



# Optik auf dem Mars?

Rahmenbedingungen für Spitzenforschung und Innovation in Deutschland

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We enable the digital age



The background of the slide is a close-up photograph of numerous fiber optic cables. The cables are dark blue and extend from the bottom left towards the top right. At the ends of the cables, there are bright, glowing points of light in shades of yellow and white, creating a starburst effect against the dark background. The overall image conveys a sense of high-speed data transmission and modern technology.

We enable modern communication

We drive life science  
and healthcare development



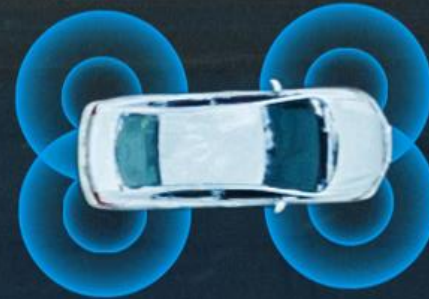


We provide flexible solutions  
for production efficiency





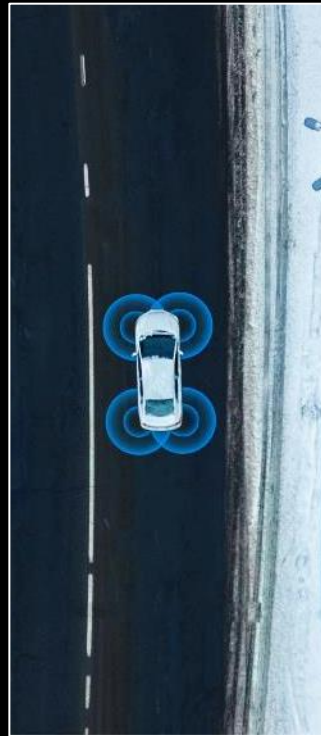
# We make roads and cities safer





# Photonics is the mastery of light!

The 21. century is the century of photonics. Photonics powers everything from fiber-optic data networks, to laser cutting, autonomous vehicles, disease diagnosis and many more.



Photonics market  
estimated to reach  
**~920 bn USD**  
growing at a  
**CAGR of >8.0%**  
by 2025

Source: Triton Market Research

An industry with a solid basis

➡ 74 Mrd Euro total sales p.a.

➡ 330.000 Employees

Yet,





## Promotion of research and innovation in Germany - top class?

### ➔ Government spending on applied research as % of GDP

- Germany: 0,3%
- Italy: 0,5%
- France: 0,8%
- EU average: 0,4%

### ➔ Funding for joint industrial research (important for medium-sized companies) in Germany: 200M Euros p.a.

### ➔ Assessment processes for industrial research and development is way too slow







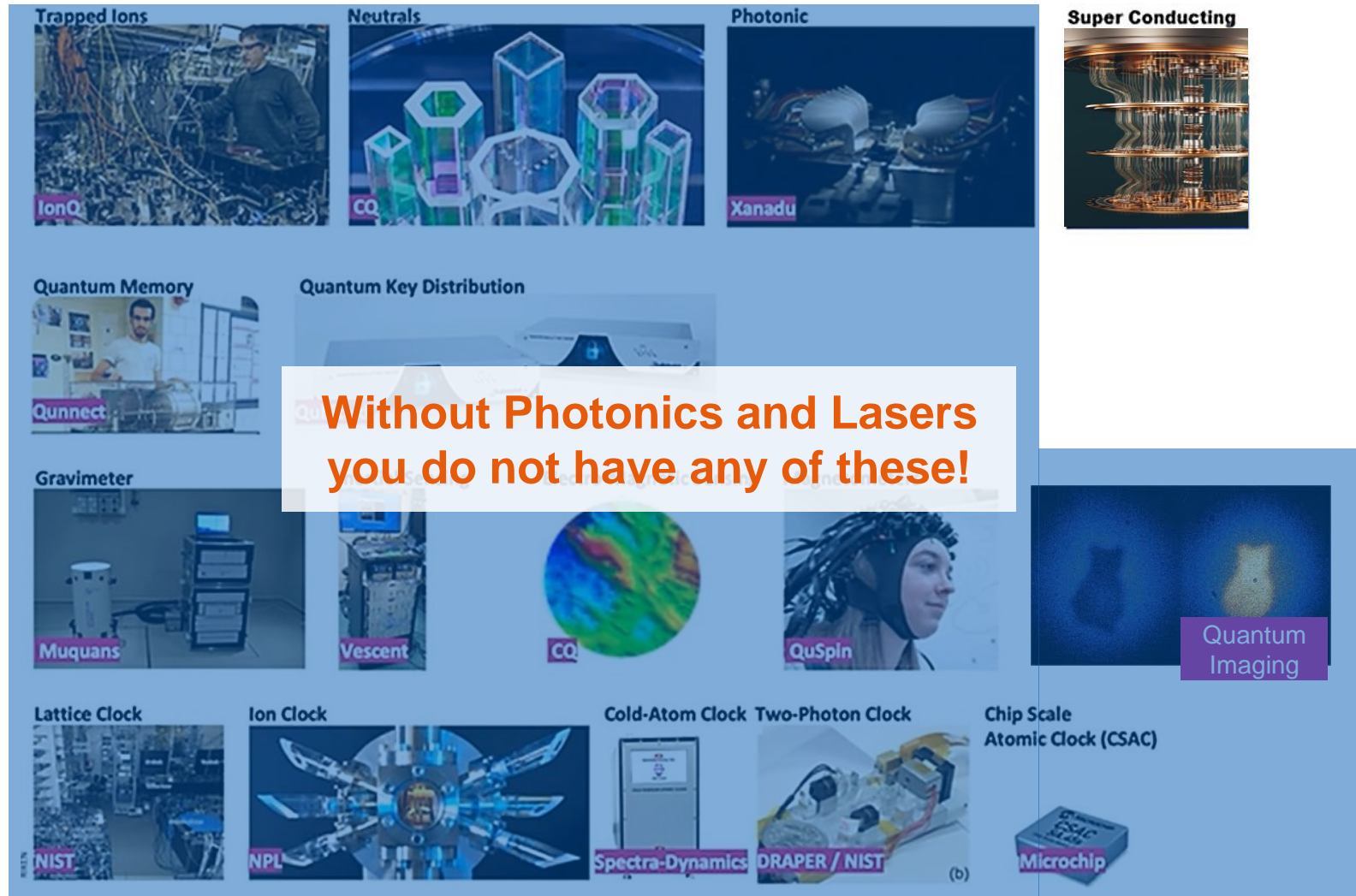


# Quantum Technologies

Quantum  
computing

Quantum  
communication

Quantum  
sensing &  
imaging





# We explore new worlds

Let's get out of our labs!

Let's go to GEMBA!

