

**ENISA ICONS –**  
BASIS FOR DESIGNING  
OF INFOGRAPHICS  
AND VISUALIZING DATA







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OF INFOGRAPHICS  
AND VISUALIZING DATA





**SMART HOME**  
ICONS & INFOGRAPHICS



Smart  
light bulbs



Security  
alarms



Audio / Visual systems  
(smart TV, TV set-top  
boxes...)



Smart smoke  
detectors



Surveillance  
IP cameras



Broadband routers /  
home gateways /  
smart hubs



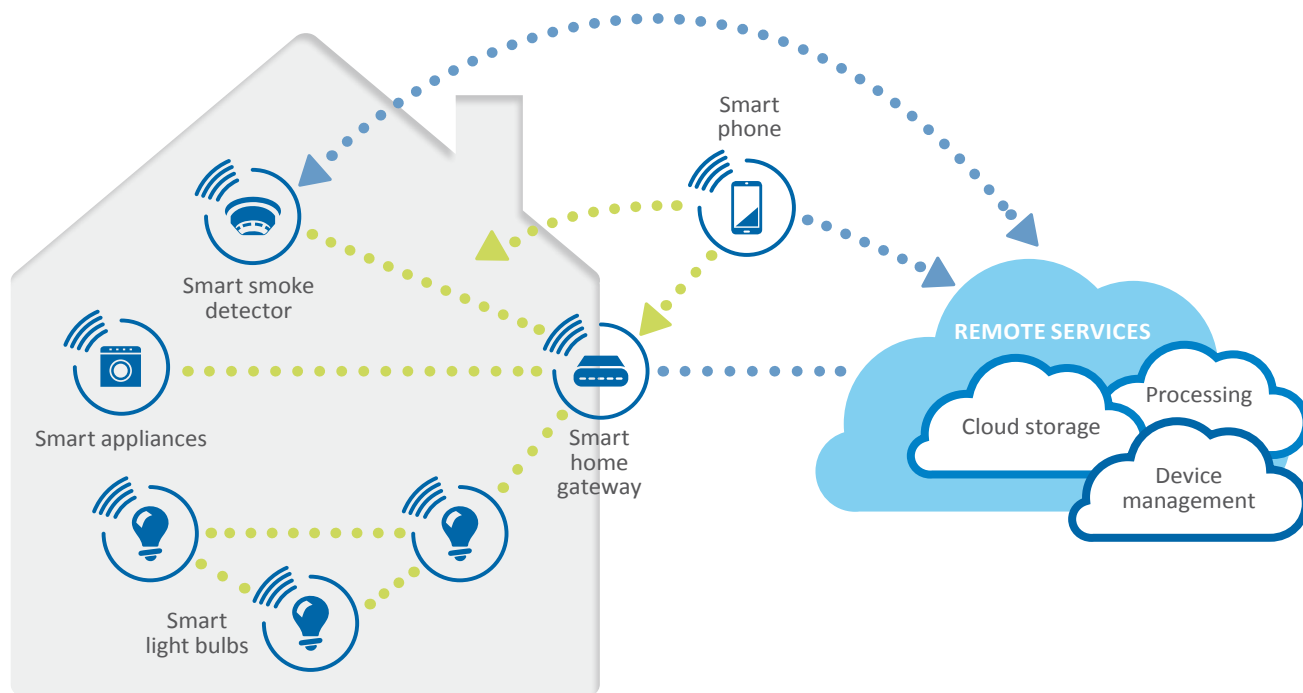
Smart  
thermostats



Smart  
appliances



Network  
Attached Storage



#### HAN: SHORT-RANGE AND DIRECT COMMUNICATION

##### PAN:

6LowPAN, Bluetooth, EnOcean, NFC, RFID, Zigbee, Z-Wave...

##### High speed networks:

Ethernet, Fiber optics, Powerline Communication, Wi-Fi...

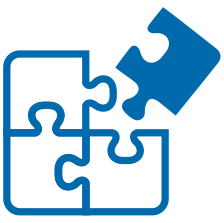
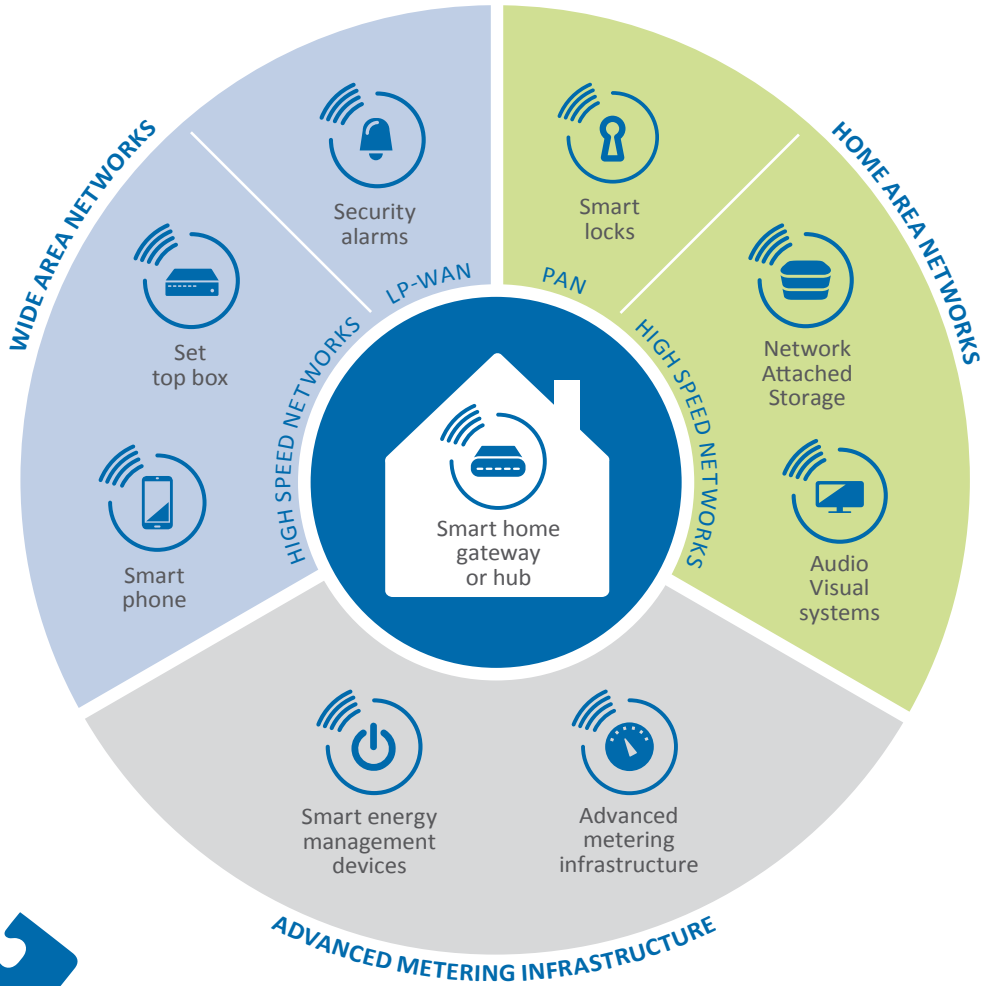
#### WAN: LONG-RANGE COMMUNICATION

##### LP-WAN:

NWave, LoRaWAN, LTE-MTC, Sigfox, Ultra Narrow Band...

##### High speed networks:

4G/LTE, ADSL, FTTH...



Integration of devices into the home area network



Remote services



Smart energy management devices



Smart home device



Setopbox



PC laptop



Smart locks



Usage until end-of-life



Smart phone

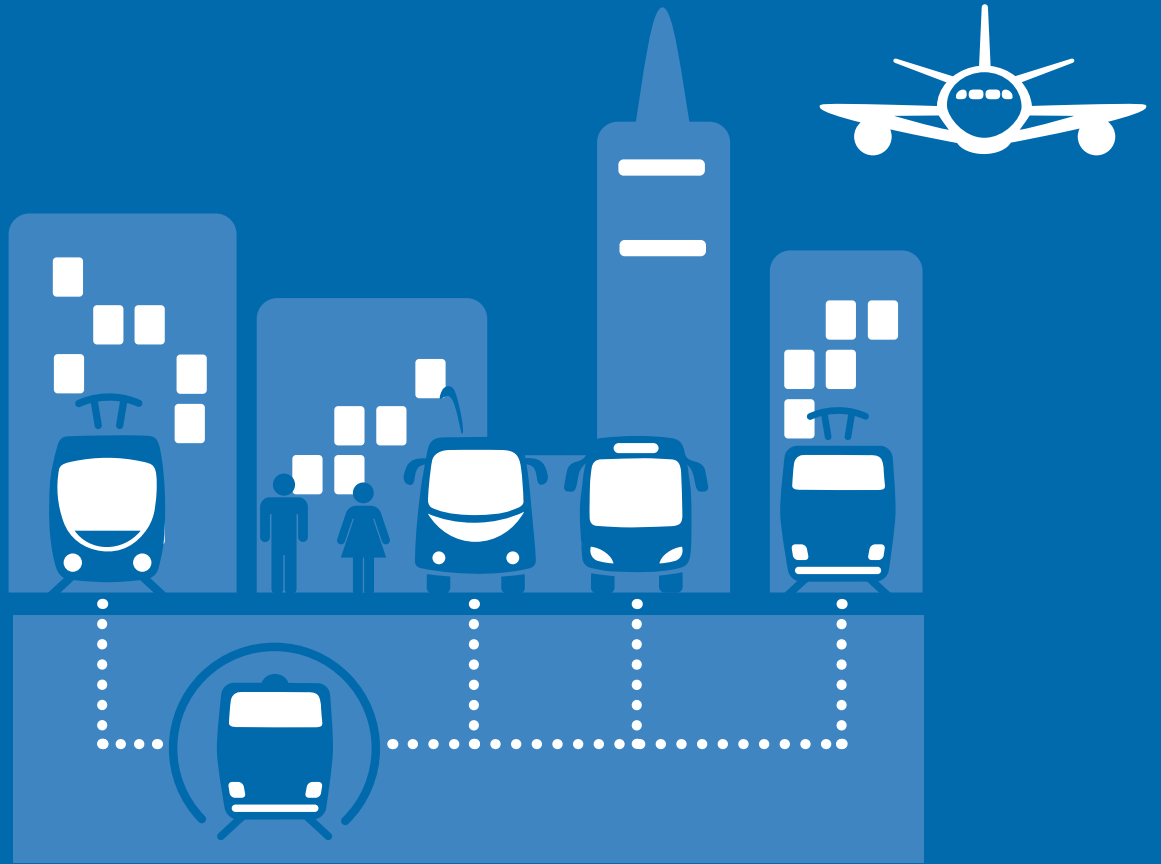


Advanced metering infrastructure



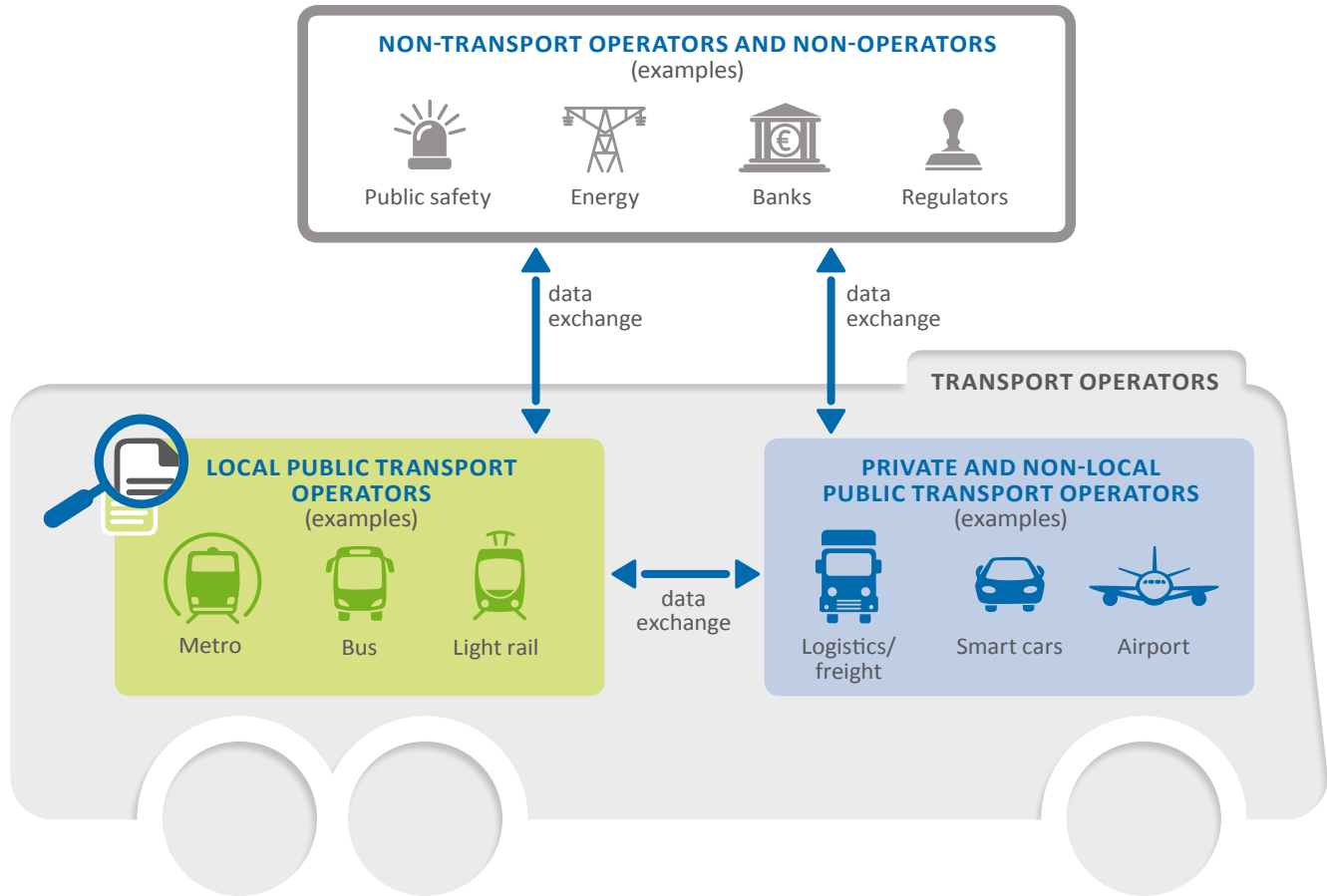
Development of smart home devices and services





**SMART CITIES  
AND TRANSPORT  
ICONS & INFOGRAPHICS**







Railways



Light rail



Metro



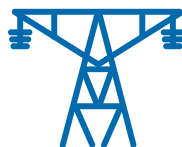
Ferry



Logistics/freight

Transport industry  
association

Public safety



Energy



Banks



Wired/  
physical link



Wireless



Traffic  
regulation



Websites



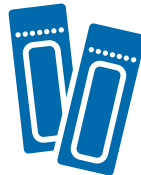
Communications



Emergency



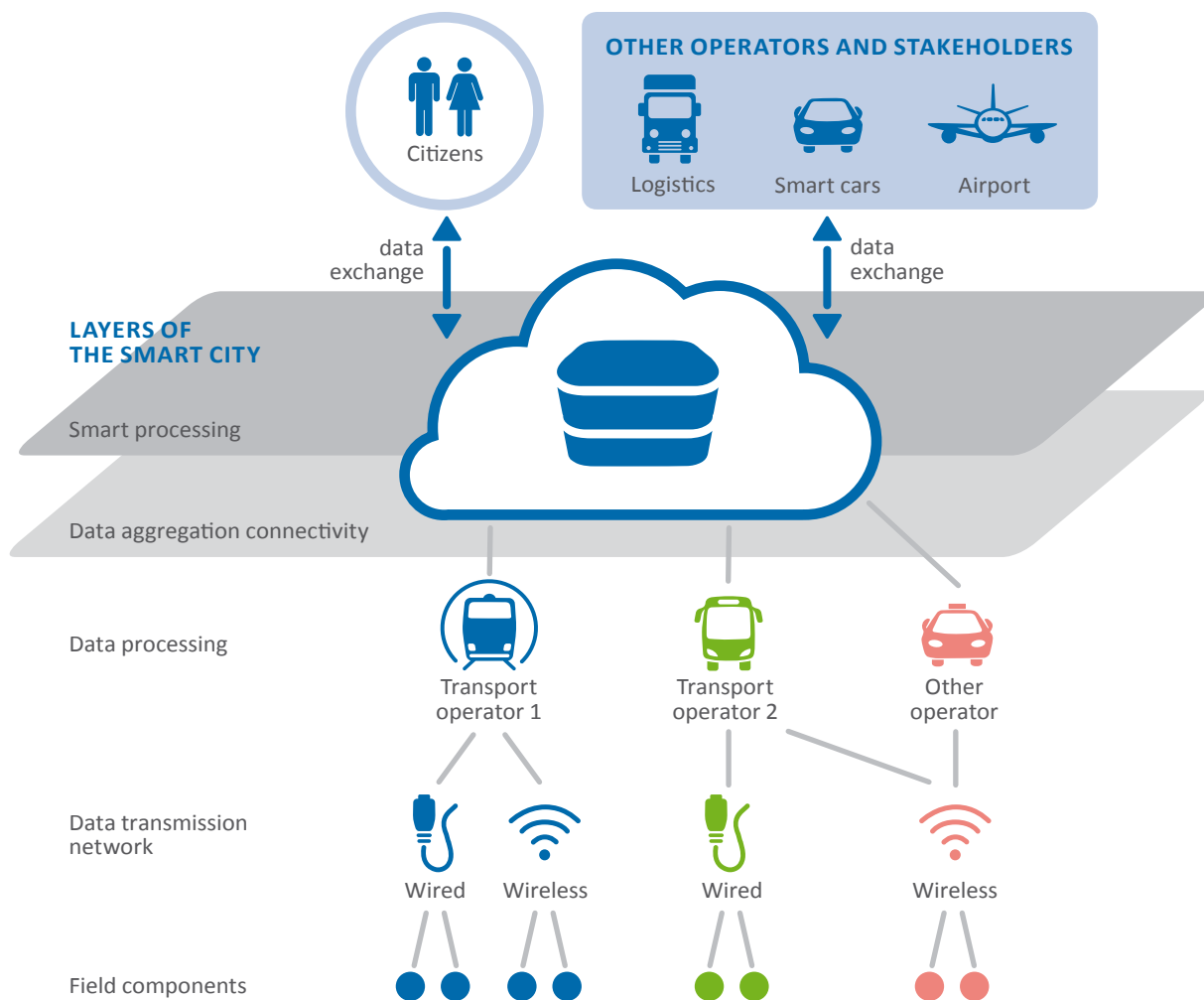
CERT

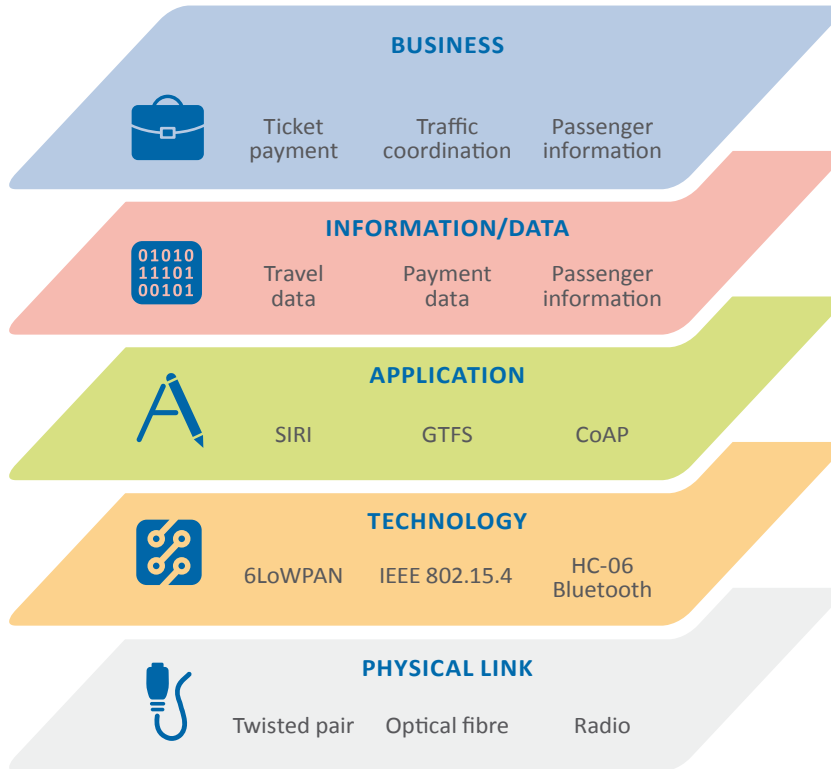


Ticket  
purchase



National  
government







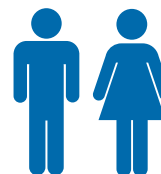
Application



Technology

Eavesdropping/  
wiretappingHardware  
failure/  
malfunctioningSoftware  
errorOperator/user  
errorEnd of support  
obsolescence

Acts of nature



Citizens



Smart cars



Bus



Stop displays



Airport



Trolley bus/  
tram



Infrastructure



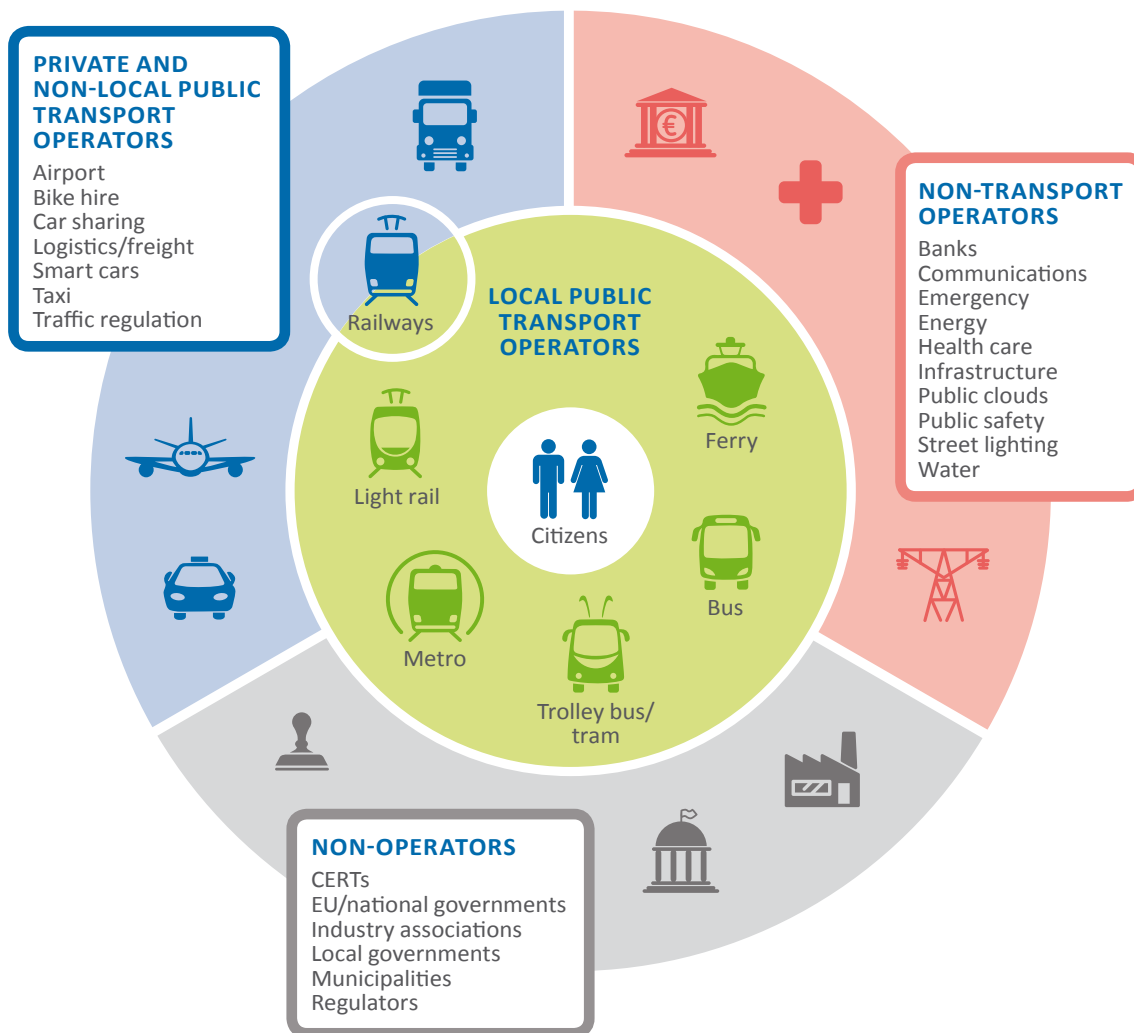
Regulators

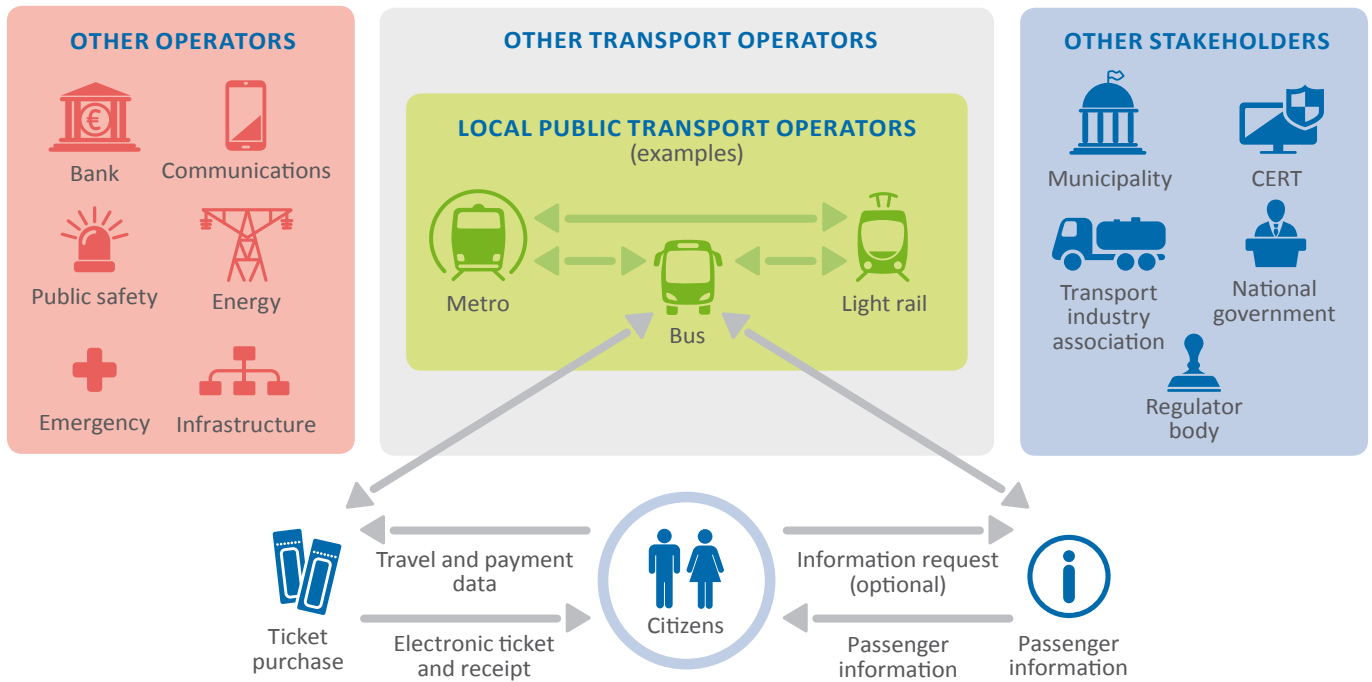


Passenger  
information



Business







Onboard  
displays



Theft



Tampering/  
alteration



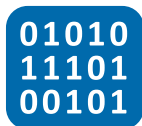
Municipality



Electrical and  
frequency disturbance/  
interference



Unauthorized  
use/access



Information/  
data



Industry  
associations



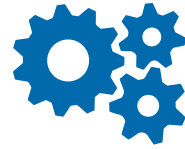
Distributed Denial  
of Service (DDoS)



Service providers



Operators



Manufacturers



IPT Critical assets



Policy makers



Environmental incidents



Loss of reputation







# SMART AIRPORT ICONS & INFOGRAPHICS





Home

Customer ancillary  
servicesNational  
government

Transit

Airport  
administrationInternational  
organizations

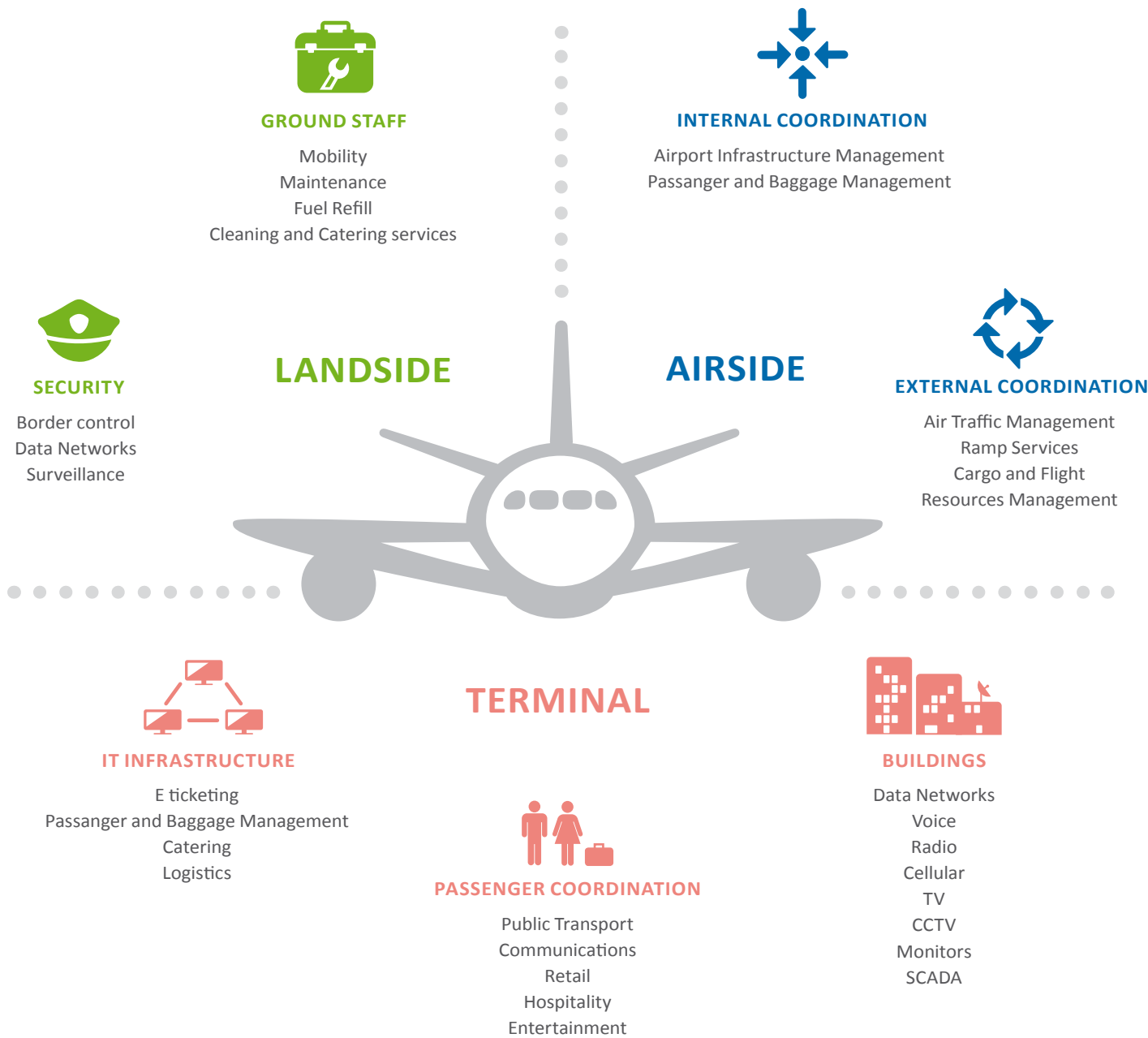
Departures

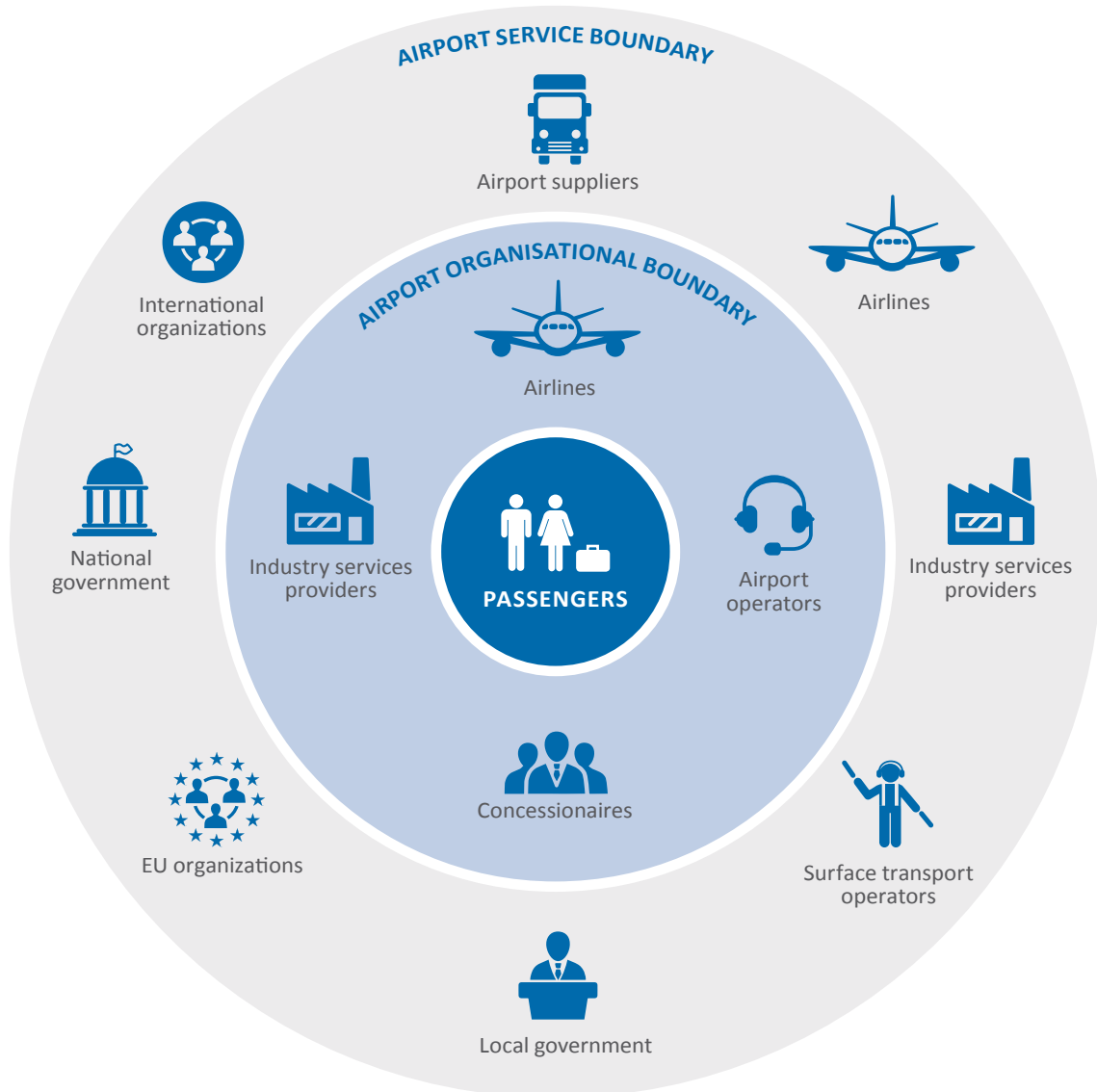


Ownership



EU organizations







Arrival



Human errors



Local government



Destination



Third party failures

Passengers/  
Passenger  
coordination

Ground staff



Malicious actions

Surface transport operators/  
Staff management



Safety &amp; security



Threats



Concessionaires



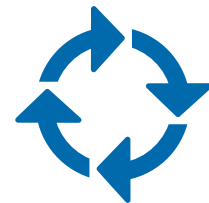
Airlines/Flight



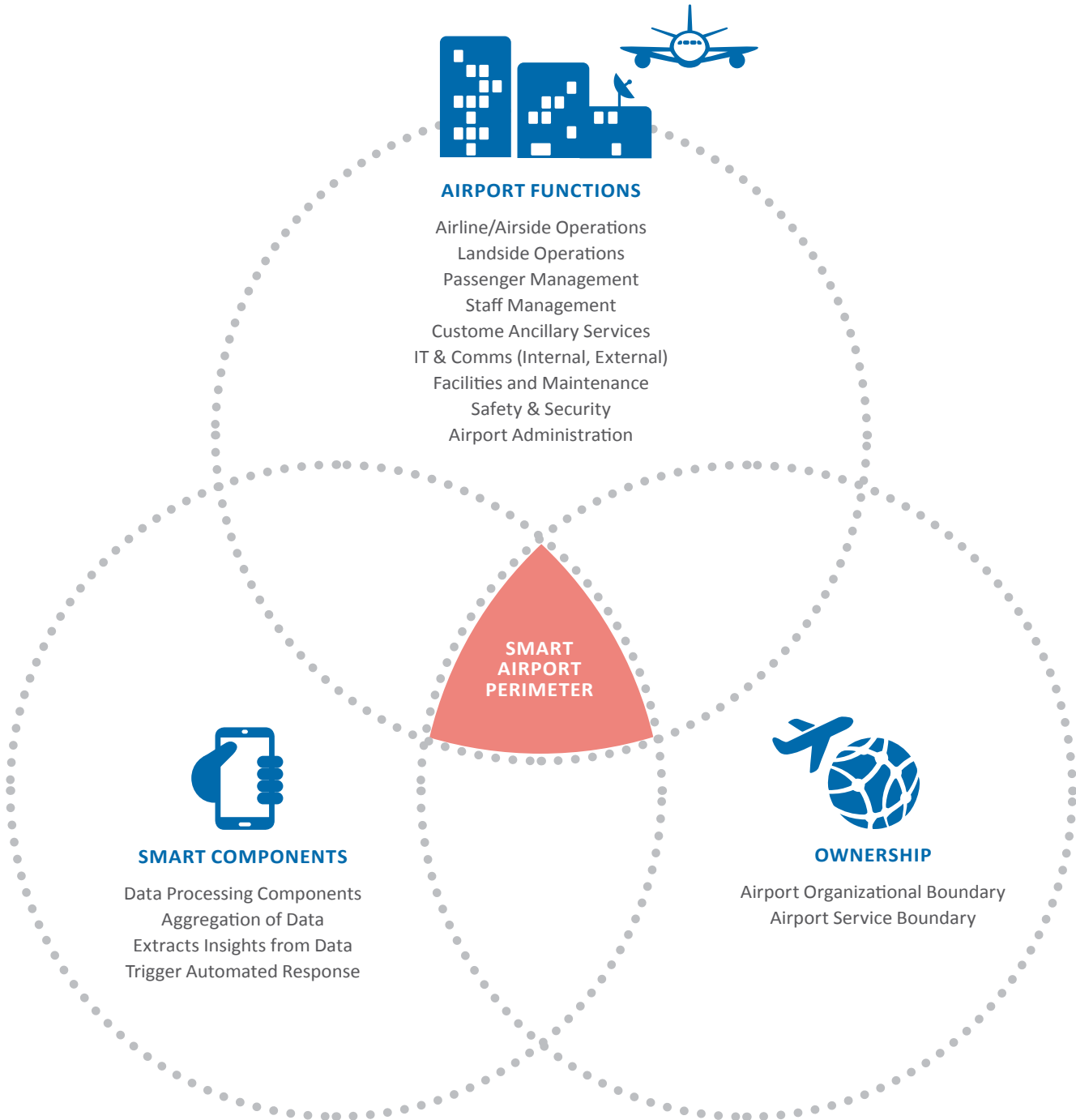
System failures



Airport suppliers

Airline/airside  
operationsSmart  
componentsExternal  
coordination



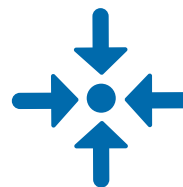




Landside operations



Natural phenomena



Internal coordination



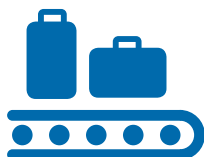
IT & Comms



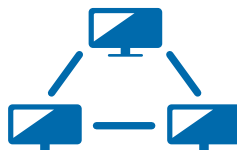
Industry services providers



Airport operators



Passenger management



IT infrastructure



Buildings/ Facilities  
and maintenance





**SMART HOSPITAL**  
ICONS & INFOGRAPHICS





Best possible  
medical care



Trustworthiness



Enterprise information  
system



Efficient healthcare/  
patient flow



Resilience



Data centre



Financial sustainability  
of services



Legal compliance



Smart hospital assets





Pleasant patient  
experience



Client devices



Networking



Patient/clinical  
safety



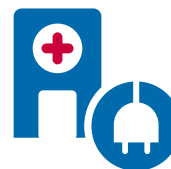
Identification



Information  
& data

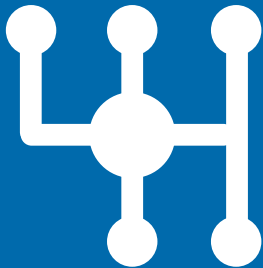


Staff

Patient/employee  
privacy

Buildings

Clinical networked  
information systemsNetworked  
medical devices

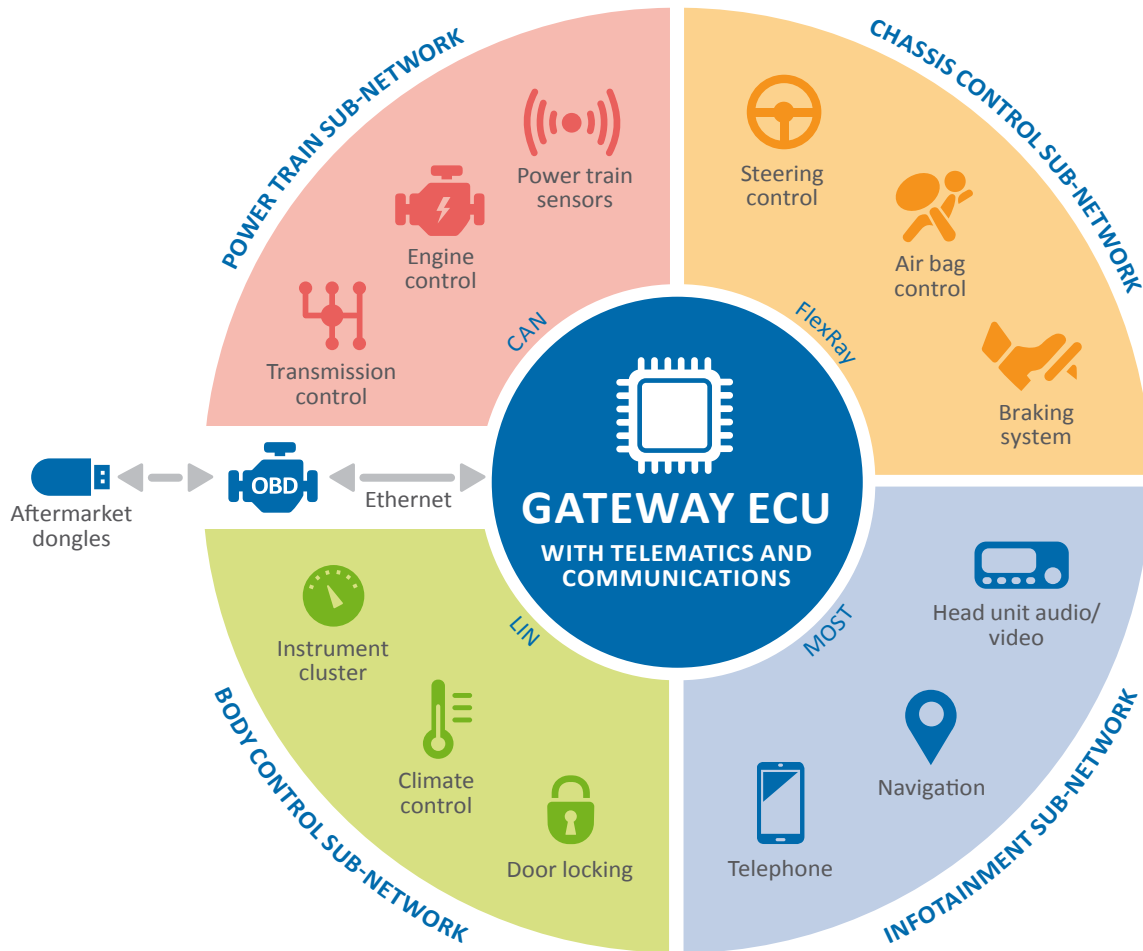




# SMART CARS

## ICONS & INFOGRAPHICS







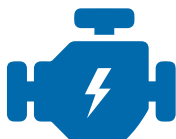
Remote Link  
Type App



Power train sensors



Unintentional  
damages (accidental)



Engine control



Battery



Physical attacks



OBD II



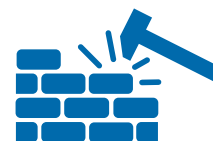
Steering control



Damage / Loss  
(IT Assets)



Ethernet

Air bag  
controlAdvanced  
Persistent Threats

CANBus

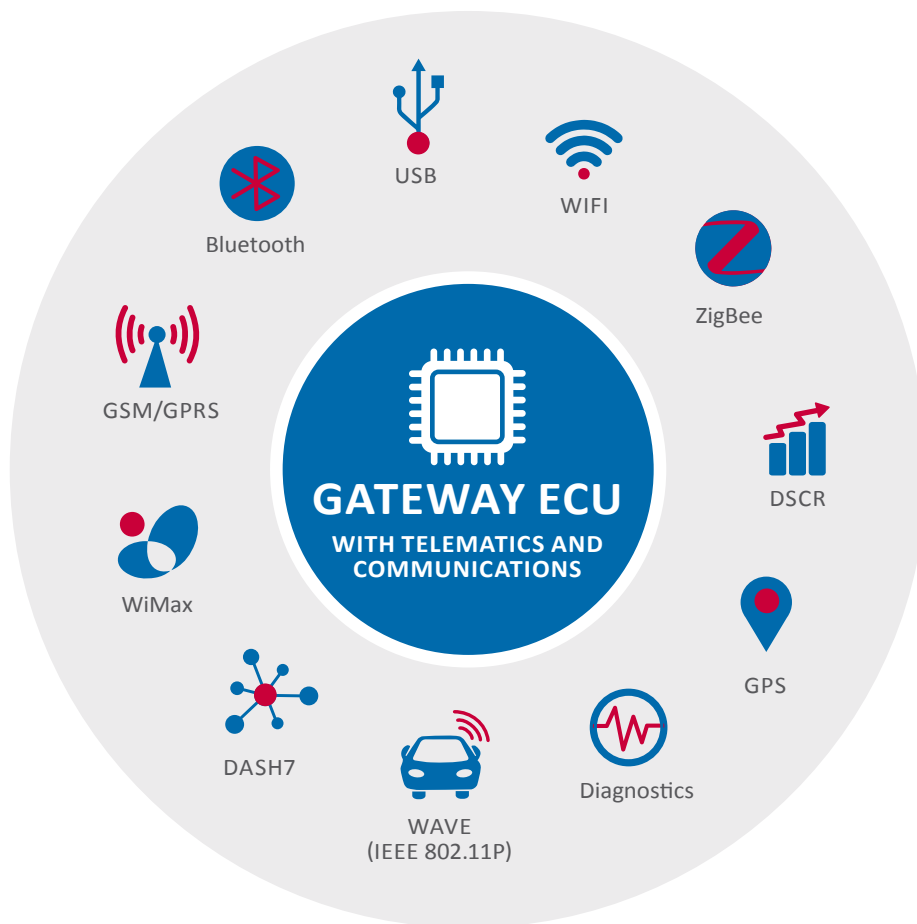


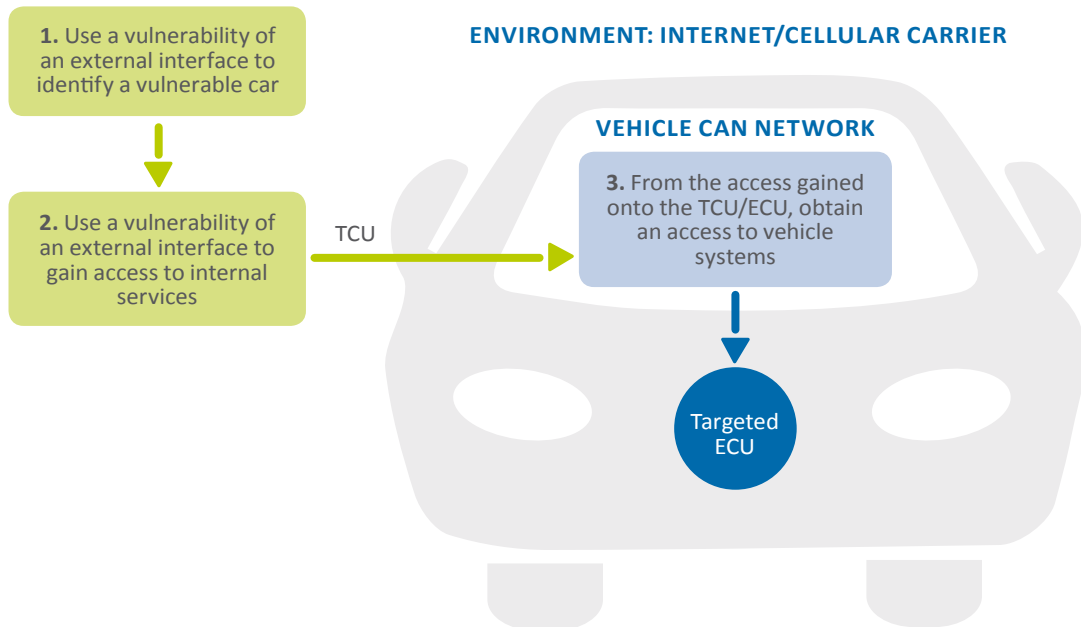
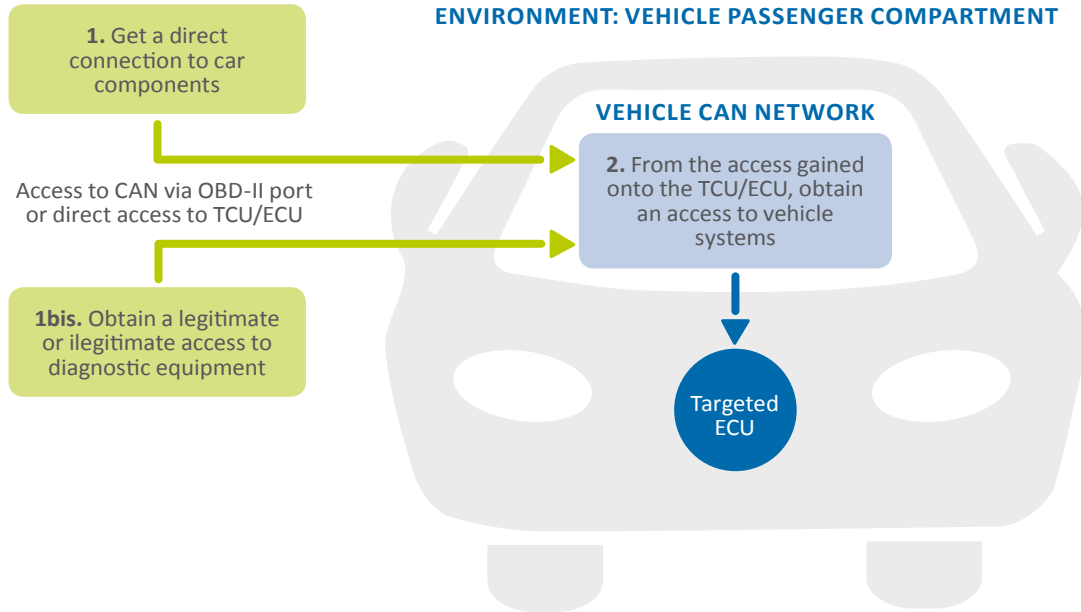
Speedometer

Nefarious Activity /  
Abuse

eCall Service

Instrument  
clusterFailures /  
Malfunctions







Aftermarket  
dongles



Door locking



Eavesdropping /  
Interception / Hijacking



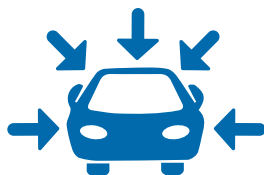
Head unit audio/  
video



Climate  
control



Telephone



Vehicle Access  
System ECU



Lighting System ECU  
(Interior and Exterior)



TPMS



Transmission control



Infotainment System



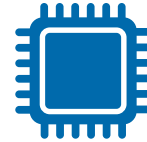
FlexRay



ADAS System ECU



Threats



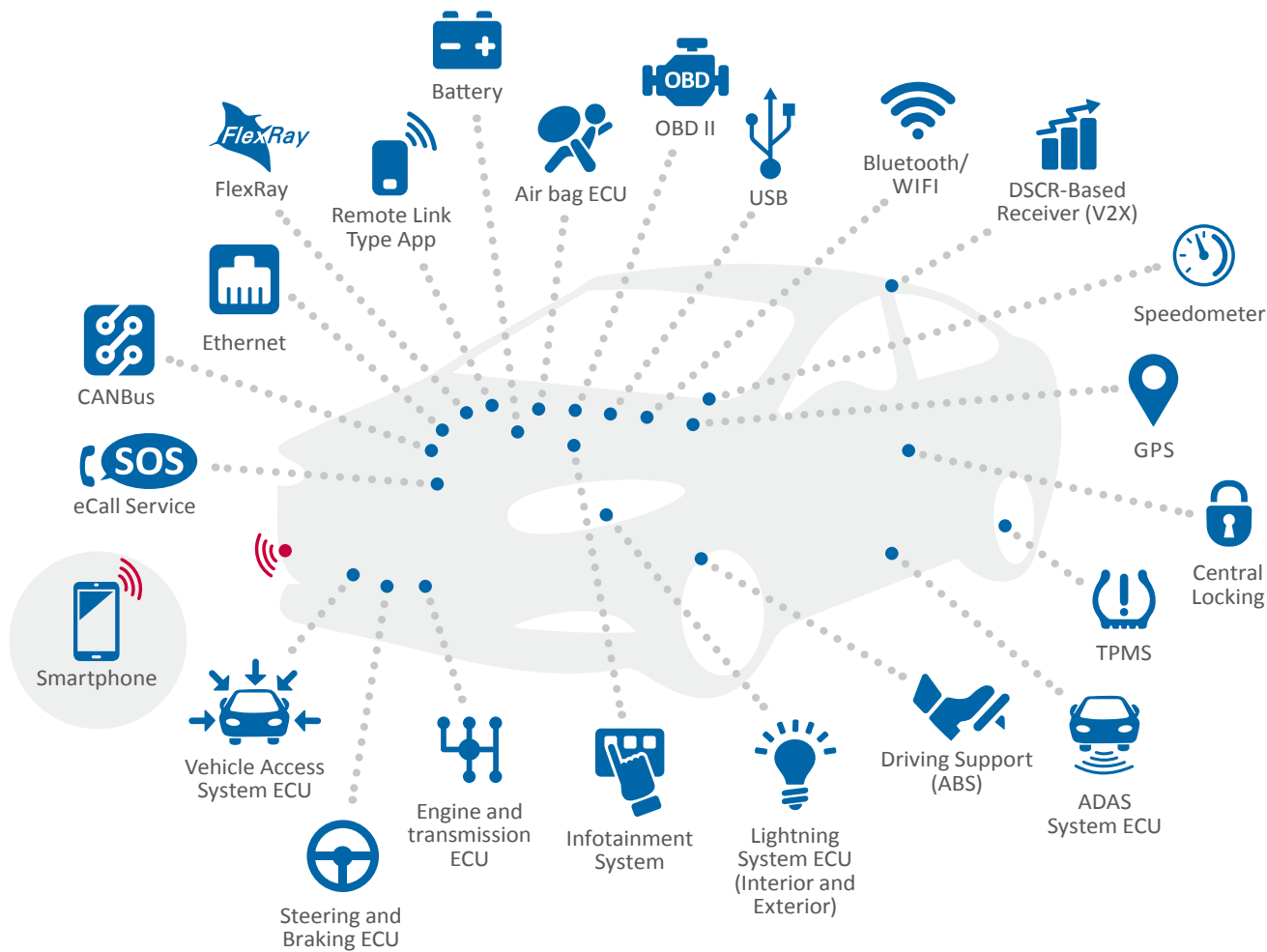
Gateway ECU

Driving Support (ABS)/  
Braking system

Network outage

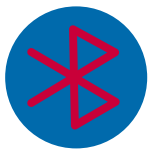


WiMax





General vision (smart cars)



Bluetooth



ZigBee



DASH7



GPS/Navigation



USB



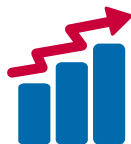
Wifi



WAVE  
(IEEE 802.11P)



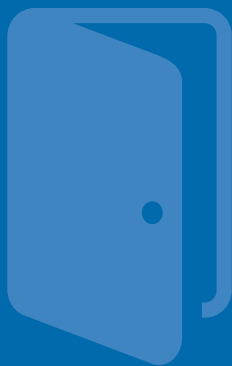
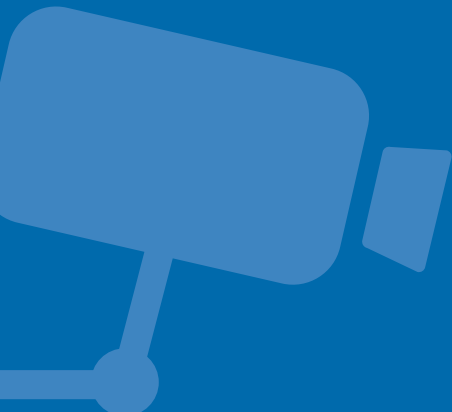
GSM/GPRS



DSCR



Diagnostics

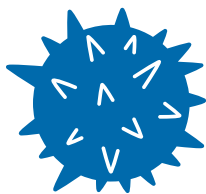


01010  
11101  
00101



**ONLINE BADGES**  
ICONS





Malware analyst



Mobile malware analyst



Hardware forensics investigator



Network forensics investigator



System forensics investigator



Intelligence analyst



Sysadmin



Pentester



Scout



Corporate espionage



Cybercriminal activity



Insider threat



Newcomer



Cyber exercise planner



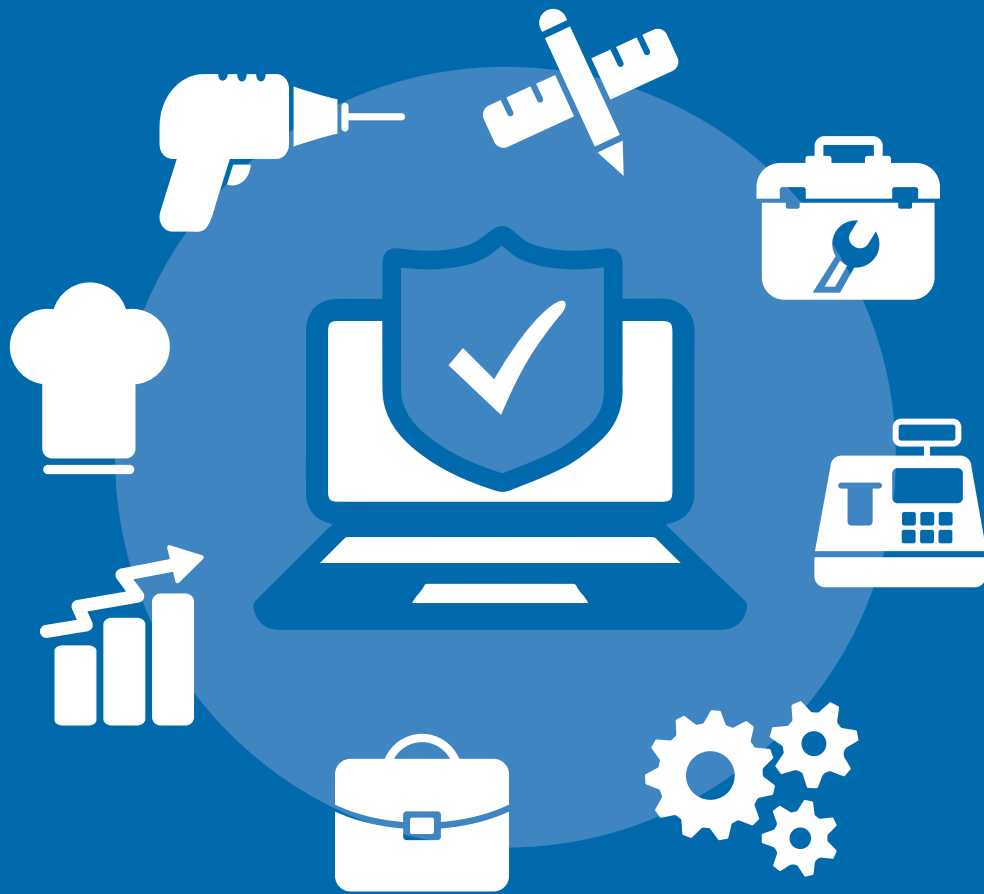
Cryptanalyst



Steganalyst







**MISCELLANEOUS**  
ICONS & GRAPHICS



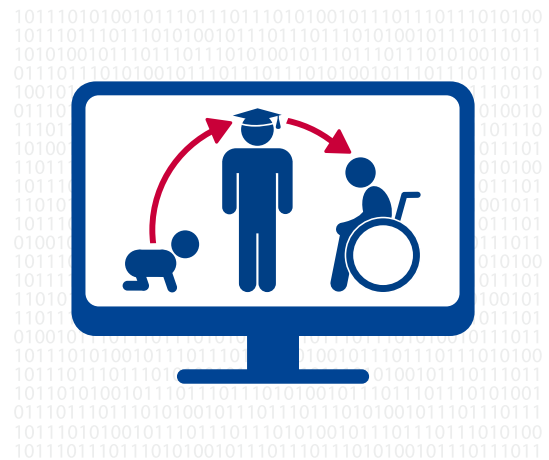
Information security and  
privacy standards for SMEs



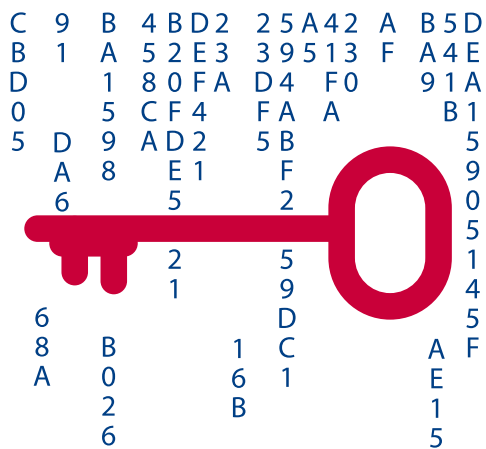
Online privacy tools  
for the general public



Privacy by design in big data



Readiness analysis for the adoption  
and evolution of privacy enhancing  
technologies



Algorithms, Key Sizes  
and Parameters



Qualified website  
authentication certificates



Threat Landscape for Big Data



Threat Landscape for Software  
Defined Networks / 5G (SDN)



National CSIRT Network



Training for Cyber Security Specialists



Cross Cooperation for CSIRT's



Data Protection



Critical Information Infrastructures and Services



National Cyber Security Strategies



Big Data and Cloud



Cyber Crisis Management



IoT and Smart Infrastructures



Standards



Electronic Identity



Incident Reporting



Threat Landscape



CSIRT/CERT Services



Cyber Exercises



Cybersecurity Education



Outline version of icons

