

Száguldás, mobil, autódiagnosztika

avagy

Diagnosztikai adatok kinyerése és hasznosítása okosautós környezetben



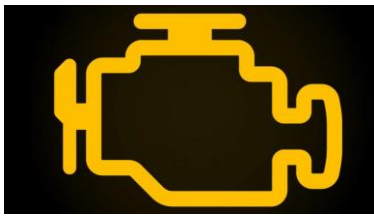
OBD CAN

Sik Dávid

Dr. Ekler Péter

Dr. Lengyel László

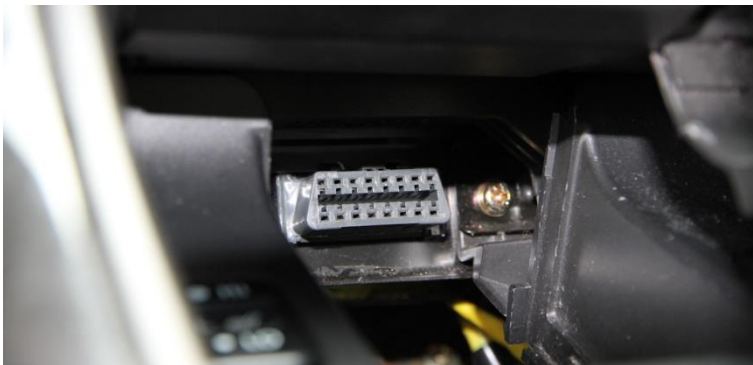




Autódiagnosztika

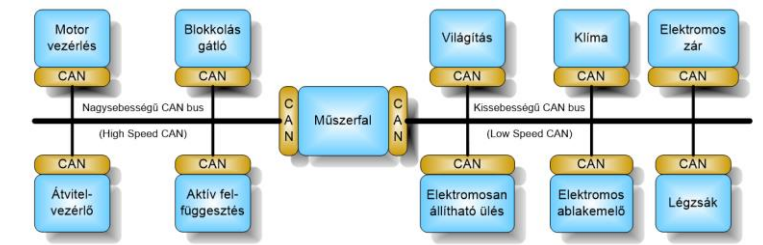
OBD-II

- + Interfész könnyen elérhető
- + Legtöbb autó (2000 után)
- Kevesebb adat
- Ritka adatfrissítés
- Eltérő protokollok

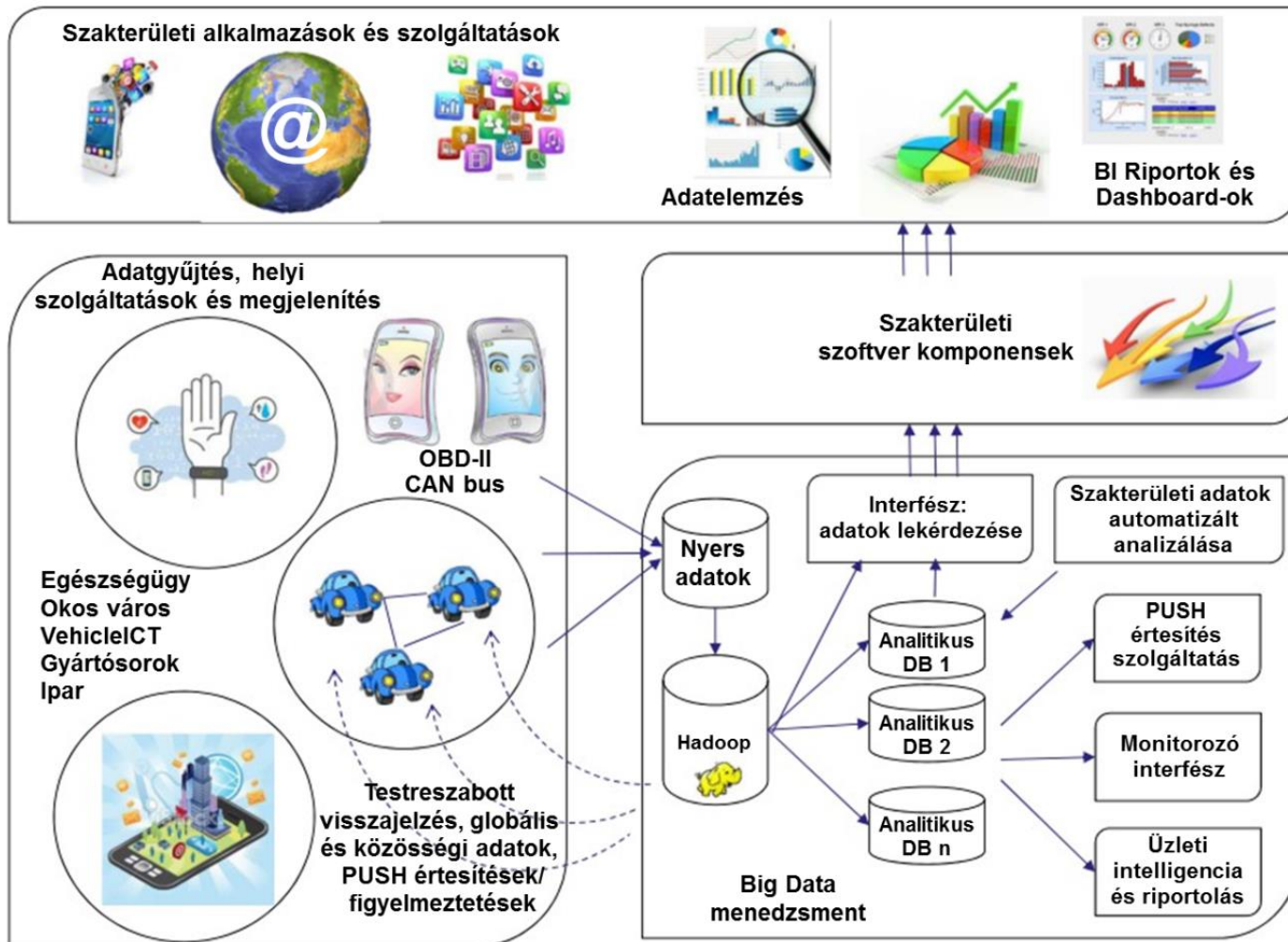


CAN bus (FMS)

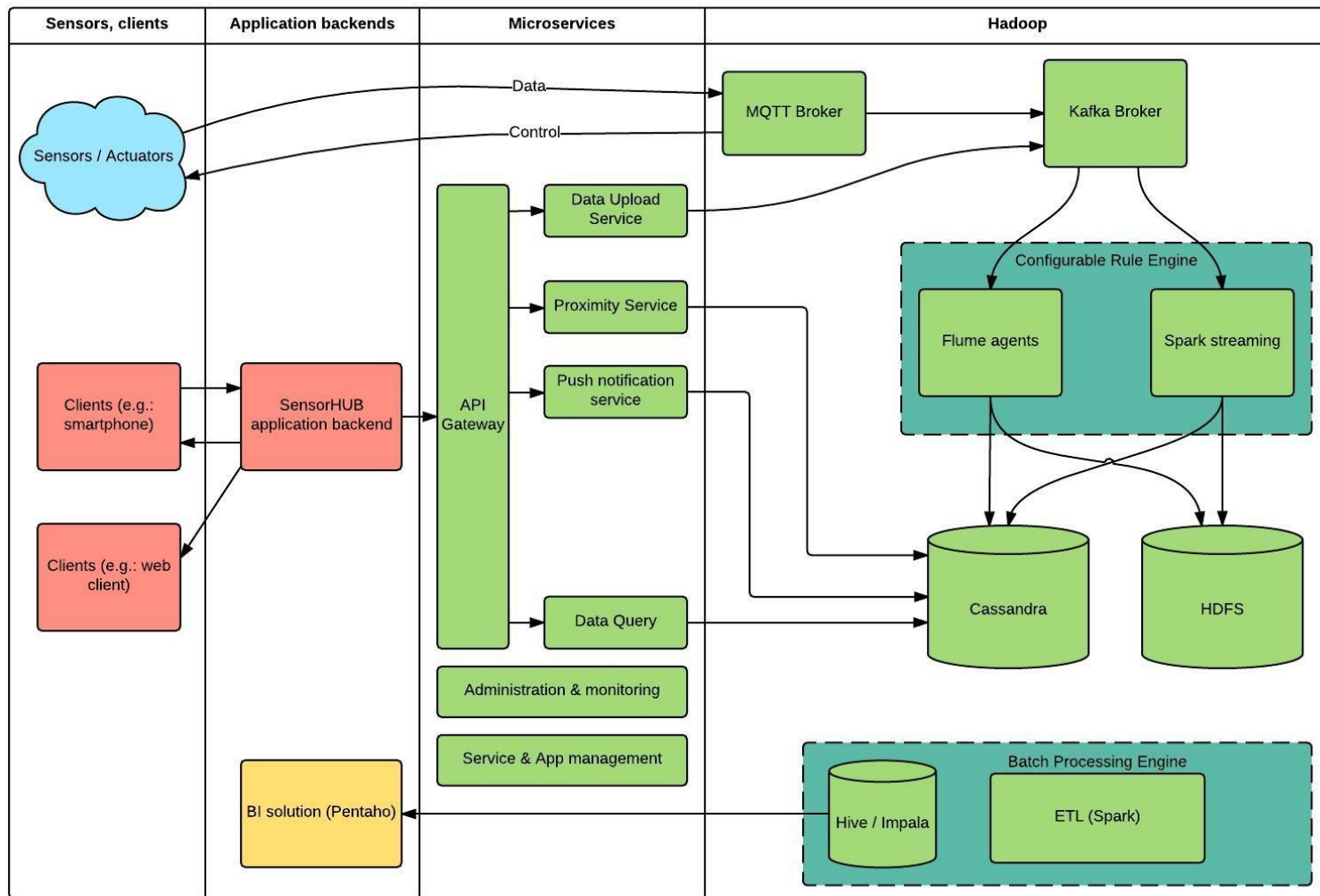
- Interfész nehezen elérhető
- Csak bizonyos autótípusok
- + Sok adat
- + Sűrű adatfrissítés
- + Egységes szabvány



SensorHUB koncepció



SensorHUB architektúra





Social Driving





Social Driving



test1234567890123456@gmail...

HOME

COUPONS

LIVE MAP

ADMINISTRATION

Create a new coupon

Title

Kedvezményes tankolás

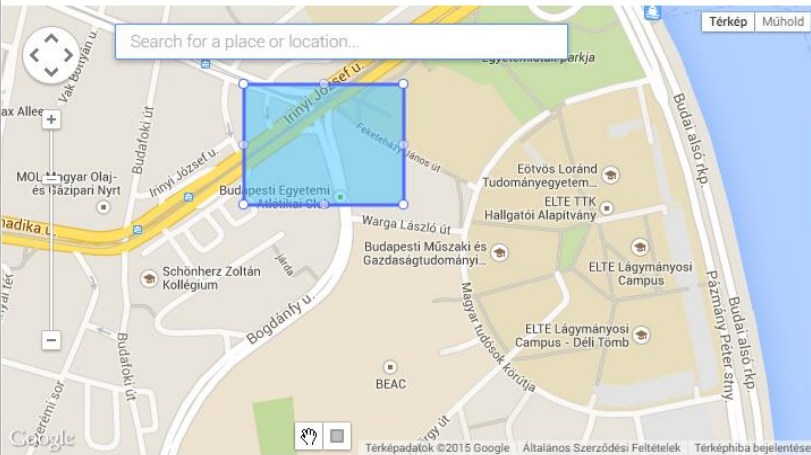
Description

5% tankolás kedvezmény

Draw the geofence

Use the search box to jump to a location before drawing. If you need help with the drawing, click [here](#).

Térkép Műhold



Térképadatok ©2015 Google Általános Szerződési Feltételek Térképhiba bejelentése

PREVIEW CREATE COUPON



Social Driving





Social Driving

Emissions

Péter

Csaba

Average RPM



Average carbon dioxide emission

104 g/km



105 g/km

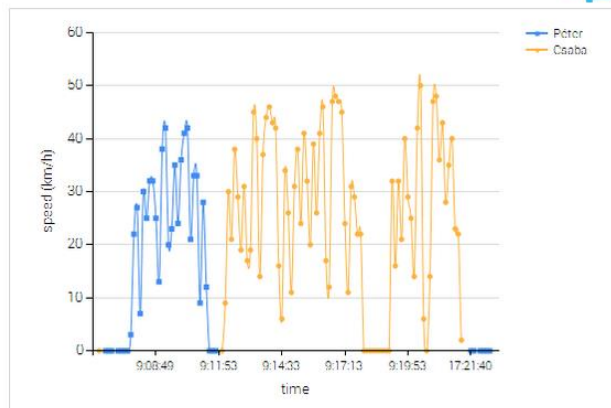
Average fuel economy

7.35 l/100km

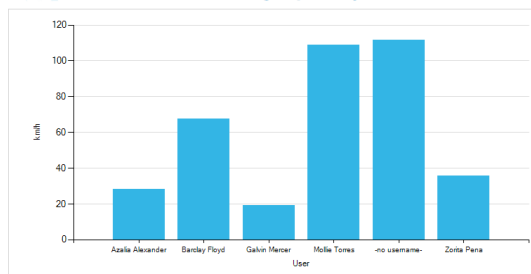


7.54 l/100km

Travel speed



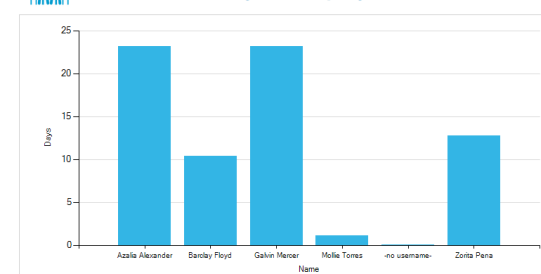
Average speed by user



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Days at company



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Total fuel consumption by user

User	Total kms	Avg. fuel economy	Fuel consumed
-no username-	0 km	13.06 l/100km	0 liter
Mollie Torres	2.53 km	5.64 l/100km	0.14 liter
Barclay Floyd	14.43 km	4.92 l/100km	0.71 liter
Zorita Pena	9.56 km	7.71 l/100km	0.74 liter
Galvin Mercer	9.1 km	5.76 l/100km	0.52 liter
Azalia Alexander	13.2 km	3.39 l/100km	0.45 liter

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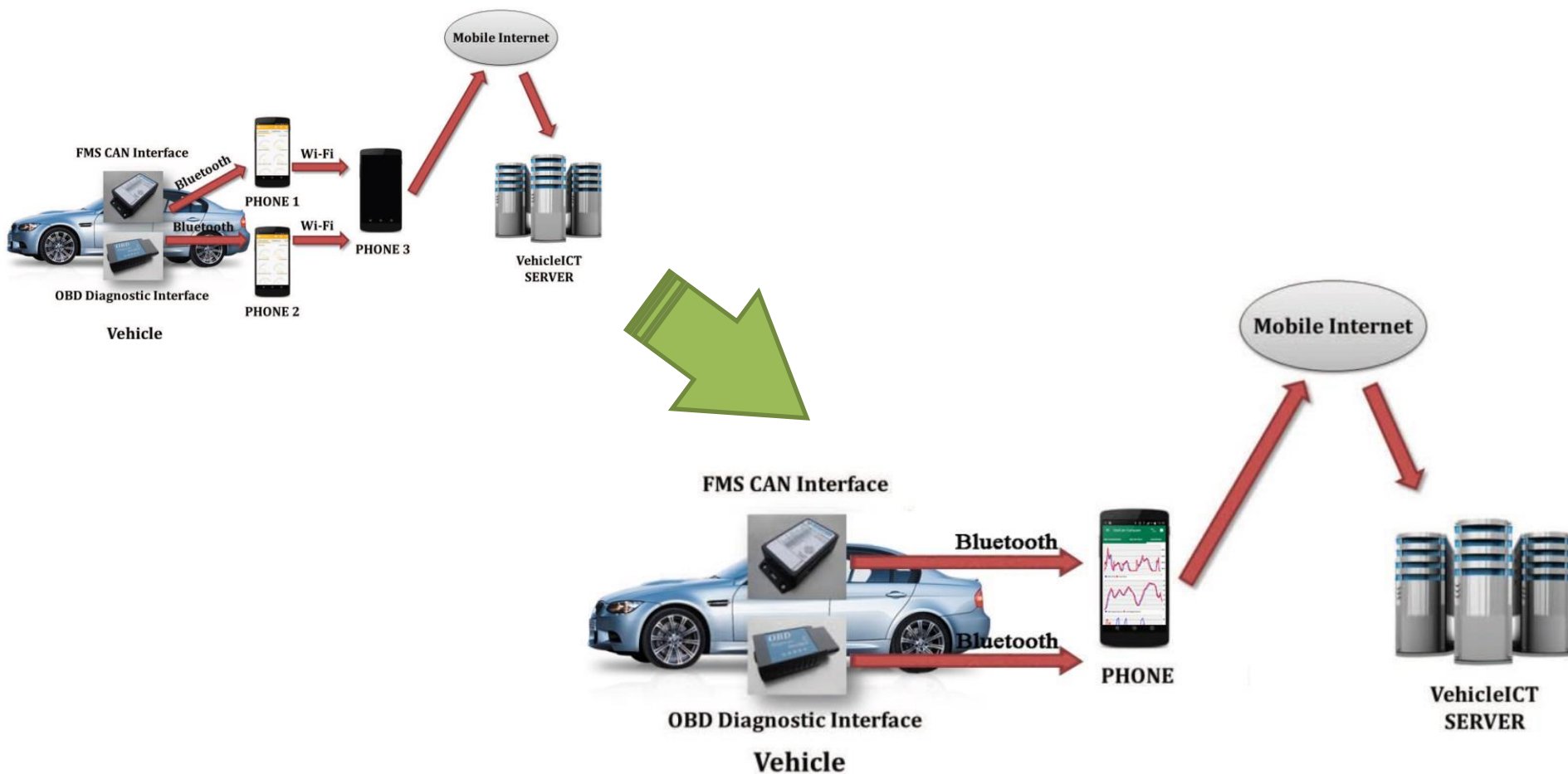
Users last seen

User	Last seen at	Last position
-no username-	1/17/1970 9:47:48 AM	
Mollie Torres	10/5/2014 7:41:22 PM: 47.8605467294; 19.188426284	
Barclay Floyd	10/5/2014 7:59:51 PM: 47.7894565108; 18.5278883106	
Zorita Pena	10/5/2014 8:03:37 PM: 47.8762257525; 20.3639177869	
Galvin Mercer	10/30/2014 9:19:02 AM: 46.8060219813; 21.0027982281	
Azalia Alexander	10/30/2014 9:19:02 AM: 46.8188602705; 19.5203458407	

[Go to report](#)

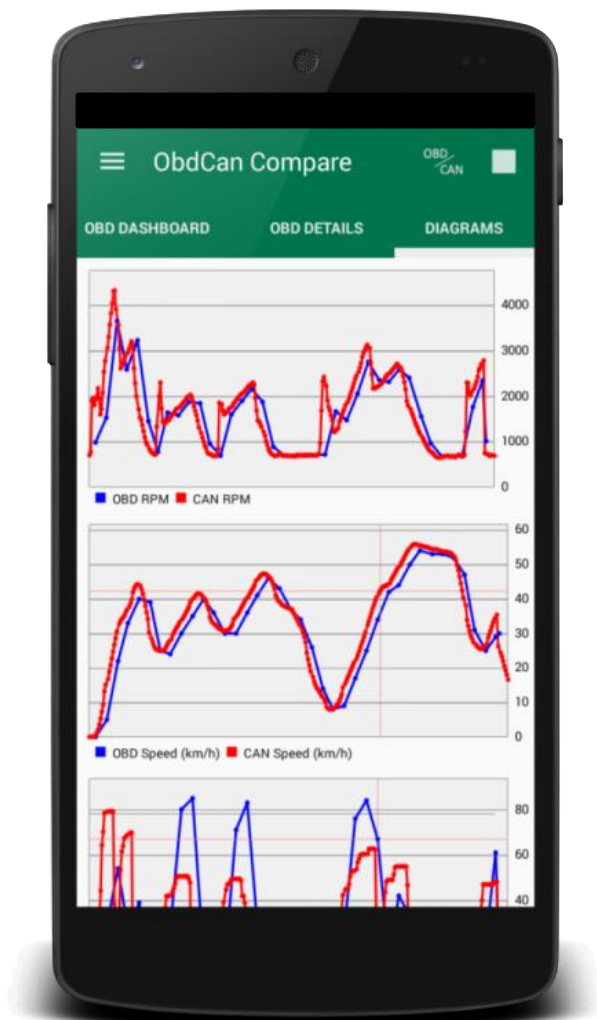


ObdCanCompare



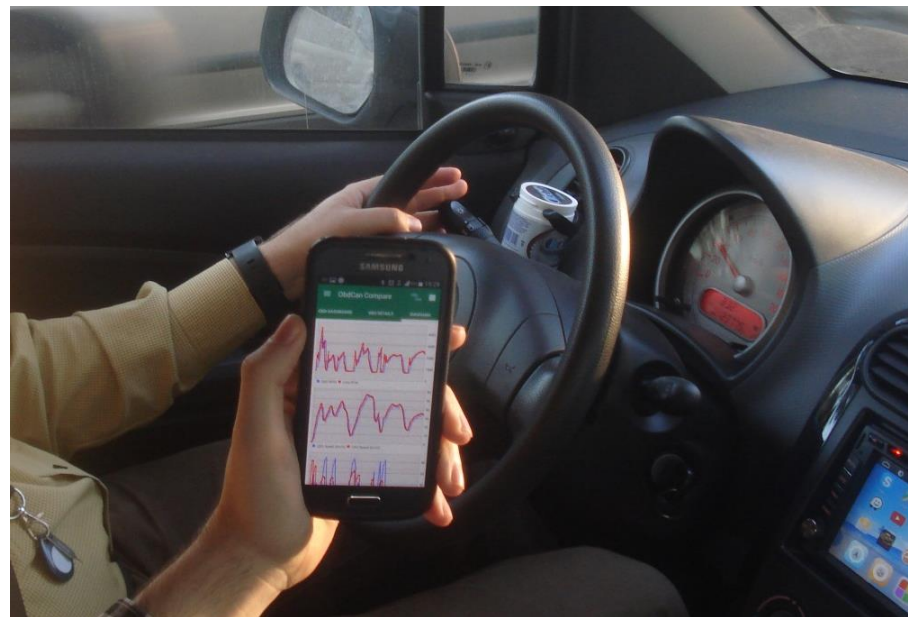


ObdCanCompare



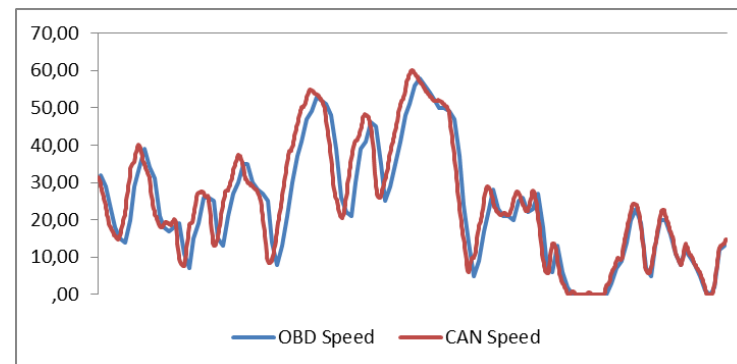
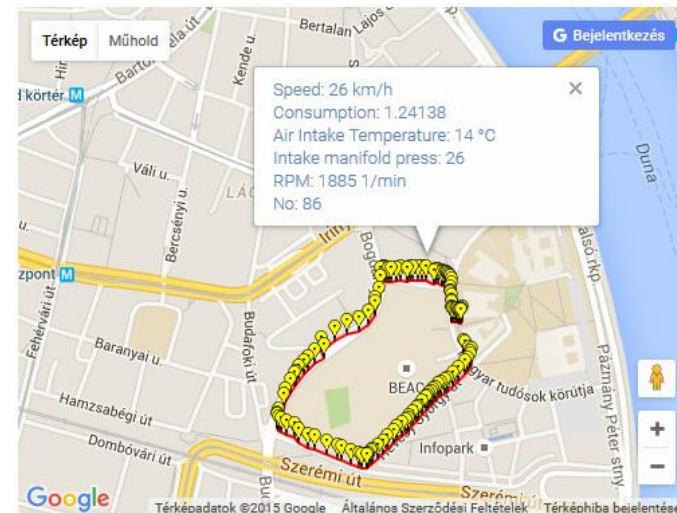
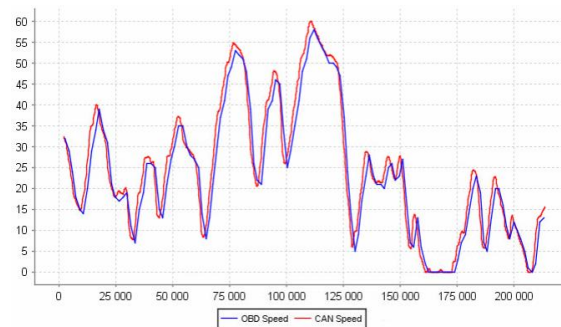
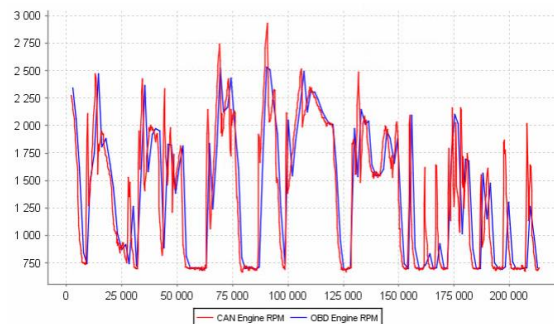
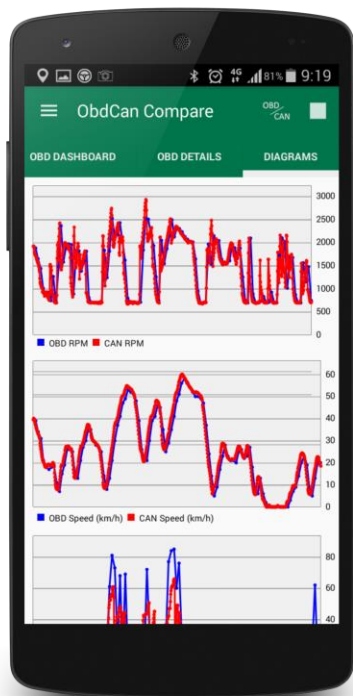


Szimuláció, tesztelés



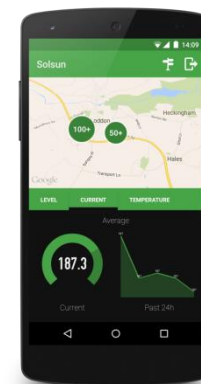
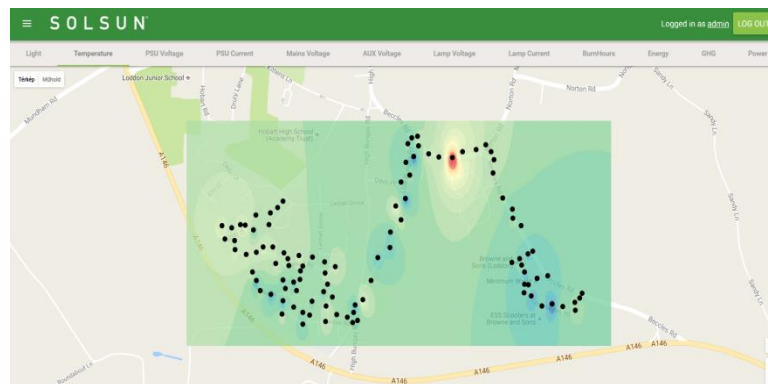


Elemzés: Pentaho, Hadoop, Excel

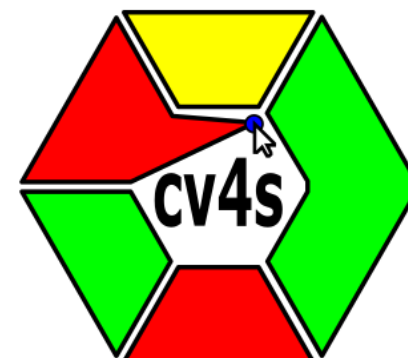


SensorHUB további szakterületek

- SOLSUN



- CLAAS



- CV4SensorHUB

Összefoglalás

- Autódiagnosztika
- SensorHUB keretrendszer
- Social Driving
- OBD vs. CAN
- Okosautó – okosváros koncepció



Köszönöm a figyelmet!



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