



The quantum ecosystem: careers and resources

Dr. Araceli Venegas-Gomez
Founder & CEO QURECA

Summary

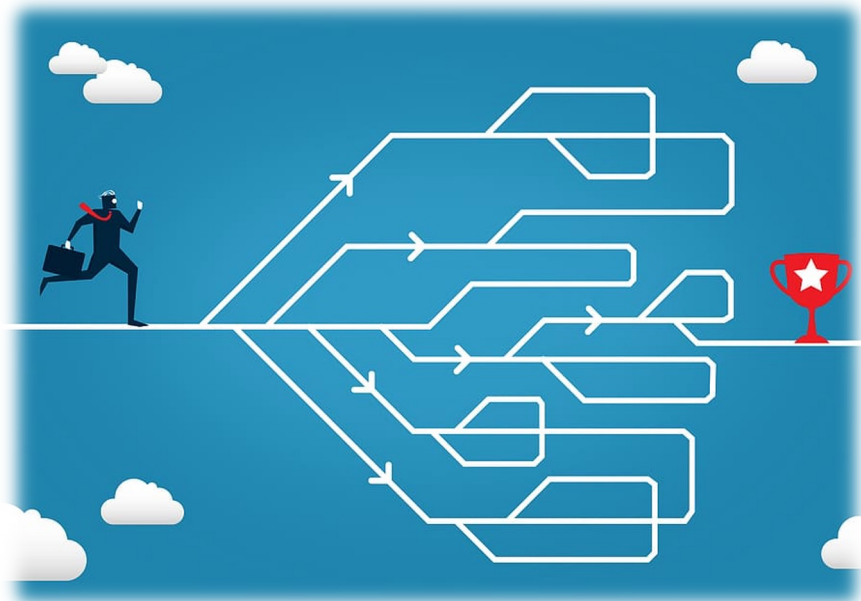
- My career path
- The quantum technologies ecosystem
- Skills in the quantum industry
- The role of QURECA

My career path

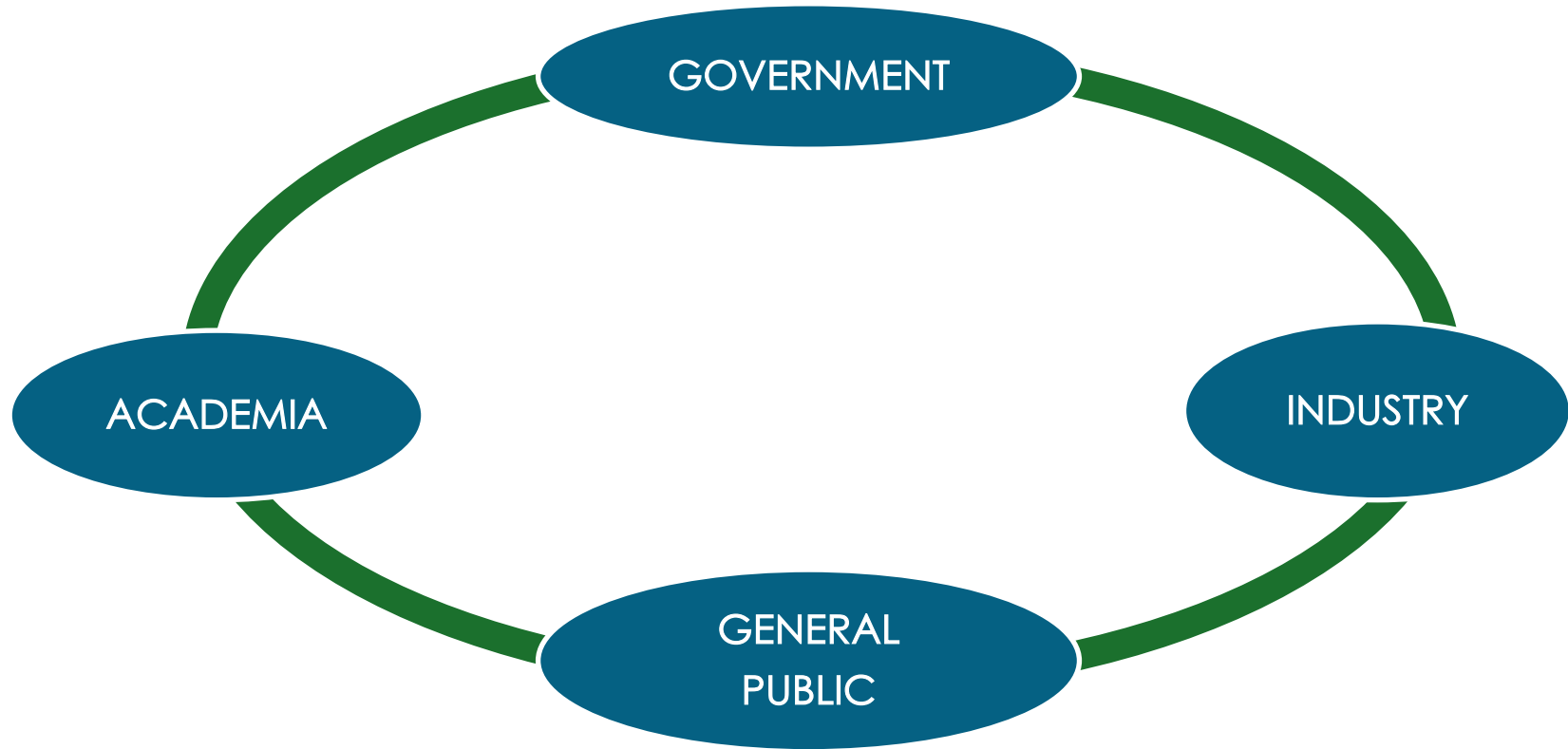
- ◆ Aerospace Engineering in Madrid
- ◆ International opportunities
- ◆ Working @ Airbus in Germany and France
- ◆ MRes Quantum Optics @ University of Strathclyde, Glasgow
- ◆ PhD Quantum Optics @ University of Strathclyde, Glasgow
- ◆ Founder & CEO QURECA since 2019



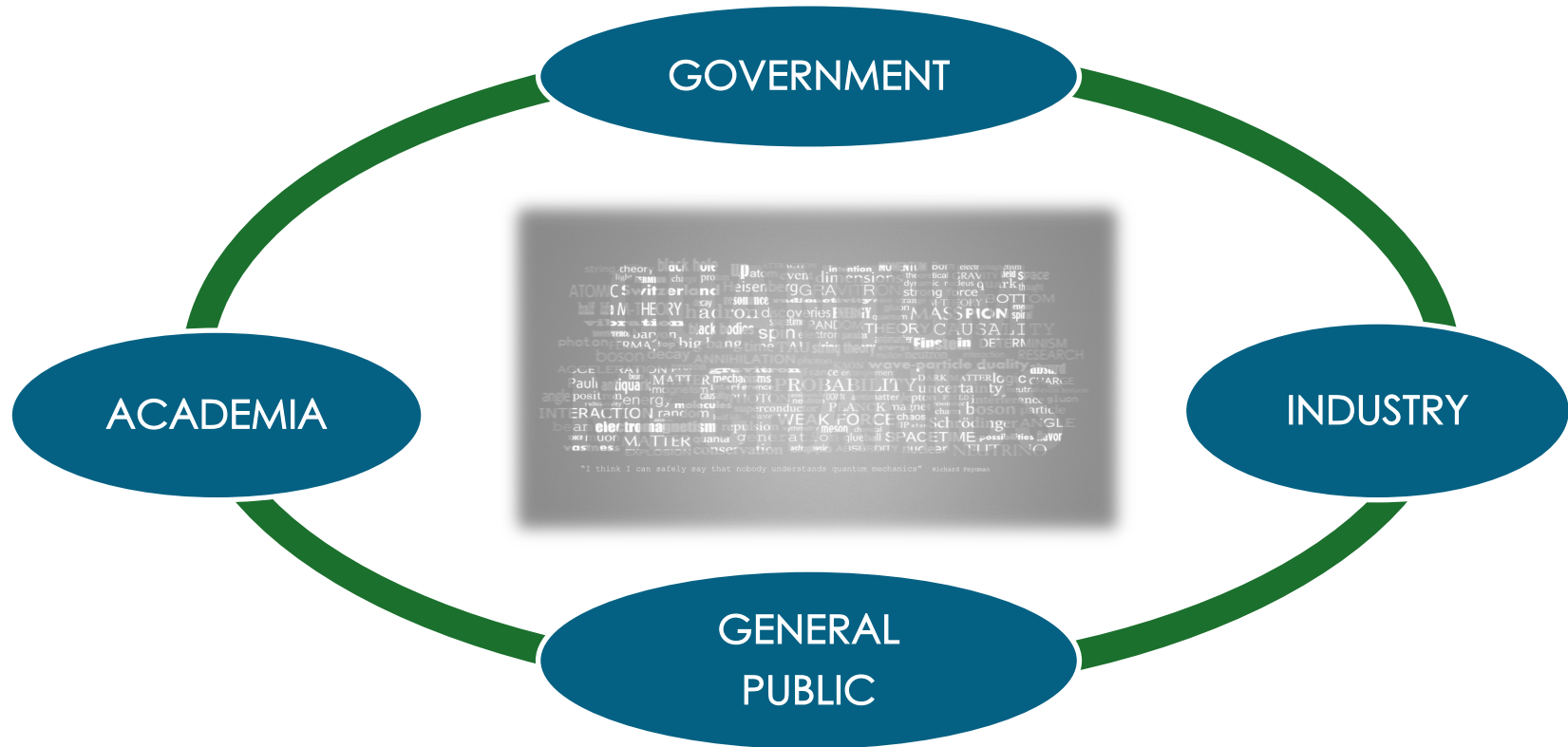
Career plan?



The ecosystem

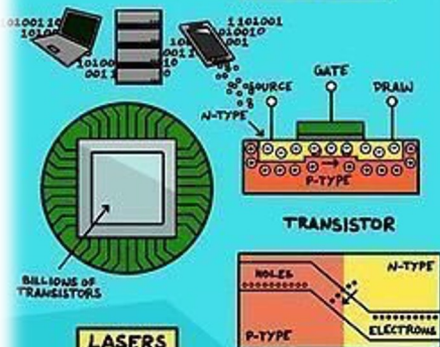


The quantum ecosystem



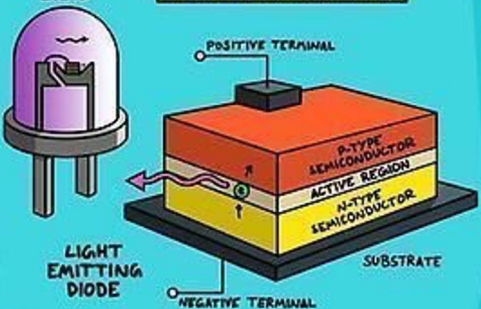
5 WAYS YOU USE QUANTUM TECHNOLOGY EVERY DAY

COMPUTERS

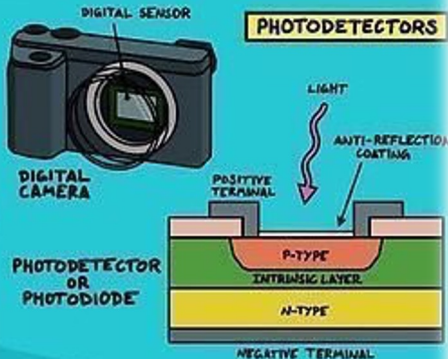


L.E.D

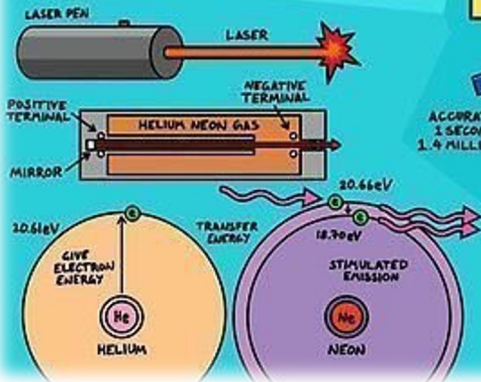
LIGHT EMITTING DIODES



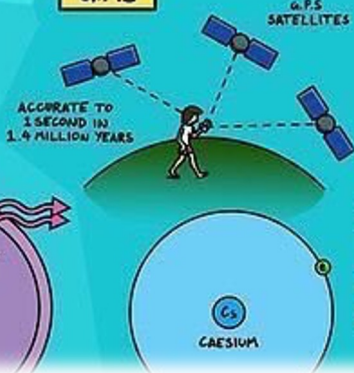
PHOTODETECTORS



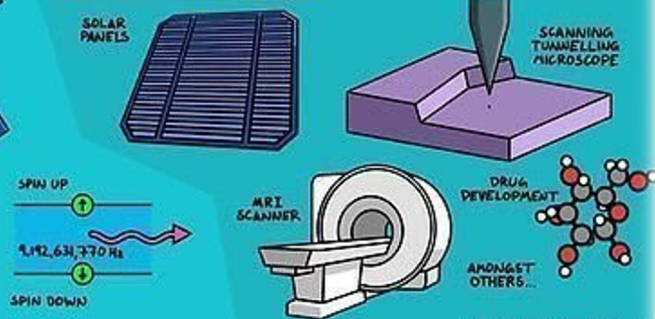
LASERS



G.P.S



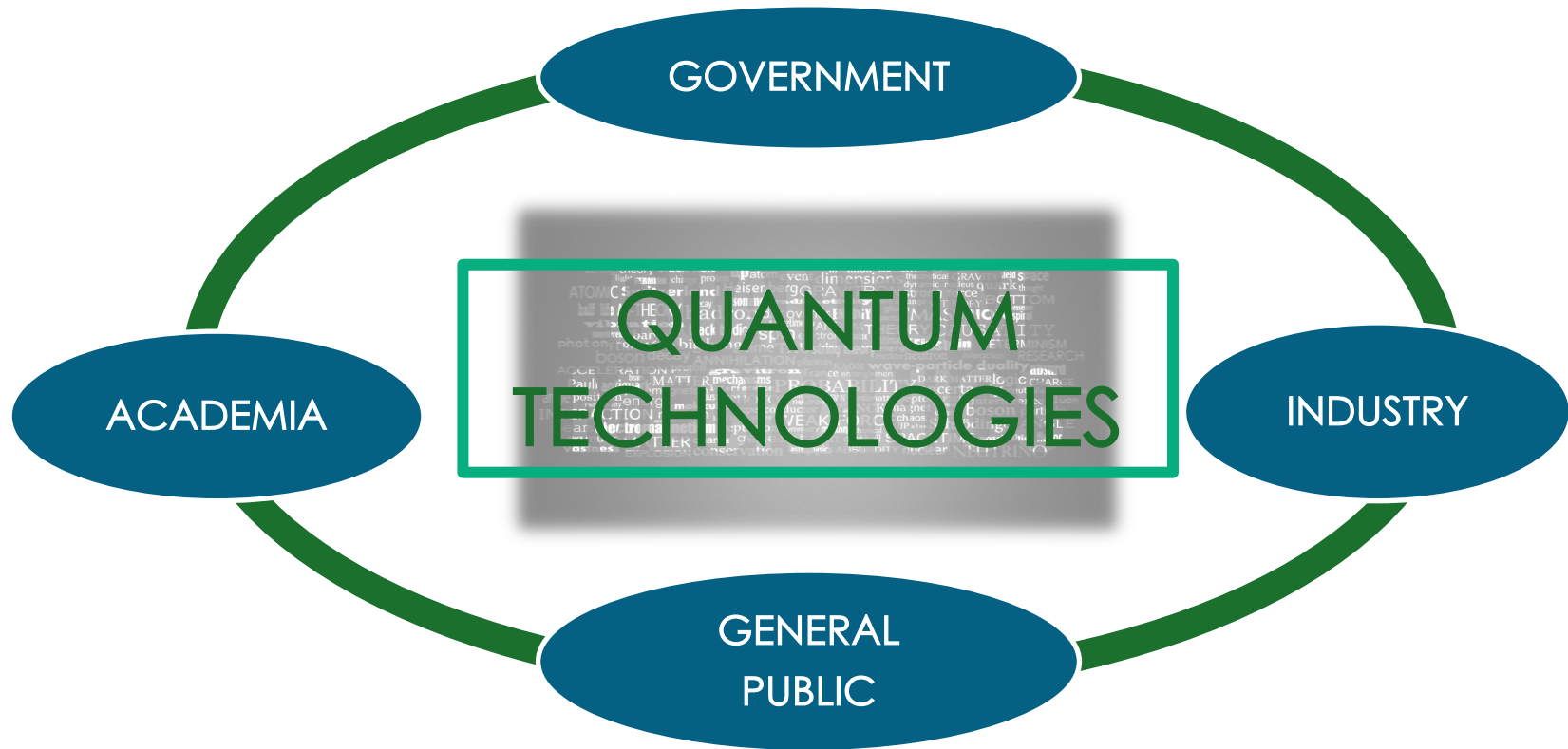
OTHER QUANTUM TECH



BY DOMINIC WILLIAMS © 2015

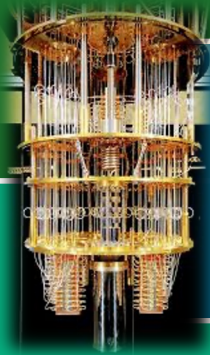
YouTube: DOMINIC OF SCIENCE • 5 WAYS YOU USE QUANTUM TECHNOLOGY EVERY DAY

The quantum ecosystem

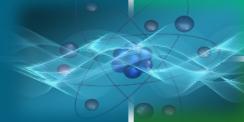


COMPUTING

COMMUNICATION



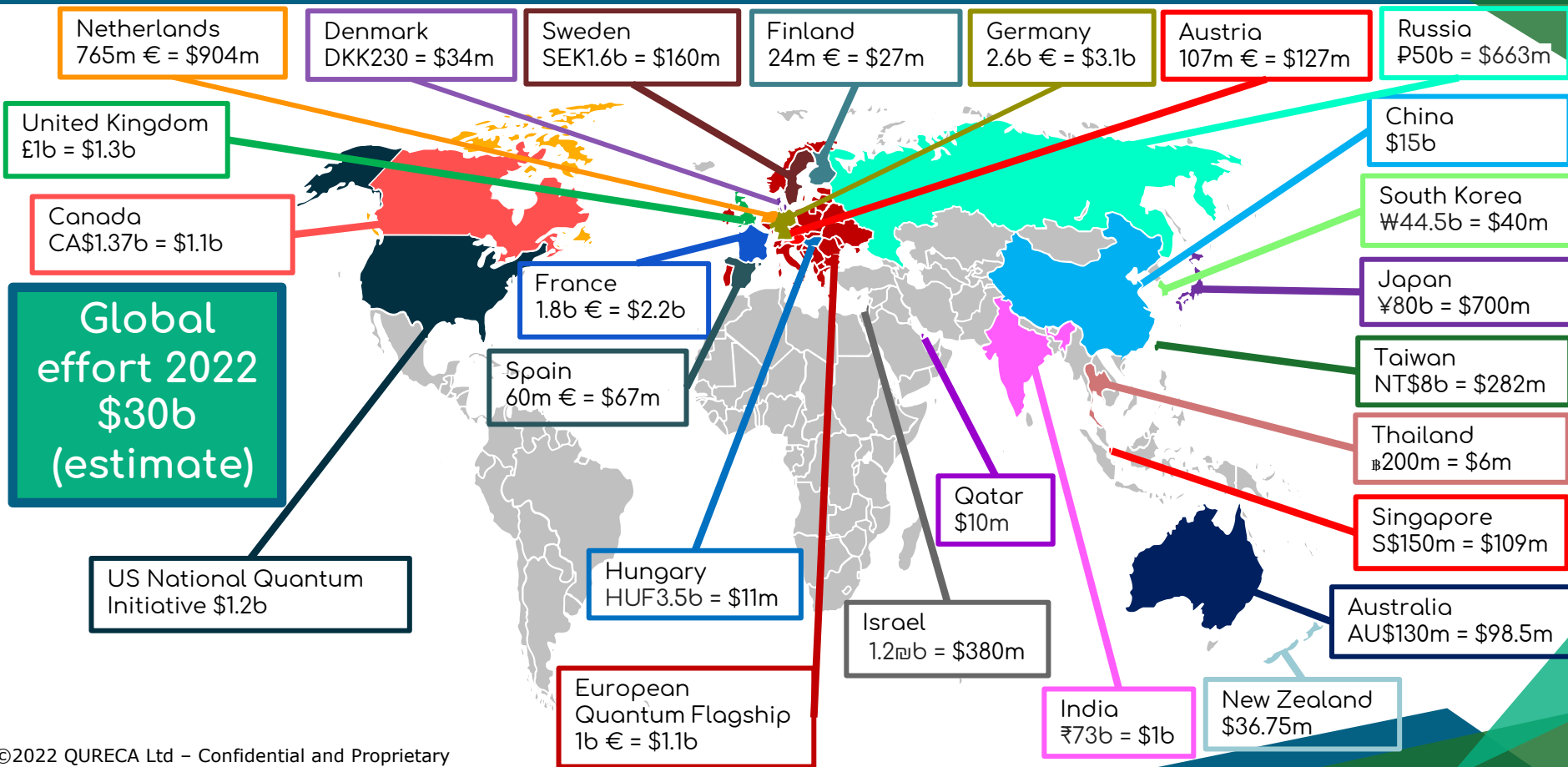
**The future is
QUANTUM**



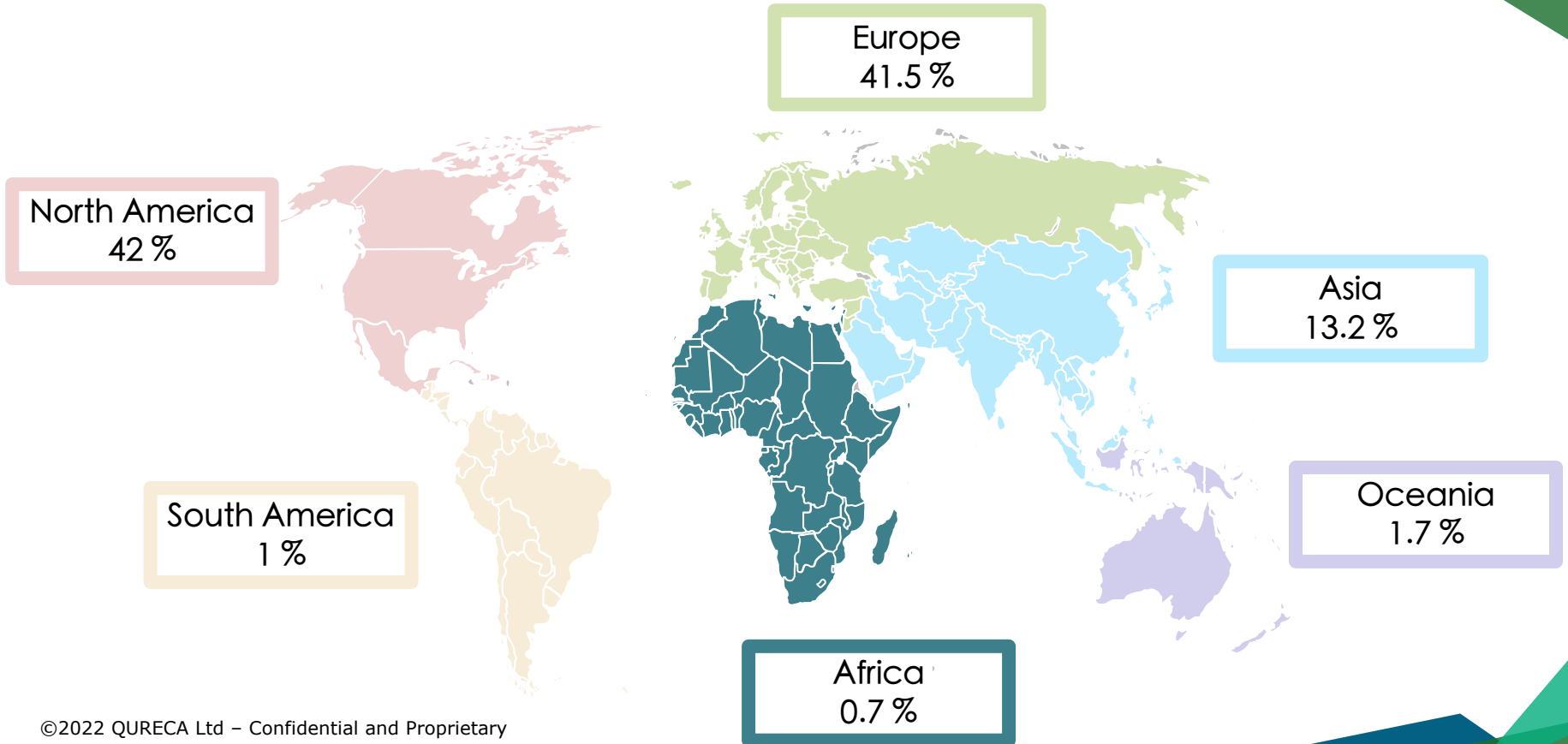
**SIMULATION &
IMAGING**

SENSORS

Quantum effort worldwide



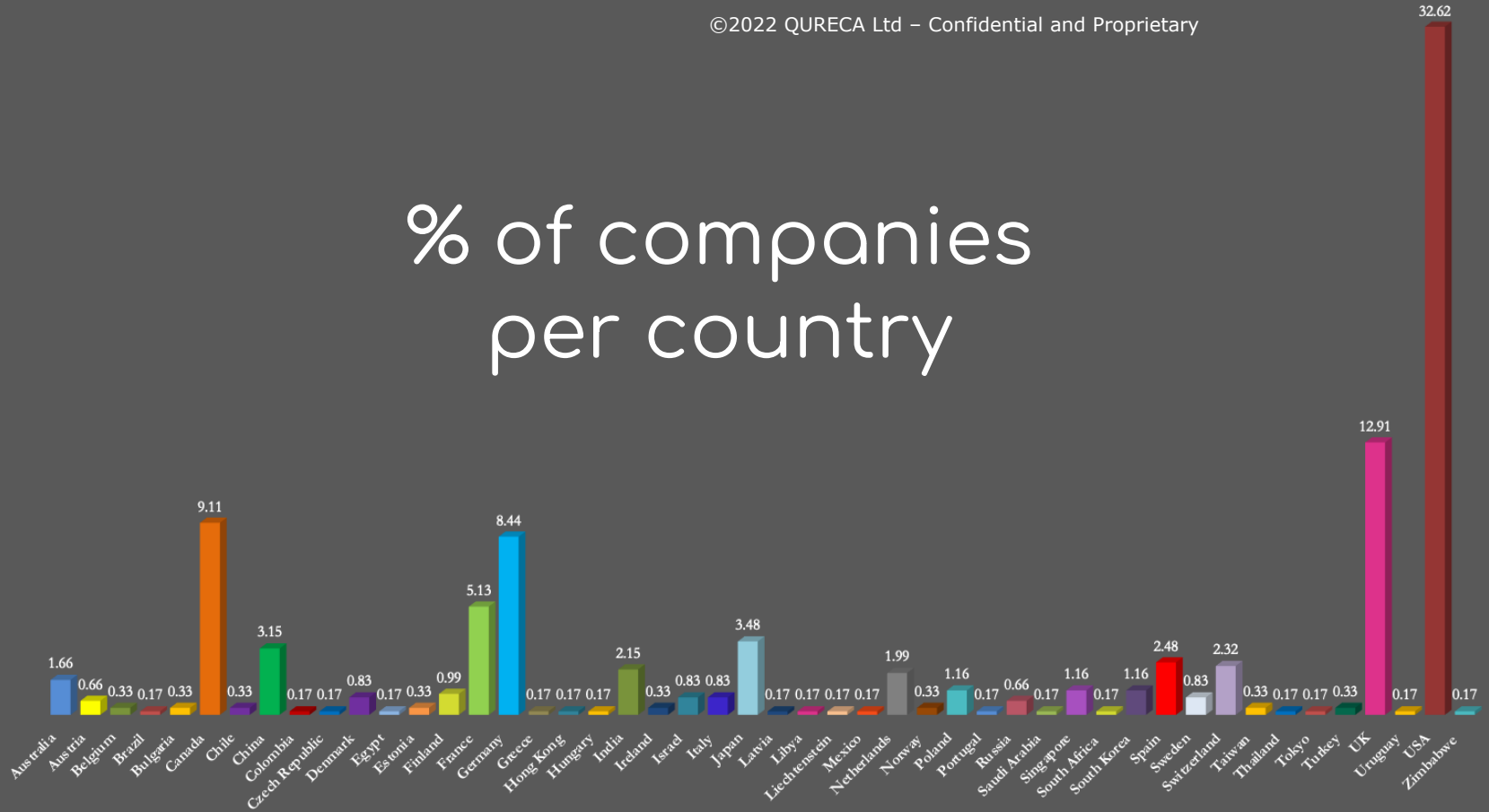
Quantum companies per region



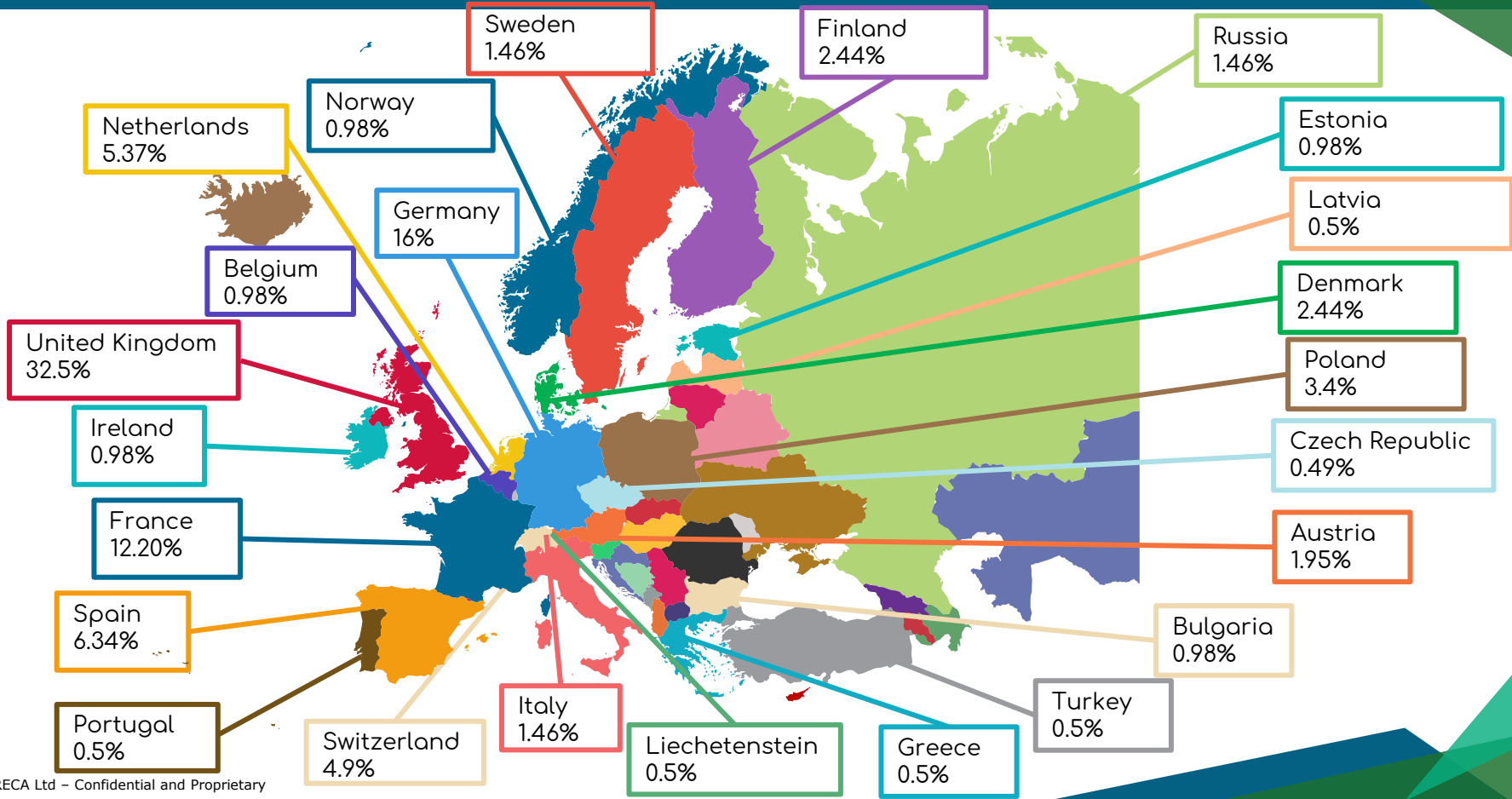
Where are the quantum companies?

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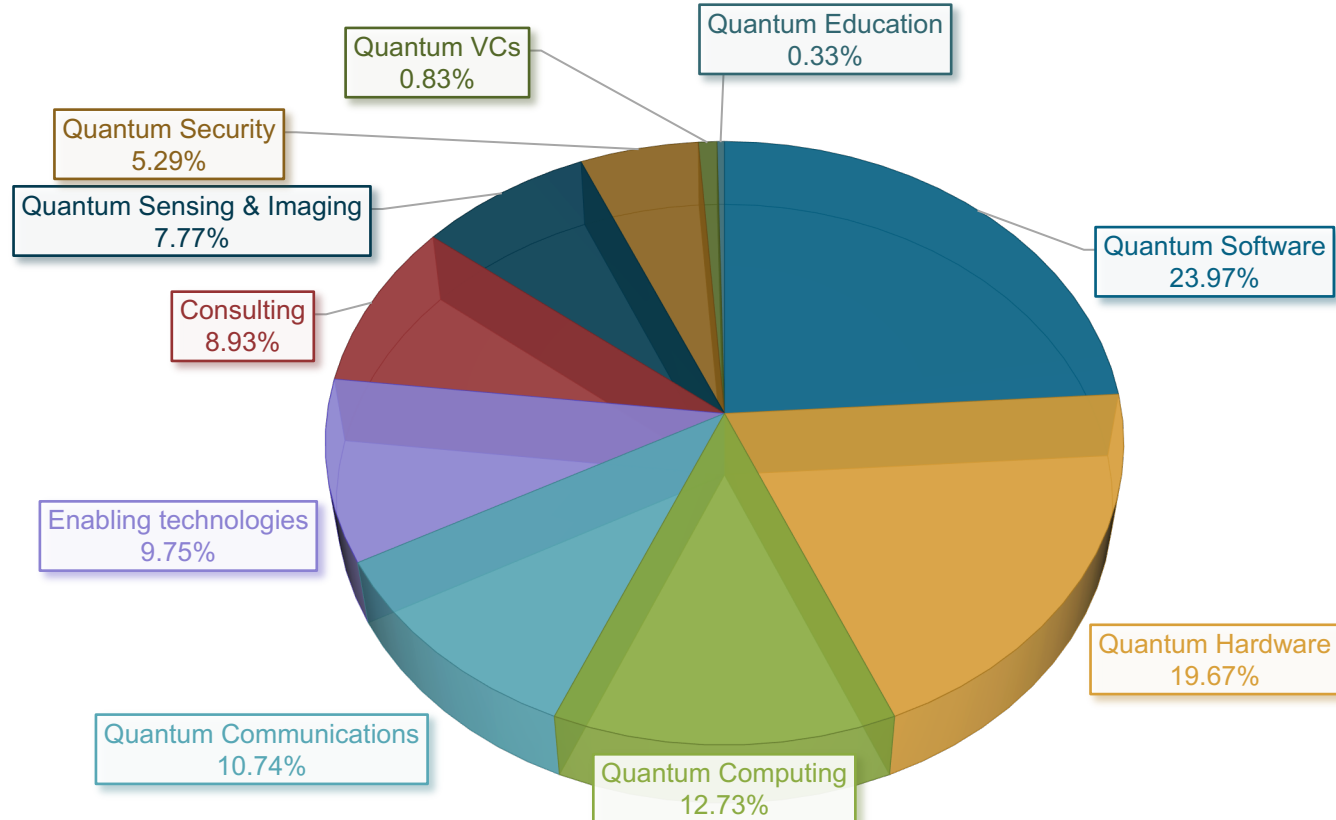
% of companies per country



Start-ups in Europe



Quantum companies per sectors



The quantum workforce

Building The Quantum Workforce Of The Future



Jeremy Hilton Forbes Councils Member
Forbes Technology Council COUNCIL POST | Paid Program
Innovation

Opinion **The FT View**

+ Add to myFT

A quantum future could be bright if managed well

Technology that will disrupt current systems needs careful management

The New York Times

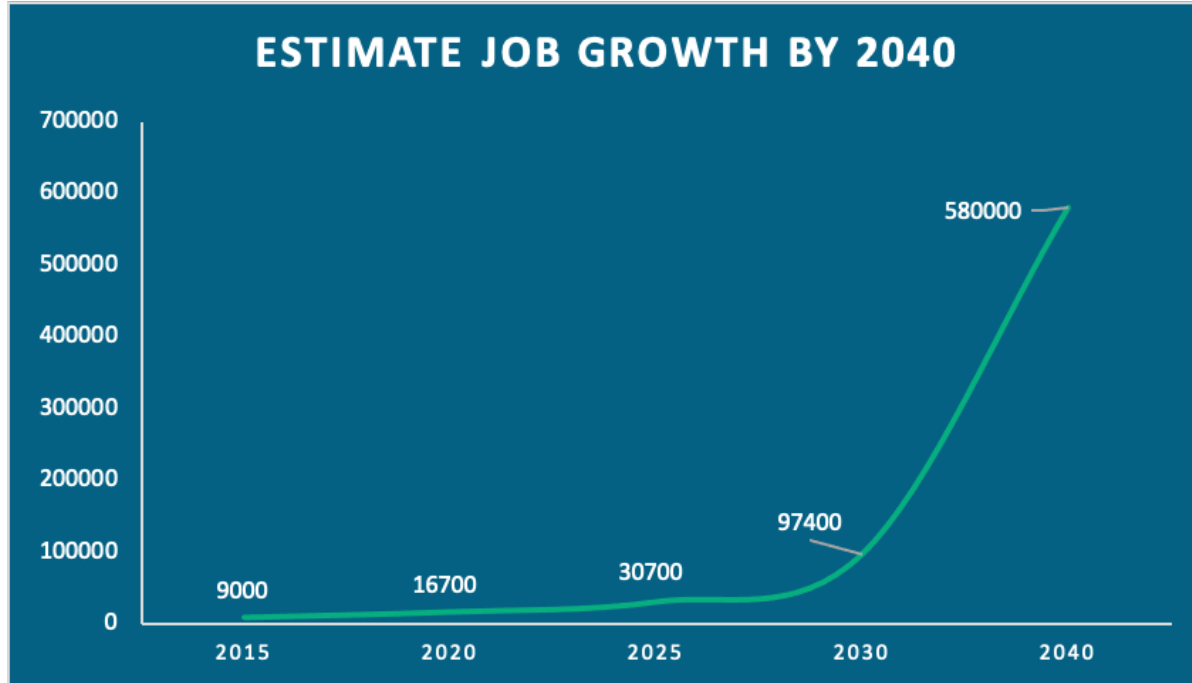
The Next Tech Talent Shortage: Quantum Computing Researchers

In 2040, Australia's quantum technology industry could generate over **\$4B revenue** and **16K new jobs**

**'How can we compete with Google?':
the battle to train quantum coders**

A major skills shortage in quantum computing could harm the UK economy unless universities recruit more students

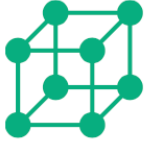
Job Market size



Important to
train **NOW** the
workforce of the
future

Technical skills across quantum industry

Materials

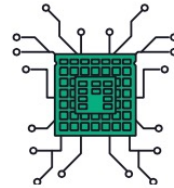


Data Analysis

Coding skills



Laboratory experience



Electronics

Algorithms and computer science



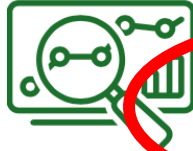
Optics and photonics



Mechanics

Technical skills across quantum industry

Materials



Data Analysis

CHEMISTRY

Coding skills



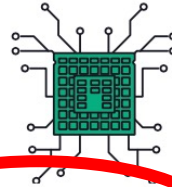
Laboratory experience



Algorithms and computer science



Electronics



ENGINEERING
COMPUTER SCIENCE
MATH

Optics and photonics



Mechanics



Technical skills across quantum industry

Materials



Data Analysis

CHEMISTRY

Coding skills



**QUANTUM
ENGINEER**

Algorithms
and computer
science



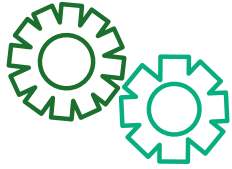
ENGINEERING
COMPUTER SCIENCE
MATH

Optics and
photonics

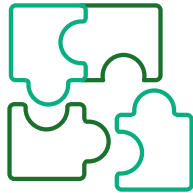


Mechanics

Soft skills across quantum industry



Problem solving



Teamwork



Design Skills



Business Awareness



Internship Experience

Communication

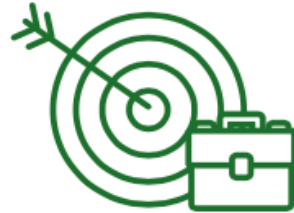


Not only technical positions

Project Management

Marketing

Operations



Finance

Sales

Customer Relationships

Overview of quantum educational resources

Online Courses



Workshops/Events

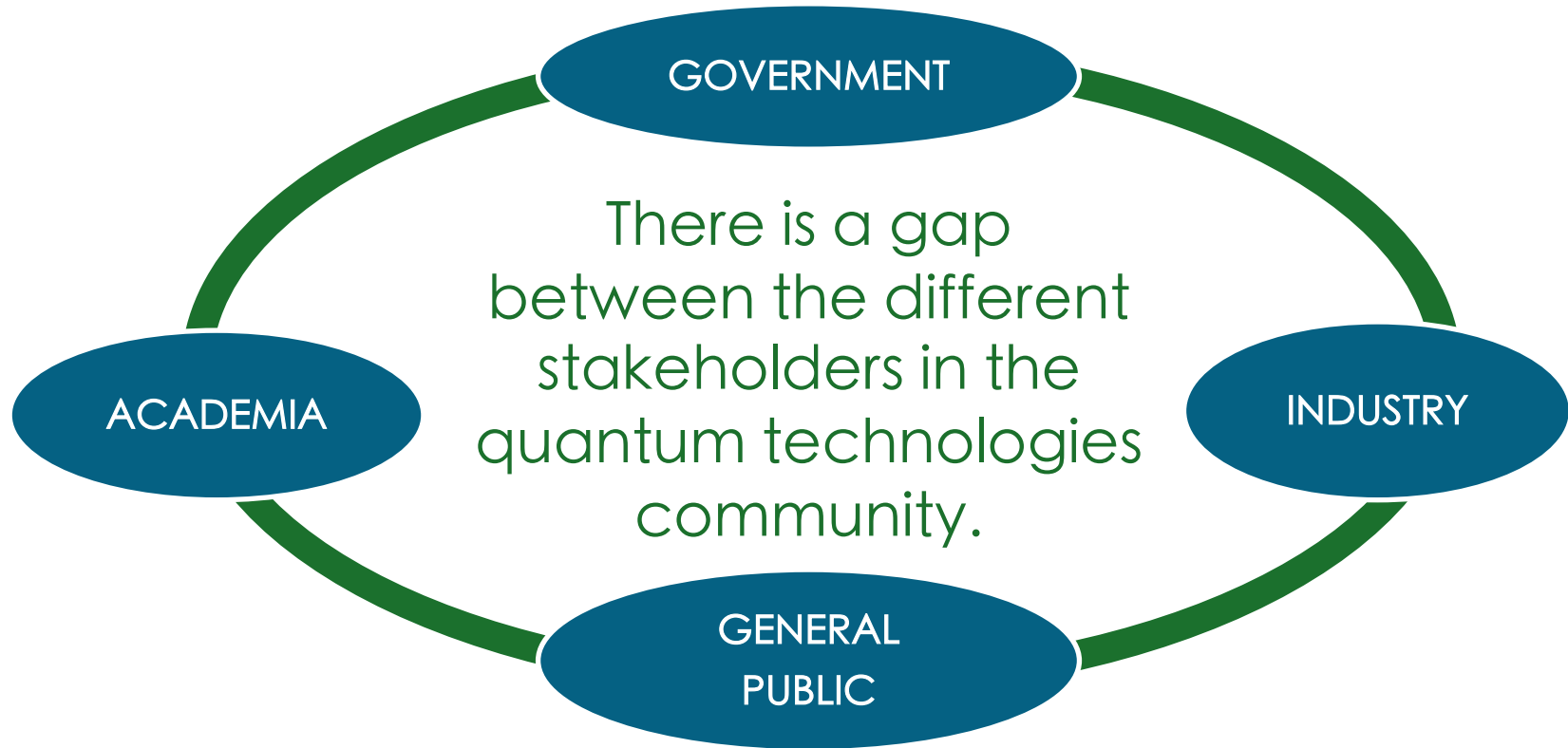


Games



General Resources

The gap in the quantum ecosystem



QURECA: QUAntum REsources & CAreers

OBJECTIVES



Common language

Ready for quantum

Create value

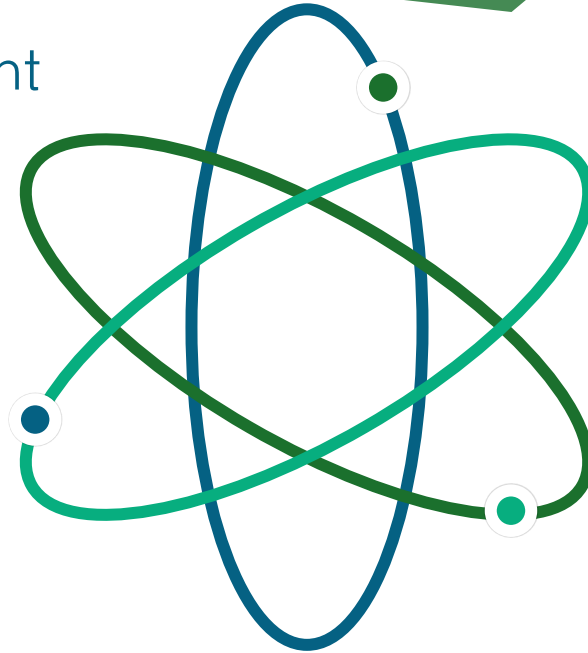
What QURECA offers

◆ Business Development

- ✓ Grow your business

◆ Business Intelligence

- ✓ Build your strategy



◆ Training

- ✓ Broaden your skillset

◆ Resourcing

- ✓ Hire the expertise

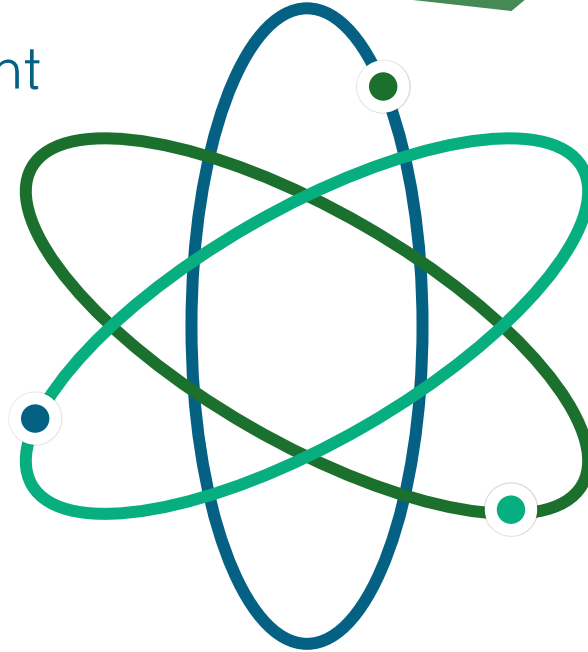
QURECA services

◆ Business Development

- ✓ Grow your business

◆ Business Intelligence

- ✓ Build your strategy



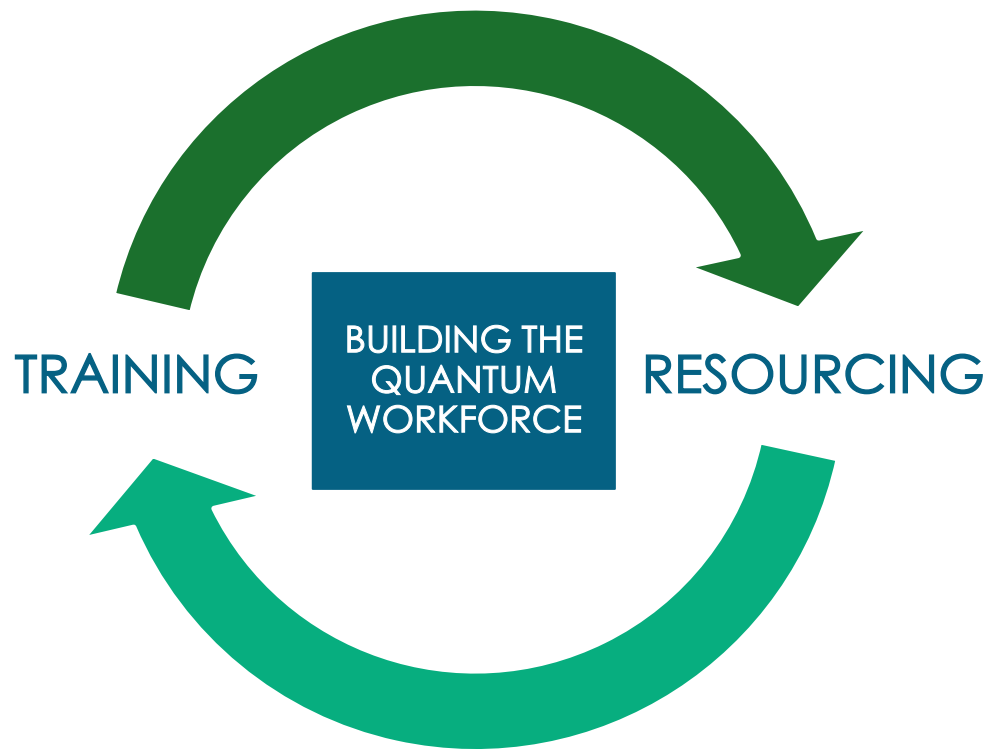
◆ Training

- ✓ Broaden your skillset

◆ Resourcing

- ✓ Hire the expertise

QURECA Quantum skills & competences platform



We develop quantum leaders!

USP

Network + Expertise = unique model

Individuals

We provide resources to make you become an expert in the field of quantum technologies, develop your skills, and we place you in your dream job.

Employers

We provide you business support, support on your business strategy, transform your business with our integrated approach to quantum technology training, and ensure you hire the best candidate.

Welcome to www.quireca.com

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QURECA

CREATING GLOBAL OPPORTUNITIES WITH QUANTUM TECHNOLOGIES

Quantum training, recruitment and business services to prepare you and your company
for the second quantum revolution. Don't get left behind!

[Learn More](#)

QURECA services and resources

❖ Education

- Online courses
- Tailored packages
- Webinars & workshops

An online course for non-technical business professionals

Quantum for Everyone

❖ Recruitment

- As a service
- Career events
- Tutorials



❖ Professional services

- Business development
- Business intelligence

❖ Community building

- Events organisation

- Your Courses
- Bespoke Training Development
- [Events](#)
- Profile



🔍 Search for events

Find Events

List **Month**

< > Today April 2022

MON	TUE	WED	THU	FRI	SAT	SUN
28	29	30	31	1	2	3
IEEE International Conference on Space Optical Systems and Applications 2022				Quantum Computing Applications in Chemical and Biochemical Engineering W Security, Robust		
4	5	6	7	8	9	10
Security, Robustness, and Trust in Artificial Intelligence and Distributed Architectures				37th Space Symposium		European Spring

Do not miss
any
quantum
event.

Register in
our platform
for free!

