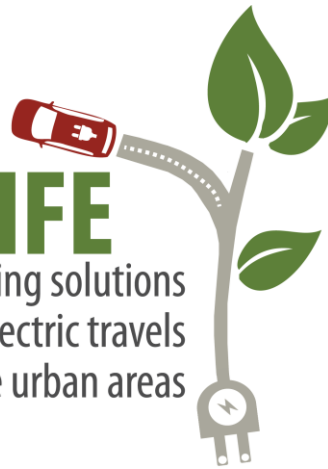


I-SharE LIFE
 Innovative sharing solutions
 for full electric travels
 in small and medium size urban areas



This project has received funding from European Union's
 Life Programme under Grant Agreement
 N° LIFE 17 ENV/IT/000212 I-SharE LIFE

How ICT in Car Sharing can improve Smart Cities mobility

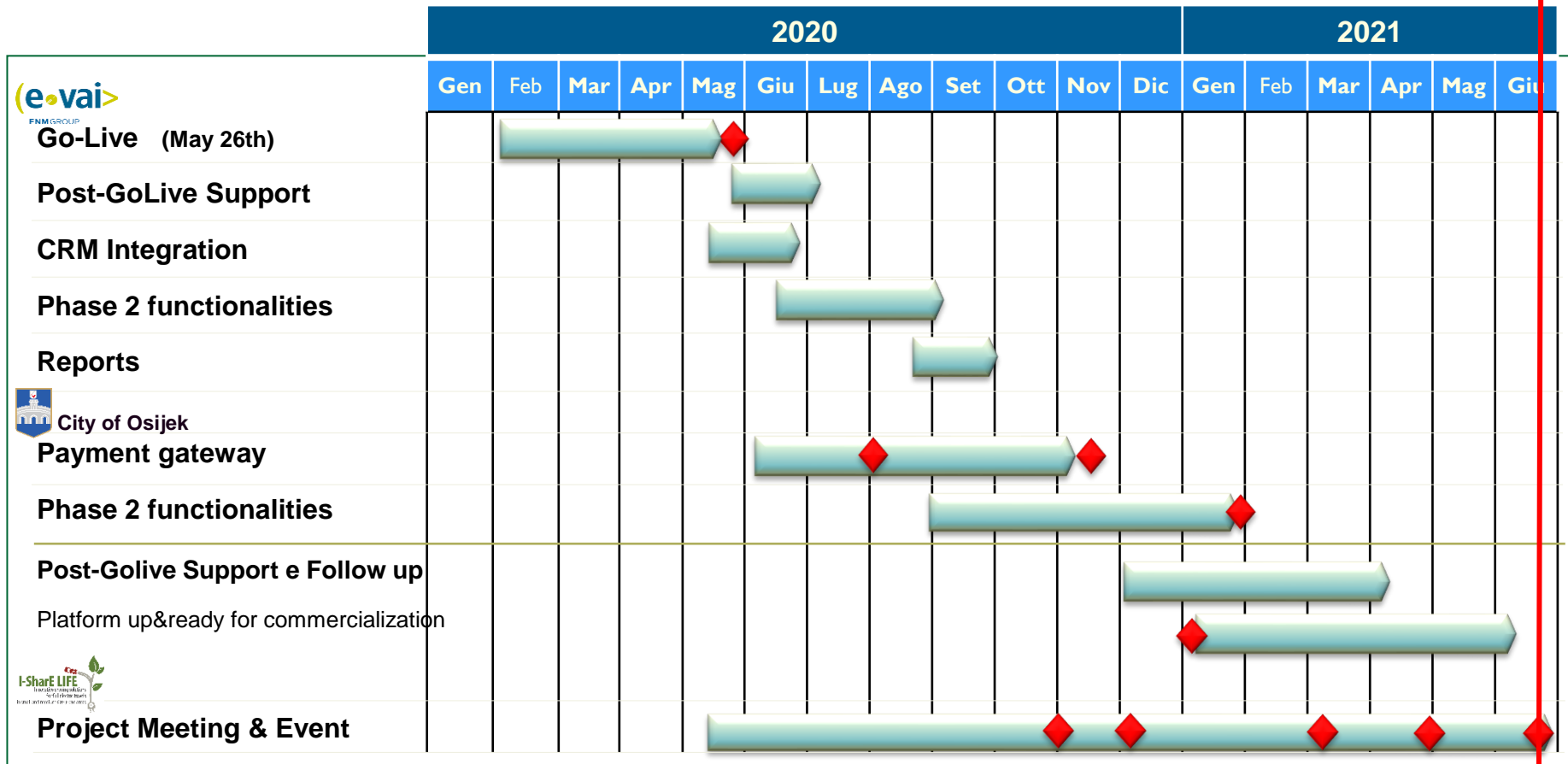
Dott. Marco Lupi
Service Delivery Mngr - Nordcom



ONLINE FINAL DISSEMINATION EVENT
 23RD JUNE 2021



I-Share Project Plan Overview Q2 2020 – Q2 2021



Milestone

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Goals & Premise

I-SharE LIFE

Innovative Electrical Car sharing Model to optimize vehicle usage within 24h in a mix between different users/drivers (commuters, citizens, public and private companies)

Technological platform

It plays a key role in pursuing project goals. Nordcom has been responsible for the creation and, subsequently, for managing the operation of the platform.

Project challenges

Solution Contingency

Nordcom focused to merge technical solution and stakeholder requirements, and i-Share Life fundamentals:

design, usability, modularity, benefits for the environment, centrality of the traveler / service user.

Persistence over time

Nordcom has also given great importance to the aspect of the persistence of technological choices with a view towards efficient evolution over time: the solution must be able to evolve without forcing users to completely change the platform too often.

Adopted Solutions

System Architecture

The platform which is managing car sharing service for e-Vai and GPP-Osijek is made available in service mode (SaaS - Software as a Service).

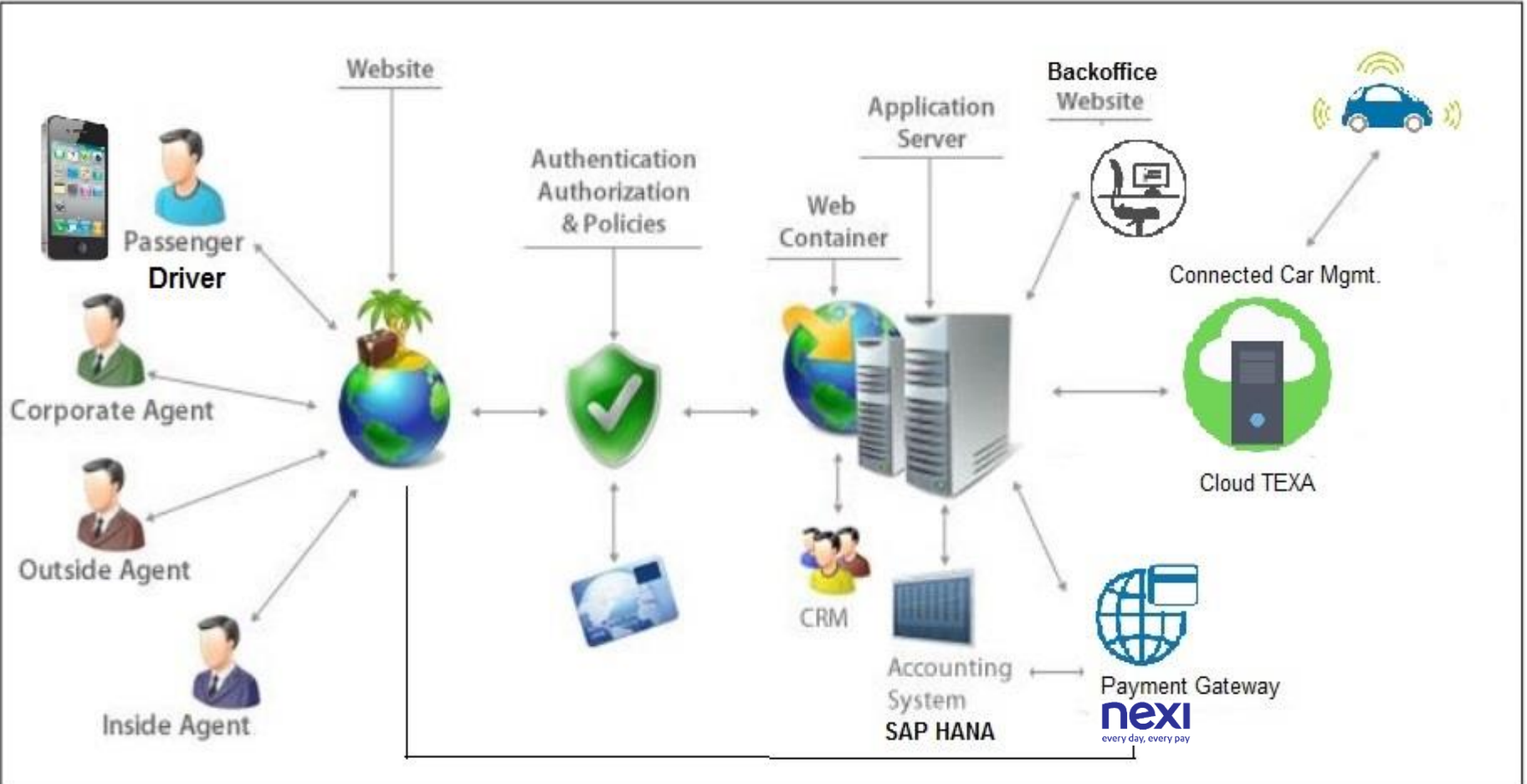
This approach, which we can consider as a state of the art for similar solutions, allow many advantages on Users/Drivers and Service Provider side.

I-SharE Technological Software components

Software components, with significant reuse of the already running IT solutions (where/when possible) are:

- ❖ Vehicle Booking app / web application (frontend/backend)
- ❖ Vehicle/Fleet management backoffice system
- ❖ Smart-list & Service Timetable for Planning Optimization
- ❖ User management system
- ❖ Operational dBase and subsequent datamart for Business Analytics, mobility and environmental analysis
- ❖ Ticket to drive/ride (fare calculator)
- ❖ E-payment and Automatic Invoicing system

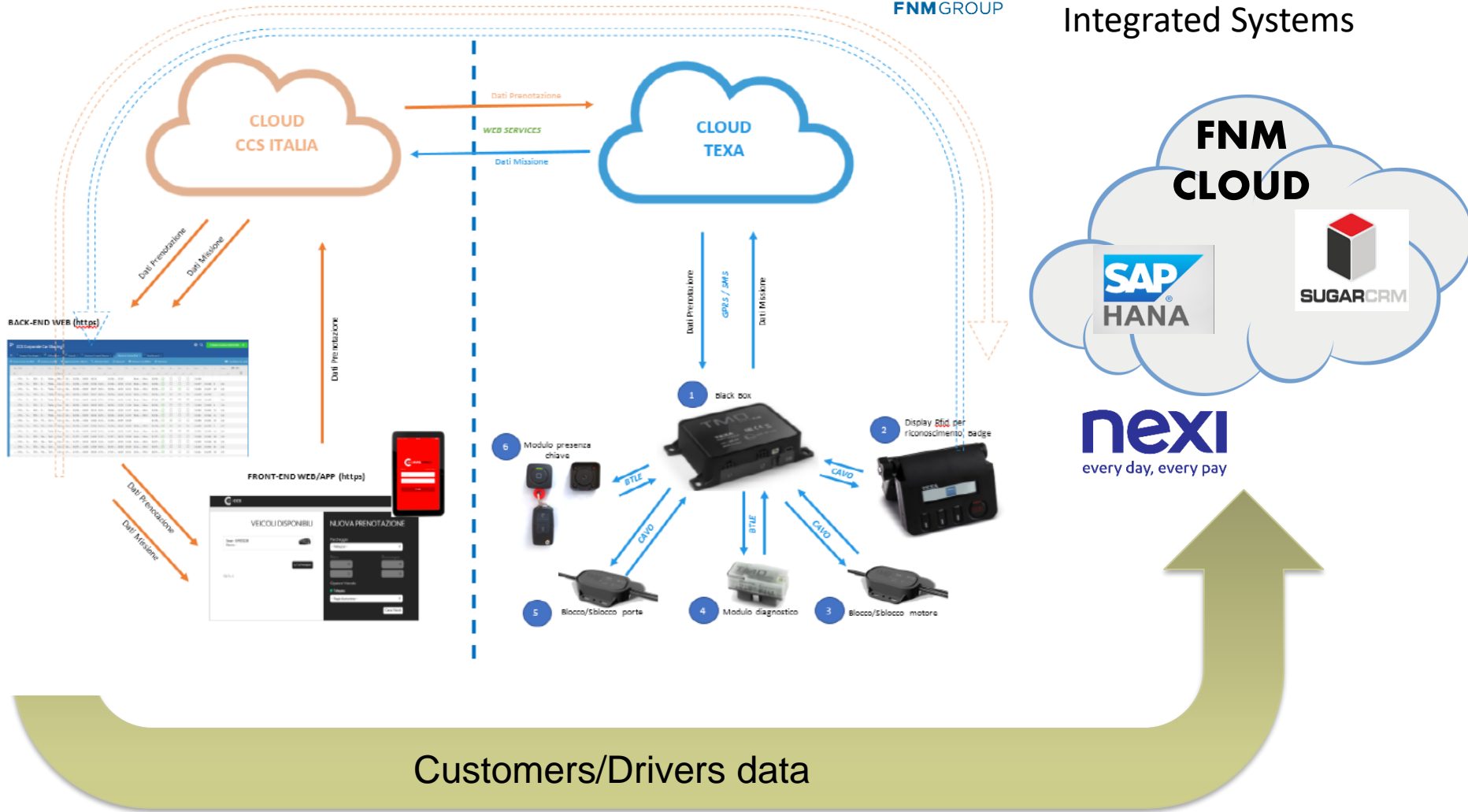
Platform Architecture



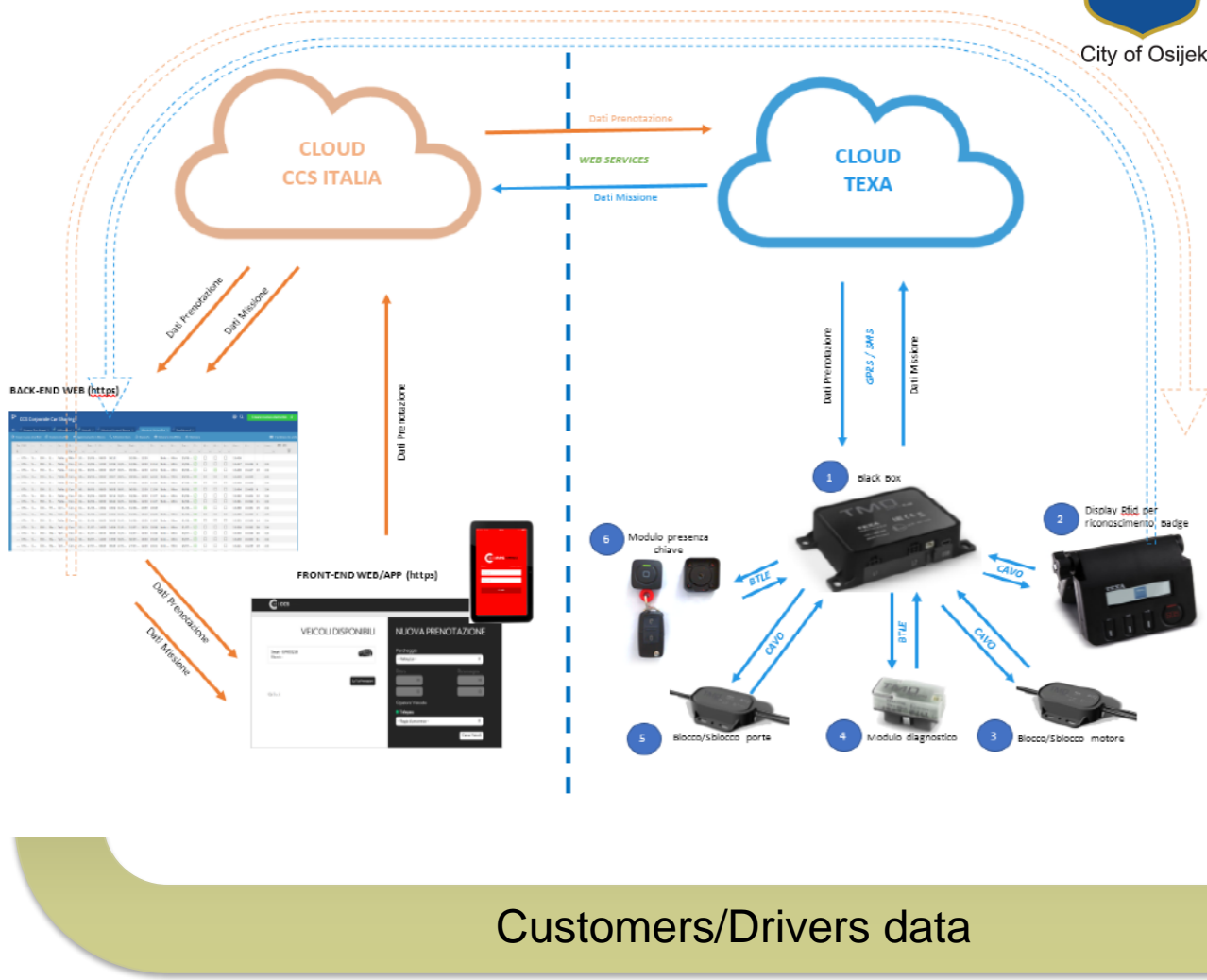
Cloud Platform Architecture (e.vai>

FNMGROUP

Integrated Systems



Cloud Platform Architecture



Integrated Systems




Customers/Drivers data

App-mobile Design: 4 steps to Book&Pay

Bookings

Bookings Notifications



Color: Blue Seats: 5

External: 😞 Interior: 😊 **95%**

Pick-Up BIOS 26/02/2021 10:00

Return BIOS 26/02/2021 11:45

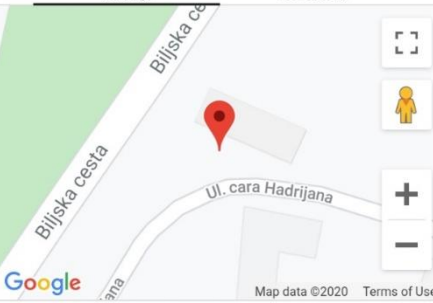
Tariff: Credit Card B2C Fix Price: **60 HRK**

[Start Run](#) [Delete](#)

8:51 AM

Booking details

Bookings Notifications



GPS Vehicle positions
Ul. cara Hadrijana 2, 31000, Osijek, Croatia

Pick-Up GPP 05/08/2020 08:49

Return GPP 05/08/2020 10:44

[Delete](#) [Reach Vehicle](#)

Potvrda rezervacije

Renault Zoe
Registarska oznaka VU554EJ

Boja: Blue Sjedala: 5

Parking za povratak: Osijek BIOS

Vrijeme rezervacije*
Odaberite vrijeme rezervacije

Pretplata: FCS - Privatno

Tarifa*
Credit Card B2C Fix

[Izbrisati](#) [Potvrđi](#)

Upozorenje

Ispunite sva obavezna polja

[OK](#)

Your booking has been confirmed

Dear **Alberto Capponi**,
your reservation is confirmed!

Following the report of your booking:

PNR: 192134192483


Pick-up parking: BIOS
Return parking: BIOS
Pick-up Date: 26/02/2021 10:00
Return Date: 26/02/2021 11:30

Plate: VU554EJ
Model: Zoe

- **Total cost:** 60,00 kuna

Warning !
We remind you that, when returning the car that you are requested, do connect the car to the charging station, in order to avoid to be sanctioned and compromise any future bookings.

Thank you for choosing GPP.

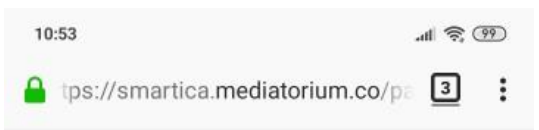


[Back](#) [Back](#) [Forward](#)

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App-mobile Design: Register & Book & Cancel



Sigurno plaćanje

Broj kartice

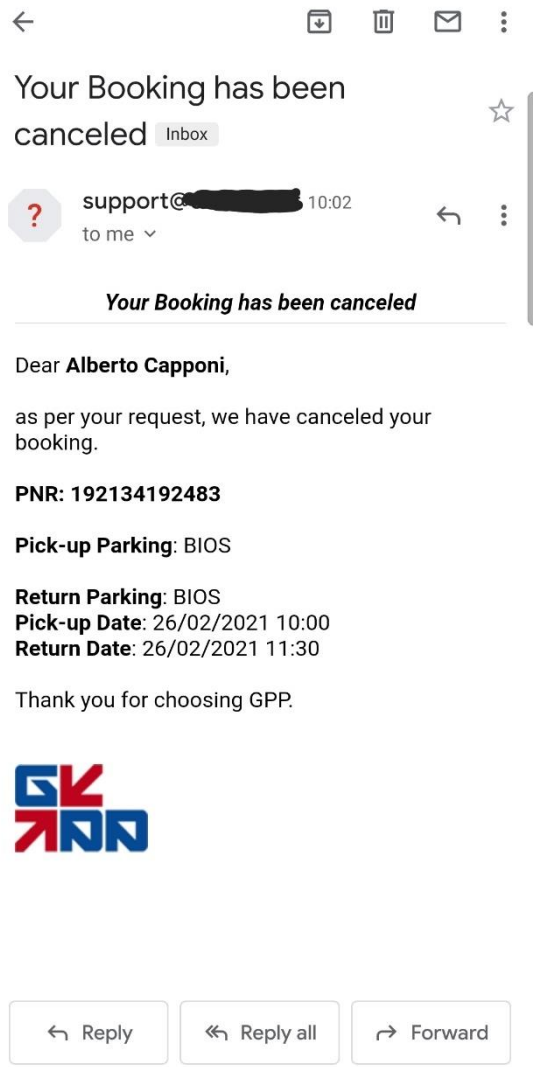
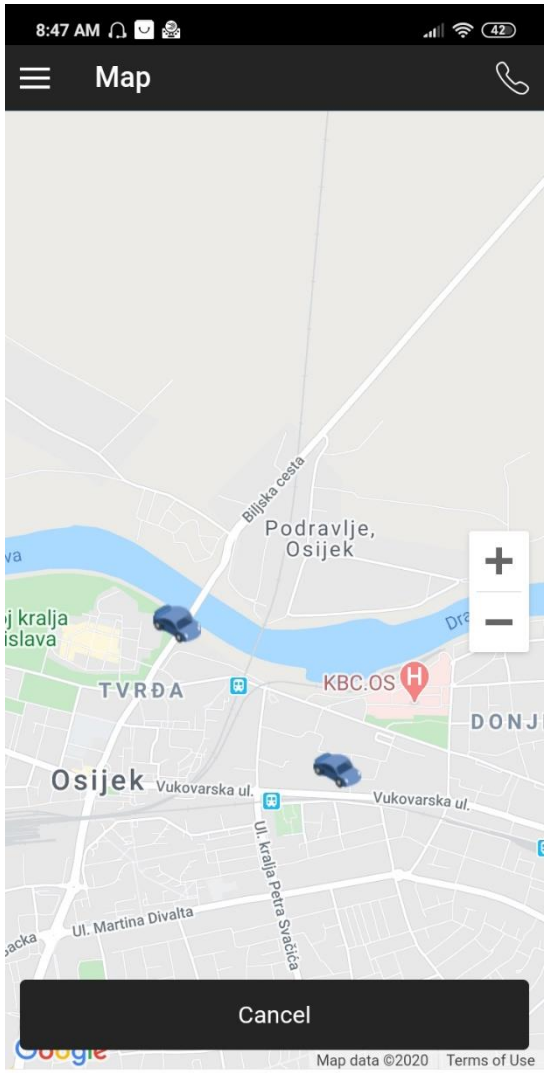
Važi do

Mjesec Godina

CVV

npr. 311

Verifikacija



Customer Invoice



<https://www.gpp-osijek.com/>

RAČUN / Invoice

Broj 5 / VU551EJ / 1
 Datum, vrijeme 10.12.2020 11:25:13
 Plaćeno 10.12.2020 11:25:13
 Operater 001
 Način plaćanja Kartica
 Početak korištenja 08/12/2020 13:47
 Završetak korištenja 08/12/2020 14:06
 Trajanje 19,00 minuta

Srecko Kukic
 Vukovarska 28 - 31000 Osijek (Hrvatska)
 srecko.kukic@gmail.com

R.br.	Naziv usluge, proizvoda	Kol.	Cijena	Ukupno	Popust	Ukupan iznos
1	Rezervacija automobila registarskih oznaka VU551EJ - 192225	1	10,00 Kn	10,00 Kn	0,00 Kn	10,00 Kn
Ukupno bez PDV-a						8,00 Kn
PDV (25%)						2,00 Kn
UKUPNO ZA PLATITI						10,00 Kn

Trajanje bloka rezervacije je 15 min a cijena bloka je 10 kn

JIR: 80fc9c75-568d-47df-9a22-afd0c10af6d9

ZKI: c0f659b991975afcc0fc1e58d1786e0e



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BackOffice functionalities

Main improvements it concern: efficient booking process, access control, usability, innovative fleet management and connecting car fleets for car sharing

CCS CORPORATE CAR SHARING

Sintesi Prenotazioni Utilizzatori Parcheggi Veicoli Pool Ordini Diagnostica Aziende Ricariche Abbonamenti Services

Creare nuova smartlist Aggiornamento in blocco Rapporto Salvare le modifiche Stampare Alert Riconsegna Alert Ritiro Cambiare la vista

ELENCO

Booking History

SMARTLIST

Vehicle Rental Plan

Titolo	Nu...	P...	Nome	Cog...	No...	Mo...	Targa	Ali...	Par...	Par...	Dat...	Ora...	Dat...	Ora...	Sta...	Im...	Val...	Im...	Sta...	Ord...	Pri...	Creato il
EX022EB - Renault	412251	17...	Deme...	Vilardi	Gold ...		FW89...	Elettrica	Aerop...	Legna...	31/05...	01:00	31/05...	02:00	Conse...	€ 26,00	€ 26,00	Pagato	<input type="checkbox"/>	1N		31/05/2021
EX022EF	412264	76...	Onofrio	Monte...	Gold ...		FW90...	Elettrica	Abbia...	Legna...	31/05...	02:30	31/05...	03:30	Conse...	€ 16,00	€ 16,00	Pagato	<input type="checkbox"/>	1N		31/05/2021
ES137BA - Renault	412293	61...	Fabio	Passera			FW38...		Macca...	Macca...	31/05...	07:30	05/06...	12:00	Ritirata	€ 0,00		Pagato	<input type="checkbox"/>	1N		31/05/2021
EX023EB - Renault	412298	55...	Luca	Cester	Dipen...		FV997YG	Elettrica	Trada...	Trada...	31/05...	07:30	31/05...	12:30	Ritirata	€ 0,00		Pagato	<input type="checkbox"/>	1N		31/05/2021
FZ769HJ - Renault Z	412303	16...	Luca	Manenti			FZ763...		Rovat...	Rovat...	31/05...	07:30	31/05...	13:45	Ritirata	€ 0,00		Pagato	<input type="checkbox"/>	1N		31/05/2021
FJ188GH - Nissan	406500	19...	Luciano	Locatelli			FW88...		Dosse...	Dosse...	31/05...	08:00	31/05...	14:00	Ritirata	€ 0,00		Pagato	<input type="checkbox"/>	1N		24/05/2021
EX178GC - Renault Zo	412319	12...	Claudio	Bariselli	Dipen...		FR689...	Elettrica	Maru...	Maru...	31/05...	08:00	31/05...	17:00	Ritirata	€ 0,00		Pagato	<input type="checkbox"/>	1N		31/05/2021
EX178GC - Renault	412321	32...	Luigi ...	Volza	Gold ...		FS001...	Elettrica	Bresci...	Bresci...	31/05...	08:00	31/05...	20:00	Ritirata	€ 24,00		Pagato	<input type="checkbox"/>	1N		31/05/2021
EX178GC - Renault Zoe	412323	12...	Celina...	Idra	Gold ...		GC69...	Elettrica	Bresci...	Bresci...	31/05...	08:00	31/05...	11:00	Ritirata	€ 18,00		Pagato	<input type="checkbox"/>	1N		31/05/2021
FR688NS - Renault Z	412332	27...	Gabri...	Peracchi			GB31...		Trave...	Trave...	31/05...	08:00	31/05...	18:00	Ritirata	€ 0,00		Pagato	<input type="checkbox"/>	1N		31/05/2021
FW385NT - Renault	412283	34...	Pietro	Cordella			FW37...		Cano...	Cano...	31/05...	08:15	31/05...	09:15	Conse...	€ 0,00	€ 0,00	Pagato	<input type="checkbox"/>	1N		31/05/2021
EX019EB - Renault Zoe	412309	53...	Alberto	Cagliani			FV871YG		Berga...	Berga...	31/05...	08:15	31/05...	13:00	Ritirata	€ 0,00		Pagato	<input type="checkbox"/>	1N		31/05/2021
FW372NT - Renault	412336	63...	Paolo	Sibilia	Silver ...		GE373...	Elettrica	Aerop...	Villa d...	31/05...	08:15	31/05...	09:15	Conse...	€ 31,00	€ 26,35	Pagato	<input type="checkbox"/>	1N		31/05/2021
EX214GC - Renault Z	412355	23...	Angelo	Zanola			GB44...		Palazz...	Palazz...	31/05...	08:15	31/05...	09:30	Conse...	€ 0,00	€ 0,00	Pagato	<input type="checkbox"/>	1N		31/05/2021
EX019EB - Renault Zoe	412361	35...	Giuse...	Guarn...			GB44...		Meda ...	Meda ...	31/05...	08:30	31/05...	11:00	Ritirata	€ 0,00		Pagato	<input type="checkbox"/>	1N		31/05/2021
	412369	23...	Luigi	Pertile			GB43...		Biasm...	Biasm...	31/05...	08:30	31/05...	17:00	Ritirata	€ 0,00		Pagato	<input type="checkbox"/>	1N		31/05/2021
	411428	55...	Mirco	Botta...			FV869YG		Berga...	Berga...	31/05...	08:45	31/05...	15:00	Ritirata	€ 0,00		Pagato	<input type="checkbox"/>	1N		30/05/2021
	411745	35...	Enrico	Manzi			GB43...		Bellan...	Bellan...	31/05...	08:45	31/05...	20:45	Ritirata	€ 0,00		Pagato	<input type="checkbox"/>	1N		30/05/2021
	412382	39...	Giuliano	Camp...	Silver ...		FP901...	Elettrica	Berga...	Berga...	31/05...	09:00	31/05...	11:00	Ritirata	€ 9,80		Pagato	<input type="checkbox"/>	1N		31/05/2021
	412312	20...	Alice	Calla			GC69...		Calab...	Calab...	31/05...	08:30	01/06...	13:00	Ritirata	€ 0,00		Pagato	<input type="checkbox"/>	1N		31/05/2021



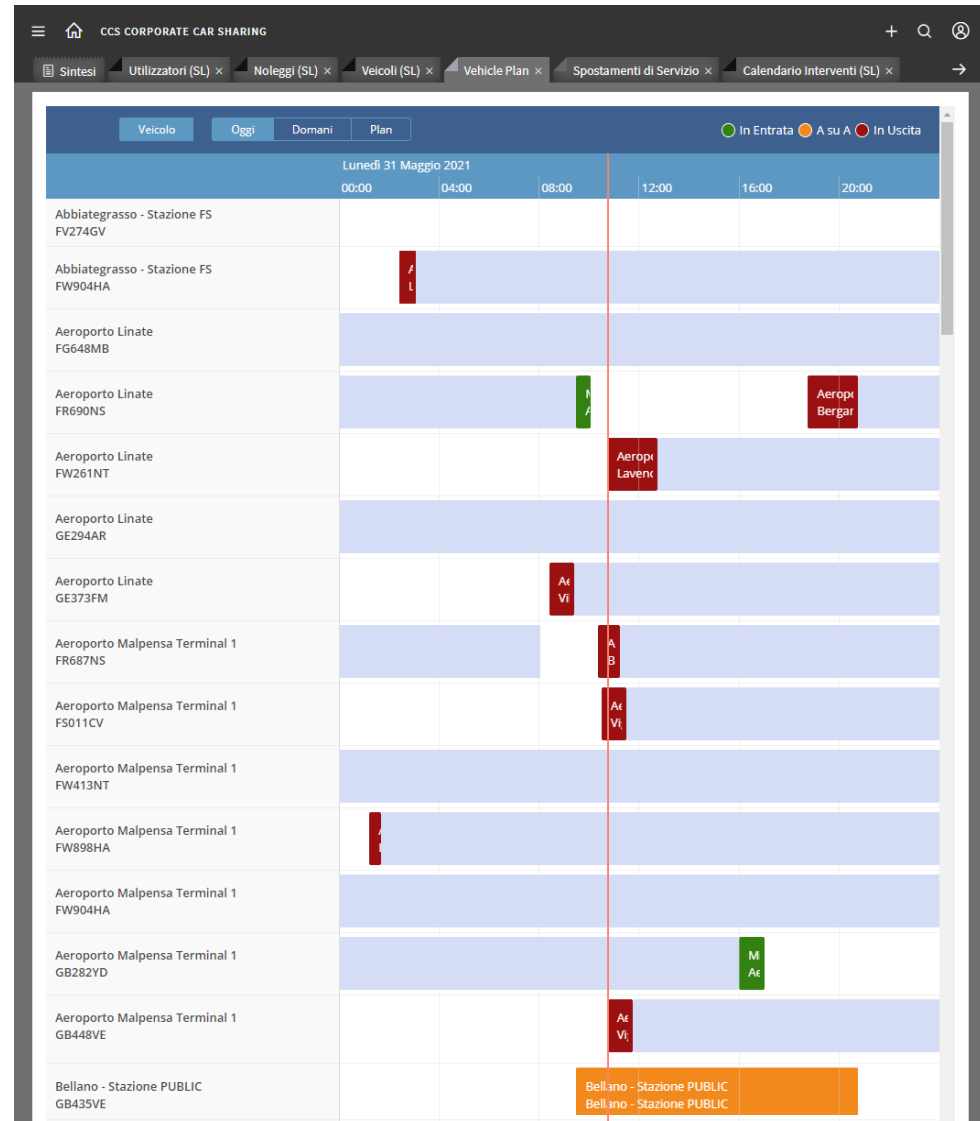
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BackOffice functionalities

Vehicle Plan:

- ❖ No Paper
- ❖ Planning time reduced
- ❖ Automatic Cross Check
- ❖ Detailed Overview
- ❖ Updated Sharing



BackOffice functionalities

Vehicle Maintenance:

❖ Drivers Security SMARTLIST Workshop Intervention Calendar

❖ Planning

❖ Managed Service

❖ Vehicle Quality

maggio 2021

Maand Week Dag Agenda

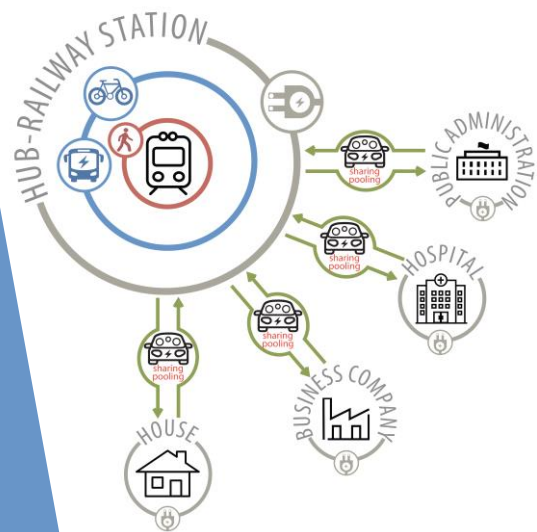
lun	mar	mer	gio	ven	sab	dom
26	27	28	29	30	1	2
		09 FW381NT - CAMBIO GOMME 09 GC687LD - RUMORE	09 FW869VG - CAMBIO PNEUMATICI	09 FZ768HU - TAGLIANDO	11 GC704LD - RECUPERO CARROTTREZZI	10 GE300AR - RECUPERO CARROTTREZZI (SINISTRO)
3	4	5	6	7	8	9
09 FT745TD - CAMBIO PNEUMATICI 09 FW369NT - CAMBIO PNEUMATICI	09 FT742TD - CAMBIO PNEUMATICI 09 FT805TE - CAMBIO PNEUMATICI 09 FT805TE - DANNO PNEUMATICO +2 extra	09 FT806TE - CAMBIO PNEUMATICI 10 FT743TD - CAMBIO PNEUMATICI 10 FZ745HU - CAMBIO AUTO PIANCAMUNO	08:30 FT975UJ - CAMBIO PNEUMATICI 08:30 FV257GV - CAMBIO PNEUMATICI	08:30 FT742TD - CAMBIO PNEUMATICI 09 FW914HA - CAMBIO PNEUMATICI		
10	11	12	13	14	15	16
09 FW899HA - CAMBIO PNEUMATICI	15 FT974YJ - CAMBIO PNEUMATICI	09 FX685CD - CAMBIO PNEUMATICI	09 FW368NT - CAMBIO PNEUMATICI			
17	18	19	20	21	22	23
Test da Calendario	08 FV998YG - LAVAGGIO 08:30 FG640MB - SOSTITUZIONE PARABREZZA 09:30 FW901HA - CENTRALINA TEXA	09 FW901HA - INFILTRAZIONE ACQUA ABITACOLO 09:30 FW714NY - SOSTITUZIONE CENTRALINA TEXA	09 FT974YJ	01 Test 09:30 TEST BIS 10 FW901HA - CENTRALINA TEXA SOSTITUZIONE		
24	25	26	27	28	29	30
		09:30 GB444VE - DANNO CARROZZERIA	15 FW895HA - TAGLIANDO	FT974YJ RITIRARE DA VANZULLI E LASCIARE FW901HA +2 extra		
31	1	2	3	4	5	6
	Consegna Auto	Recupero Auto Per Consegna	Consegna Auto			

I-SharE Technological Platform development

“I-SharE project will also develop and demonstrate the use of I-SharE technological platform that will be shared by all associated beneficiaries (Replicability).

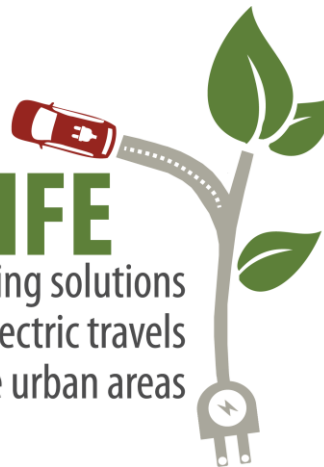
Development of the technological platform will start from features performed by the existing software elements, evolving it in a new framework architecture.” (Scalability)

(By Nordcom)



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Life Programme under Grant Agreement
N° LIFE 17 ENV/IT/000212 I-SharE LIFE

THANK YOU FOR YOUR KIND ATTENTION !

Dott. Marco Lupi
Service Delivery Mngr – Nordcom
marco.lupi@nord-com.it



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