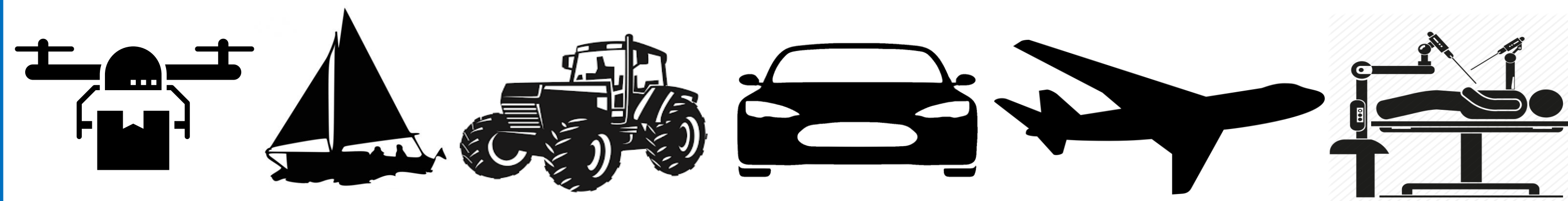


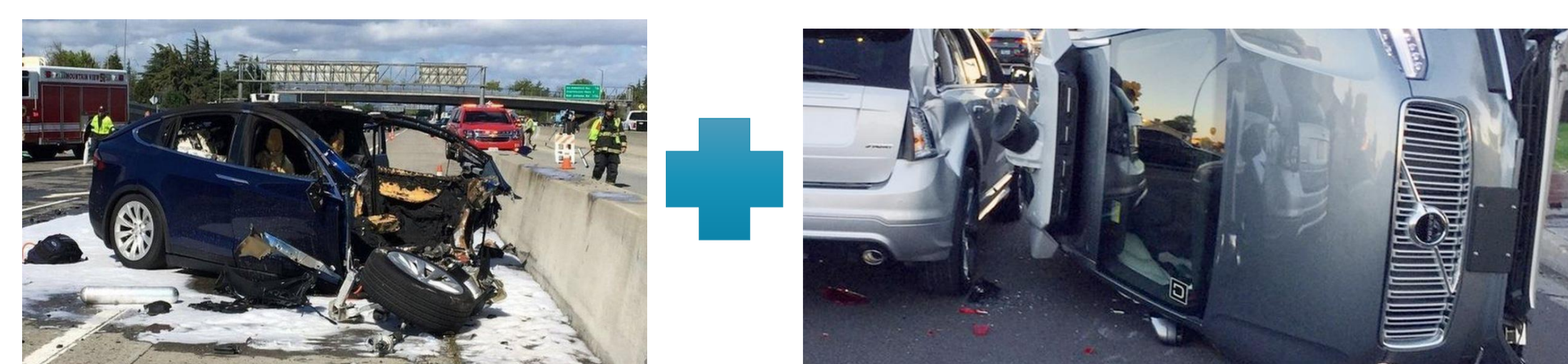


### Plans for the deployment of Autonomous Systems (AS):



Ubiquitous implementation

### Consequences of unsuccessful deployment:



All the problems endanger humans' life  
↓  
**Trust and safety problems**



**Goal:** make autonomous systems safer

**Objectives:**

### Work Packages (WPs)

#### WP1

To integrate guaranteed safe behaviour directly into the architecture/design of the autonomous system

#### WP2

To prove by model-based safety-analysis techniques that the behaviour of an autonomous system remains safe under all possible conditions

#### WP3

To ensure that the safety-assurance strategies that combine the architectural/design measures with the evidence allow to have trust in the autonomous system, which is very likely to be learning and evolving

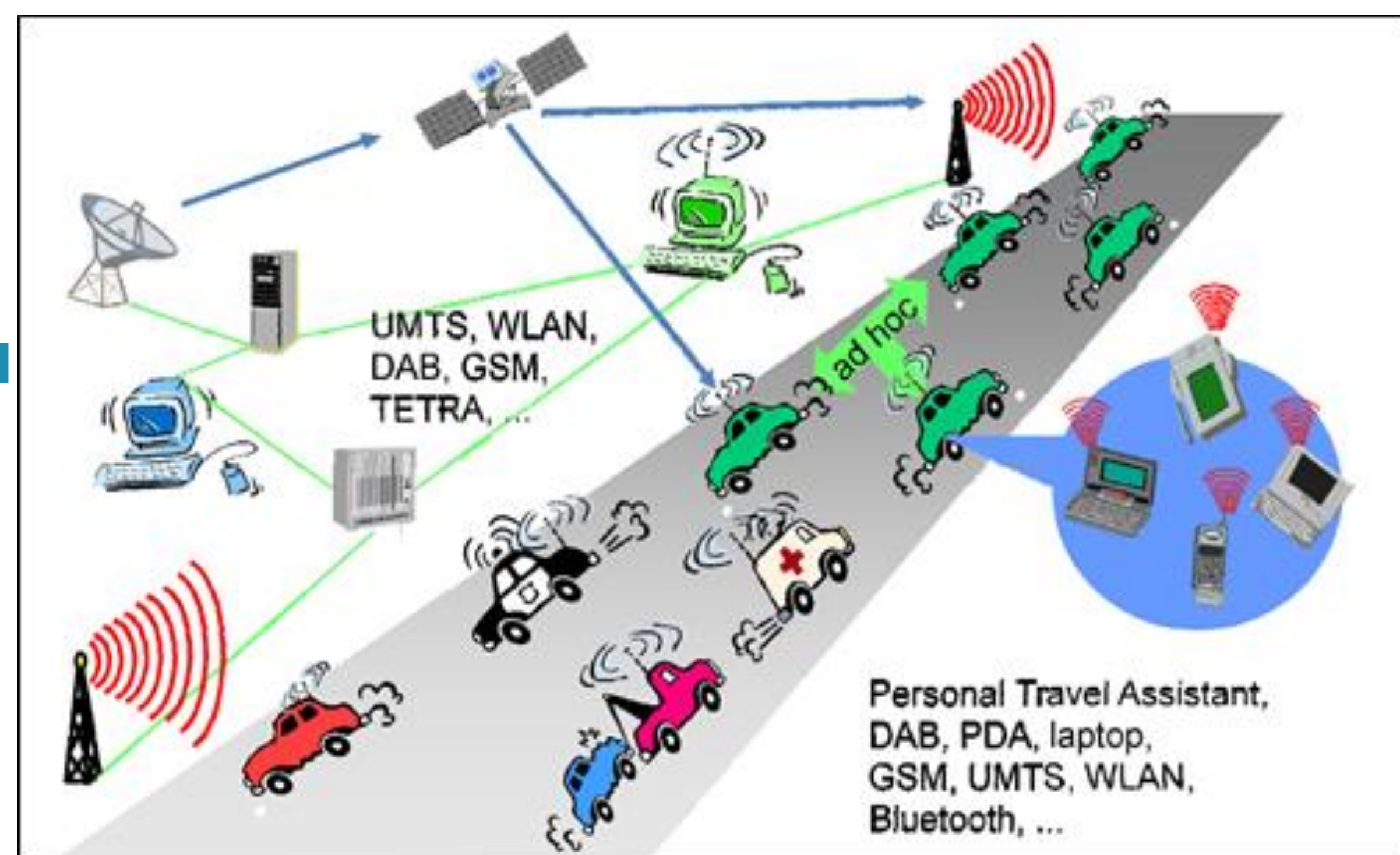
★ WP1 → Early-stage researchers (ESRs): ESR1, ESR2, ESR3, ESR4

ESR5:

Electromagnetic disturbance (EMD)

↓  
Impaired communication

↓  
**Safety-critical issue**



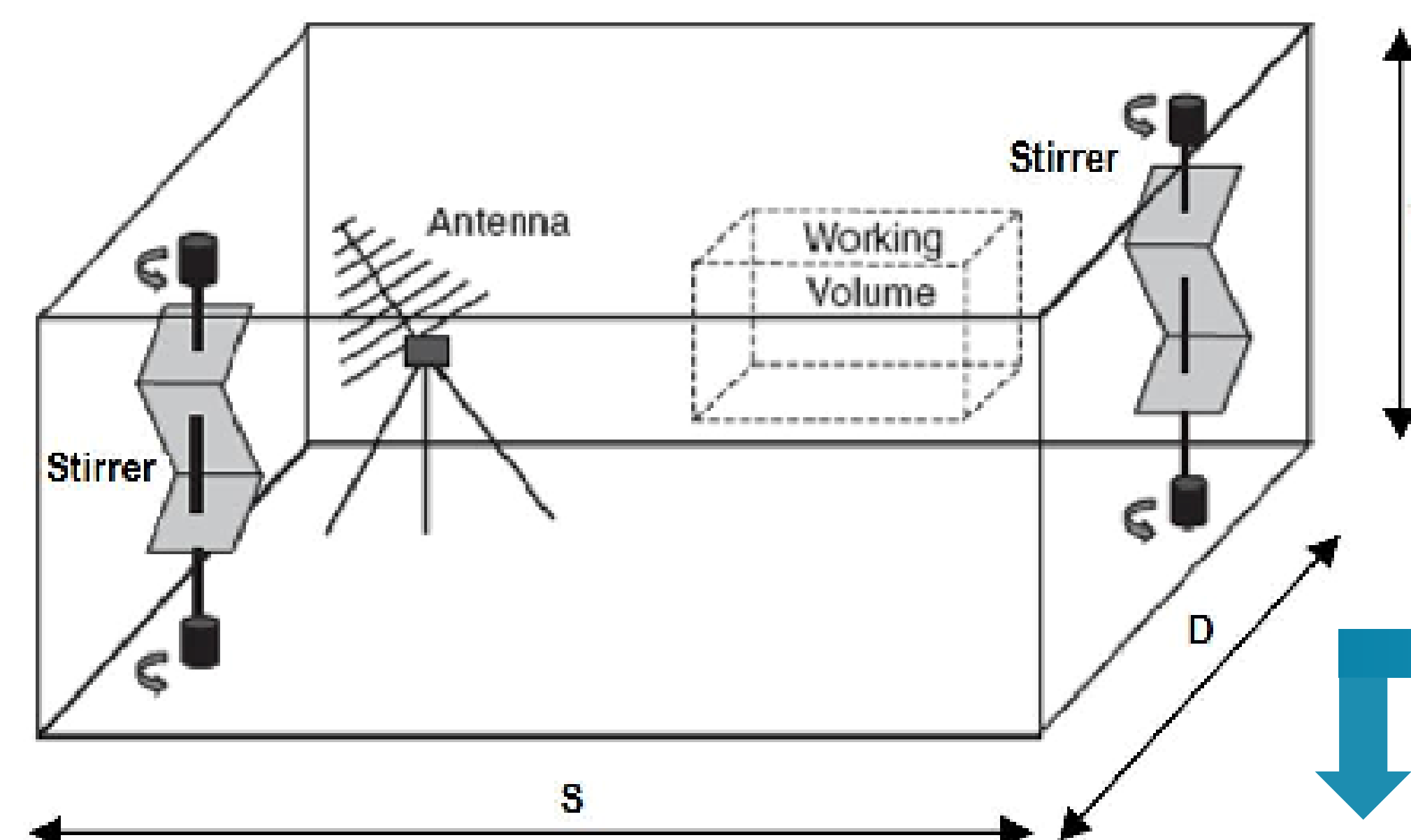
**Objectives:**

Increase the robustness of different wireless communication protocols for different types of EMD.

**Expected results:**

- Novel software and/or hardware-based techniques and measures
- Dependable wireless connectivity that is fault-tolerant or even fault-operational under diverse types of environmental stress

### Reverberation chamber as a main tool to make wireless communication more resilient



Possibility to test many of the potential wireless protocols to be used in AS:



Obtain main communication key performance indicators (KPIs):

- Packet Error Rate (PER)
- Communication latency
- Data throughput

↓  
Perform wireless co-existence tests

### Acknowledgement

This project has received funding from the European Union's EU Framework Programme for Research and Innovation Horizon 2020 under Grant Agreement No. 812.788.

