



\$170B+ sensor market with \$25B+ in high resolution, high sensitivity use cases suited for quantum sensing

\$170-200B TAM

Global sensor market

\$25-40B SAM

Expected quantum advantaged sensor market

\$3-5B SOM Quantum Sensor market

Market by 2030

Source: Boston Consulting Group 2023



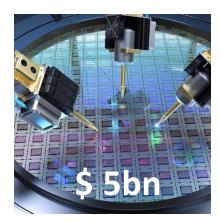
Scientific Instrumentation



Navigation



Bioimaging



Semiconductor



Diagnostics



Defense

It's About Tech # 10

Technologies and measured properties

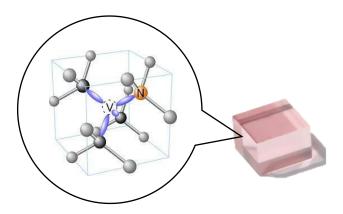
	Technology				ĴĴŢ̂ţ	3 2 3
Physical property		Nitrogen vacancy centers	Cold atomic clouds	Atomic vapors	Photonics	Superconducting circuits
4	Magnetic field			✓	•	
煮	Electric field	⊘	_	⊘	•	_
	Time and frequency	_	-	•	_	_
0	Temperature/Pressure		-	_	_	_
>>>	Acceleration	_		_	_	_
(Rotation				_	_

Quantum Sensing With Diamonds

Unique material

Ultra-pure diamond substrates are doped with Nitrogen atoms to form Nitrogen-Vacancy (NV) centers (quantum system).

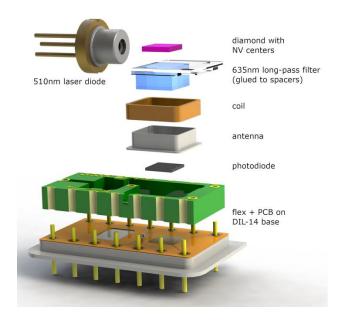
- Quantum sensitivity
- Industrial production
- Scalable manufacturing



Integrated technology

Complete sensor combines photonics, and RF technologies

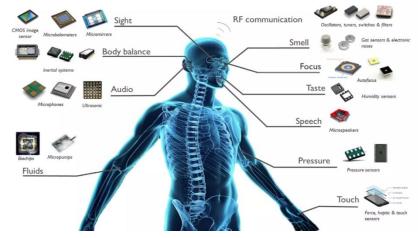
- Established micro-fabrication processes
- Miniaturizable



Platform

Extended range of measurement capabilities for diverse set of applications

- Magnetic field sensor
- Metal detection
- Ampermeter
- High frequency spectrometer
- Gyrometers
- ...

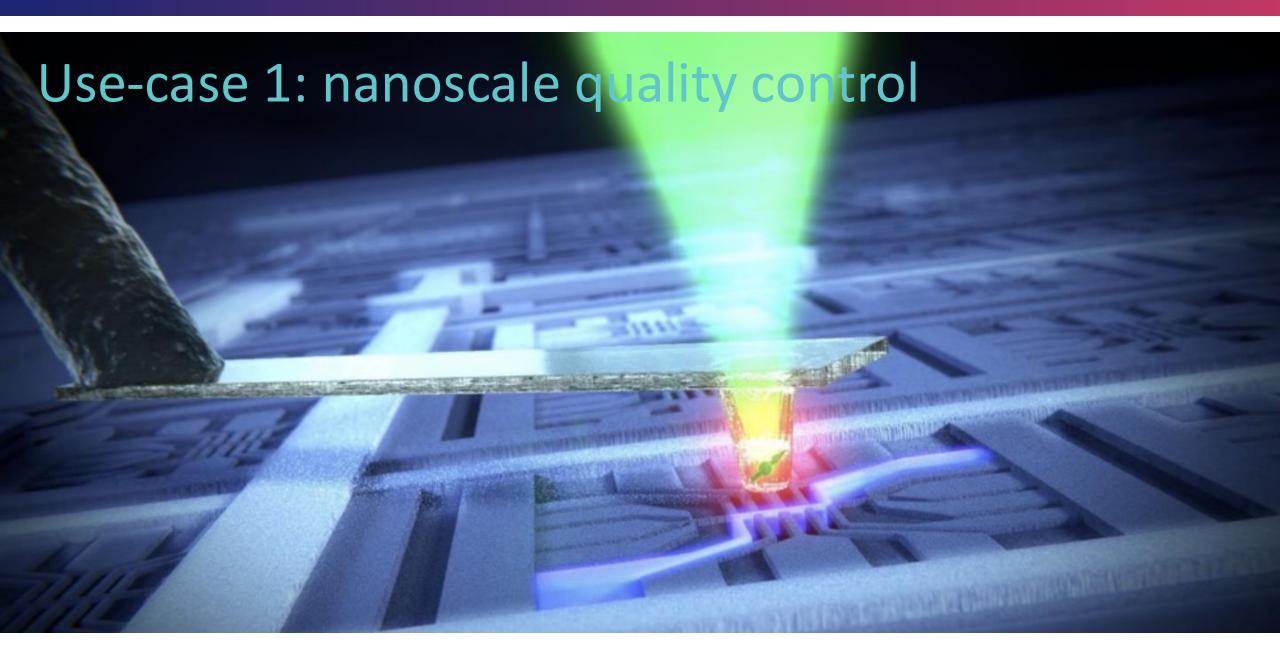


MEMS sensors (srce. Yole development)

Quantum Sensing With Diamonds

Path to \$ Bn SOM defined by technical milestones in magnetic sensing and expansion to new sensing modailites





Use-case 1: nanoscale quality control

Need:

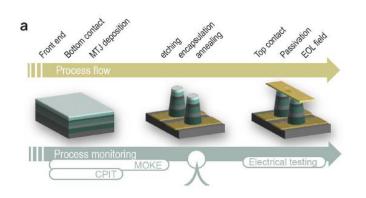
Metrology solution for bleeding edge chip design validation

Customer:

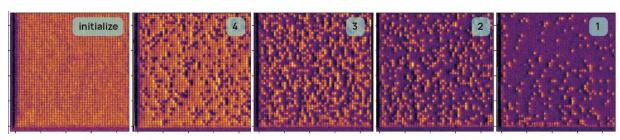
Semiconductor industry, battery manufacturers

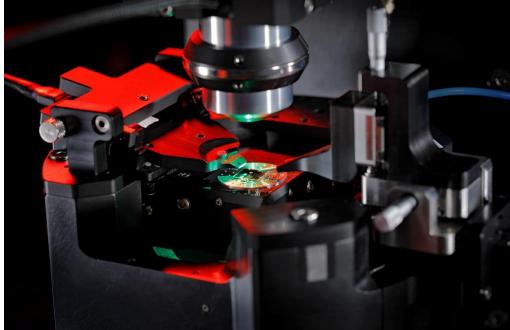
Solution:

Qnami ProteusQ: complete quantum imaging system









Use-case 2: mineral exploration

Need:

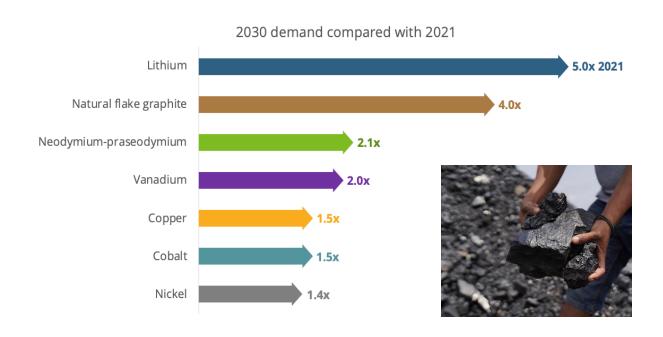
Fast, cost-effective identification of critical mineral ore deposits

Customer:

Mining majors and juniors

Solution:

Compact, rebust, drone compatible sensor





Use-case 3: neurotechnology

Need:

Non-invasive detection of neural activity

Customer:

Hospitals, Consumers

Solution:

Non invasive, high sensitivity sensors







Shaping the industry

Diamond wafer

Quantum wafer

Nanofab

Device/Sensor

System

Application













<u>Challenges</u>

- Case for change
- Product design, standards
- Volume production, miniaturization, costs
- Regulatory compliance, safety
- Data corruption

Business models

- Foundry
- Sensor manufacture
- Data provider
- And everything in-between

It's About Tech # 10

Qnami AG

Incorporation: 2017

Headquarter: Basel (CH)

Quantum Foundry: Villingen (CH)

Qnami Germany GmbH (DE)

Team: 15+

Patents: 10

Academic and industrial partners:











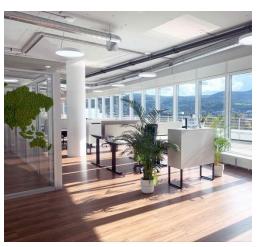
Backed by tier-1 quantum investors:



























It's About Tech # 10

Quantum & Switzerland

- New technology with enormous potential economical impact and critical importance with regard to safety and sovereignty
- Historical strength in CH through decades of investments in fundamental research
- Industry leaders in all pillars
- A complex technology requiring large investment and pan-national collaborations
- Switzerland in Europe: a role to be defined





Investment opportunity open now

www.qnami.com