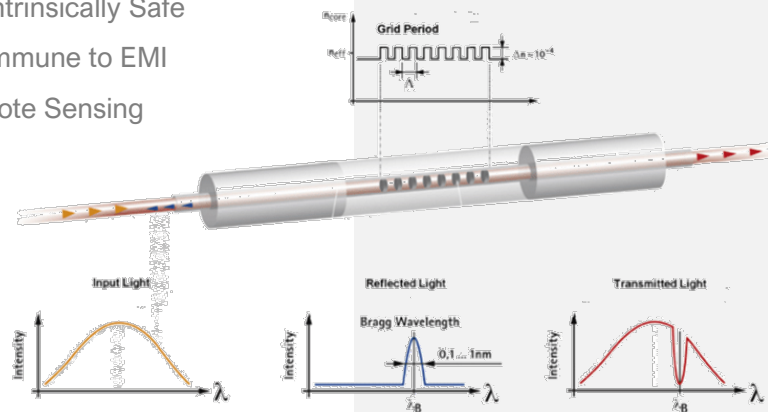


Integrated Photonics Sensing

The Gator Platform

Fibre Bragg Grating (FBG)

- Totally Passive | Small Size & Weight
- Chemically Inert | Intrinsically Safe
- Non-conductive Immune to EMI
- Low Loss | Remote Sensing



STRAIN

- Vibration & Shock
- Load & Force
- Shape Sensing
- Haptic Feedback
- Health & Usage
- ...

TEMPERATURE

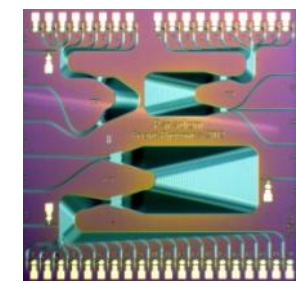
- Temperature Isolation
- Thermal Mapping
- Multiprobe Catheter
- ...

PRESSURE

- Pressure Sensing
- Flow Sensing
- ...

Photonic Integrated Circuit (PIC)

- Small Size, Reduced Weight
- Improved Thermal and Vibration Stability
- Hybrid Integration of Optics and Electronics
- Improved Reliability | Low Power | Low Costs



Roadmap to Cost Reduction through Miniaturization & Volumes

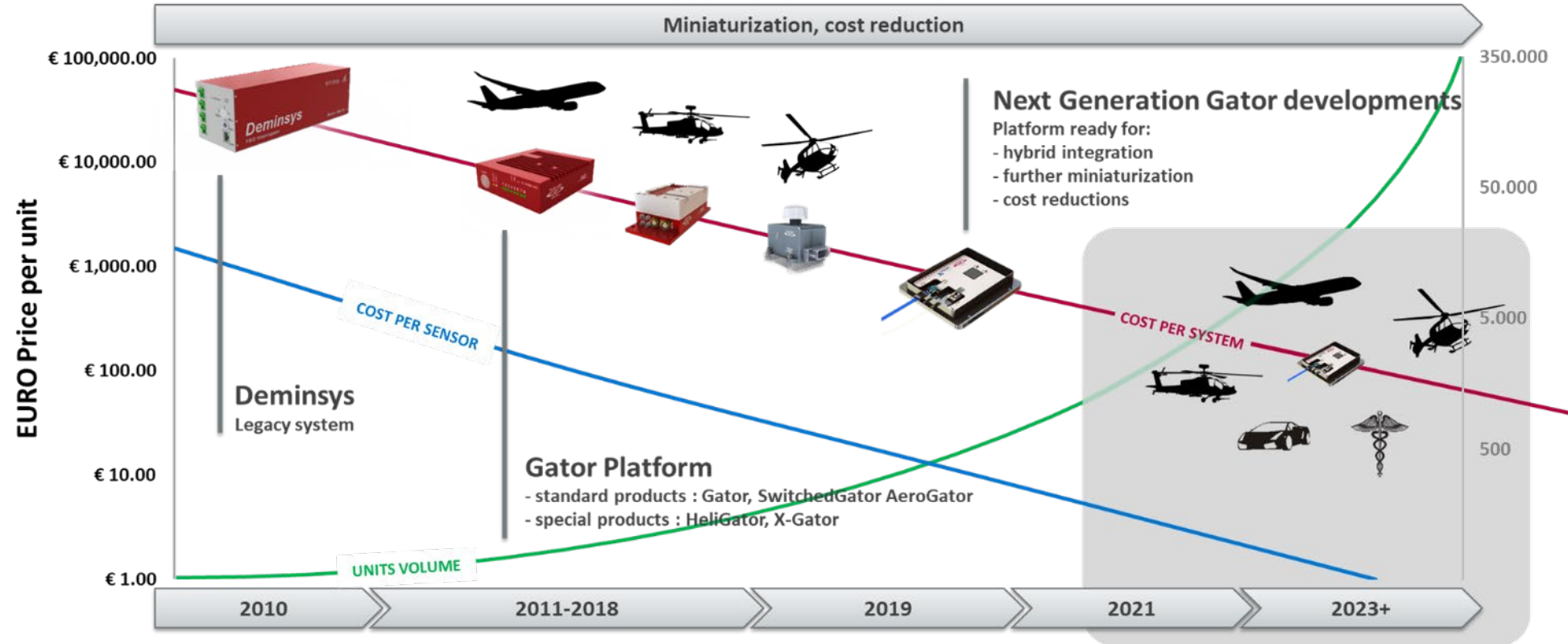
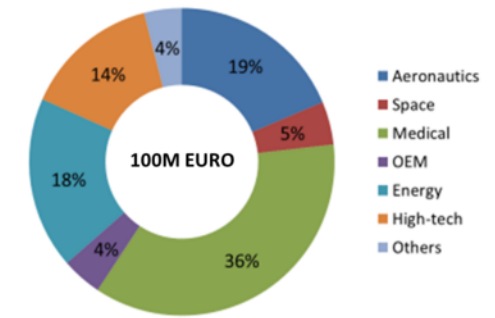


(since 2015)

In 2017, the Global Photonic Integrated Circuit Market was valued at USD 383.90 million, and is expected to reach a value of USD 1522 million by 2023, at a CAGR of 26.4%, over the forecast period (2018-2023)

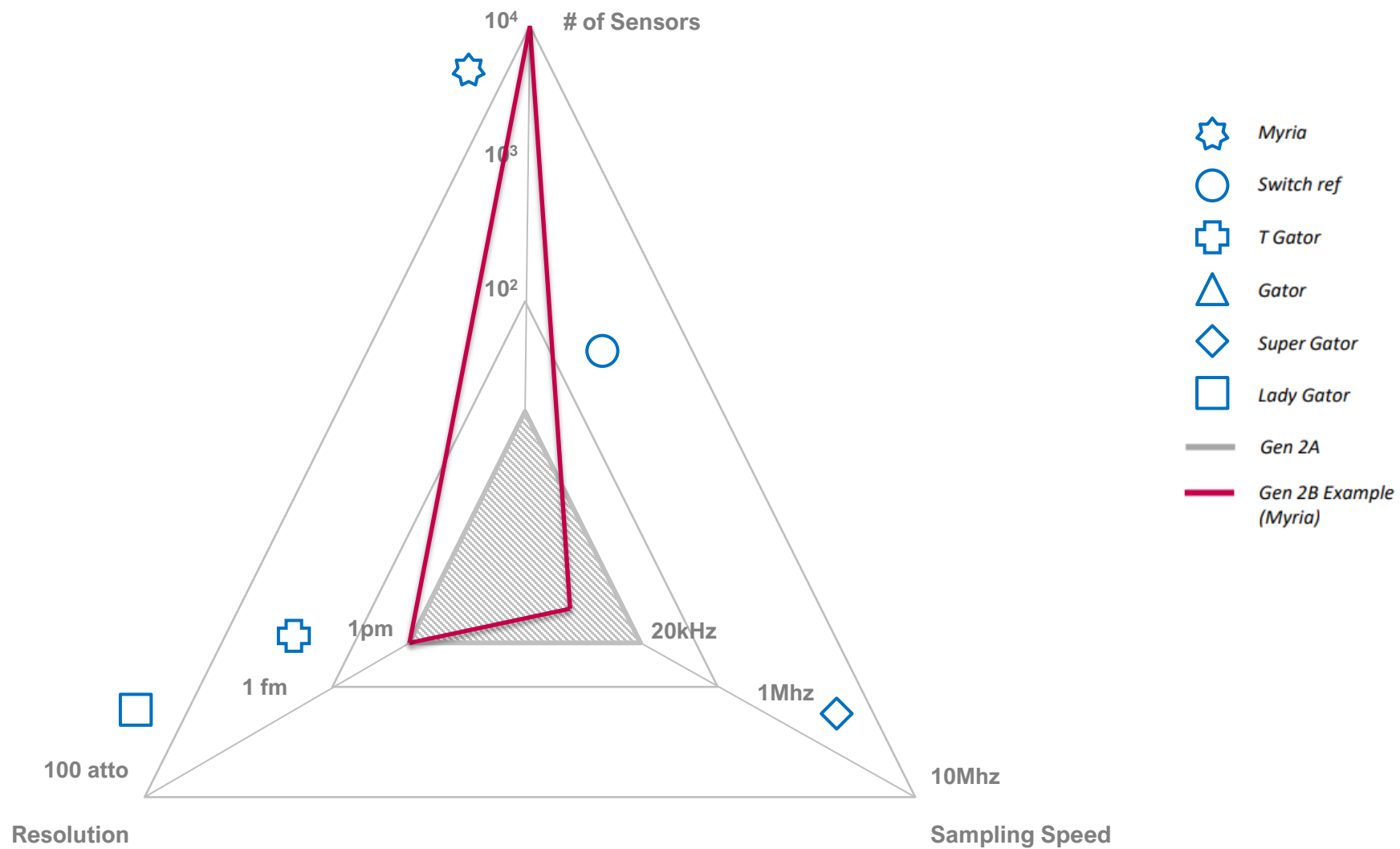


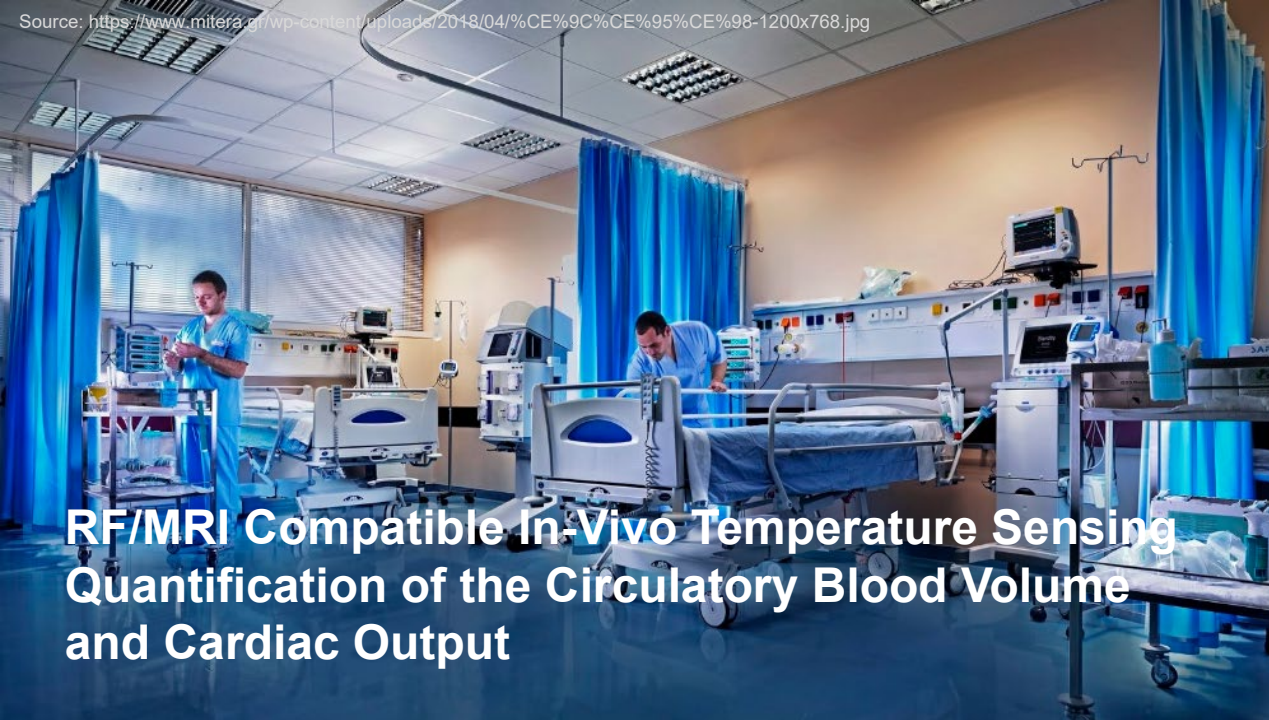
Forecasted turnover of ASPIC based fiber sensing systems per market in 2022+



Where does our technology differentiate?

Integrated Photonics Sensing





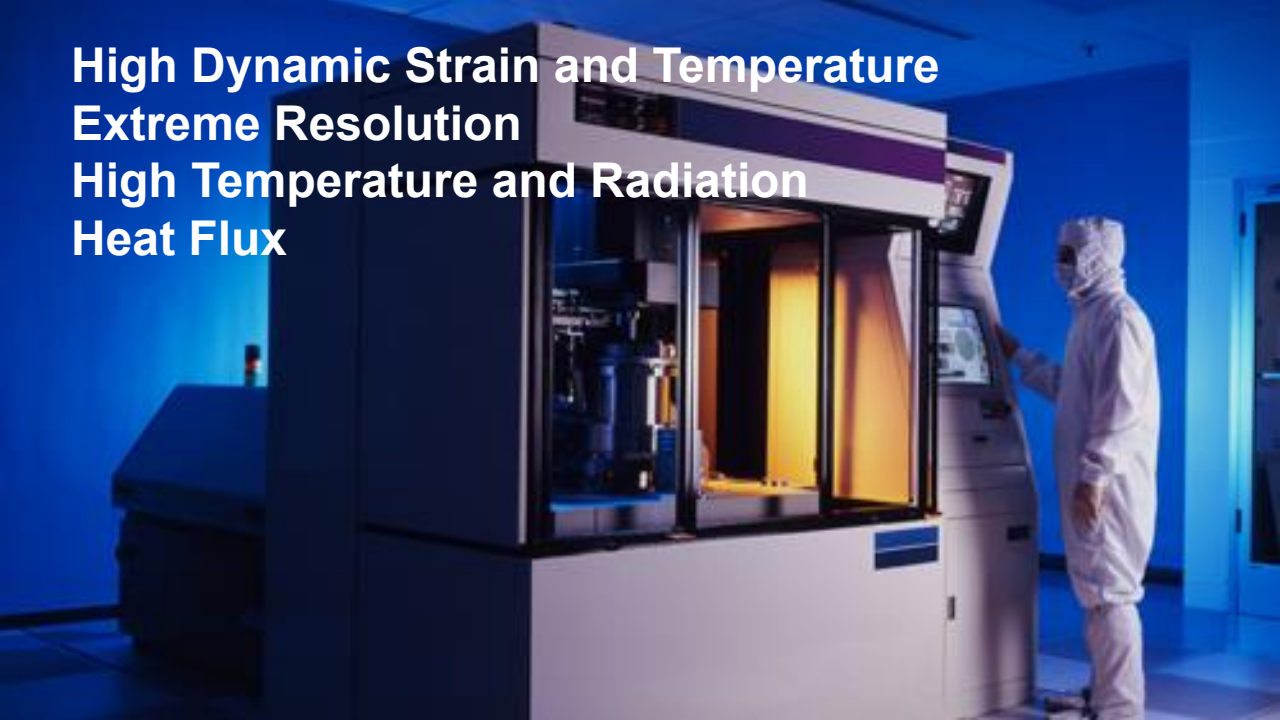
**RF/MRI Compatible In-Vivo Temperature Sensing
Quantification of the Circulatory Blood Volume
and Cardiac Output**



**Battery Monitoring
Downforce and Vibration
Crash Testing**



**Overheat Detection
Health & Usage Monitoring
Landing Gear Load Sensing**



**High Dynamic Strain and Temperature
Extreme Resolution
High Temperature and Radiation
Heat Flux**