

An aerial night view of a city street with a green vector field overlay. The vector field consists of a central green line with a white dashed centerline, flanked by green lines that curve outwards. Several red dots are placed along the green lines, and a blue light is visible at the left end of the vector field. The background shows buildings, streets, and cars in a dark blue color scheme.

SMEVONE
Priority and Protection

Saving lives and costs with the new
SMART VECTOR TECHNOLOGY for
emergency mission vehicles in our cities.

What means SMEV?

C-C-C

Communicating communication between SMEV-App and TCC / SRU



Computing digital Optimization of free routing via TCC



Controlling of Traffic Lights along the route and adjacent streets



The situation in our cities

In emergency missions every second counts to save human lives.



According to German regulations emergency vehicles have to reach the mission location within 8 minutes.

The situation in our cities

... currently however,
the traffic situation
frequently prevents
speedy assistance.



The consequence

- Delayed arrival at the mission location
- Injured persons are being taken care of too late
- Life saving transport to hospitals are hold up
- Emergency vehicles are highly endangered to run into accidents

The situation in our cities

Accidents and costs with emergency vehicles

12 metropolises in Germany – ambulances – emergency vehicles – fire brigade vehicles

12-15 MIO

Missions/Year

> 4,5 TSD

Accidents with emergency vehicles/Year

> 40 MIO EUR

Costs due to accidents with emergency vehicles/Year



The solution

SMEV ONE enables quicker and safer travel in emergency situations, thus dramatically reducing the risk of accidents.



The solution

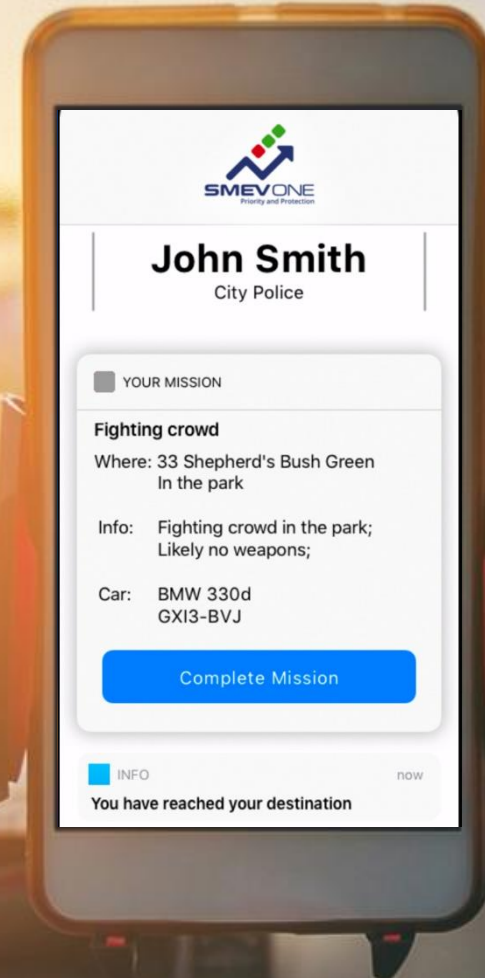
The patented **SMART VECTOR TECHNOLOGY**

enables the traffic control centre, to enable free routing for the emergency mission vehicles within a pre-defined vector : three directions blocking with red -- one free access with green

All light signal devices concerned are locked in three directions to red.

The solution

The vehicles position is send to the mission control center in real time.



The patented **SMART VECTOR TECHNOLOGY**

SMEV ONE means

- The emergency vehicle passes the crossing in any case with green traffic light
- Approaching traffic is blocked by red traffic light, even in adjacent areas to the crossing
- All traffic lights for pedestrians are switched to red
- Immediate switch back of all traffic lights to the normal program when the emergency vehicle has left the crossing

The patented **SMART VECTOR TECHNOLOGY**

SMEV ONE means

- Mission leader decides spontaneously and individually the route(s) to follow according to present traffic situation
- No time consuming manoeuvres in traffic jams
- „Silent special forces & Police missions“:
anti-terror – bank assault – hijacking – suicide avoid missions are possible now

The benefits

Faster lifesaving/faster arrival to mission location



➤ **35%** time saving
reaching the mission locally



➤ **35%** time saving on
return transport

The benefits

Reduction of accidents



Reduction of accidents at crossings from **47% to 1%**



Reduction of accidents at opposite lanes from **42% to 12%**

The benefits

Reduction of costs



➤ Up to **75%** cost saving for repairs, less shortage of mission vehicles

➤ **30%** Reduction in costs for insurance companies

Ready for the future

Autonomous cars

Selfdriving autonomous vehicles represent an obstacle for emergency vehicles.

SMEV ONE enables a real time communication via the automotive industry servers with the autonomous cars. Thus approaching emergency vehicles are recognized in time and autonomous cars can be programmed to stop or to give way.

SMEVONE

Smart Vector Technology

Priority and protection
for emergency vehicles
in Smart Cities

**TCC
PATENT BRD**

DPA 10-216-105-188

**Autonom Vehicle
EU-Patent**

EPA 5H.61562.8
Pat. pend.

The System / The Patents

**AI
EU-Patent**

EPA 19 156 011.9
Pat. pend.

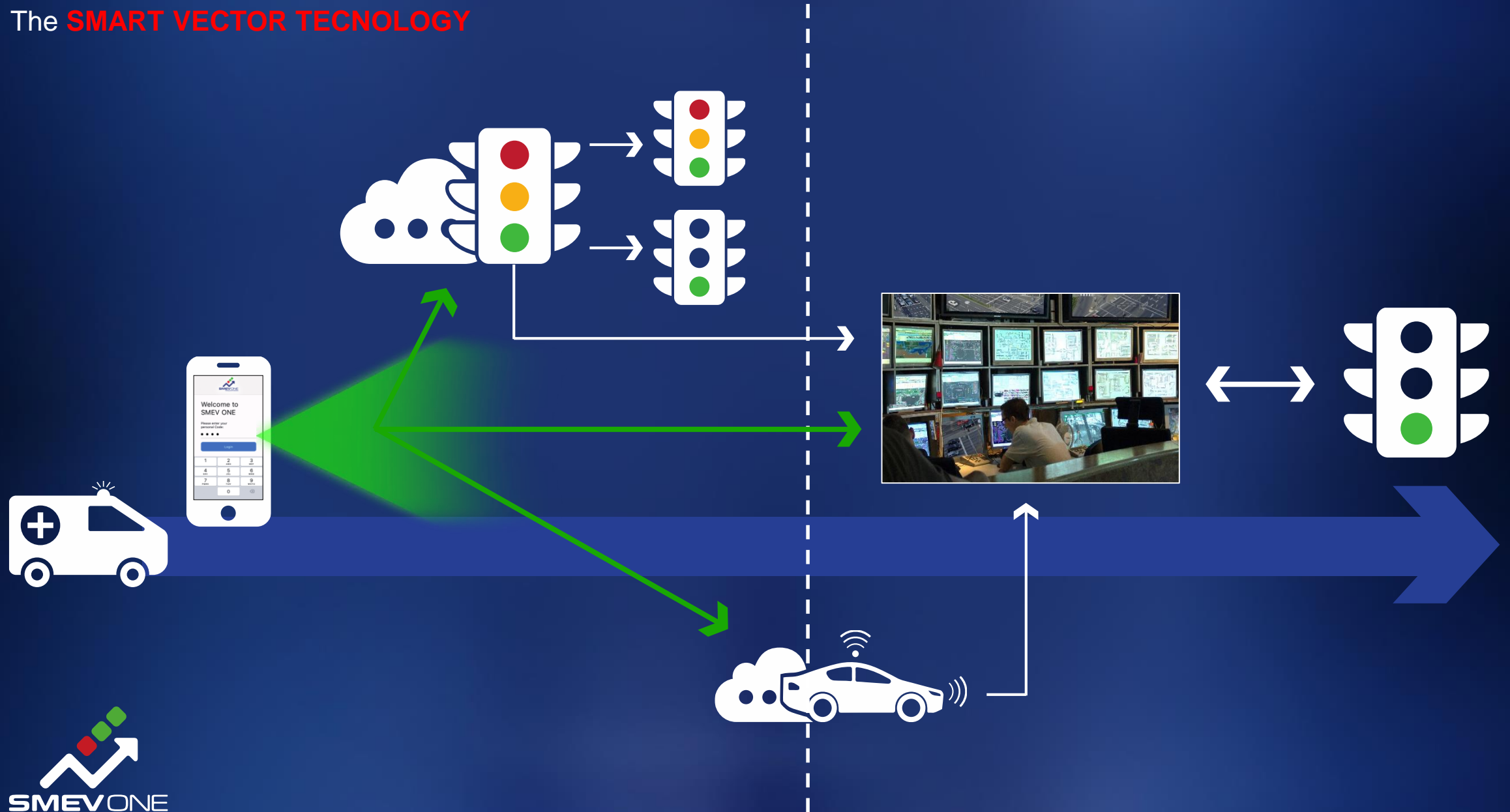
USA-Patent

USA 16141795
Pat. pend.

**SRU
EU-Patent**

EPA 10.2018123.153G
Pat. pend.

The **SMART VECTOR TECHNOLOGY**



Who we are

SMEVAG

Smart Mobility Evolution

Optimising traffic planning and management is one of the major challenges of the future

This is where our products and services come into play. For the benefit and protection of all citizens.

**We took the challenge and have the solution.
Allow yourself to be surprised.**

www.smev.ag