



Brighter Futures with the Power of Light

How Photonics Address Societal Challenges

Dr. Stefan Traeger



We enable the digital age



We enable modern communication

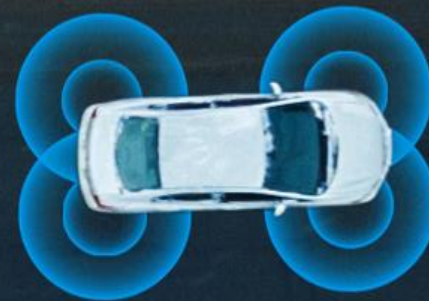
We drive life science
and healthcare development



We provide flexible solutions
for production efficiency

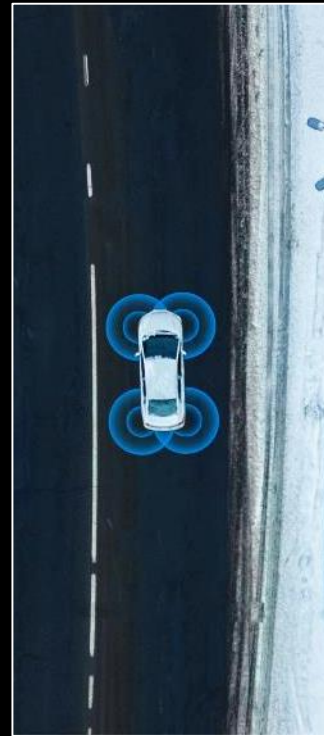


We make roads and cities safer



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

Extended reality is at an inflection point – a large variety of hardware solutions are there; content is about to be developed... “Metaverse”



Link
Metaverse

Will quantum technology reach an inflection point soon?

Let's try an answer – but it is definitely incomplete:

1. Promises and Hopes

- Unthinkable increase of computing power through quantum computing
- Increased sensitivity in small devices through quantum sensing
- Uncrackable encryption by quantum communication

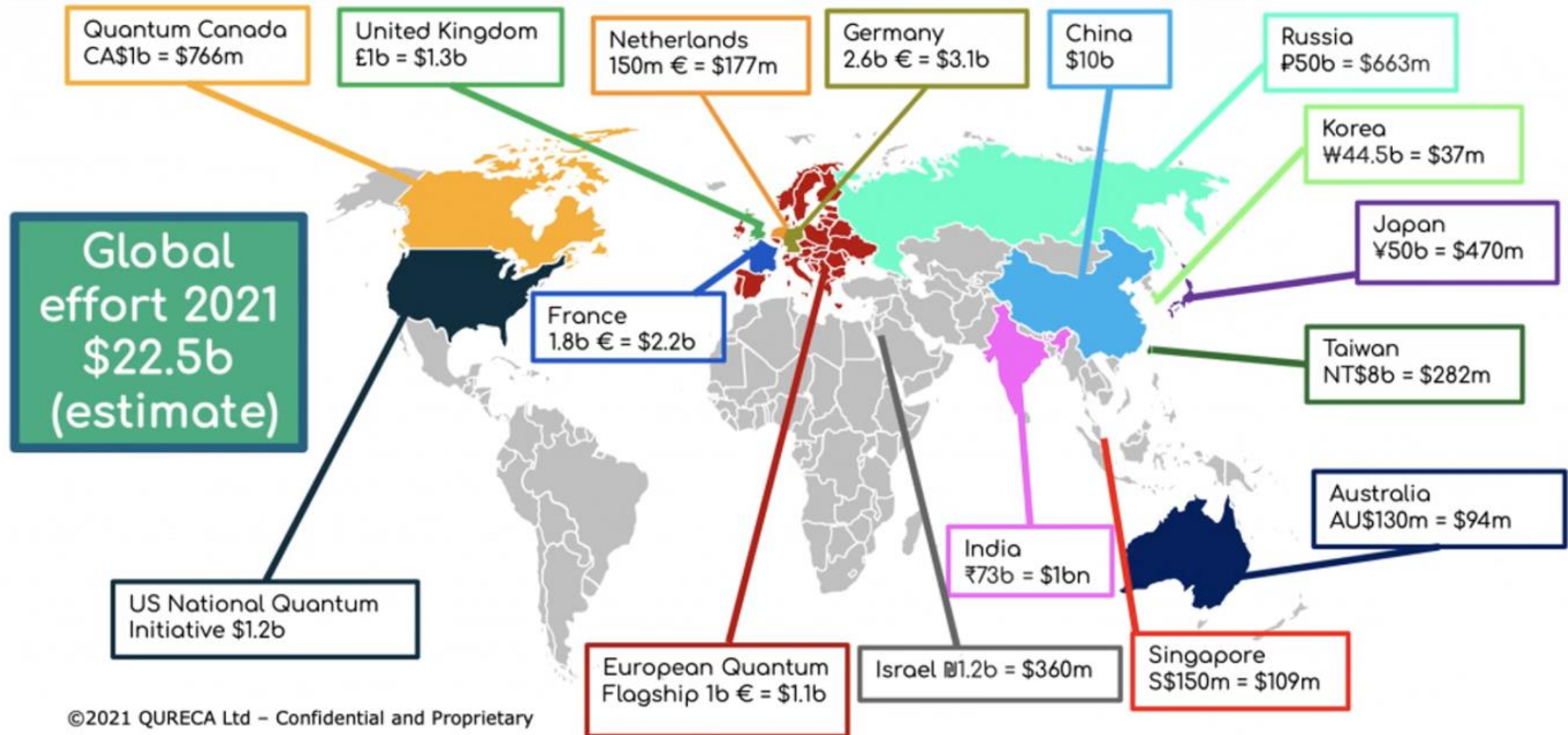
2. Why is it fancy?

- Money and Funding
- Need for breakthrough innovation → solve the big issues
- Political amplification: Race to the qubit



Or is it just a hype?

An overview on quantum initiatives worldwide



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We explore new worlds

See you around...on planet Mars!

