

Intelligente Transport Systemer (ITS) for Godstransporten

Bengt-Åke Claesson
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Logica's Corporate Responsibility Programme



CARBON DISCLOSURE PROJECT



FTSE4Good



Sustainability Leader

A Dow Jones Sustainability Index member (Europe)
Ranked on the Carbon Disclosure Project leadership Index for 3 consecutive years

"A" Level GRI Corporate Responsibility Reports

Published Level A Reports in line with
Global Reporting Initiative guidance since 2009

Awards

Sunday Times Top 100 Green Company for 4
consecutive years
2011 Global 100 Company

Standards

United Nations Global Compact signatory
Carbon Trust Standard company
53% of employees work at ISO14001 sites

Smart Logistics

Monitor the movement of fleets, freight and logistics services providers, providing feedback about items location

Track & Trace

Freight Status
Information
(LIFT)

Onboard
Status
Monitoring
(EMO)

Asset
Management

Transport
Management
Systems

You need to...

- Keep track of your assets, ensuring maximum capacity utilisation is being achieved
- Receive real-time updates on the status of your assets

Using...

- Tried and tested, highly accurate methods of tracking incorporating RFID / GPS solutions
- Bespoke, integrated solutions, designed to help you get the most out of your assets

To help you...

- Manage your assets efficiently and to a high degree of operational safety
- Improve customer satisfaction, benefitting from improved delivery times and increased levels of security

As we have done for...

- [RailCorp](#), [EURIDICE](#), [Eurotunnel](#), [City of Helsinki Health Department](#), [Helsinki Fire & Rescue Department](#), [Aéroports de Paris](#), [Airbus](#), [KLM](#), [NS Dutch Railways and ProRail](#), [ProRail](#), [VOS Logistics](#), [FlyToGet](#), [Network Rail](#), [ODA](#), [RAC](#), [ThomsonFly](#), [SNCF](#)

One thing could be My Car

If my car could talk what would it say.....

**Your
emissions**

**If you
would ..**

**You have
consumed**



My car do talk to me, in my phone, on Facebook ...

EMO

By improving our your driving behavior you will get reduced CO2 emissions and improve fuel efficiency

Logica EMO Brief Solution Description

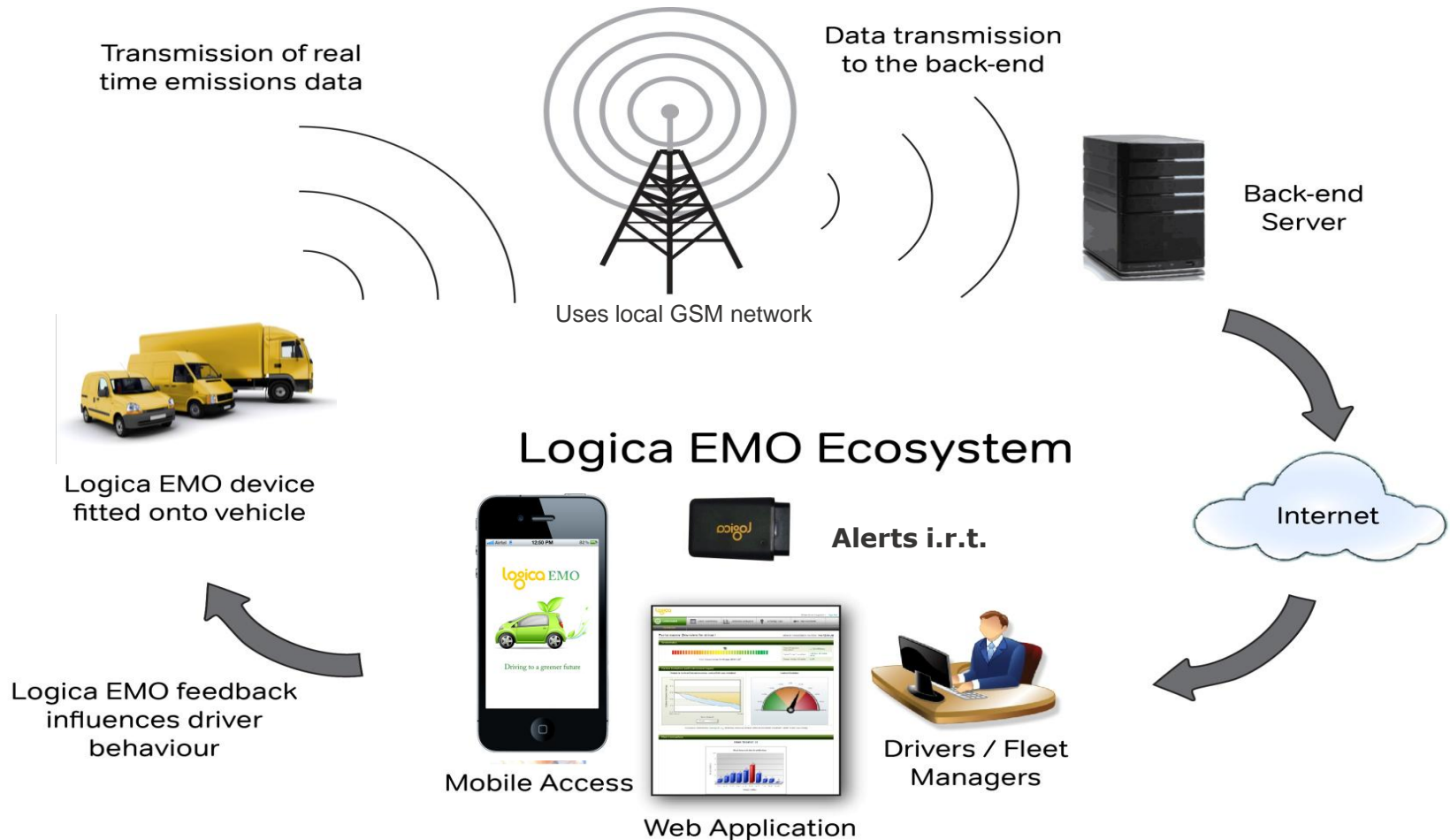
- **Logica EMO is a solution to monitor driving behavior and report its impact on carbon emissions**



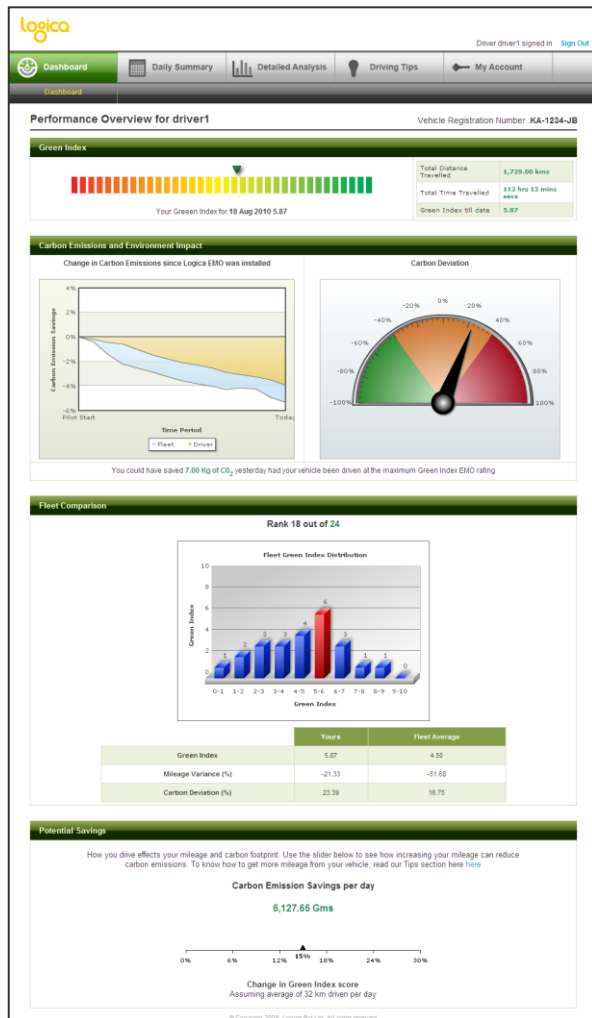
- Technically, it is an onboard device
 - captures vehicle emissions in real-time under actual driving conditions
 - enables continuous monitoring of vehicle emissions
 - enables customized acoustic feedback to the driver
 - transmit captured data wirelessly to a backend system.
- ...and a backend system
 - Receives, stores and analyzes driving related information
 - Presents the analysis back to the end users as an easy-to-understand, customizable report
 - provides a platform for offering incentives for green driving behavior

Logica EMO Ecosystem

Real time monitoring of driver behavior, fuel consumption, carbon emissions, diagnostics health checks



Driver Login – Dashboard Display



View individual Green Index score



See Fuel Consumption and Carbon Emission trends over a period of time

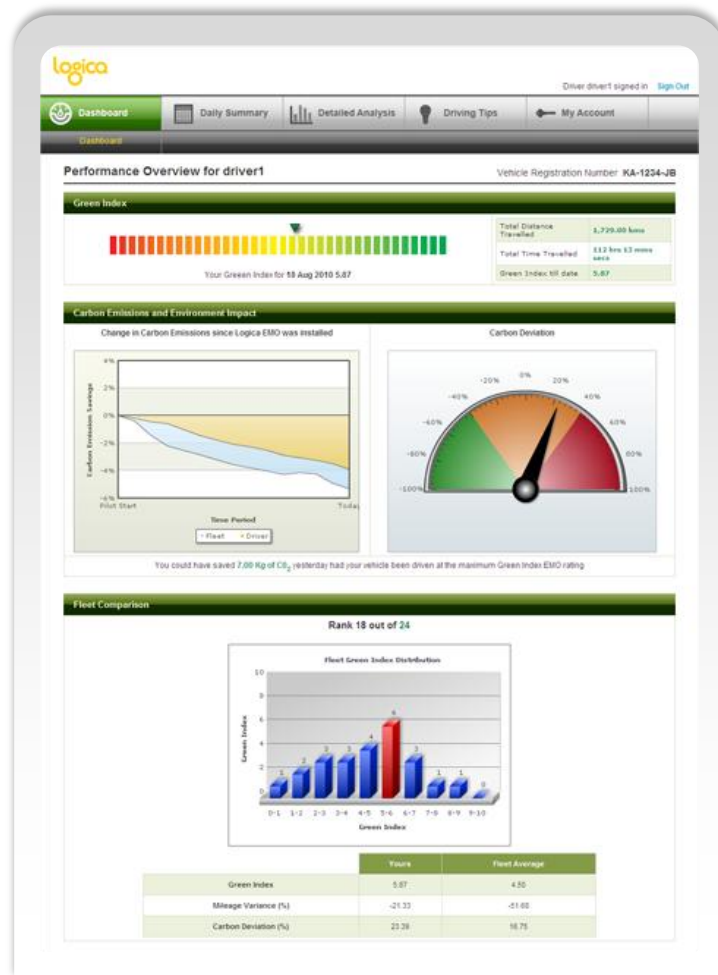


Compare individual performance with that of the Fleet on various parameters such as Green Index score, Carbon emissions and fuel consumption



Interactive carbon emissions savings calculator – Understand how change in driving behavior can reduce carbon footprint

Logica EMO Innovative Technology helps to



reduce CO2 emissions

- become the lowest carbon footprint fleet

improve driving behavior

- real-time audible alerts to the drivers to help change driving behavior
- EMO Green Index rating provides an easy to understand measure of driving behavior
- targeted feedback and step-by-step tutorials on driving behavior to improve driving patterns

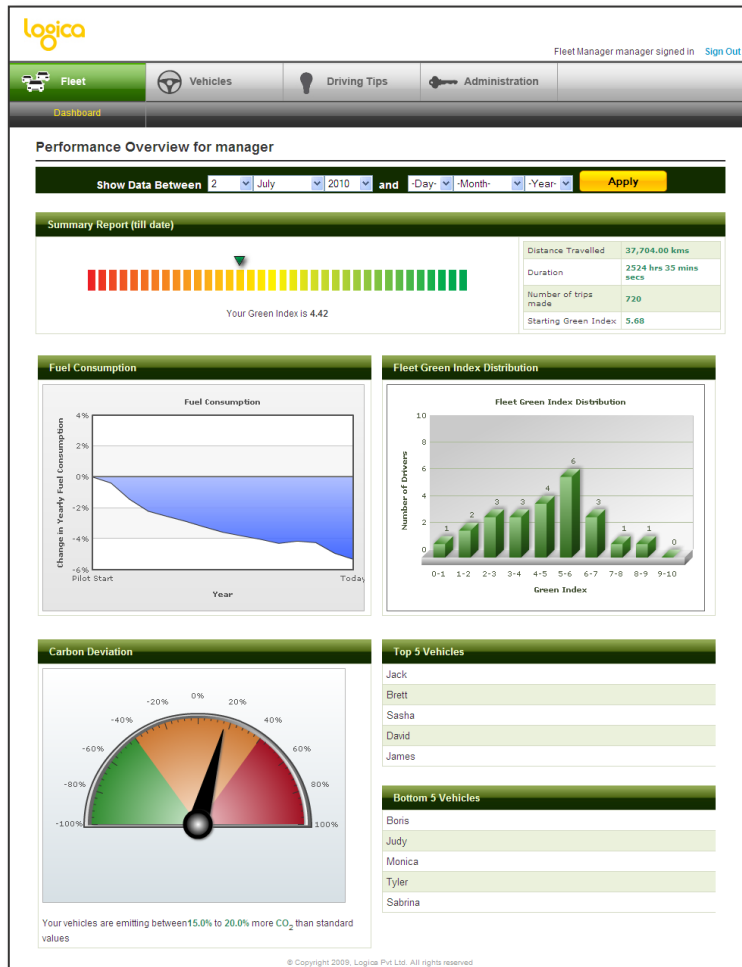
improve fuel efficiency

- with improved driving behavior reduce fuel costs by up to 15%

precise engine diagnostics

- a well maintained vehicle runs better and saves better
- remote emissions check

Fleet Manager Login – Dashboard Display



➡ View Fleet Green Index score and statistics

➡ Understand fuel savings, carbon emissions reduction and overall fleet performance

➡ View top 5 and bottom 5 drivers and carbon emissions

Fleet Manager view



Fleet Manager manager signed in [Sign Out](#)

| | | | |
|----------------|--------------------|---------------------|----------------|
| Fleet | Vehicles | Vehicle Diagnostics | Administration |
| Vehicle Report | Weekly Rank Report | | |

Driver's Weekly Rank Report

Showing data for:2011-05-08 to 2011-05-14

| Driver Name | Distance in km | Duration | Carbon Deviation (%) from manufacturer standard values | Hard Accelerations per 100 km | Hard Brakes Per 100 km | Percent Idling Time | Percent time at high speeds | Litres of fuel consumed per 100 kMs | Green Index | Rank |
|----------------|----------------|-----------|--|-------------------------------|------------------------|---------------------|-----------------------------|-------------------------------------|-------------|------|
| Pedro Carvalho | 909 | 10h 39min | ● -14% | ● 0 | ● 2 | ● 0% | ● 54% | 5.97 | 9.22 | 1 → |
| Maria Lopes | 223 | 5h 6min | ● -16% | ● 2 | ● 9 | ● 1% | ● 16% | 4.87 | 9.03 | 2 ↑ |
| Paulo Barros | 349 | 5h 56min | ● -8% | ● 1 | ● 2 | ● 1% | ● 32% | 7.74 | 9.03 | 3 → |
| Mario Peres | 1,598 | 16h 18min | ● -11% | ● 1 | ● 0 | ● 2% | ● 71% | 5.13 | 8.92 | 4 ↑ |
| Miguel Veiga | 1,267 | 16h 4min | ● -4% | ● 1 | ● 4 | ● 3% | ● 55% | 5.39 | 8.79 | 5 ↓ |
| Jaime Sousa | 1,170 | 17h 1min | ● -5% | ● 0 | ● 1 | ● 11% | ● 49% | 4.13 | 8.59 | 6 ↑ |
| Antonio Matos | 833 | 15h 19min | ● 11% | ● 0 | ● 7 | ● 5% | ● 27% | 4.76 | 8.42 | 7 ↑ |
| Carlos Moreira | 372 | 9h 34min | ● -9% | ● 0 | ● 15 | ● 6% | ● 14% | 5.08 | 8.36 | 8 ↑ |
| Arnaldo Reis | 768 | 10h 3min | ● -3% | ● 3 | ● 3 | ● 6% | ● 54% | 4.65 | 8.07 | 9 ↓ |
| Manuel Arnault | 149 | 2h 60min | ● -18% | ● 14 | ● 56 | ● 1% | ● 23% | 8.04 | 7.59 | 10 ↑ |
| Franco Caruso | 370 | 9h 55min | ● 0% | ● 41 | ● 68 | ● 5% | ● 10% | 5.67 | 7.12 | 11 ↑ |
| Luis Prazeres | 284 | 5h 35min | ● 28% | ● 3 | ● 20 | ● 1% | ● 24% | 10.2 | 6.89 | 12 ↑ |

Previous

In real life

Driving profile – Your dashboard

Performance Overview for Bengt-Åke Claesson

Vehicle Registration Number : FHF352

Show Data Between 2011-04-01 and 2011-04-06

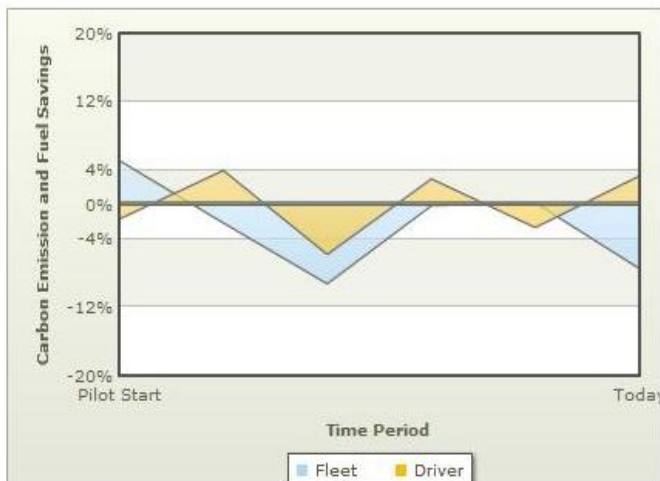
Apply



| | |
|--------------------------|----------------|
| Total Distance Travelled | 657 kms |
| Total Time Travelled | 12 hrs 16 mins |
| Starting Green Index | 6.55 |

Carbon Emissions and Environment Impact

Savings in Carbon Emissions and Fuel Consumption



Driving behaviour for previous 5 days

| | Yours | Fleet |
|--|--------|--------|
| Carbon Deviation (%) from manufacturer standard values | 22.74 | 6.00 |
| Hard Accelerations per 100 km | 17.94 | 16.05 |
| Hard Brakes Per 100 km | 20.88 | 26.75 |
| Percent Idling Time | 4.22% | 5.81% |
| Percent time at high speeds | 27.24% | 18.53% |

Legend

| Item | | | |
|-------------------------------|--------------|--------------------|------------------|
| Carbon Deviation | Less than 0% | Between 0% and 10% | Greater than 10% |
| Hard Accelerations per 100 km | Less than 30 | Between 30 and 50 | Greater than 50 |
| Hard Brakes Per 100 km | Less than 30 | Between 30 and 50 | Greater than 50 |

Feedback in smart phones – Iphone / Android



Feedback in smart phones – Iphone / Android cont...



Facebook a channel to follow driving behavior

The screenshot shows a Windows Internet Explorer browser window displaying a Facebook profile for Bengt Claesson. The browser's address bar shows the URL http://www.facebook.com/profile.php?id=1274621225&ref=nr_fr#l/. The Facebook interface includes a search bar, navigation links (Home, Profile, Find Friends, Account), and a sidebar with various features like Messages, Events, Friends, and Apps. The main content area is the News Feed, which features a post from Bengt Claesson about the Logica EMO Green Index Score. The post includes a photo of a person and a link to the Logica EMO website. The right sidebar contains sections for Upcoming Events, Find More Friends, and Sponsored content. The bottom of the browser window shows the Windows taskbar with various open applications and the system clock.

Facebook - Windows Internet Explorer

http://www.facebook.com/profile.php?id=1274621225&ref=nr_fr#l/

Windows Live Bing Senaste aktivitet Profil E-post Foton Kalender MSN Dela Logga in

Favorites Sverige Väder - Väderprog... Suggested Sites Ladda ned

Claesson, Bengt-Åke - Out... Facebook Logica EMO

facebook Search Home Profile Find Friends Account

News Feed Top News · Most Recent

Share: Status Photo Link Video Question

What's on your mind?

Bengt Claesson
is using Logica EMO. He has saved 3.7 trees and 46.44 kgs of carbon till date using Logica EMO. His Green Index drivers rating is 4.50.

Green Index Score
The Logica EMO Green Index score
Logica EMO helps reduce vehicular pollution through better driving. To know more about Logica EMO, visit www.logica.com/emo

a few seconds ago via Logica EMO · Like · Comment

See 1 more post from Logica EMO

Roger Gardell
Lunch! — at Puls.
15 minutes ago via mobile · Like · Comment · Add Category

Ulrica Karlsson Är det bra mat där????
about a minute ago · Like

Write a comment...

Rossy Dark Rose
It feels like time is no passing today... Still two hours to go home!
33 minutes ago · Like · Comment

Upcoming Events See All

What's the event?

Royal Republic @ Östersjö...
Saturday, November 19 at 8:00pm
RSVP: Yes · No · Maybe

Find More Friends

Bengt, More Friends Are Waiting

These 3 friends found their friends using the friend finder. Have you found all of your friends? Give it a try.

bengt_claesson@hotmail.com

Find Friends

Sponsored Create an Ad

Följ med mig på bio!

Du kan vinna M&M's och biobiljetter varje vecka. Tävla här!

Internet | Protected Mode: On

5 M... 2 In... 3 M... 3 A... 2 M... beton... 3 M... 2 W... Wind... SV 100% 13:23



Evidence

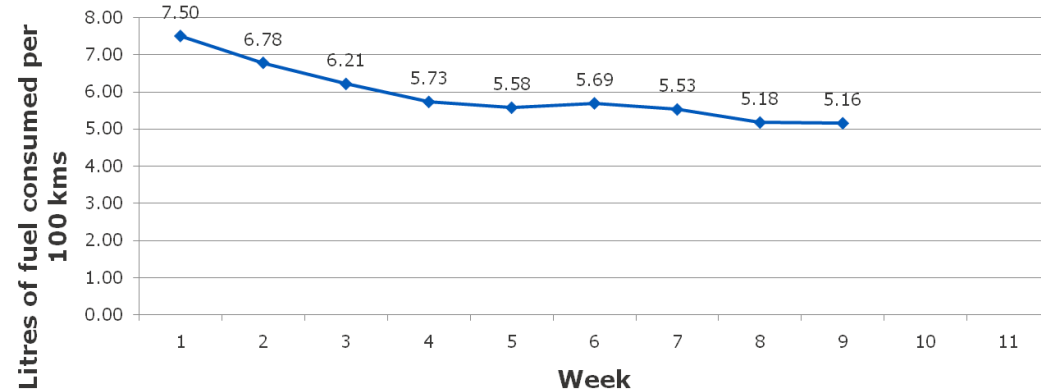
Success Story

GALP Energia



12%
**Reduction in Carbon
Emissions**

**Logica EMO Fuel Consumption Trend over Time
(GALP)**



- GALP is Portugal's leading energy services provider
- Logica ran a successful pilot with over 20 vehicles for 3 months
- Based on the success of this pilot, Logica has signed a multi-year deal with GALP, which include selling EMO to GALP and GALP's customers.
- EMO has been made part of the SMARTGALP program to provide energy saving solutions to its customers

€33
**Fuel saved per driver
per month**

Success Story

Rallye Aïcha des Gazelles 2010 and 2011

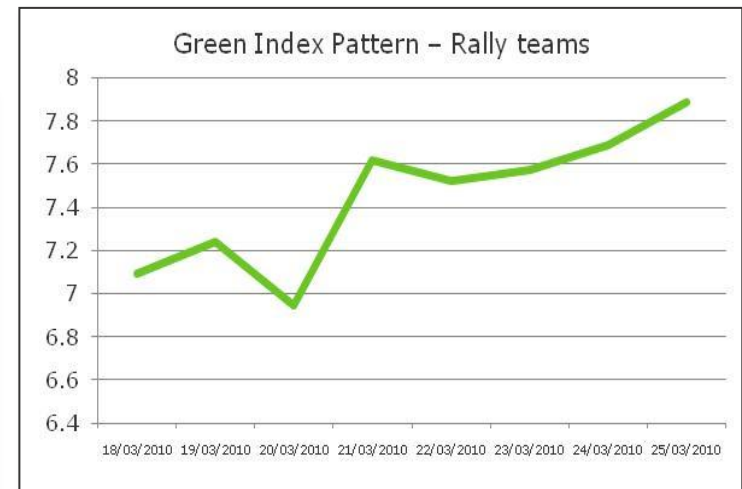


10.5%

**Reduction in Carbon
Emissions**

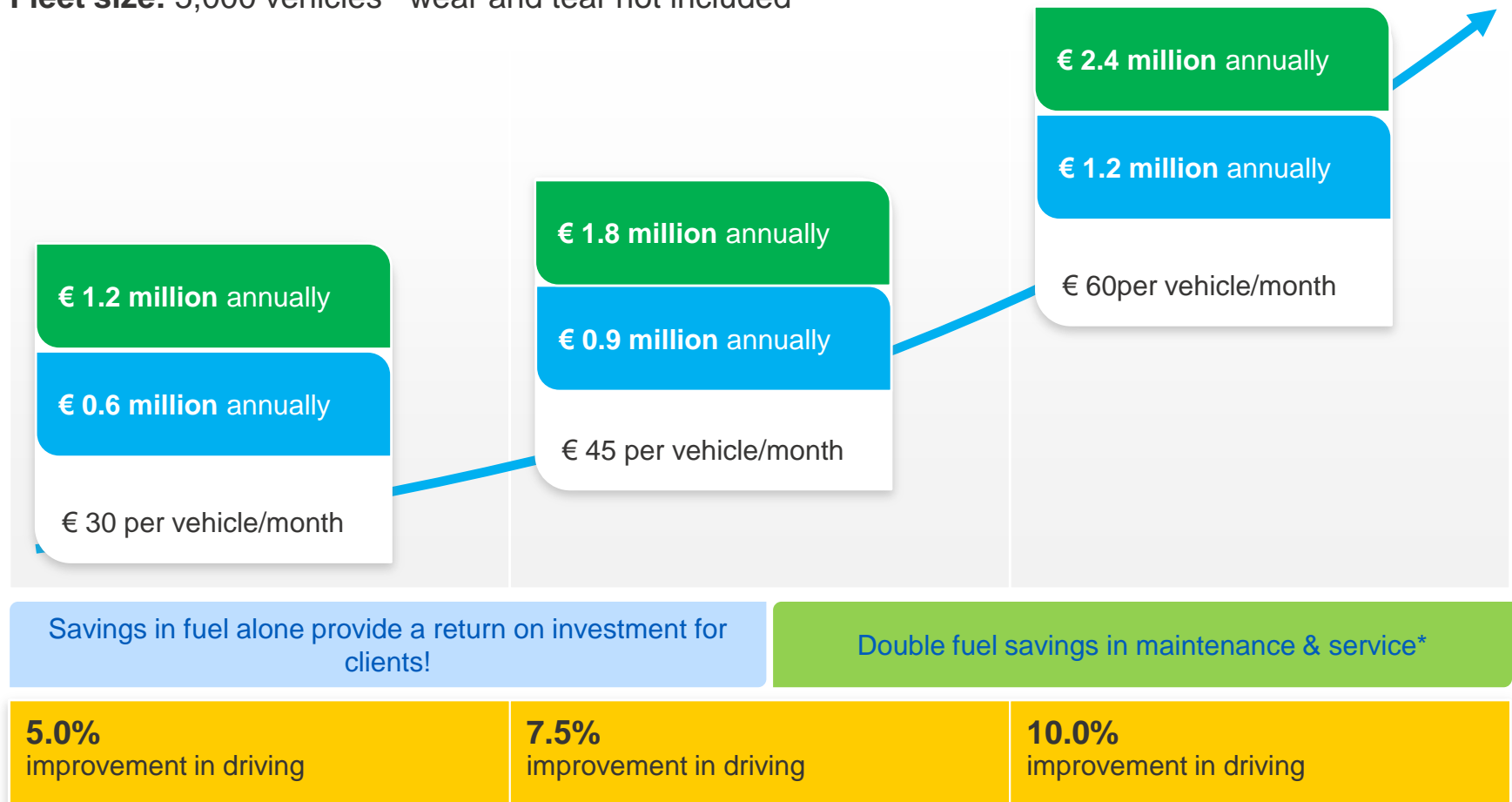
**1,041 litres
Fuel Saved**

- The rally is an all-female event held yearly in the deserts of Morocco, which awards winners based on their eco-driving behaviour.
- Logica EMO is the official partner in the Rallye for measuring carbon emissions of the participants. It is the only sporting event in the world to have a prize for Green Driving
- Use of Logica EMO helped Rallye participants to not just drive more eco-friendly but also win the race



Average annual savings from improved driving behaviour with EMO

Fleet size: 5,000 vehicles – wear and tear not included



(i) Light trucks, passenger cars (*) according to PREEM study on ECO driving behaviour

Awards EMO



One of the Top 10 Game Changing Innovations in Climate Change



Top 5 Innovations in Transportation in 2011

NASSCOM[®]

Top 5 Innovations in new technology



Top Innovation by a young team

Golden Peacock Award for Innovative Product / Service



zerofootprint[™]

Logica algorithms validated by Zerofootprint, a leader in sustainable solutions

MEG-Track & trace

Features at a glance

User-friendly graphic user interface (GUI): uses maps to clearly display real time information about current status of the vehicle, vehicle position and movement.

Maps: trace vehicle movement for previous journeys and displays the exact path travelled on the map.

Reports: summarise the total distance travelled and duration on a day wise basis.

Routes: easily configures routes to ensure that vehicles run as per allotted route and timings.

Alerts: ensure that vehicles travel on configured paths; raise signals when vehicles reach their destination or cross a particular location.

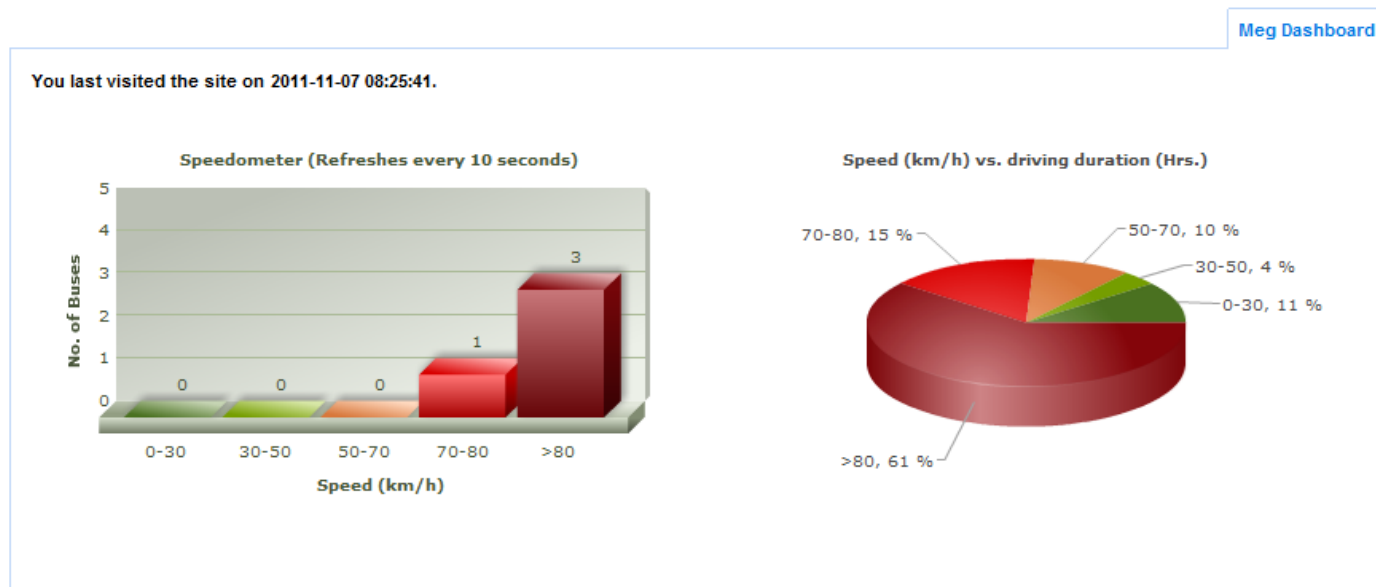
Dashboard: user friendly view of the current status of the fleet.

Logica MEG Brief Solution Description

- **Logica EMG is a solution to track & trace vehicles in real-time**
- Technically, it is an onboard device
 - captures GPS-data in real-time
 - enables continuous monitoring of vehicle
 - transmit captured data wirelessly to a backend system.
- ...and a backend system
 - Receives, stores information
 - Presents the analysis back to the end users as an easy-to-understand

MEG Dashboard

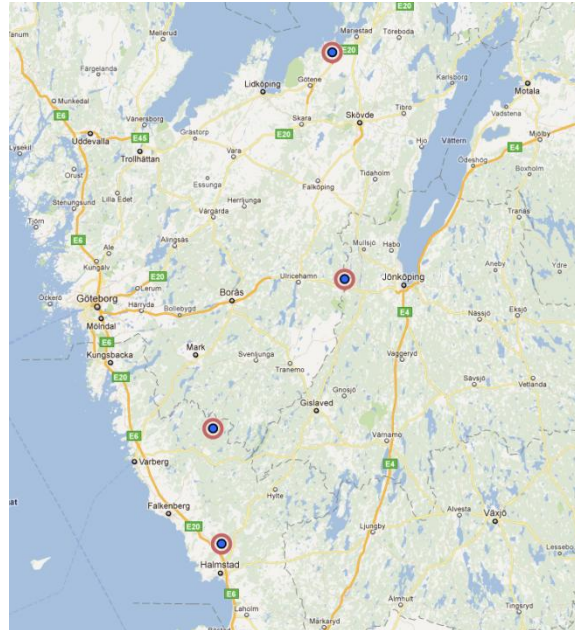
Overview of your vehicle fleet in real-time



Logica MEG

Live tracking of all vehicles

Current speed, Position, Engine on/off, Stopped, Speeding....



Manage routes

Create route and find out whether a vehicle is following the route

Available Routes

Manage Route

Available Driving Routes

Route Code *

Select Route Code

View Stops

Direction *

☐ Up ☐ Down

Status

Up Down

Effective From

Effective Till

Description

Modify

Clone Route

Delete

Detach Map

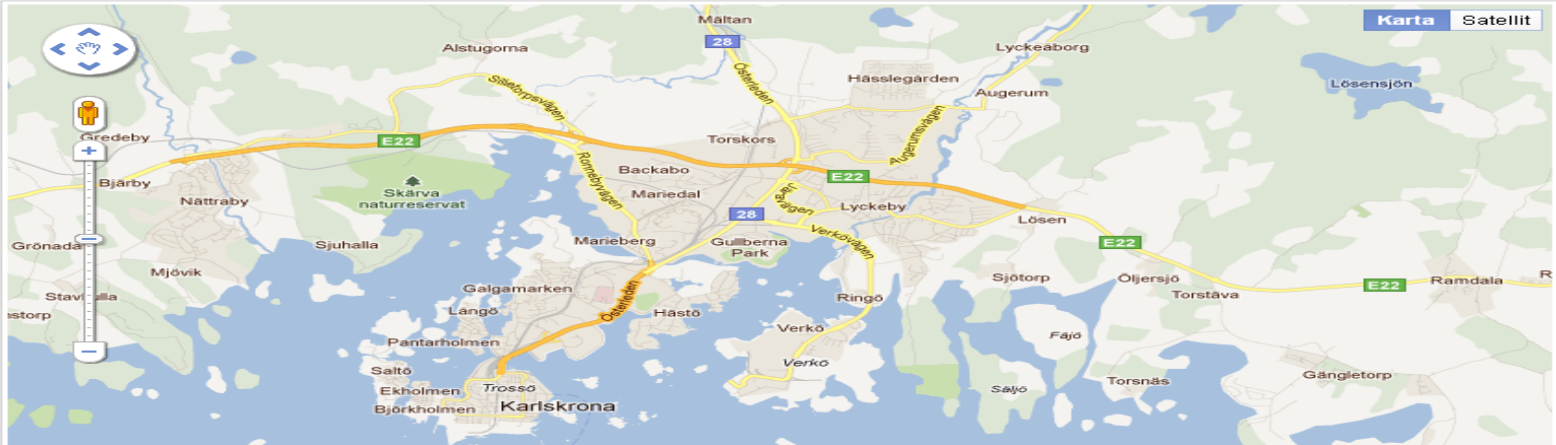
Return Route

Change state

(*) indicates mandatory fields

Karta

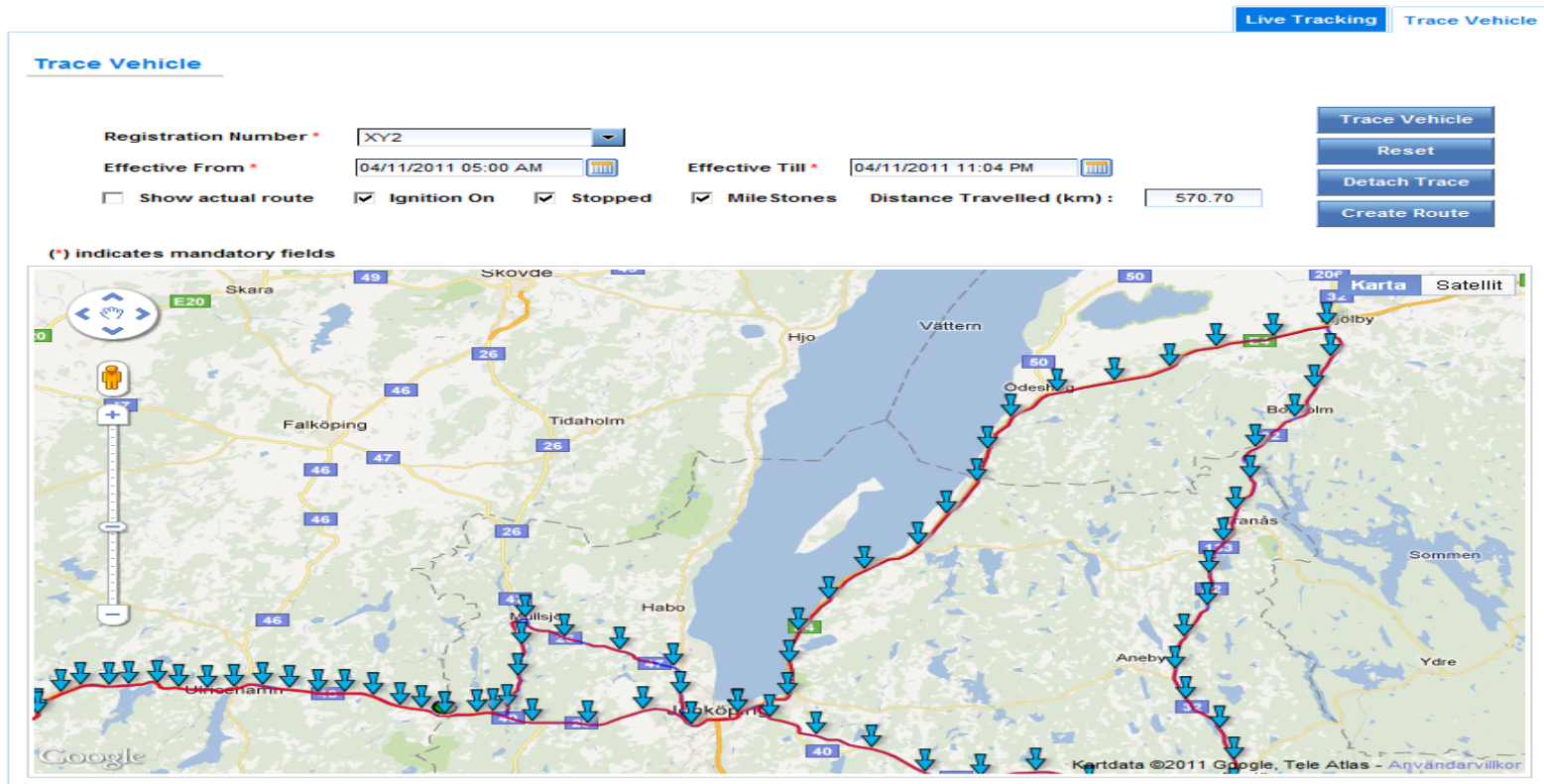
Satellit



Logica MEG

Trace vehicle

Current Route, Distance travelled , Stopped → When and where, Milestones



Thank you

