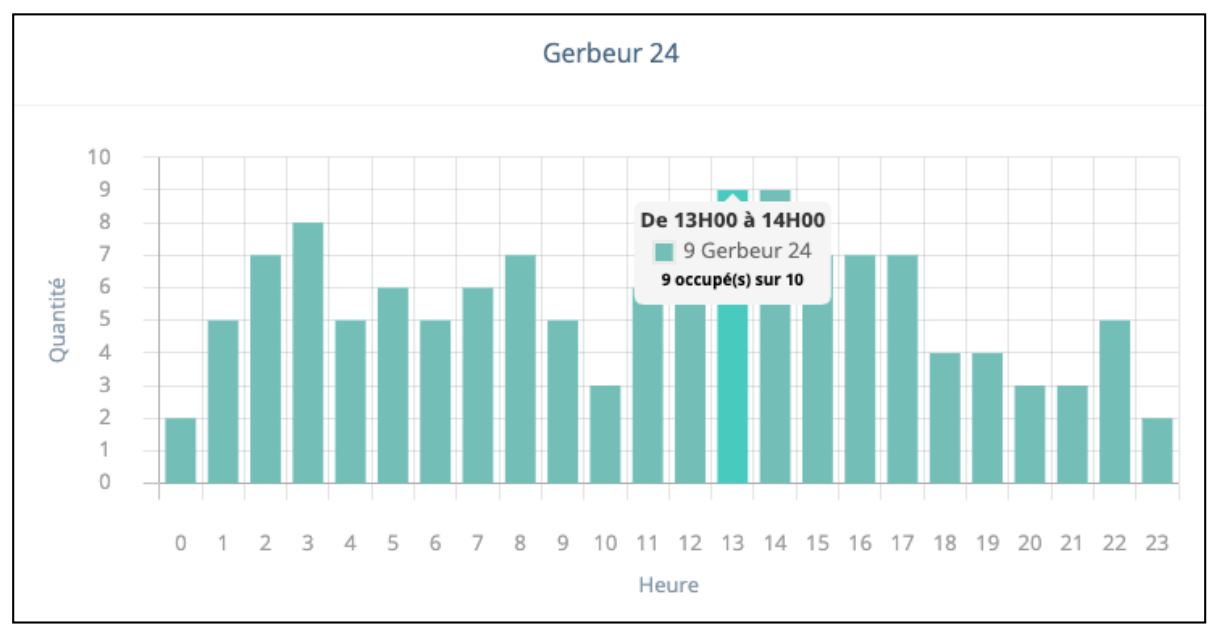
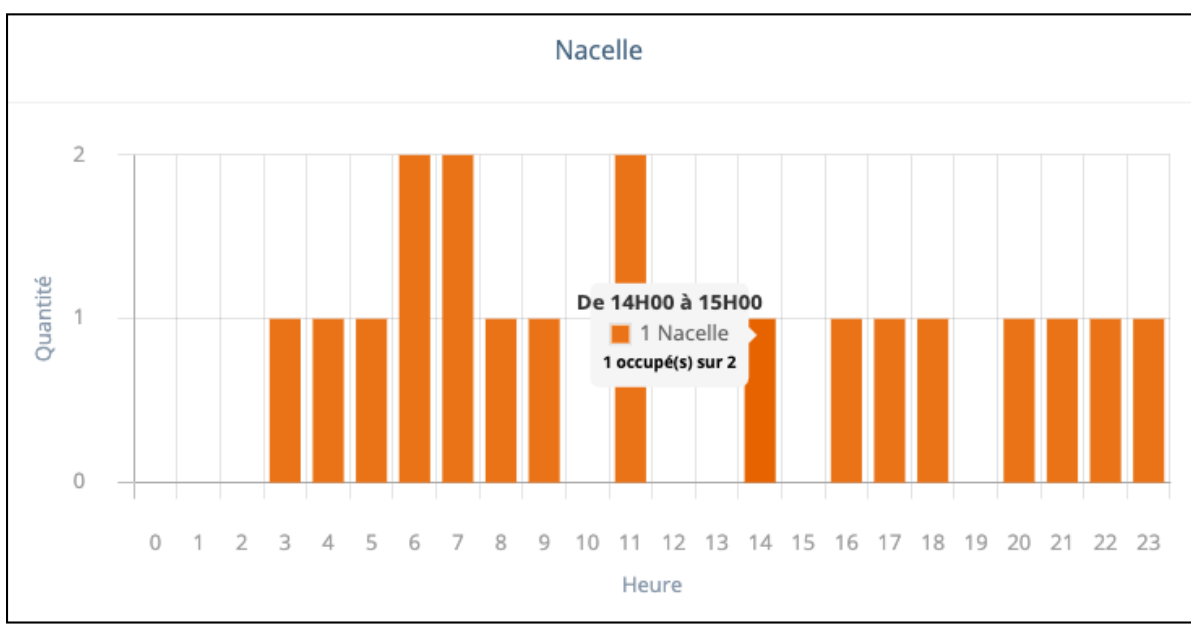
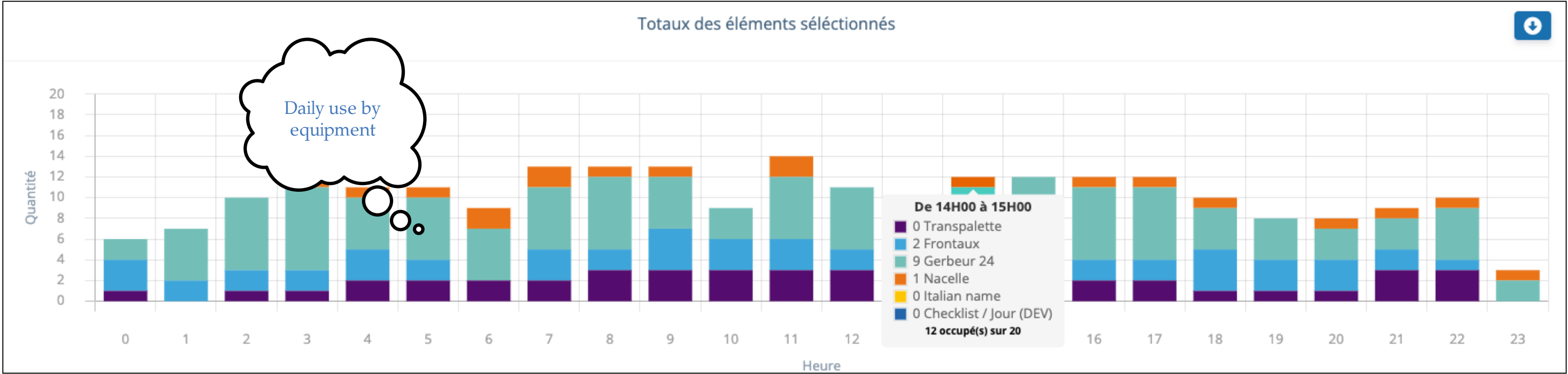




MATERIAL
COMMITMENT

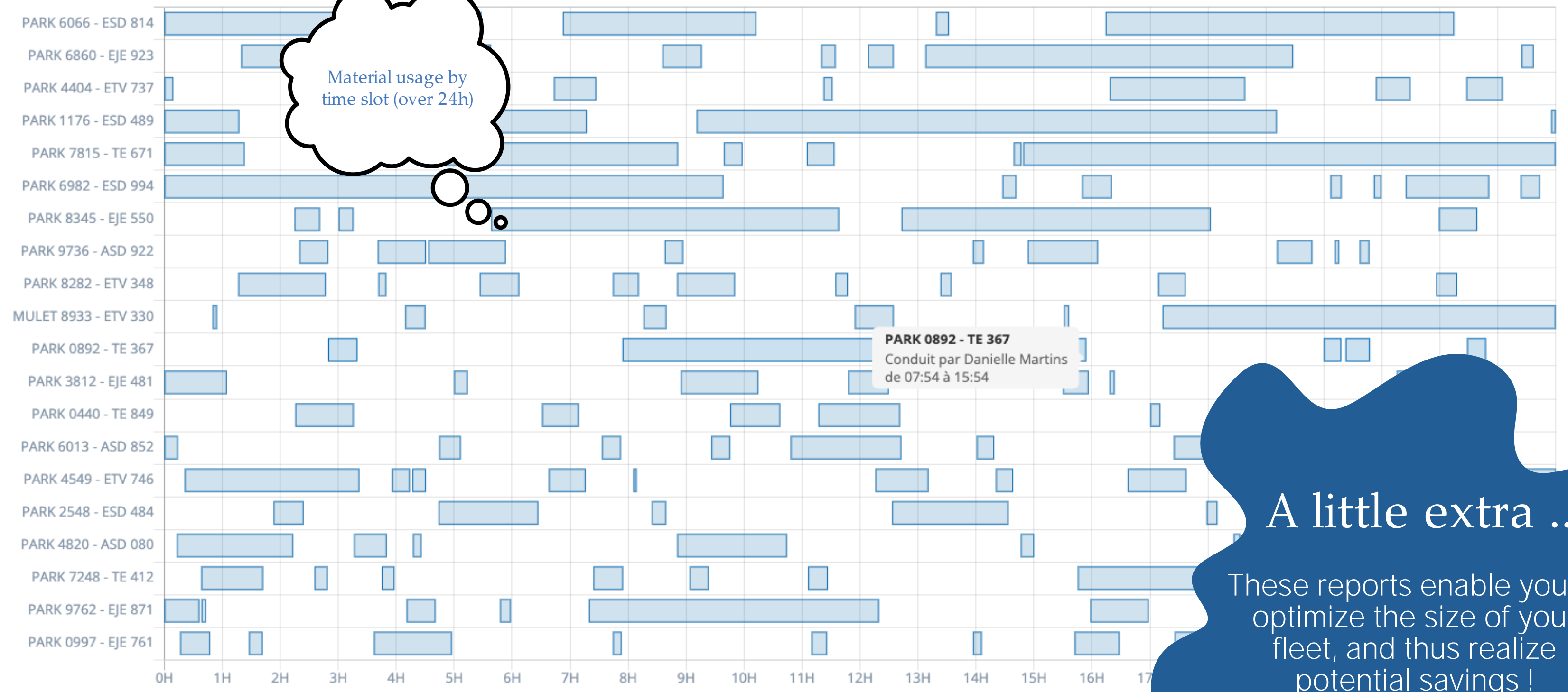
On the M4 platform, you can view the commitment of the equipment in your fleet according to various criteria:

- Commitment by equipment and by family
- Utilization by employee
- Equipment activity: time spent idle, off and active
- Highlighting under-used or over-used equipment



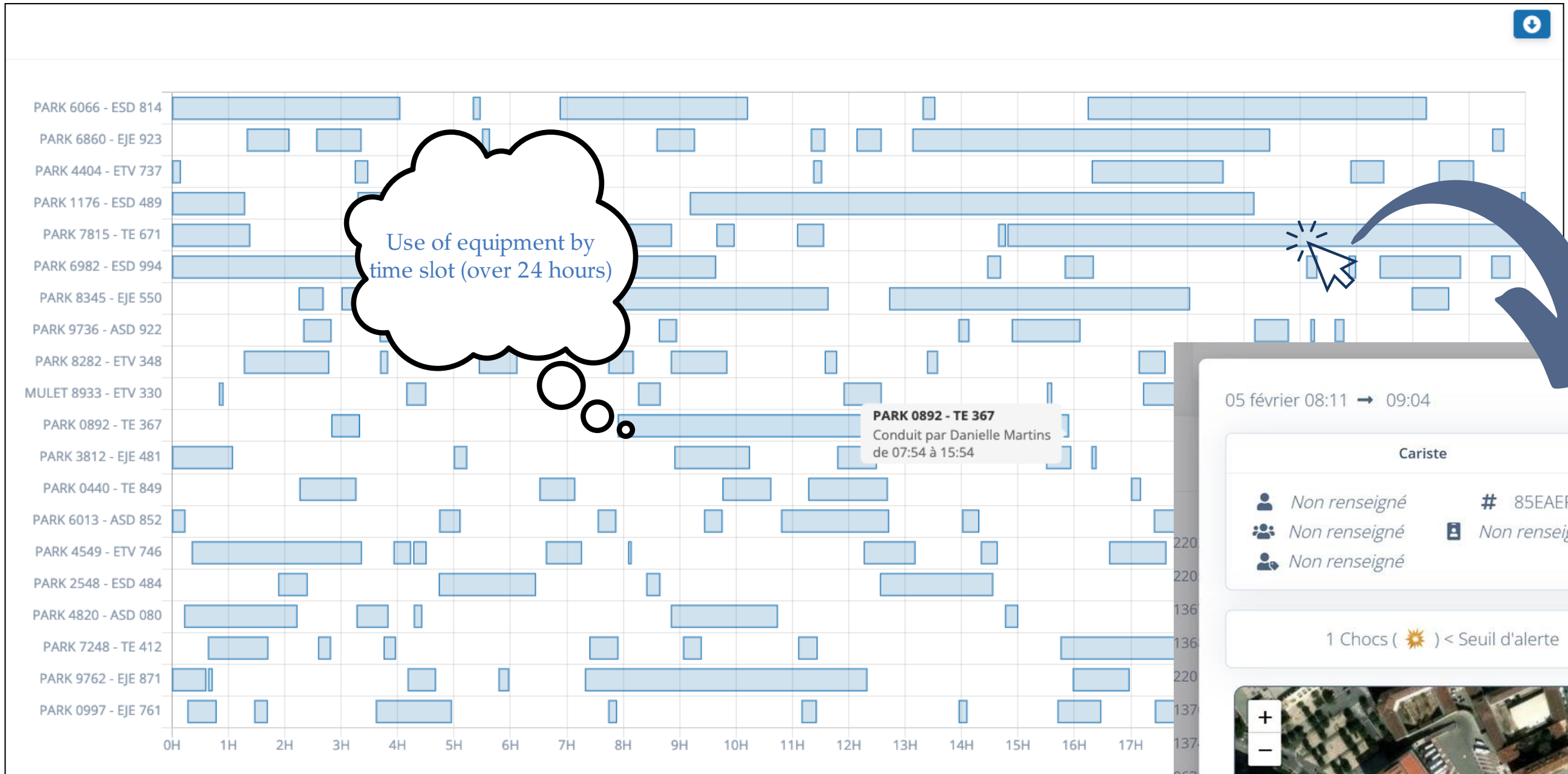


Material usage by time slot (over 24h)



A little extra ...

These reports enable you to optimize the size of your fleet, and thus realize potential savings !



Enregistrer

05 février 08:11 → 09:04 Durée: 0H53

Cariste

- Non renseigné
- Non renseigné
- Non renseigné

Matériel

85EAEFA2

Non renseigné

1 Chocs (☀) < Seuil d'alerte 0 Chocs (☀) >= Seuil d'alerte

05/02/2025 08:11 05/02/2025 09:04



HOURMETER

For easy access to your equipment's hour meters and history.

Which equipment is most involved ?

In which time slots ?

When should the next VGP be scheduled ?

These are all important indicators, accessible at the click of a button, to help you organize your business !





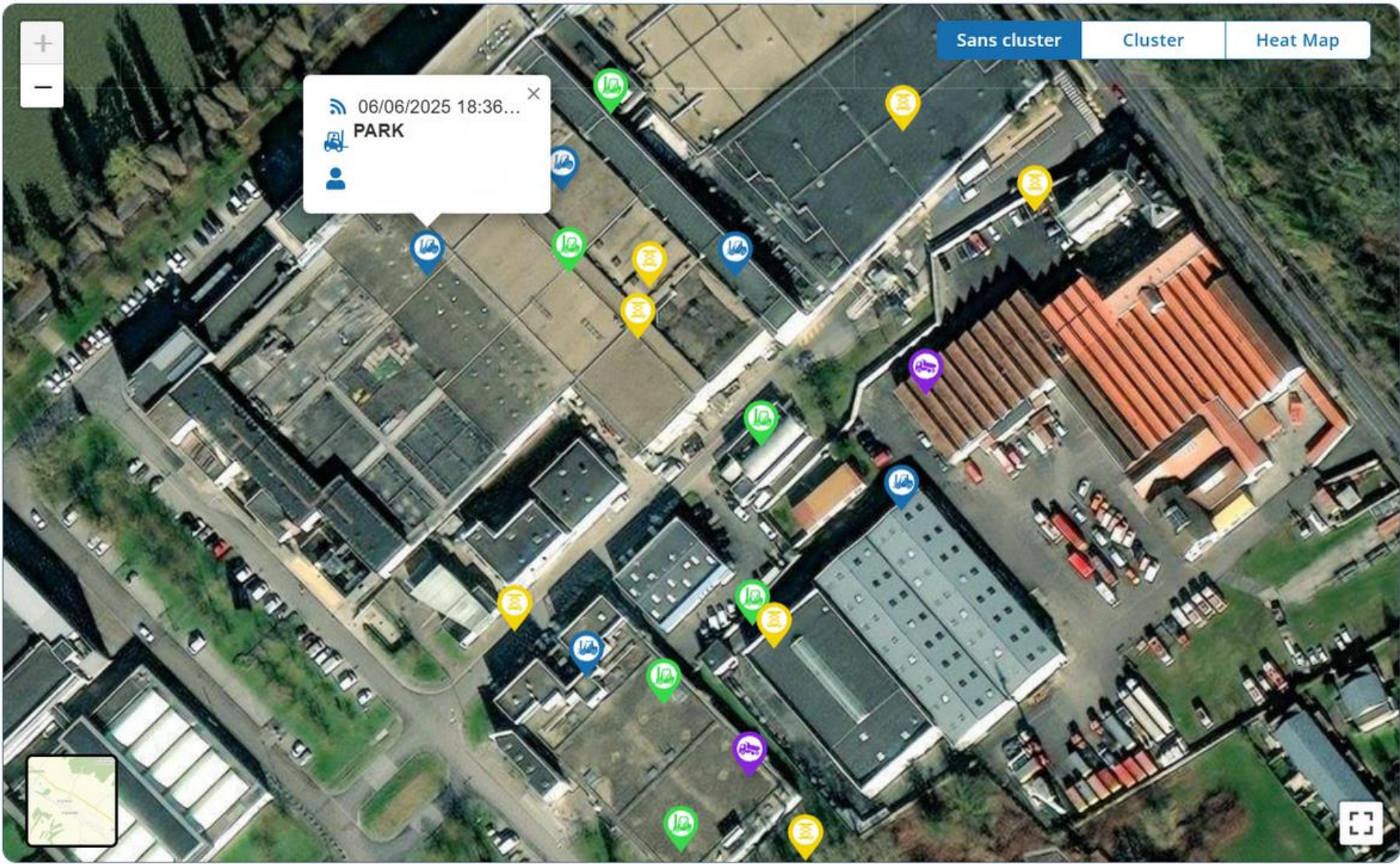
EQUIPMENT GEOLOCATION

The ESK® M4 solution can locate each piece of equipment with the following information :

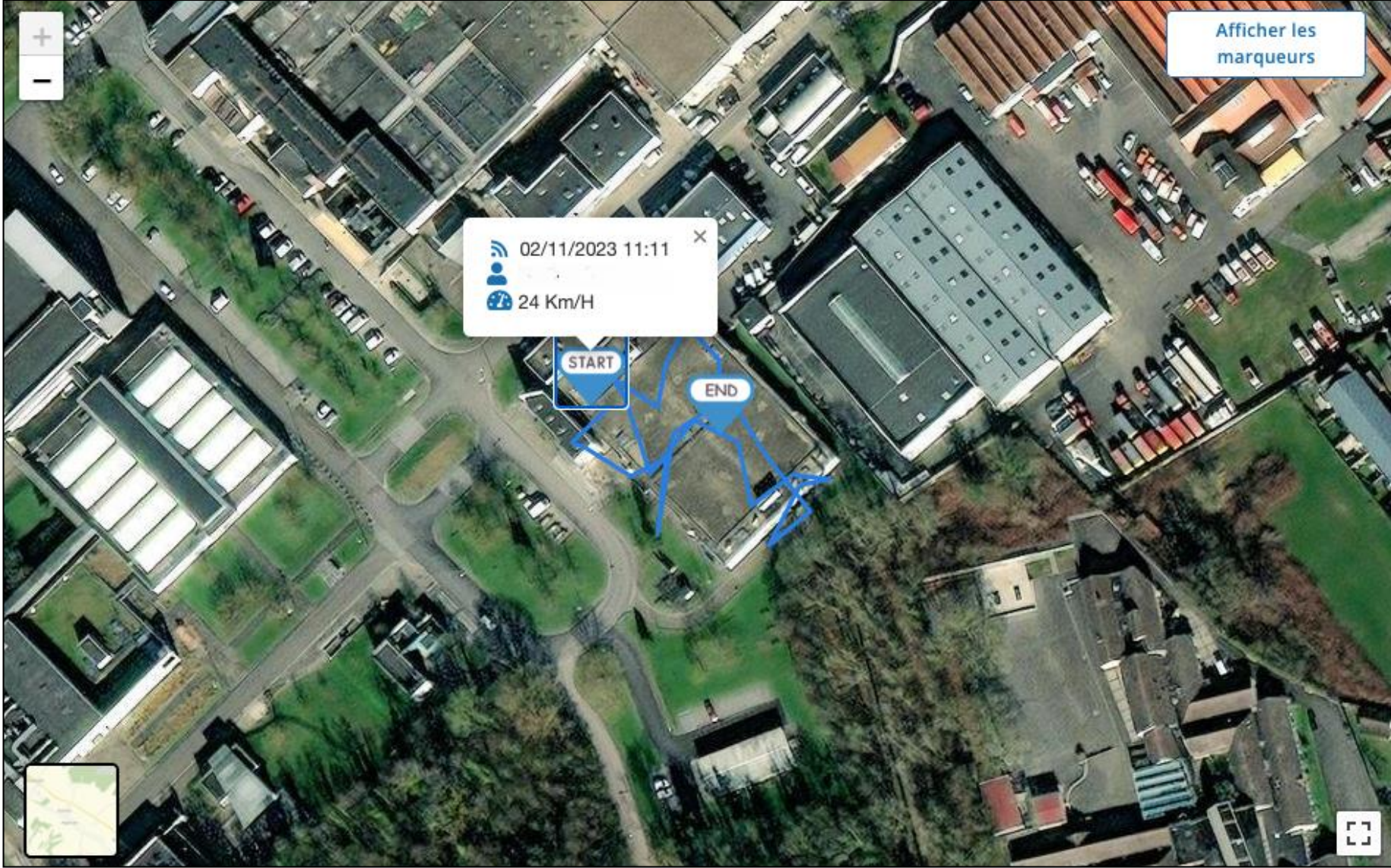
- Vehicle identification
- Date
- Time
- Speed
- Impacts

GPS data is recorded and you can view your entire fleet at any given time. You can also locate a piece of equipment within a defined time slot.

Global geolocation



Hardware geolocation





GÉO FENCE

A “Geofence” is a geographical area defined by GPS points outside of which your equipment is not authorized to move. You can be alerted if one of your devices leaves or returns to its Geofence.

Liste des geofences

Rechercher une ville **Satellite** Terrain **+**



Zone logistique

- Atelier 103
- Atelier 461

Ajouter une geofence

Modifier **Supprimer**

Zone de production

- Atelier 141

Ajouter une geofence

Modifier **Supprimer**

Zone interdite



MAINTENANCE AND SERVICE MANAGEMENT

Maintenance management:

Maintenance			Intervention	
Matériel	Horamètre	Maintenance	Progression calendaire	Progression horamètre
PARK 8783 EJE 694 Gerbeur	200 H (Traction 1)	VGP		
PARK 7843 ETV 320 Gerbeur	660 H (Traction 1)	VGP		
PARK 1172 EJE 698 Gerbeur	966 H (Traction 1)	VGP		
PARK 7046 ASD 148 Gerbeur	1204 H (Traction 1)	VGP		
PARK 8783 EJE 694 Gerbeur	200 H (Traction 1)	VGP		
PARK 7843 ETV 320 Gerbeur	660 H (Traction 1)	VGP		
PARK 1172 EJE 698 Gerbeur	966 H (Traction 1)	VGP		
PARK 7046 ASD 148 Gerbeur	1204 H (Traction 1)	VGP		

This page allows you to view and keep track of the maintenance of your equipment.

Please note that maintenance can be defined based on :

- The value of an hour meter
- A deadline (calendar)
- Both

Maintenance: VGP du PARK 7843 ✕

Date d'échéance
17/02/2025

Valeur de l'horamètre
660

Échéance
1000

Précédente (Aucune) | Prochaine 17/02/2025

Précédente 0 H | Prochaine 1000 H

Réaliser la maintenance

Enregistrer

Retour

Intervention management:

Material	Hourmeter	Object	Request date	State	Cost	Replacement...
PARK 4937	60 H (Traction 2)	panne pneumatique	24/04/2024	Supported		

1 of 1 pages (1 items)

This page enables you to list all the work carried out on the equipment in your fleet, particularly in the context of servicing or maintenance.

panne pneumatique on the material PARK 4937

Answer
Description of the intervention
Field size: 255 characters

Cost
€ Cost

Type
Choose a type

Intervention date

Replacement mule
Choose a mule

Contract

State
Supported

Save Back

Add intervention

Material
Choose a material

Description
Description object

Click here to add attachments

Save Back



CALENDRIER

New!

The ESK WEB solution is evolving and now includes a smart calendar that centralizes all the important dates on your platform. With this new feature, you get a clear and intuitive overview of all your essential deadlines :

- Maintenance dates
- License expiration dates
- Personal deadlines

With the ESK WEB calendar, anticipate your obligations and increase your efficiency by maintaining a clear overview of all your events.

● Événement personnel ● Limitation de conduite ● Maintenances

Type(s) Choisir une période

< Février 2025 >

LUN.	MAR.	MER.	JEU.	VEN.	SAM.	DIM.
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	1	2

Calendar events:

- Feb 14: VGP
- Feb 17: VGP, VGP
- Feb 24: VGP2, +2
- Feb 28: VGP



CHECK-BOX

You can link a CHECK-BOX, an electronic version of daily checks, to your M4 fleet management system.

Fully customizable, CHECK-BOX automatically saves the data entered, which can be viewed on demand, according to your needs !

Via your web platform, you can customize your lists of questions and assign them by type of equipment (e.g., front-end checklist).

Data is transmitted remotely to the equipment using the communication mode selected (4G or Wi-Fi).

The screenshot displays the CHECK-BOX web management interface, divided into two main sections: 'Liste des questions' and 'Liste des checklists'.

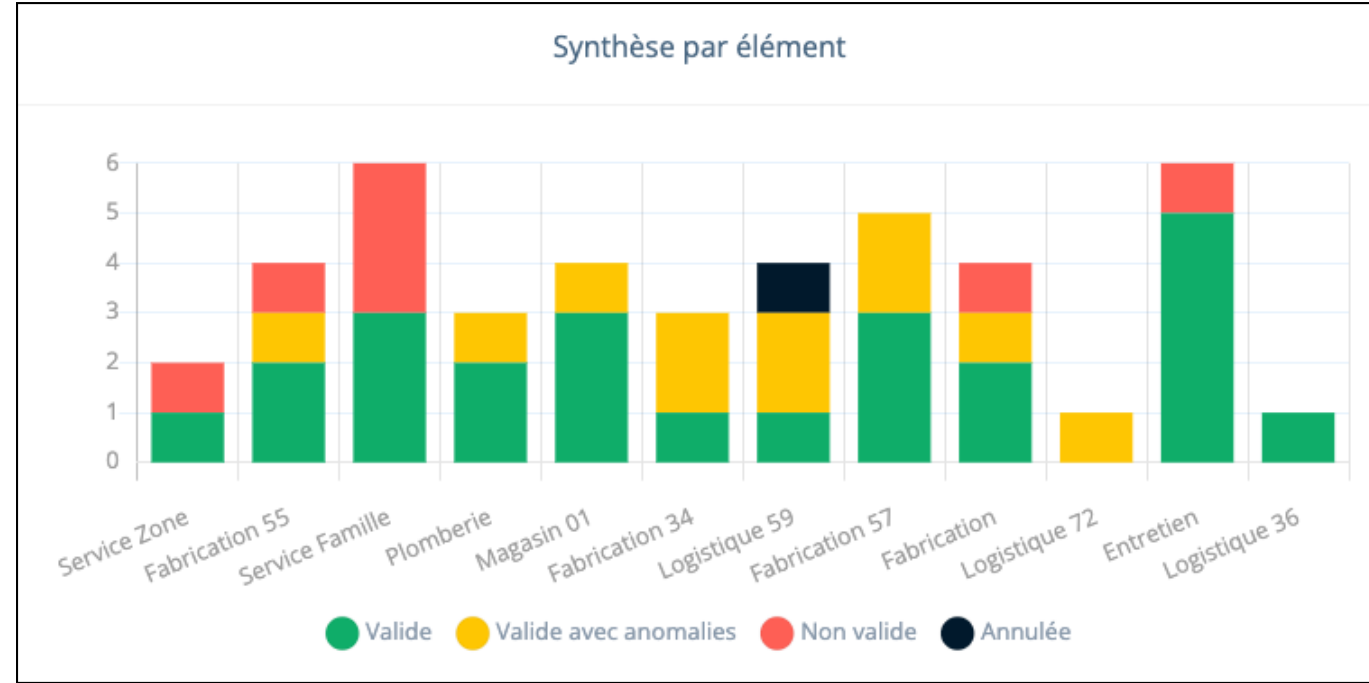
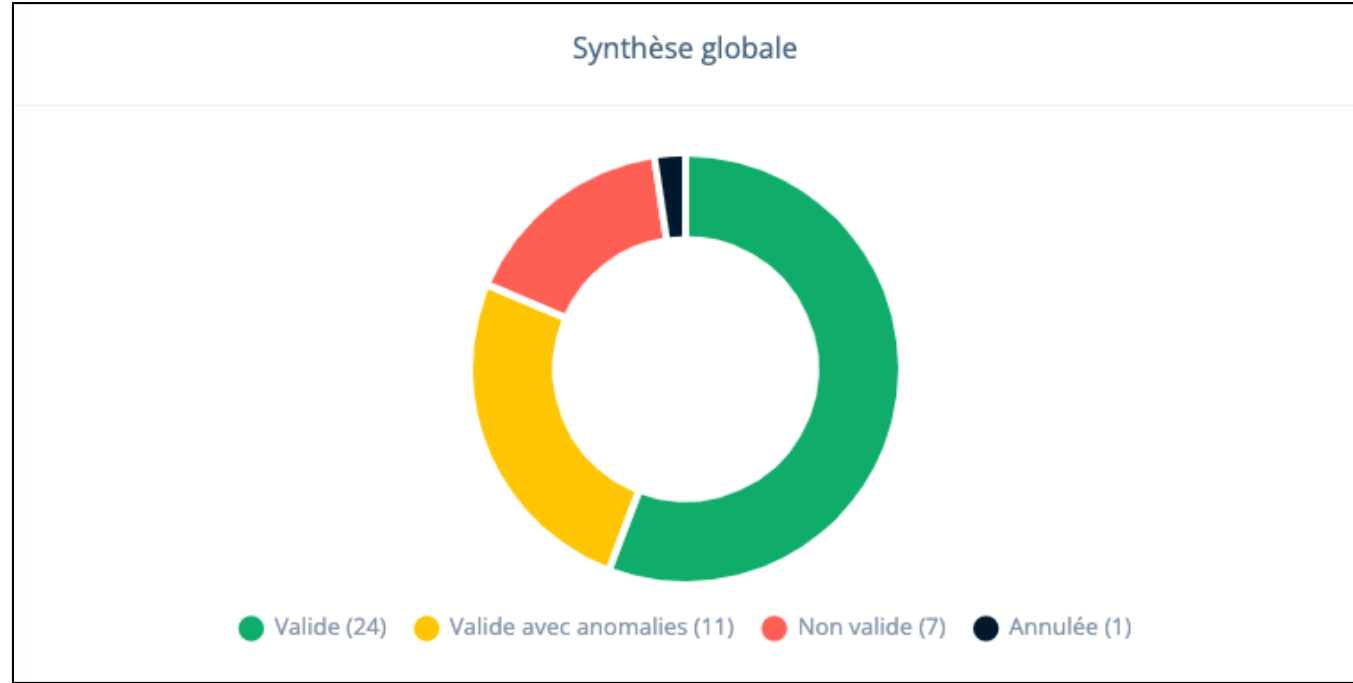
Liste des questions: This section features a search bar with the text 'Rechercher' and a plus icon. Below it is a table with the following columns: 'Question', 'Type', and 'Options'. The table lists 17 questions, each with a status indicator (green checkmark, red X, or red circle with slash) and edit/delete icons.

Question	Type	Options
Freins fonctionnels ?	✗	✗
Roue dévissée/abîmée?	✗	✗
Fourche pliée/fissurée ?	✓	✗
Commandes et direction OK ?	✓	✗
Circuit hydraulique conforme ?	✓	✗
Mécanisme de levage endommagé?	✗	✗
Klaxon et/ou gyrophare OK ?	✗	✗
Présence de fuites ?	✗	✗
Niveau d'eau OK ?	✓	✗
L'éclairage fonctionnel ?	✓	✗
Lumière bleue Hors service ?	✗	✗
Niveau de carburant OK ?	✗	✗
Bon état des pneus ?	✓	✗
Flexible en bon état?	✗	✗
Vérin table OK?	✓	✗

Liste des checklists: This section shows a list of checklists. The first one is 'Thermique 19' with 7 questions, followed by 'Electrique 33' with 9 questions, and two empty checklists 'Checklist_3' and 'Checklist_4'. A red 'Supprimer' button is visible next to the 'Thermique 19' checklist.



Reporting checklists



Historique des checklists

Résultat	Matériel	Employé(e)	Date	
Non valide	TE 367 PARK 0892	Roger Martel B6F2C055	02/01/2024 06:08	>
Non valide	ESD 484 PARK 2548	Rémy Carre F2C462A	02/01/2024 02:24	>
Valide	ESD 489 PARK 1176	Maggie Lefort 8A00A765	02/01/2024 01:51	>
Valide	EJE 923 PARK 6860	Geneviève Caron A6FE37D2	02/01/2024 01:41	>
Valide	ETV 737 PARK 4404	André Fernandes A6F7599C	02/01/2024 00:44	>
Valide	EJE 761 PARK 0997	Capucine Fleury 8B0D130F	01/01/2024 22:42	>
Valide	TE 367 PARK 0892	Alain Leclercq 63D133D2	01/01/2024 22:04	>
Valide	ESD 814 PARK 6066	Madeleine Turpin EF180675	01/01/2024 21:44	>
Valide	EJE 550 PARK 8345	Adélaïde Delorme EA623DFD	01/01/2024 20:46	>
Non valide	EJE 481 PARK 3812	Xavier Gregoire 1051119E	01/01/2024 19:17	>

10 Eléments par page

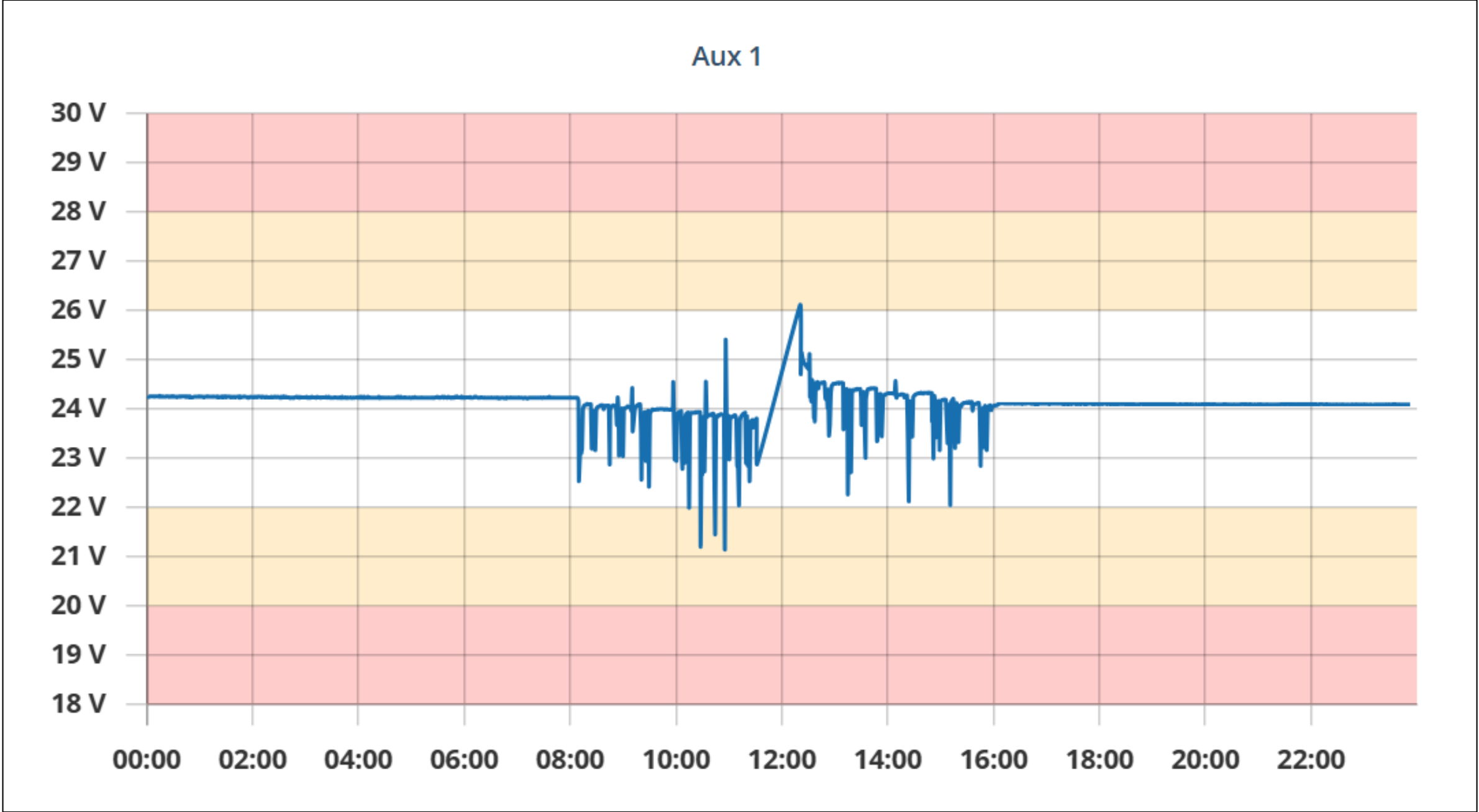
<< < 1 2 3 4 5 > >>

Page 1 sur 5 (43 Eléments)



AUXILIARY INPUTS

The auxiliary input feature allows you to monitor changes in your equipment's battery voltage and can also be used to feed back information from sensors such as fuel level, oil pressure, etc.





DECARBONIZATION

This page allows you to track the CO₂ emissions of your equipment. Its purpose is to help you analyze the total carbon footprint of your equipment fleet.

ecze Décarbonation

Tableau de bord
Reporting
Calendrier
Matériel
Maintenance
Contrôle d'accès
Employés
Checkbox
Historique
Décarbonation

Matériel Zone Famille

Dates: Mois dernier

Matériel(s): PARK 4178 - ETV 444 +1

Enregistrer

Comparaison des émissions de CO₂ entre 2 périodes

Seconde période: Période précédente

Répartition des émissions par type de carburants

Type de carburant	Pourcentage	Émissions (KgCO ₂)
Thermique	89%	261.06
Hydrogene	89%	261.06
Electrique	11%	32.9
Plomb	11%	32.9

294 KgCO₂



ALL FUNCTIONS

- ✓ Management of CACES, driving authorizations and medical examinations
- ✓ Shock and fault history management
- ✓ Checklist management
- ✓ French-designed and -manufactured product (housing and Web platform)
- ✓ Data hosted in France
- ✓ Unique solution independent of manufacturers and distributors

- ✓ Ensure safe operation of equipment
- ✓ Optimize fleet management and simplify key/badge tracking
- ✓ Empower forklift operators
- ✓ Significantly reduce breakage and downtime costs
- ✓ Reduce operating costs
- ✓ Web platform access via a simple Internet connection



WHY CHOOSE ESK® M4
OVER OTHER
SOLUTIONS?

INDEPENDENT OF
MANUFACTURERS

API MANAGEMENT

CUSTOM SOLUTIONS

CUSTOMIZABLE PLATFORM

MULLET MANAGEMENT

SERVICE / TECHNICAL / HOTLINE
/ SALES DEPARTMENT

MADE IN FRANCE
SOLUTION

INTEGRATED R&D DEPARTMENT

REACTIVITY

TECHNICAL DOCUMENTATION

