



COBO
INTOUCH[®]

HERE AND NOW

**Advanced Telematics System
for industrial and agriculture
application**

powered by

 **COBO** 

From Products to Services

- **COBO:** is a/the worldwide leader of design, development, and supply of **global solutions** and **integrated systems** for the agriculture vehicles market
- **Today challenge:** is to offer Customers the possibility to use a connectivity network by managing an advanced telematic device associated to a **COBO INTOUCH web portal**.
- **A new business approach:** from selling a product to providing a **services**

What is the Customer asking for?

➤ A **simple, reliable and flexible system** which allows to reduce production costs and to improve productivity in after-sale service, thanks to:

- GPS Geolocalization for data tracking
- E-mail / SMS notification for warnings and maintenance scheduling
- Immediate technical assistance in case of problem
- Remote Upload software or firmware (FOTA for COBO device)
- Remote Upload parameters update
- Remote Download and management of statistical data (custom reports)
- Machine cost and efficiency management
- Improving the quality of product and manufacturer's processes

Solutions



powered by



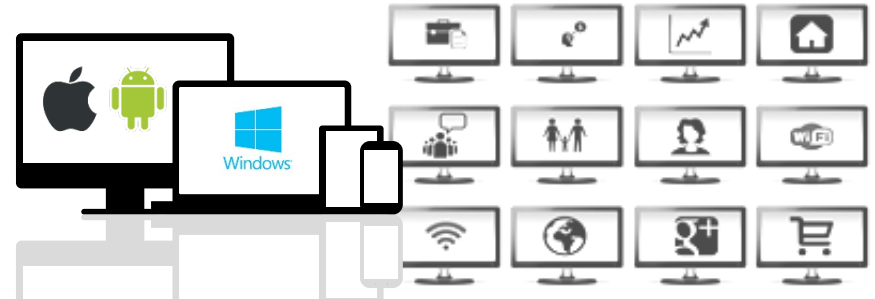
Project description



- **Remote access** via smartphone, tablet and pc in real time thanks to a web-server interface.
- which connects **COBO devices** with a **Cloud server**
- Data are stored in a **database** and provided to Customers via **Internet access**

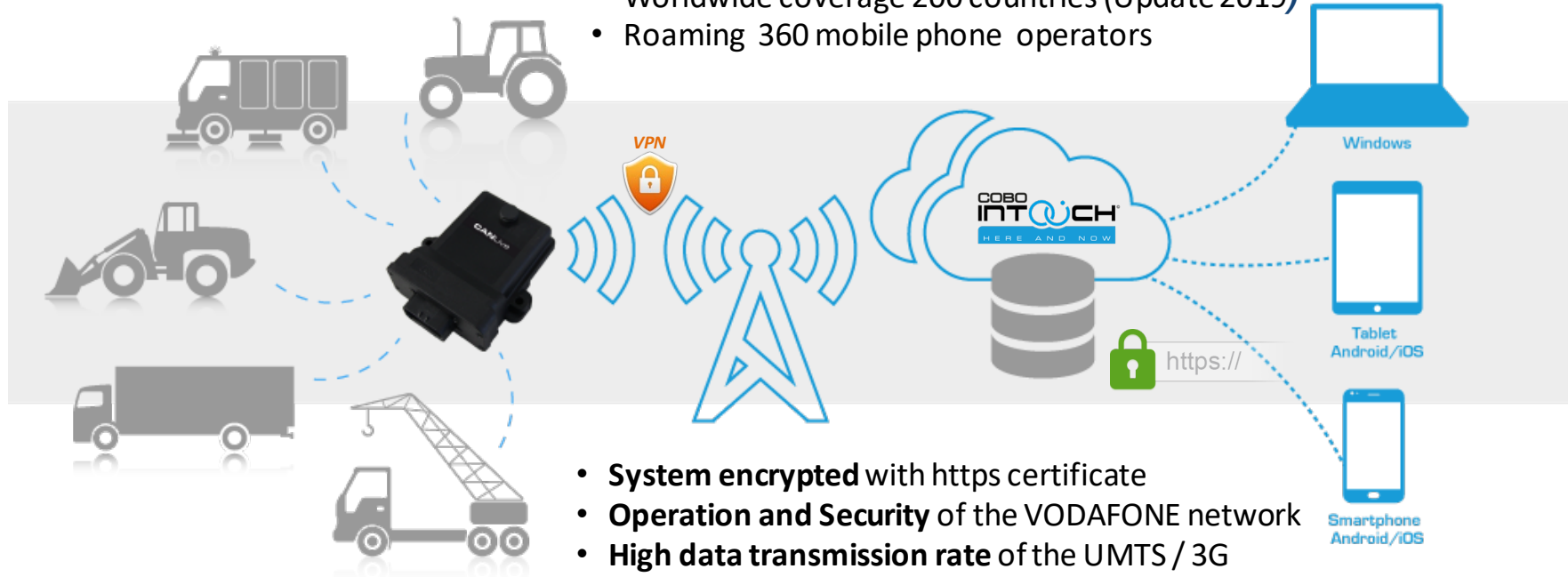
Customer Interface

- **Attractive and user friendly layout** (customizable)
- **Flexible design** for PC, smartphone and tablet (responsive)
- **Compatible** with Microsoft **Windows**, **iOS** and **Android** operating system
- **Multilanguage platform (IT – GB – DE – CN – FR /ES in progress)**
- **Web portal customizable** with colours and logos
- **Secure User authentication (HTTPS)**



How it works

- Worldwide coverage 200 countries (Update 2019)
- Roaming 360 mobile phone operators



- **System encrypted** with https certificate
- **Operation and Security** of the VODAFONE network
- **High data transmission rate** of the UMTS / 3G

YOUR VEHICLES

CANLIVE

GPRS

CLOUD & STORAGE

YOUR DEVICES

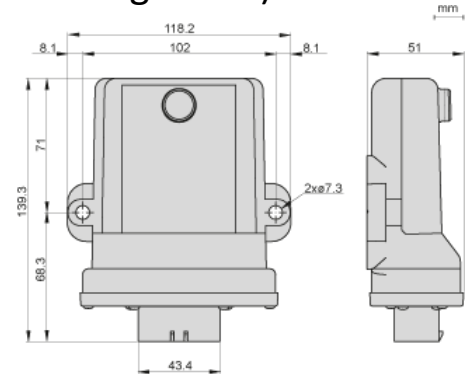
CANLive 2.0

- **This COBO telematics device** completes the ITOUCH system as soon as it is installed on-board.
- **Geo-localization** of machines through internal **GPS, GLONASS** and **QZSS** receiver
- **High speed data communication** through internal **3G-UMTS modem**
- **WIFI communication**
- **2.4 GHz short range communication** (WED device)
- **128 MB Flash memory**
- **CAN-Live Firmware upgradability** from remote (FOTA)
- **Remote “real time monitoring”** for selected variables (COBO canbus Device)
- **Geo-fencing alert** (unauthorized vehicle moving from specific area in or out)
- **COBO device firmware upload** (CANBUS writing mode)
- **Upload supported protocols:** Winloader, KWP2000 and WinloaderTERA



Others main Functionality

- **Built-in “data logger”** functions with programmable recording CANBUS event IDs, for diagnostic and remote troubleshooting (**event log VT3**)
- **Remote can sniffer** from custom IDs selected (10 IDs from the portal)
- **Remote I/O activation** of on-board actuators from remote (CANBUS writing mode)
- **Wide range power supplier** supported (9-36V).
- **Internal backup battery** (rechargeable 300 mA/h)
- Optimized and **programmable low power consumption**
- **internal RTC** programmable with dedicated battery backup
- Check of **working hours** (J1939)
- Monitoring of **real time fuel consumption** (J1939)
- Monitoring of **motor alarm warning DM1** (J1939)
- Measuring and verifying load spectrum for **lifting machine by remote**
- **SSL security COBO certificate** (NON COBO Vodafone sim card)



Customer Interface

1. Information data
2. Network status
3. Operative menu
4. Status update
5. list of devices
6. Machine status
7. Position

Maps available:



The screenshot displays the INT@UCH web interface for a compactor. The interface includes a sidebar with a 'Welcome Manutenzioni' section and a search bar. The main content area shows a dashboard with several key indicators:

- 1. Information data:** Compattatori OEM MC 1B850F00004, OEM SERIAL 1B850F00004, 1B850F00004. Status: Macchina disconnessa.
- 2. Network status:** Connectività (signal strength icon).
- 3. Operative menu:** INFO, DEVICES, REAL TIME MONITORING, CAN SNIFFER, RACCOLTA DATI.
- 4. Status update:** Ultimo aggiornamento: 24 h 37 m fa.
- 5. list of devices:** A list of device IDs in the sidebar: 1B850F00004, 1B850F00005, 1B850F00006, WIRELESS-MODEL 1B850F0023A, WIRELESS-MODEL 1B850F0023A.
- 6. Machine status:**
 - Valori impostati: 200 Bar (100%), 20 MPa (84%), 168 Bar, 16.8 MPa.
 - Legenda riempimento macchina: <80%.
 - Pressione Compattazione: 0 BAR, 0 MPa.
 - Correa cili compattazione: Totali 193 N, Parziali 193 N.
 - Presenza di allarmi: Warning icon.
 - Correa ore: Totali 6710 h, Parziali 6710 h.
- 7. Position:** A map showing the machine's location in the Vimodrone area.

Homepage

The portal Access occurs through a **private area** with HTTPS security protocol.

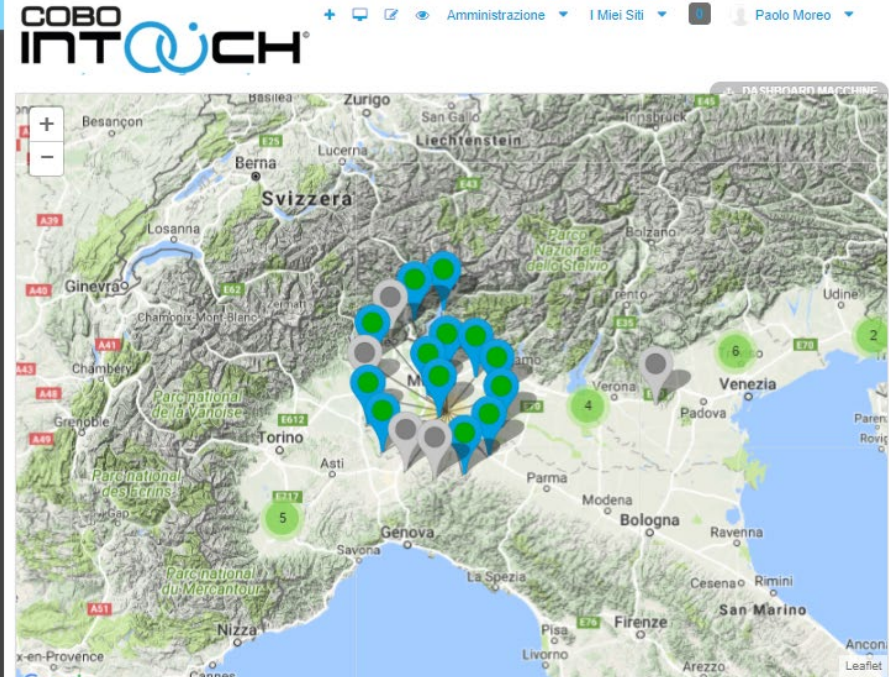
The user can see his customized page (with the logo).

Machines are displayed on a **map with a Zoom option**. It also possible to identify the connected machines without/ with alarms, or without GPS signal. The same machines are differentiated with a various colours.

The header includes:

- User identification
- Total number of unread warnings
- Software and firmware upgrade status
- A series of information that guide the user into the section

In a vertical left bar the machines are listed, with the possibility to search single machine very quickly.



Multi Language Portal

The portal is ready for China market, Bing maps are already implemented and the implementation of BAIDU maps are in progress. For China Market the data communication will be supplied by local telecom provider (China Mobile). The Cloud system will be placed in China (IBM) following China regulation.

COBO Asia in Guangzhou, will supply the local technical support.

The screenshot displays the COBO INTOUCH web interface. At the top, the logo 'COBO INTOUCH' is visible with the tagline 'HERE AND NOW'. The interface is in Chinese. A sidebar on the left contains a menu with options: 欢迎 (Welcome), 配置 (Configuration), 报告 (Report), 区域 (Area), and a search bar for '插入机器...' (Insert machine...). Below the menu is a list of machine models and IDs, including '一种演示车' (18136600172) and 'Turri Last'. The main content area features a header with a tractor image, machine ID '18136600172', and status '无线 / Turri Last' (Wireless / Turri Last). It also shows connection status, last sync time, and location coordinates. A navigation bar includes '信息' (Info), '设备' (Device), '实时监控' (Real-time monitoring), 'CAN监控' (CAN monitoring), and '数据记录器' (Data recorder). Below this is a section for '查看您的机器' (View your machine) with a map placeholder and an 'Add a gadget page' form. The bottom section contains several data widgets: 'double' (8h, 51m), '\$ore_lavoro\$ CN PROVA OVERWRITE alfa alfa beto' (34s, 150ms), and 'Bolla' (5.1° X, 3.4° Y) with a circular gauge.

Info and Machine Data

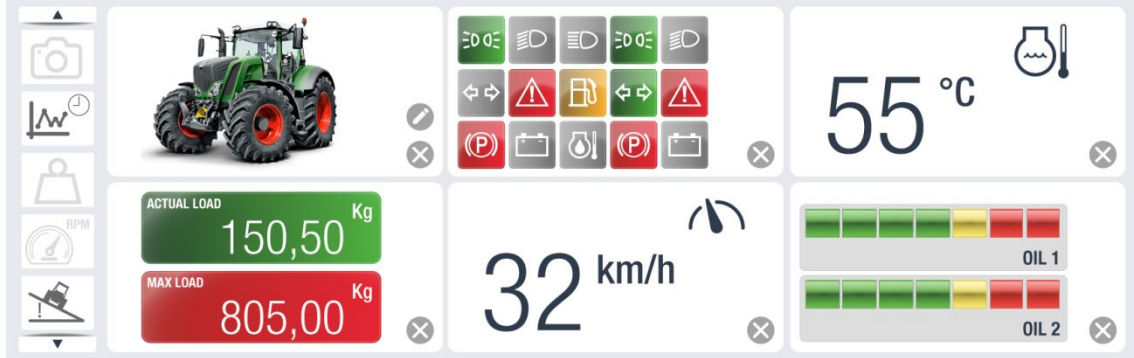
In the **info** section, it is possible to select the machine to monitor by clicking on a picture with a description of it.

Information about the last connection and GPS coordinates is also shown.

For each model, you **can configure custom items**.

The graphic representation depends on the variable type associated, so that the values are easy to understand.

Custom page example , using some details that are present on the dashboard of the car

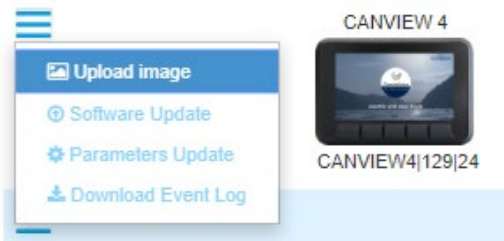


Devices

In the **Devices** section, which is defined for each machine model, reports the **COBO's devices in the CAN network**, (the settings of these devices can be done in the dedicated administrative area).

For each existing unit, it is possible to identify the name, the model and the software version

You can also **update the software** and the **device parameters** choosing the device you prefer.



Unit	Status	Line	Node ID / MDS ID	Diagnostic protocol	Upload Protocol
 CAN-Live Version: 0.0.1.12 01/08/18 07:40	Connected	-	23 / 15	CANLive	CANLive
 CANVIEW 4 CANVIEW4 129 24	Disconnected	1	5 / --	VT3	Winloader
 MIDAC + DIG CPU0 MIDAC_PLUS_CPU0 74 14	Disconnected	1	1 / 14	MDS	Winloader
 MIDAC + DIG CPU1 MIDAC_PLUS_CPU1 74 16	Disconnected	1	2 / 13	MDS	Winloader

Real Time Monitor

In the **Real Time Monitoring** section, it is possible to ask for information to COBO's device about some variables, you will receive real-time feedbacks.

Customer can **create custom Variable Groups**, sorting and associating descriptive labels.

A **Play icon** gives the possibility to start a Real Time Monitoring session.



INFO DEVICES **REAL TIME MONITORING** CAN SNIFFER DATA LOGGER

Real time check machine
Start real time session in order to see what's happen now in your machine.

Search

+ CREATE NEW DATASET

	Variables Group Name	Variables Number	Show in info
	alarmPresence_CIT	2	false
	Alarm_Page	3	true
	BatteryVariable	4	false
	Battery_And_Engine_Data	11	true
	Boat_Options	12	true
	Charger_Data	10	true
	Date Time	5	false
	FlagAlarm	20	false
	FlagAlarm_1	10	false
	Home	20	true

Page 1 of 13

Showing 1 - 10 of 128 results.

10 Items per Page

← First Previous Next Last →

Data logger

In the **Data logger** section, it is possible to collect information about the machine via the CAN-Live control unit,

The **creation of a data logger** is described step by step, enabling the Customer to choose:

- Typology (temporary or standard)
- Variables / triggers at the occurrence of certain conditions
- Time period (indication of the sampling period)

The data logger can be represented in **tabular or graphical form** depending on customer needs.

INFO DEVICES REAL TIME MONITORING CAN SNIFFER **DATA LOGGER**

Collect data from machine
See the data collected from the machine during the working life.

Status: Datalogger Type: [Filter](#) [Reset](#)

[+ ADD DATALOGGER](#)

NAME - DESCRIPTION	TYPE	STATUS	DATASET	START DATE	END DATE	TOKEN	DEFAULT
Datalogger v1.12	Event Log (EL)	Registered	Home	--	--	20955081	<input type="radio"/>
		Closed	Main Page	--	--	19592953	<input type="radio"/>
		Ready to register	Home	--	--	--	<input type="radio"/>
		Closed	--	--	--	18879389	<input type="radio"/>
Datalogger v1.5	Event Log (EL)	Closed	--	--	--	18784016	<input type="radio"/>
Datalogger v1.4	Event Log (EL)	Ready to register	--	--	--	--	<input type="radio"/>
Datalogger v1.3	Event Log (EL)	Closed	--	--	--	18418760	<input type="radio"/>
Datalogger v1.2	Event Log (EL)	Closed	--	--	--	18418652	<input type="radio"/>

Page 1 of 1- 20 Items per Page- Showing 8 results.

[← First](#) [Previous](#) [Next](#) [Last →](#)

CAN Sniffer

CAN Sniffer section allows to collect, record and display a series of CAN messages that pass through 2 CAN lines.

CAN Sniffing Standard displays in real time the values you have decided to collect (maximum 10 can variables)

INFO DEVICES REAL TIME MONITORING **CAN SNIFFER** DATA LOGGER

Can messages check
Start a Can Sniffer session in order to see the can messages.

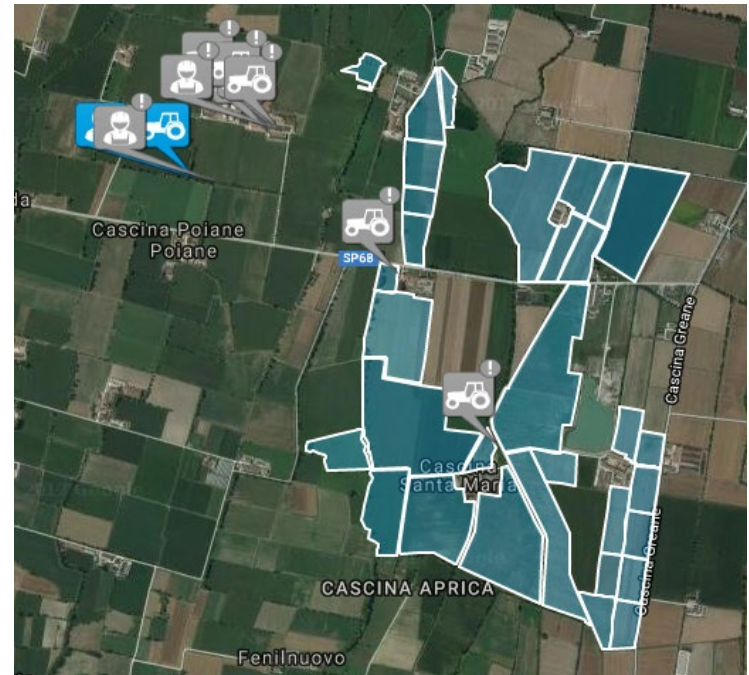
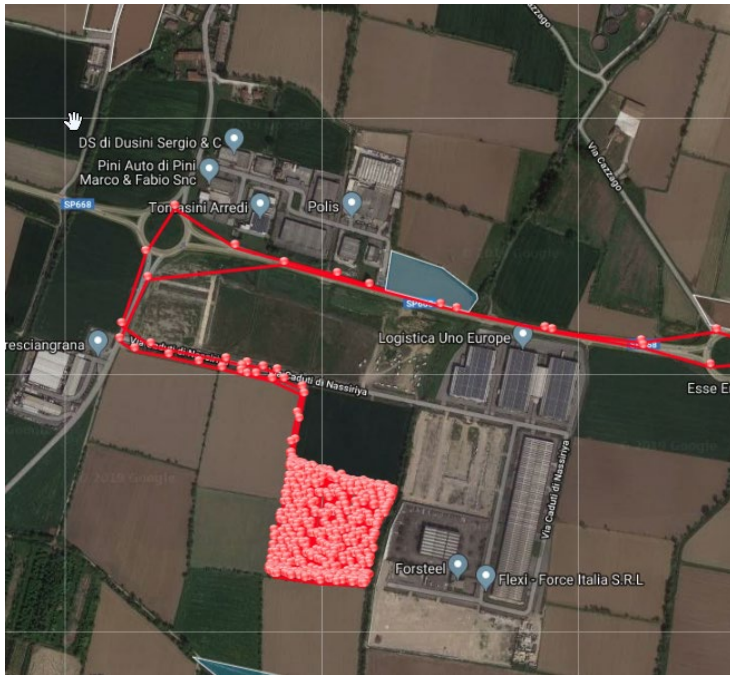
▶ START CAN SNIFFER

CAN Messages

Message ID Standard Line 1 +

Message ID	Type	CAN Line
0x105	Standard	Line 1
0x00000106	Extended	Line 1
0x110	Standard	Line 1
0x107	Standard	Line 1
0x00000105	Extended	Line 1
0x00000109	Extended	Line 1
0x00000115	Extended	Line 1
0x00000188	Extended	Line 1
0x00000125	Extended	Line 1
0x00000101	Extended	Line 1

Monitoring and mapping working areas



Geo-fencing Alert

Enables you to set Geofences, or a virtual perimeter around your machines.
Fleet owners to draw zones around the location where your machine is working.

If your machine crosses the Geofence the system triggers an alert notification that is sent to the owner by e-mail

Geofencing



1
Hysteresis Minutes
30
Accelerometer Seconds

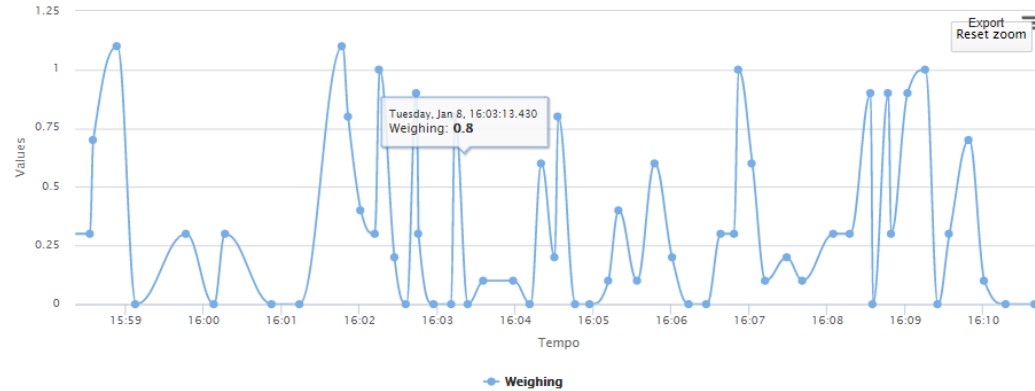
Jhon@cobointouch.net
Email (comma-separated list)
+4412654489669
Phone (comma-separated list)

Join

Vehicles statistics

Weighing

Date Range



Show entries

Search:

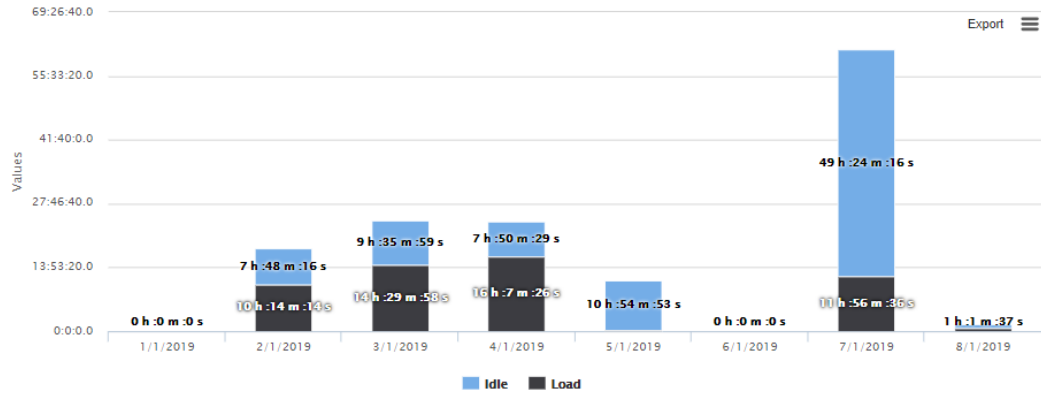
Event	Date	Weighing
1	8/1/2019 01:06	0.9
2	8/1/2019 01:07	0
3	8/1/2019 01:07	0.2
4	8/1/2019 01:07	0.4
5	8/1/2019 01:07	0.8
6	8/1/2019 01:07	0

Vehicles statistics

Machine Hours

01/01/2019

025101 - MINELLI M25.10

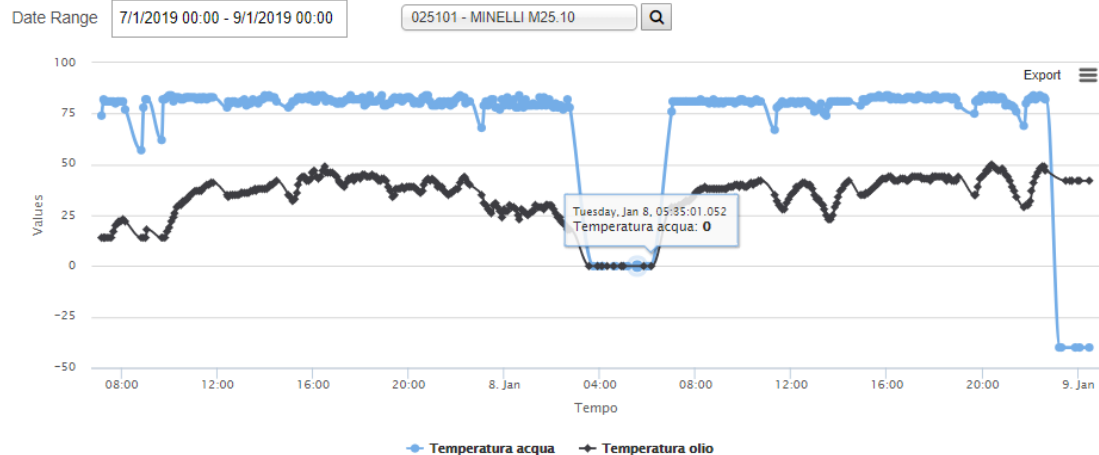


Show 10 entries

Search:

Time	Idle	Load
1/1/2019		
2/1/2019	28096430	36854494
3/1/2019	34559643	52198647
4/1/2019	28229094	58046532
5/1/2019	39293364	473419
6/1/2019		

Vehicles statistics



Show entries

Search:

Event	Date	Temperatura acqua	Temperatura olio
1	7/1/2019 07:10	74	14
2	7/1/2019 07:15	82	14
3	7/1/2019 07:20	81	14
4	7/1/2019 07:25	81	14
5	7/1/2019 07:30	81	14
6	7/1/2019 07:35	81	14

Management Costs


Operating Costs Management

Based on the machine selection it is possible to retrieve the operating costs

Select Period

1/1/2019 - 14/1/2019






Select Machine

 R&D fw live test - R&D fw live test



Cost Management

Cost Summary

Date	Cost Type	Notes	Cost	Attached File 	Action
Rows per page 5 0 di 0 					
Date	14/1/2019		Cost Type	Cost	Upload a file (jpg/jpeg/png/pdf) 
Notes	0 of 140 characters 				
Save		Reset			

- Welcome
- Report
- Agri
- Management costs
- Maintenance

Maintenance management

List of expiring maintenance Historical interventions

Search by means

Choose machinery

Personal information

Macchina	Date
GIO	1/1/2017
Machine serial number	Working hours
18136600164_TEMP	0

List of deadlines for maintenance and notices

Reset

Maintenance	Deadlines	Last intervention	Last intervention notes	Notifications
Expiry date dm maintenance	12/11/21	12/12/18 usercobointouch		<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Expiry date annual maintenance	1/2/18			<input checked="" type="checkbox"/> <input type="checkbox"/>
Expiry date quinquennial maintenance	1/2/22			<input checked="" type="checkbox"/> <input type="checkbox"/>

Export CSV

Vehicles and operator statistics *(working Hours and Fuel consumption)*

Welcome

Dashboard

Statistics

HOURS & FUEL

Statistics

Admin My Sites 0 Paolo Moreo

select 09/01/2018 09:49 09/12/2018 01:30

DASHBOARD VEHICLE

WORKED HOURS & FUEL CONSUMPTION

Mezzo	Attrezzo Front	Attrezzo Rear	Operatore	Area	Proprietario	hh:mm	Lt
			7				
John Deere 8335 R	--	Ripuntatore Mainardi	7	--	--	00:52	27.14
John Deere 8335 R	--	Ripuntatore Mainardi	7	18+19	Cascina Santa Maria	39:56	1088.05
John Deere 8410	--	Carro Valzelli	7	--	--	00:27	0.00
John Deere 8335 R	--	--	7	--	--	00:00	0.03
John Deere 8335 R	--	Ripuntatore Mainardi	7	Campo 23	Cascina Santa Maria	10:40	161.42
John Deere 6020	--	--	7	10	Eugenio	00:02	0.06
John Deere 6020	--	--	7	13	Eugenio	01:20	1.82
John Deere 8335 R	--	Ripuntatore Mainardi	7	18+19	Cascina Santa Maria	01:33	39.84
John Deere 8335 R	--	Ripuntatore Mainardi	7	--	--	00:28	2.41
John Deere 8335 R	--	Ripuntatore Mainardi	7	STALLONE	Eugenio	04:26	171.82
John Deere 8410	--	--	7	--	--	00:47	0.00
TOTAL						60:31	1492.59

25 50 100 200 500 1000

Advantages



Cost savings and increase of productivity can be reached in all the fields of application



Timely technical assistance in case of unexpected events. The machines are remotely monitored



Technical health maintenance can be scheduled in a more efficient way



A more flexible approach with Warranty, providing the possibility to check the real fault of replaced components



Upload of statistical information provides useful indications to improve the management of the machineries

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