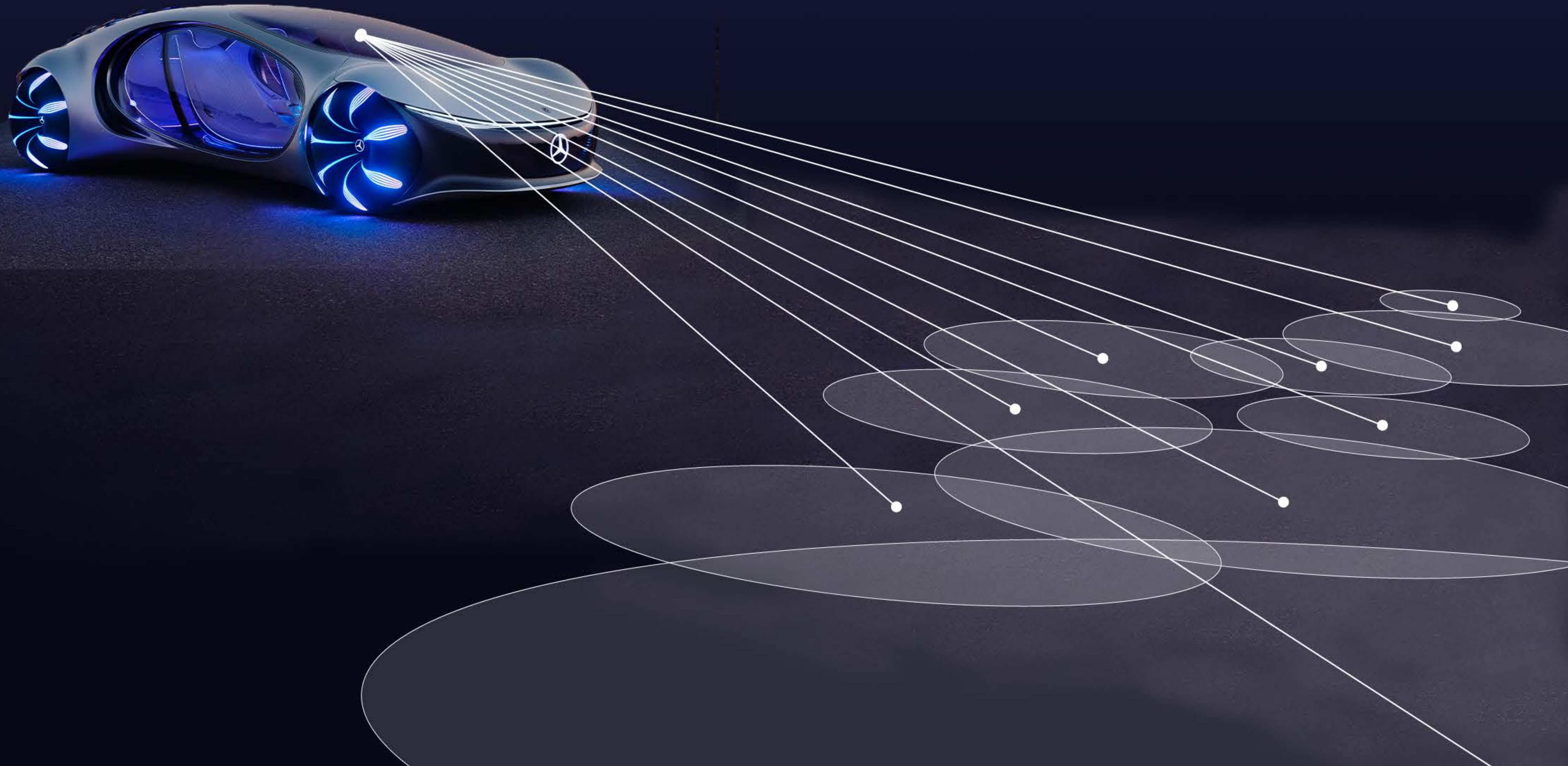


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LiDAR for autonomous
vehicle



**\$5.4 billion
in 2030**

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Legacy Time of Flight (ToF) LiDAR

- On the market
- Relies on cheap lasers with low coherence



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- Limited range (eye safety related)
- Light interference degrade performance
- Poor immunity to LiDAR interference
- Weather performance
- Limited resolution
- No instant velocity



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Coherent (FMCW) LiDAR

- Long range (>200 m)
- Immune to light interference
- Immune to LiDAR interference
- Works in inclement weather
- Provide instant velocity and distance

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LiDAR for autonomous
vehicle



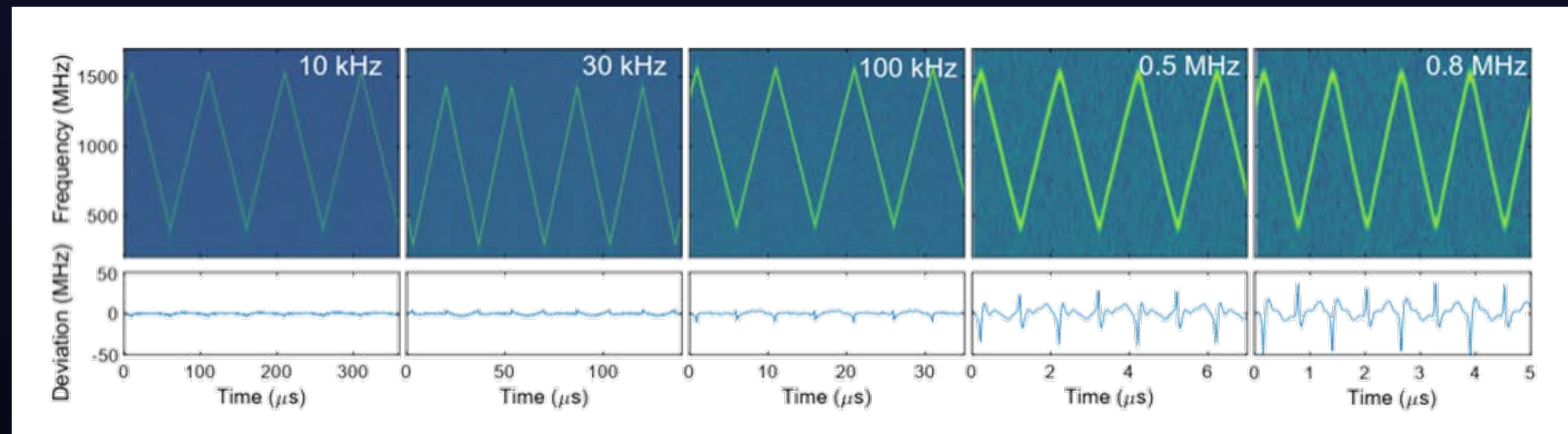
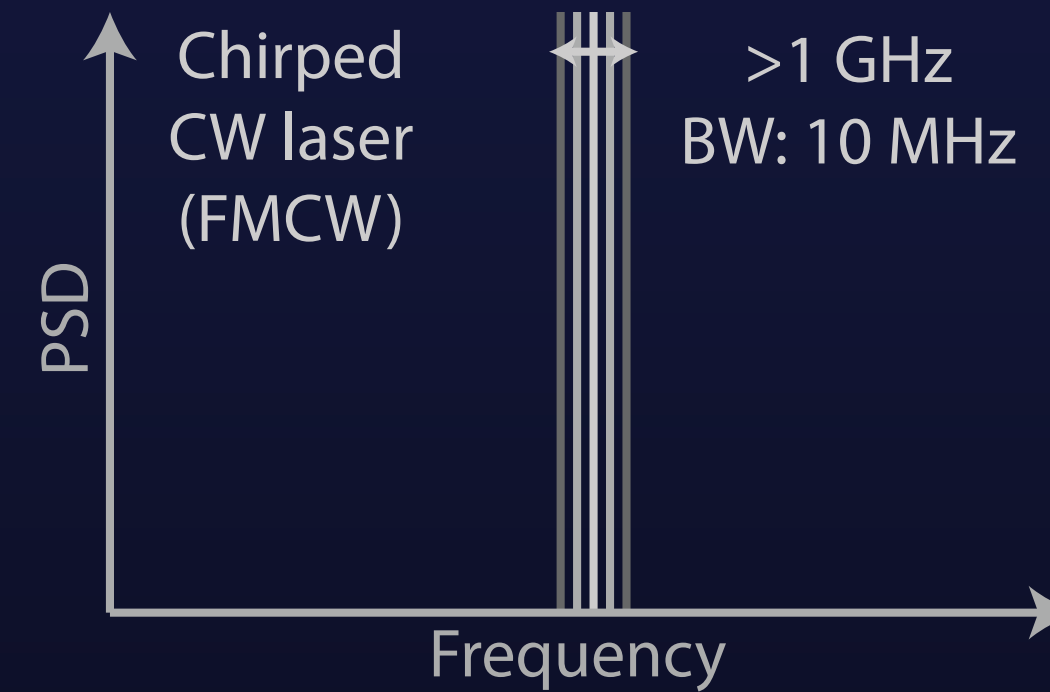
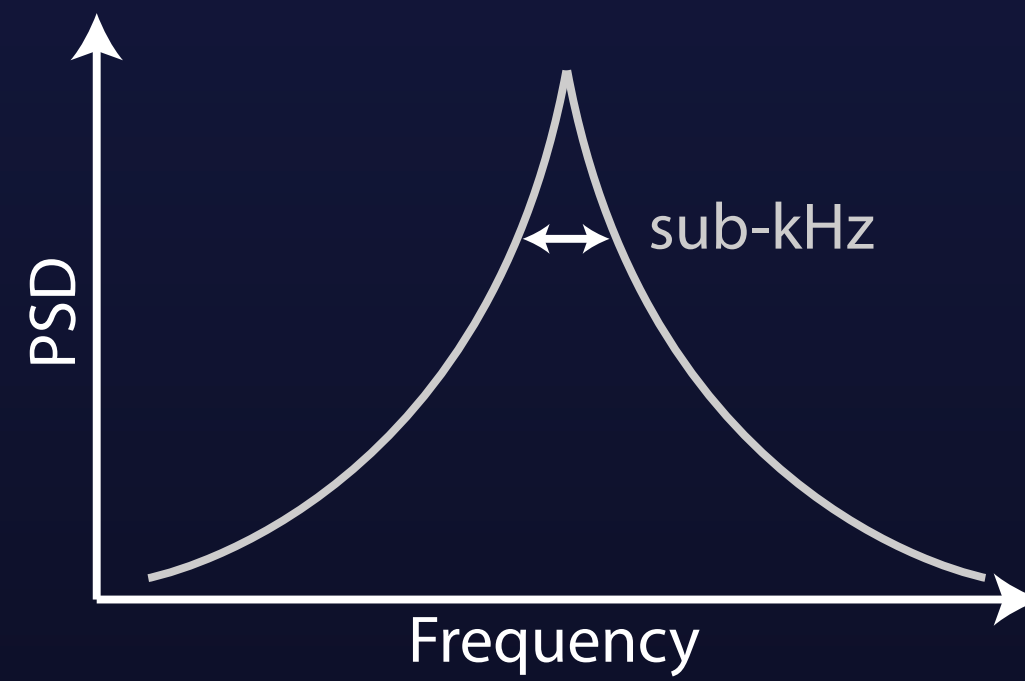
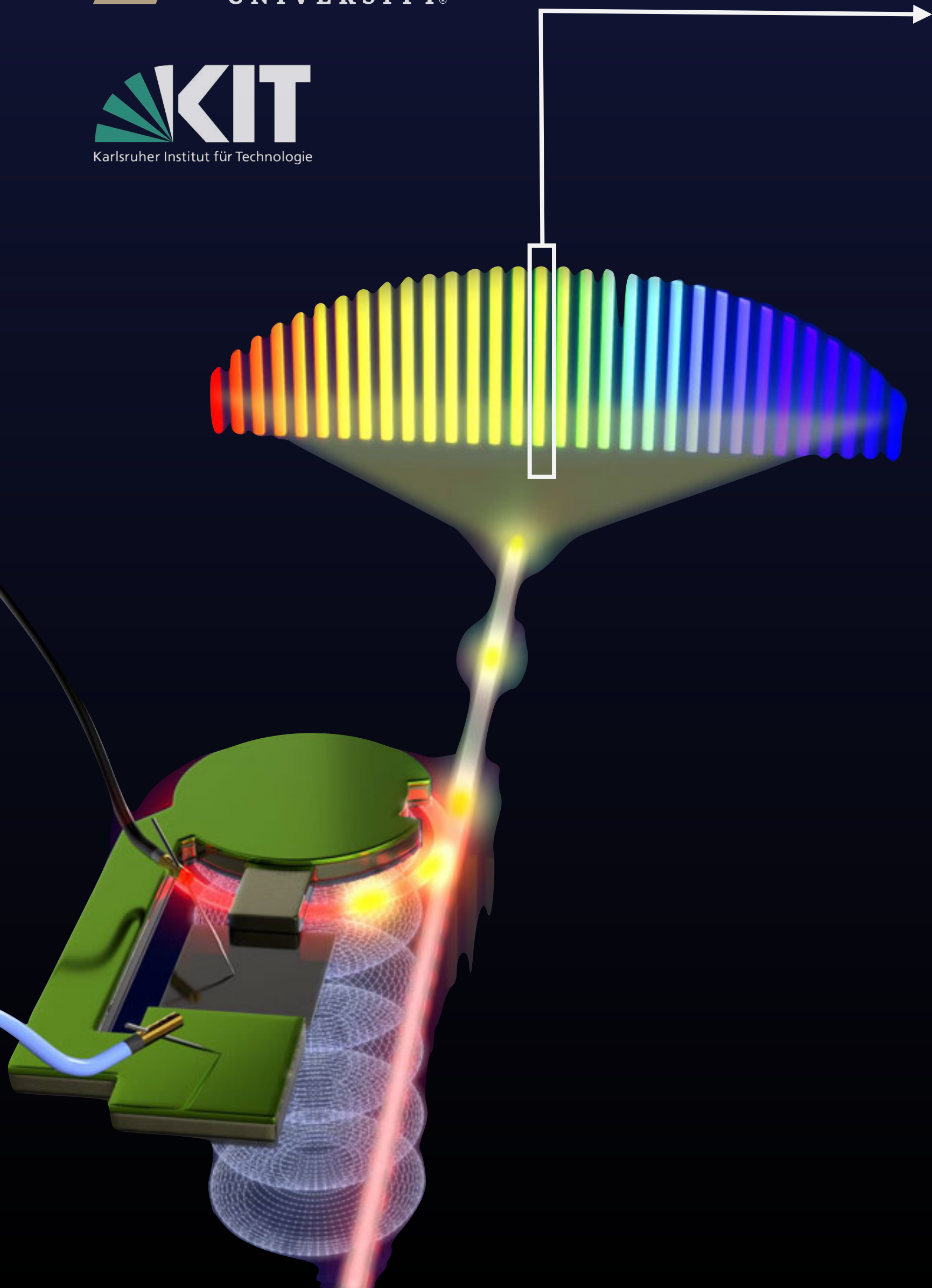
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- Provide instant velocity and distance
- Requires multiple high cost lasers
- Unproven Scalability



Product

Ultra-narrow linewidth laser with MHz-rate tuning and high linearity:

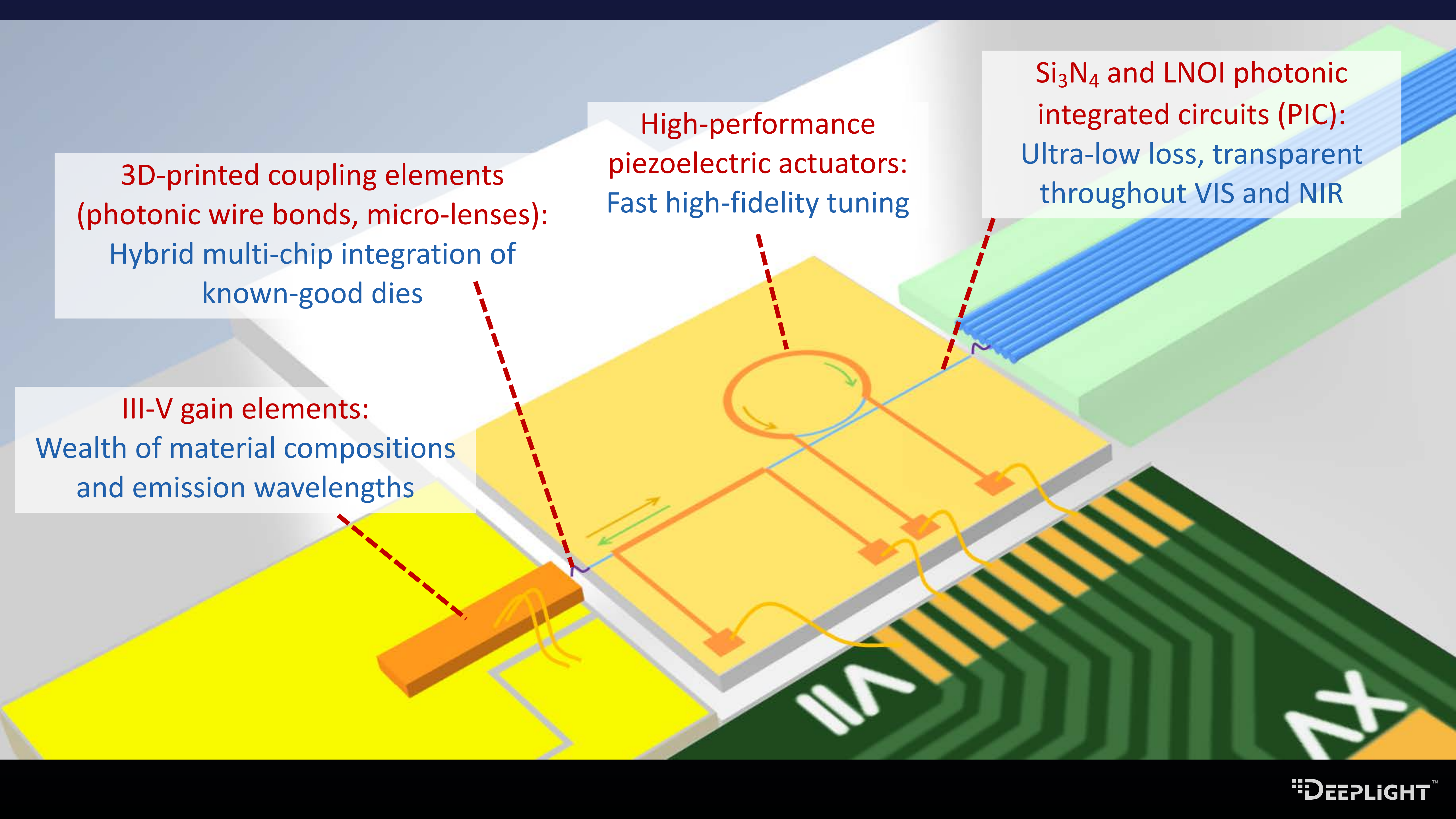
- Unprecedented flat tuning bandwidth of >10 MHz
- Continuous laser frequency tuning of >1 GHz
- High power >13 dBm (20 mW) output power at 1550 nm

3D-printed coupling elements
(photonic wire bonds, micro-lenses):
Hybrid multi-chip integration of
known-good dies

High-performance
piezoelectric actuators:
Fast high-fidelity tuning

Si_3N_4 and LNOI photonic
integrated circuits (PIC):
Ultra-low loss, transparent
throughout VIS and NIR

III-V gain elements:
Wealth of material compositions
and emission wavelengths



2021

Deeplight Incorporation

Q3 2022

Round A

3 MEUR

2024

Round B

15 MEUR

Technology validation with
Tier 1 suppliers

Fully integrated
product

Scaling of production



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