

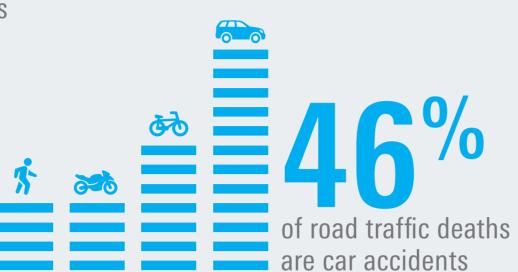
## "We make the world a safer place."

#### We verify radar technology and help save lives.

Why every millimeter counts. How radars help make autonomous cars safer.

#### **Current situation**





**European objectives** for traffic fatalities:



Accidents are caused by: Human error Vehicle failure **I** Unclear situations Poor road conditions



**1972** First experiments with radar modules mounted on vehicles are carried out





By 2023 global automotive radar market is projected to reach approx. **10 billion USD** 

# 76 to 77 GHz for automotive applications

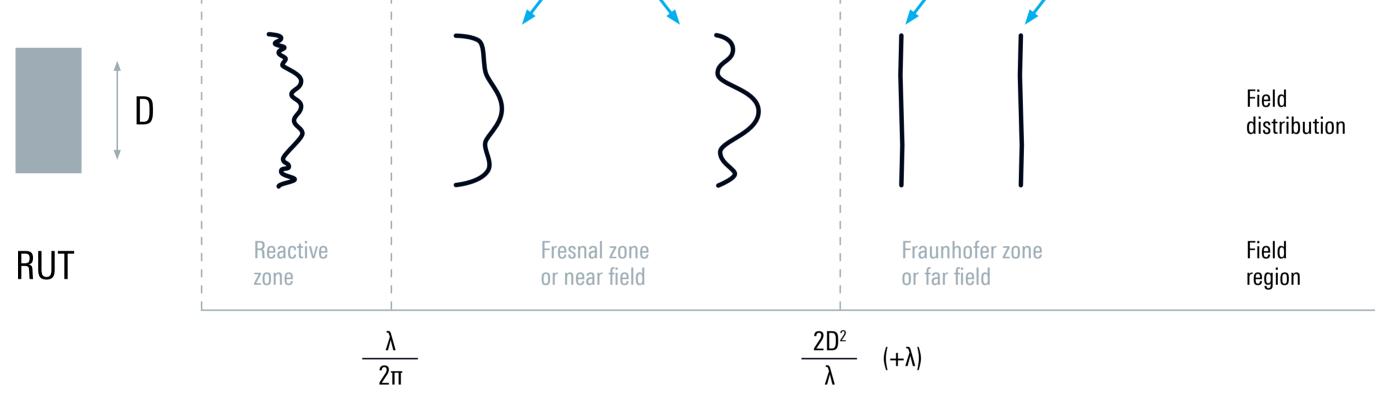
Maximum EIRP output power in dBm of automotive radar in the E-band

### **Technical insights** (near-field/far-field considerations)

For an automotive radar with a 5 cm antenna aperture, far field starts at a distance of approximately 1.3 m.

Angular field dependent on distance from RUT

Angular field not dependent on distance from RUT



# Did you know?

Every year, **1.24 million road deaths** worldwide could be prevented. **Our vision: We make the world a safer place.** 



#### Our contribution – varify/test radomes for today and tomorrow

### Our expertise





We make the world a safer place. For more information, visit our website: www.rohde-schwarz.com/radar