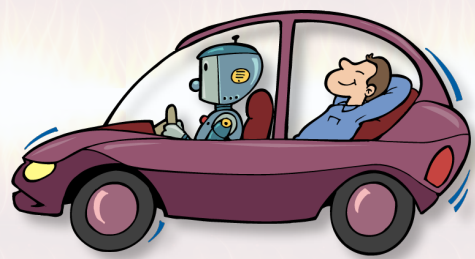


Automobiles and related infrastructures combine to create a dense EM atmosphere. These massive, unnatural EMF exposures affect the health of all living beings. In addition, wireless signaling features of transport systems open up risks to privacy, vehicle access and data ownership. This map can only introduce technologies and suggest areas of concern.

RF field sources inside vehicle

RFID -- LF	30 - 500 KHz
Anti-theft	125 MHz
Throttle control	150 MHz
Remote locking	315 MHz
Pressure sensor	434 MHz
RFID - HF	900 MHz
GPS	1.6 GHz
	1.2 GHz
Bluetooth	2.4 GHz
WiFi	2.4 GHz
RFID -- HF	2.45 GHz
Blindspot radar	24 GHz
Collision radar	77 GHz
	94 GHz



**LAWS: CURRENT, FUTURE**

[TIRE PRESSURE SENSORS](#)  
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[2016 BACK-UP CAMERAS](#)

[CONNECTED CAR GUIDE](#)

[DIGITAL CARJACKERS](#)

[CONSUMER REPORTS](#)

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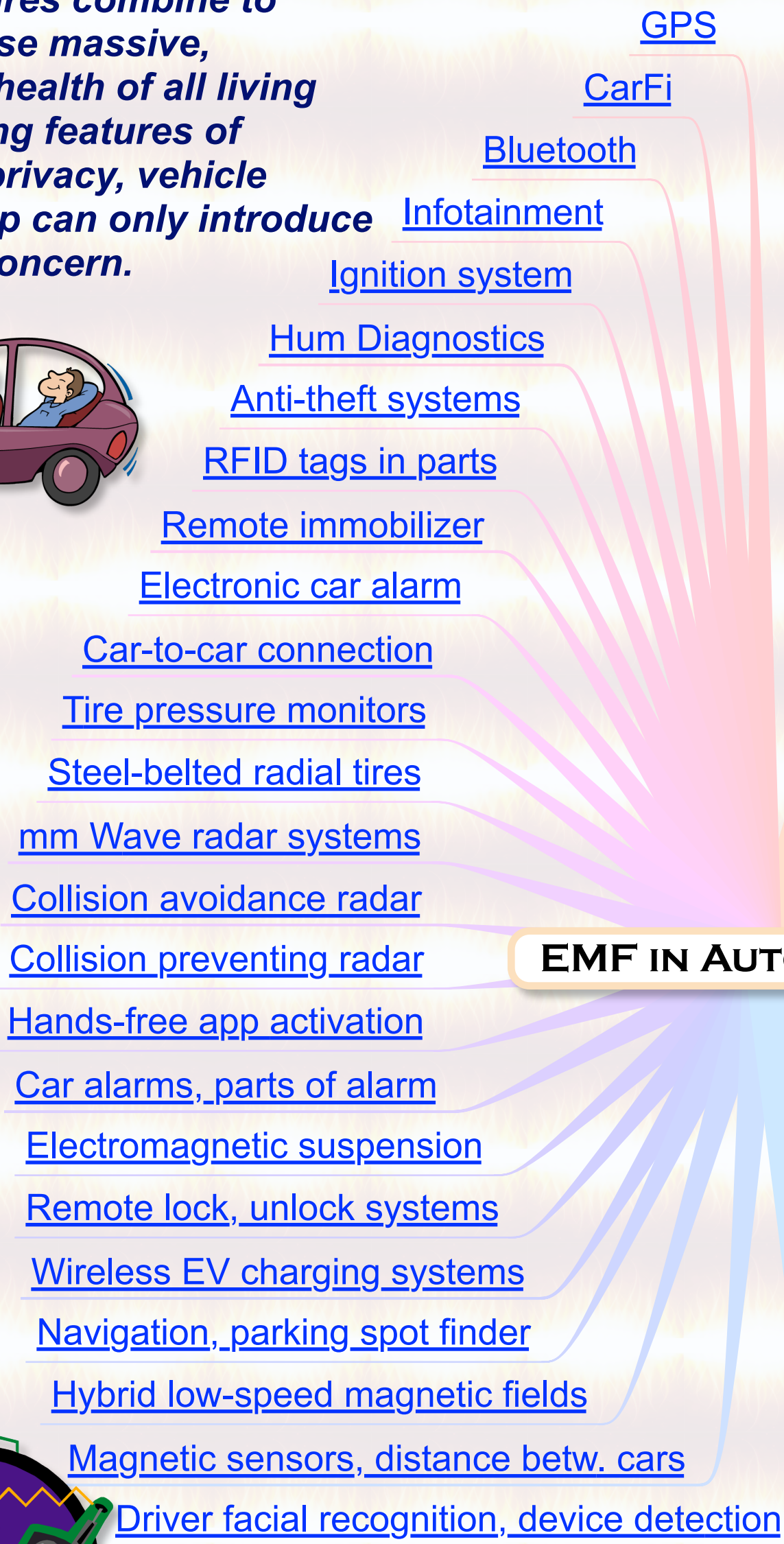
Home: [Oscillatorium](#)  
Newest version [this map](#)  
Date of this update: 02-15-17

Magnetic field sources

Alternator  
Spark plugs  
Distance sensor  
A/C, heating fans  
Ignition -- longer wires, esp.  
Entire engine compartment  
Steel-belted radials

Additional roadside EMF sources

Cell towers, small cell antennas  
Broadcast stations  
WiFi hotspots  
Traffic photo radar  
Pre-PASS  
Other cars: radar, EF, MF, RF/MW  
High voltage transmission lines



**EMF IN AUTOMOBILES**

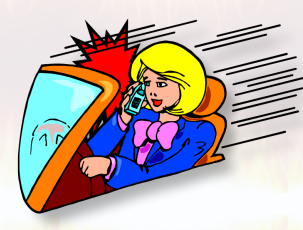
**V2V TECHNOLOGY**

★ [V2V COMMUNICATION](#)  
[CAR/CAR COMMUNICATION](#)

Intelligent Transportation Society of America  
[ITS](#)

Links

- [EIWellspring](#)
- [Car Synching, Ford](#)
- [Car EMF Safety](#)
- [Sudden acceleration](#)
- [RF Technology, Cars](#)
- [Auto EM Interference](#)
- [ES-Forum discussion](#)
- [Telematics save lives?](#)
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- ★ [Passenger exposure to MF in EVs](#)
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"The gasoline-ignition engine has spark plugs to ignite the fuel-air mixture. The ignition (spark) system is a tremendous source of broad spectrum RF Radiation as well as Magnetic Fields.

The car body is used as part of the electrical system, considerable electrical emissions exist inside an automobile.

The alternator is a strong source of Magnetic Fields.

The diesel engine with mechanical fuel injection has no spark plugs at all. An electric spark is not required therefore lower Magnetic Field emissions

The car stereo is a large source of EMF, even when powered off.

Keep distance form the audio speakers which emit large magnetic fields.

The air conditioning and heating fan generate large magnetic fields.

Most new cars have a satellite communication system and can transmit high levels of RF radiation.

Avoid speaking on a cell phone in the car without an external antenna. The RF waves will be reflected back at you from the metal chassis, doors and roof magnifying the radiation. Also, the cell phone has a hard time sending its signal out of the car because of the metal chassis, and increases its transmitting strength to compensate.

New hybrid vehicles will emit high electric and magnetic fields."

[Safe Living Technologies](#)

**Features to look for:**

- larger vehicle
- older vehicle
- no anti-lock brakes
- few electronic gadgets
- battery far from driver
- ignition coil far from driver
- alternator far from driver
- fuse box far from driver
- no side-mounted engine

[EIWELLSPRING: Low EMF](#)  
[EIWELLSPRING: Measurement](#)

★ [5G AUTO ASSOCIATION](#)



**WIRELESS ISSUES**

Interference  
Hacking  
Remote disconnect  
Adverse health effects  
Adverse environmental effects  
Distracted driving  
Surveillance, privacy  
Dysfunction of software, hardware

Short ignition wires are generally safer

There is no US standard for automobile EMF

The preference is that the driver's side have the lower EMF

Most car insurance offers discounts if there is anti-theft system in place

The metallic chassis reflects RF inside vehicle, adding to total exposure.

Many RF technologies are standard in cars, so consider getting an older model.