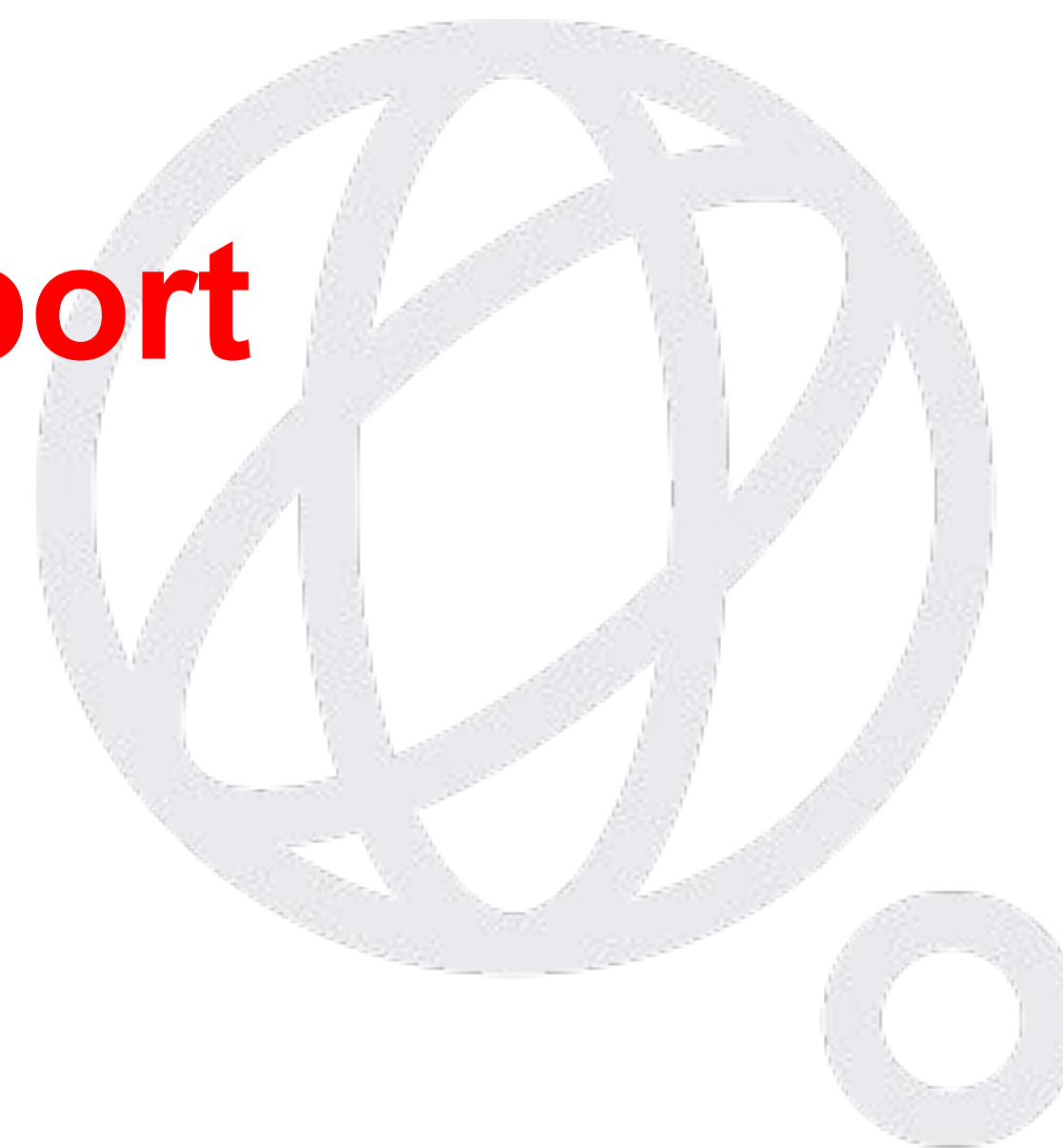


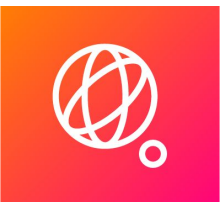


NOVEMBER 2nd, 2020

Education in Quantum Technologies

QTEdu Coordination and Support Action



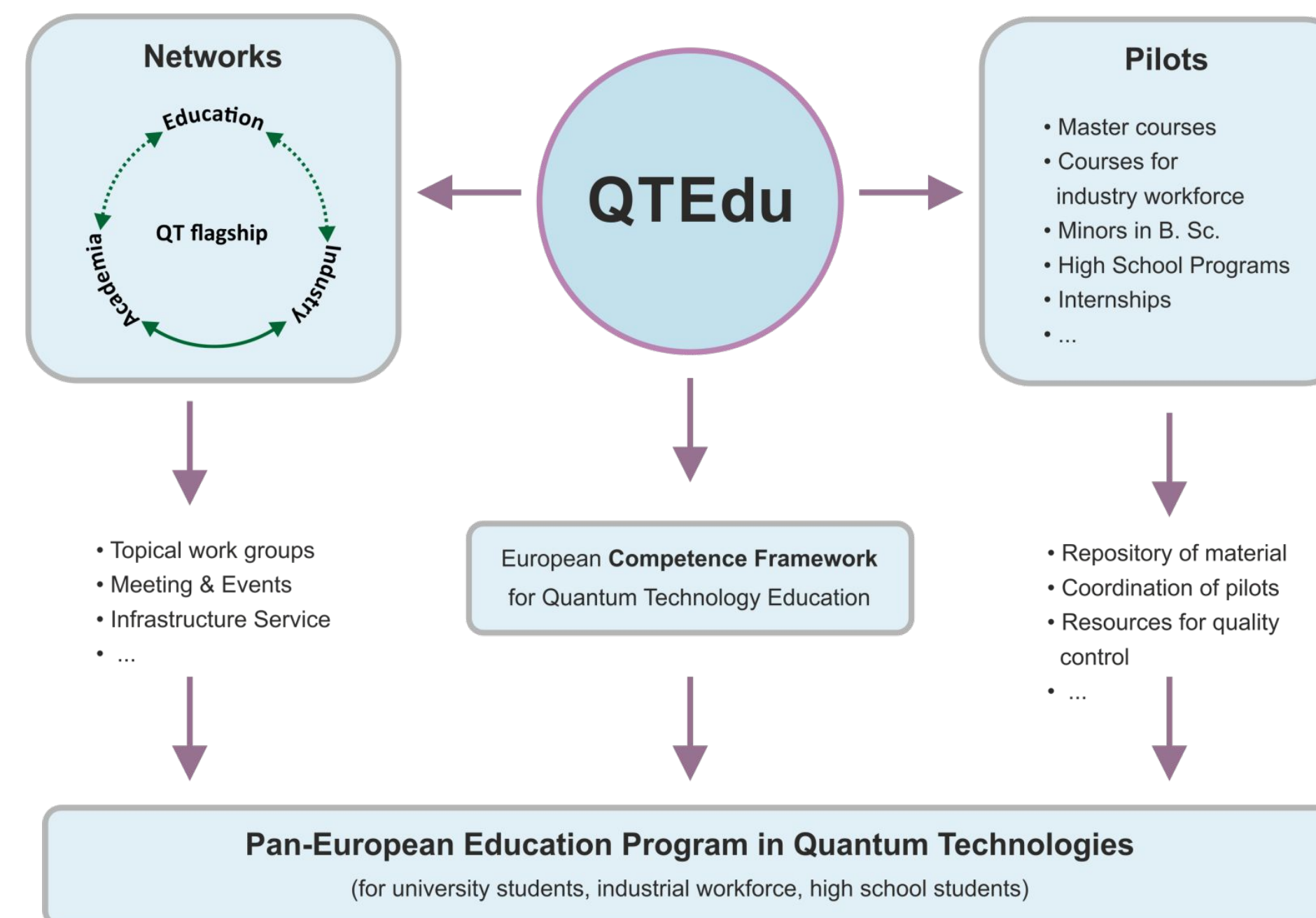
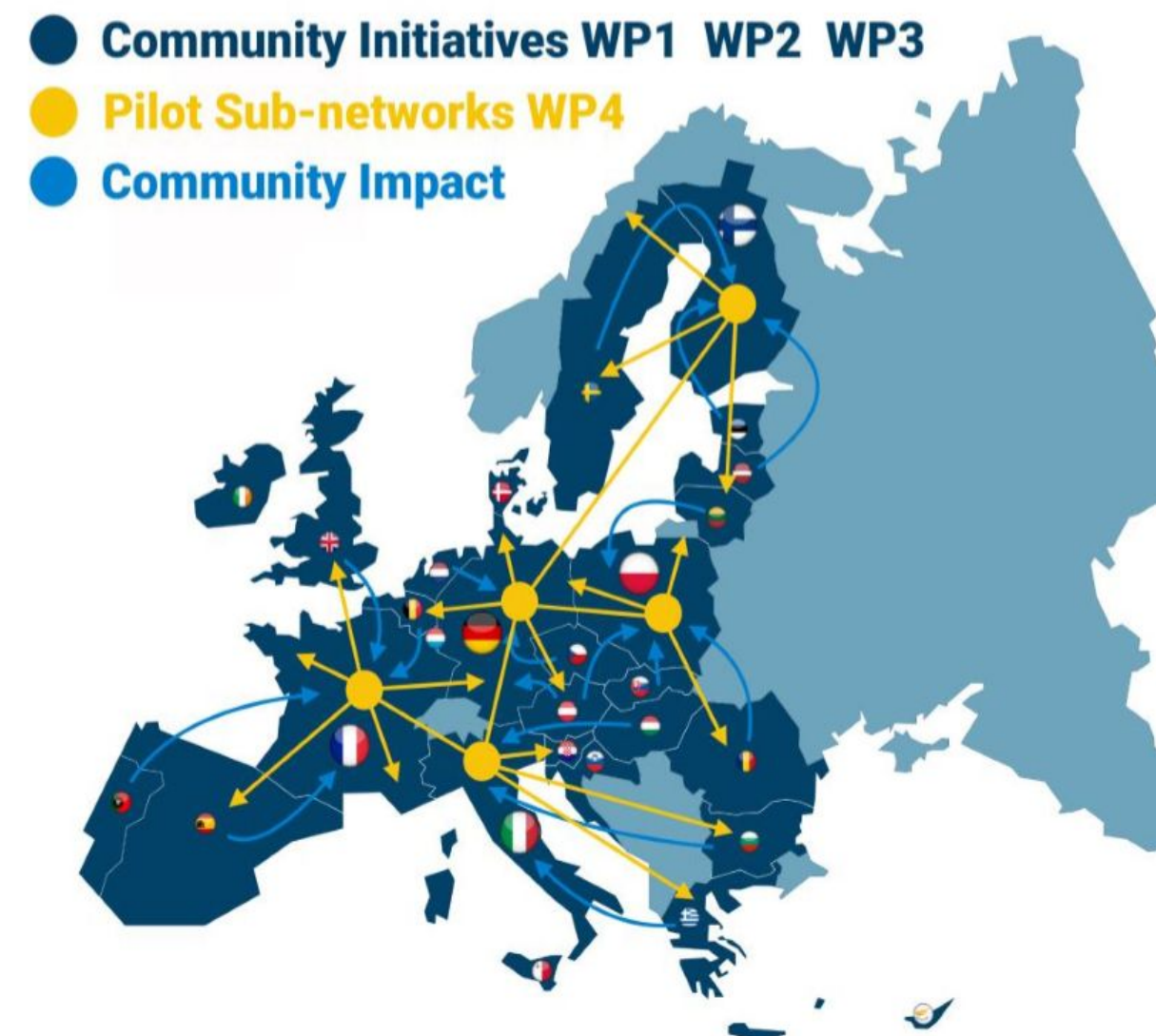


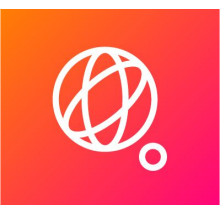
QTEdu Coordination and Support Action

Runs Sep. 2020 to Aug. 2022

Facilitates

- Community building and support
- Pan-European pilots
- A bottom-up construction of a roadmap to a Pan-European Workforce





WP1: Building the Quantum Education Community

Goal: facilitate the formation of dedicated community networks involving all key stakeholders

Tasks:

- Establish 5 open Topical Working Groups (WGs)
 - (1) QT educational and outreach initiatives in primary and secondary schools
 - (2) QT educational initiatives in higher education
 - (3) Lifelong learning and workforce training in QT
 - (4) Educational research to uncover knowledge of best practices regarding WGs 1-3
 - (5) Gender and minority equity and support within educational initiatives
- Establish a Strategic Education Agenda WG informing and advising QTedu activities and the Topical WGs
- Formulate a roadmap for the establishment of a Pan-European workforce

Contact:



Jacob Sherson

Feb 2021
WGs formed

Throughout 2021
Regular meetings in all WGs

Aug 2022
Roadmap for a Pan-European workforce



WP2: Infrastructure service QTEdu online repository open access & user friendly

Goal: Giving a structured overview of the QT Education community efforts that will decrease the barrier of entry for new members setting up related initiatives across Europe.

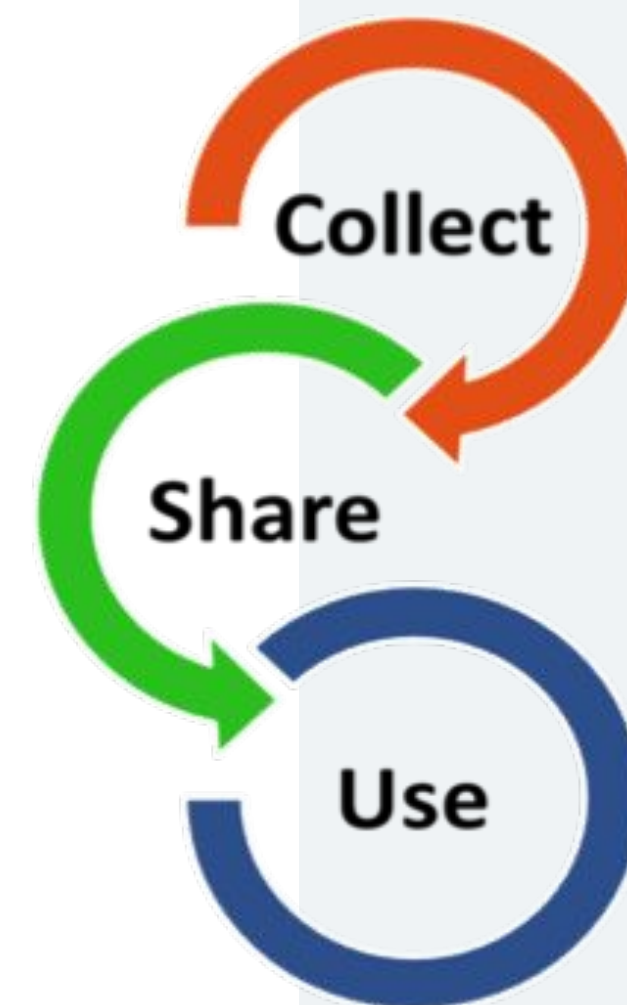
Contact
people:



Oxana Mishina



Chiara
Macchiavello



- **MSc programs** and tracks on QT
- **Companies** ready to host students
- **Materials** like curricula, simulations, experiments etc.
- Empirical **evaluation instruments** to help comparison between projects
- **Partner database** for applications in the main education program
- Quantum Technology Education initiatives and **outreach projects**
- European **school curricula**

Feb 2021

Platform up & running

Aug 2021

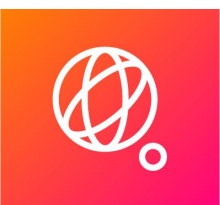
All databases incorporated

Nov 2021

Plan for database evolution

Feb 2022

Progress report



WP3: Competence framework

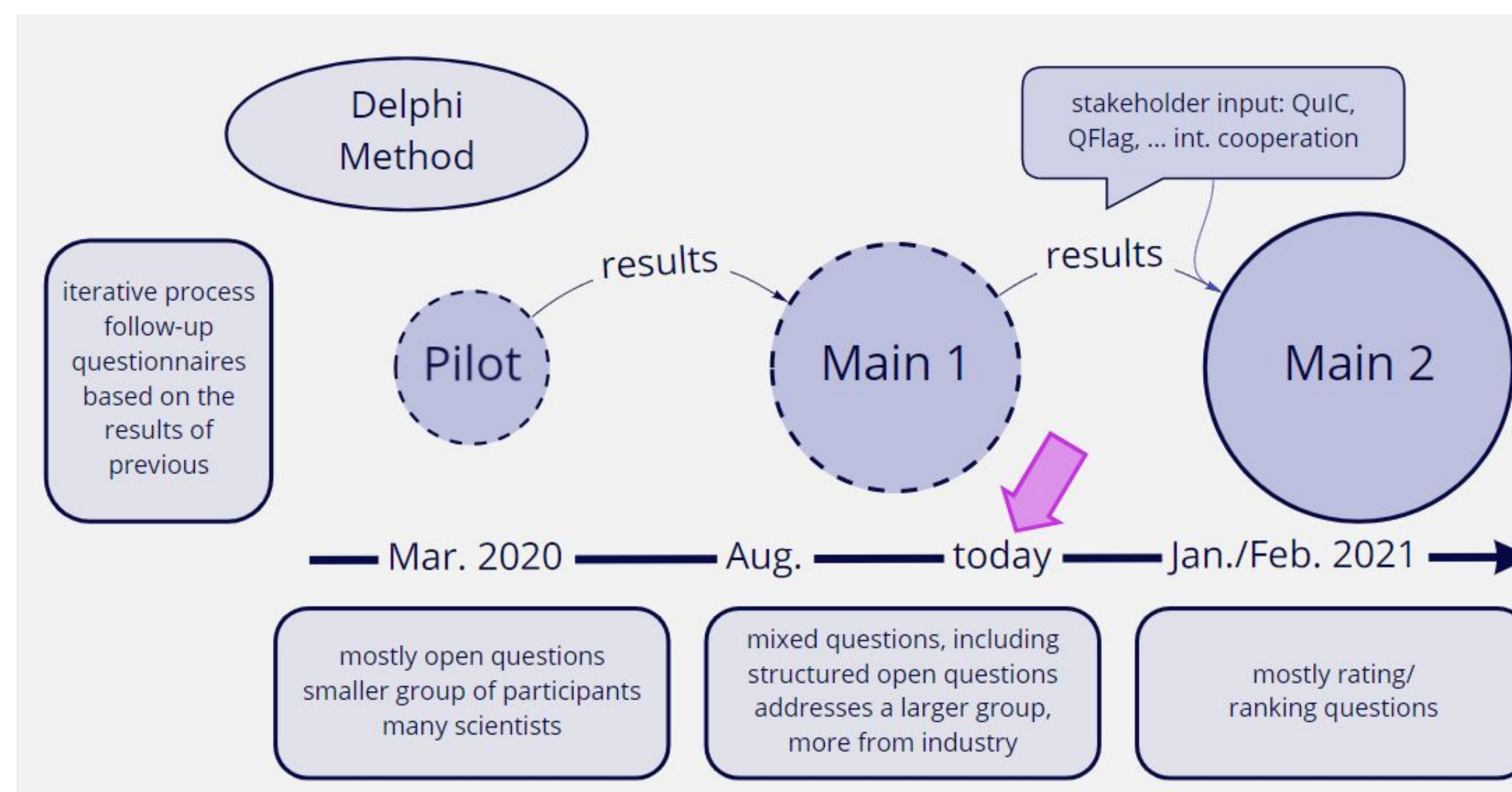
Goal: create a competence framework that maps out the landscape of possible capabilities in Quantum Technologies

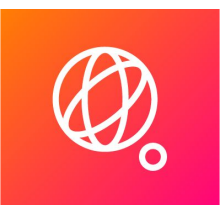
Methodology: a three-stage Delphi study with questionnaires sent to a broad range of relevant stake-holders

Contact:



Rainer Müller





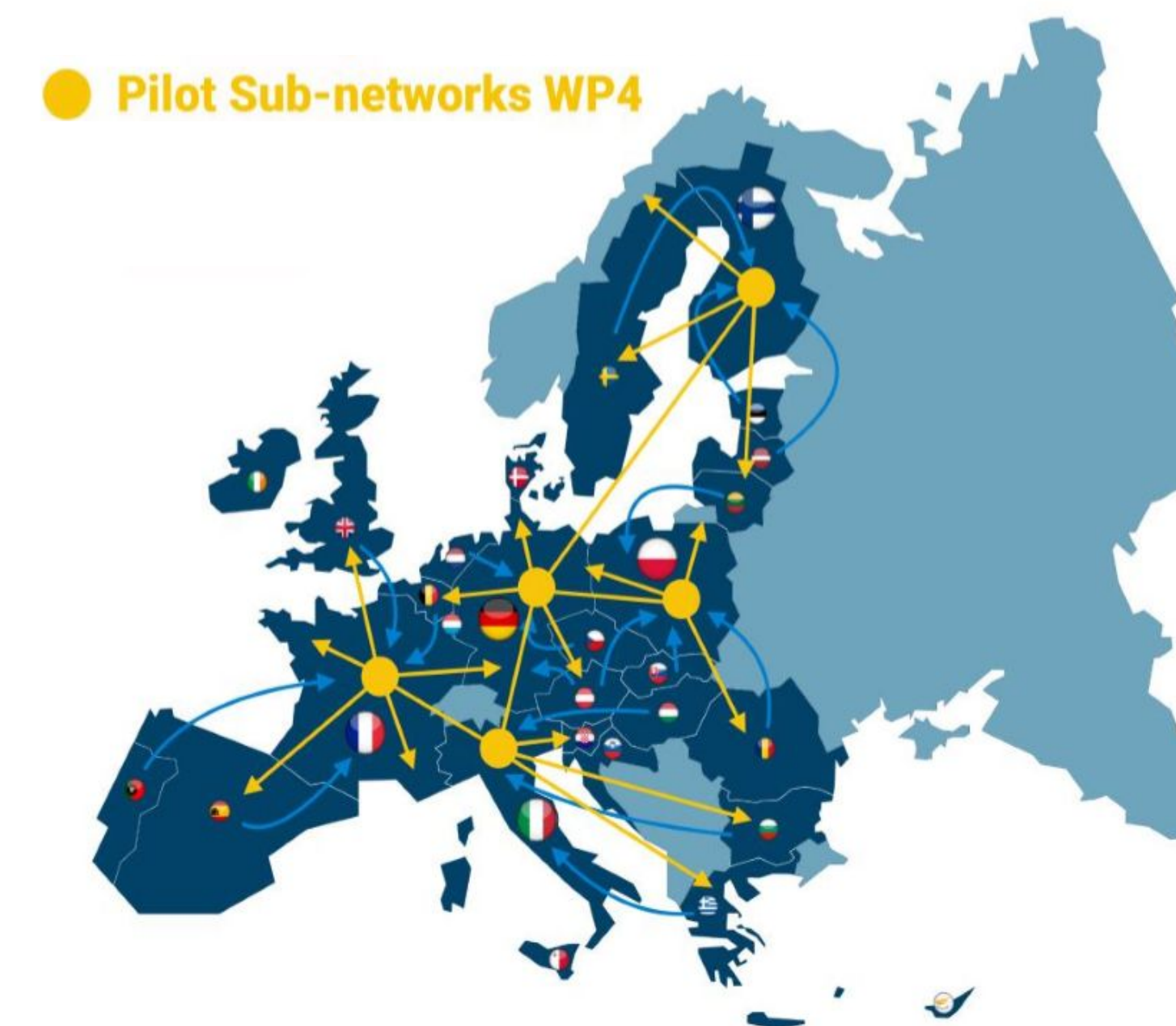
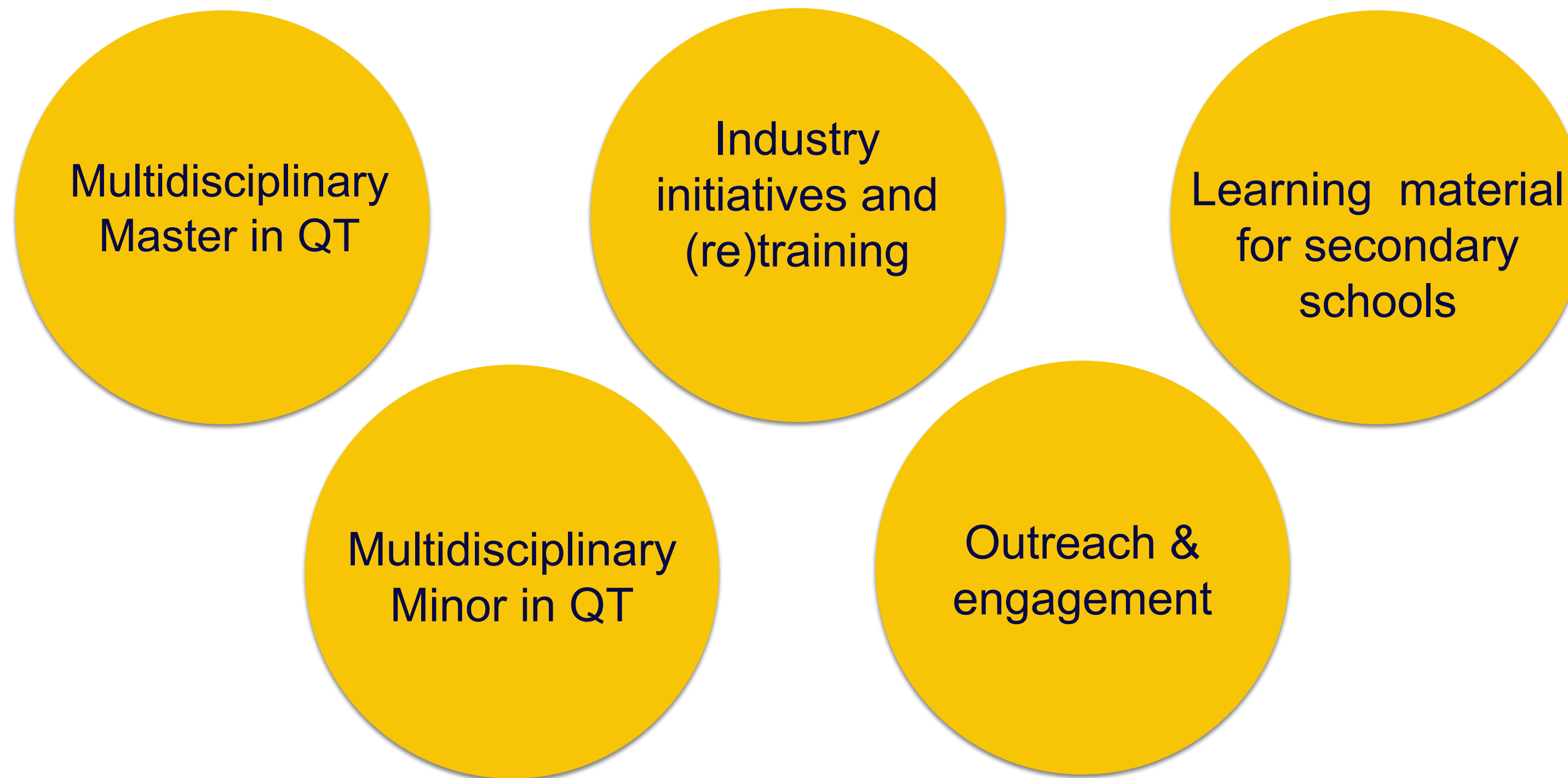
WP4: Pilot programs

Goal: create and coordinate 5 pilot programs each facilitating Pan-European synergies between established efforts.

Contact:



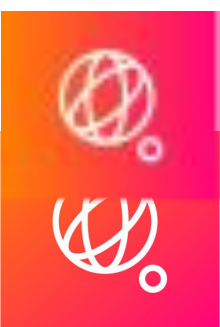
Grazia Bastasin



Apr 2021
PGs formed

Throughout 2021
Regular meetings in all PGs

Aug 2022
Plan for Pan-European Programs



WP5: Management Collaboration & alignment

Goal: Ensure achievement of all milestones and the completion of all deliverables and alignment with existing and planned Flagship initiatives.

Contact people:



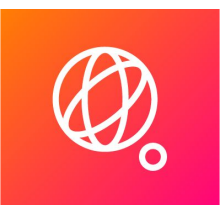
Oxana Mishina



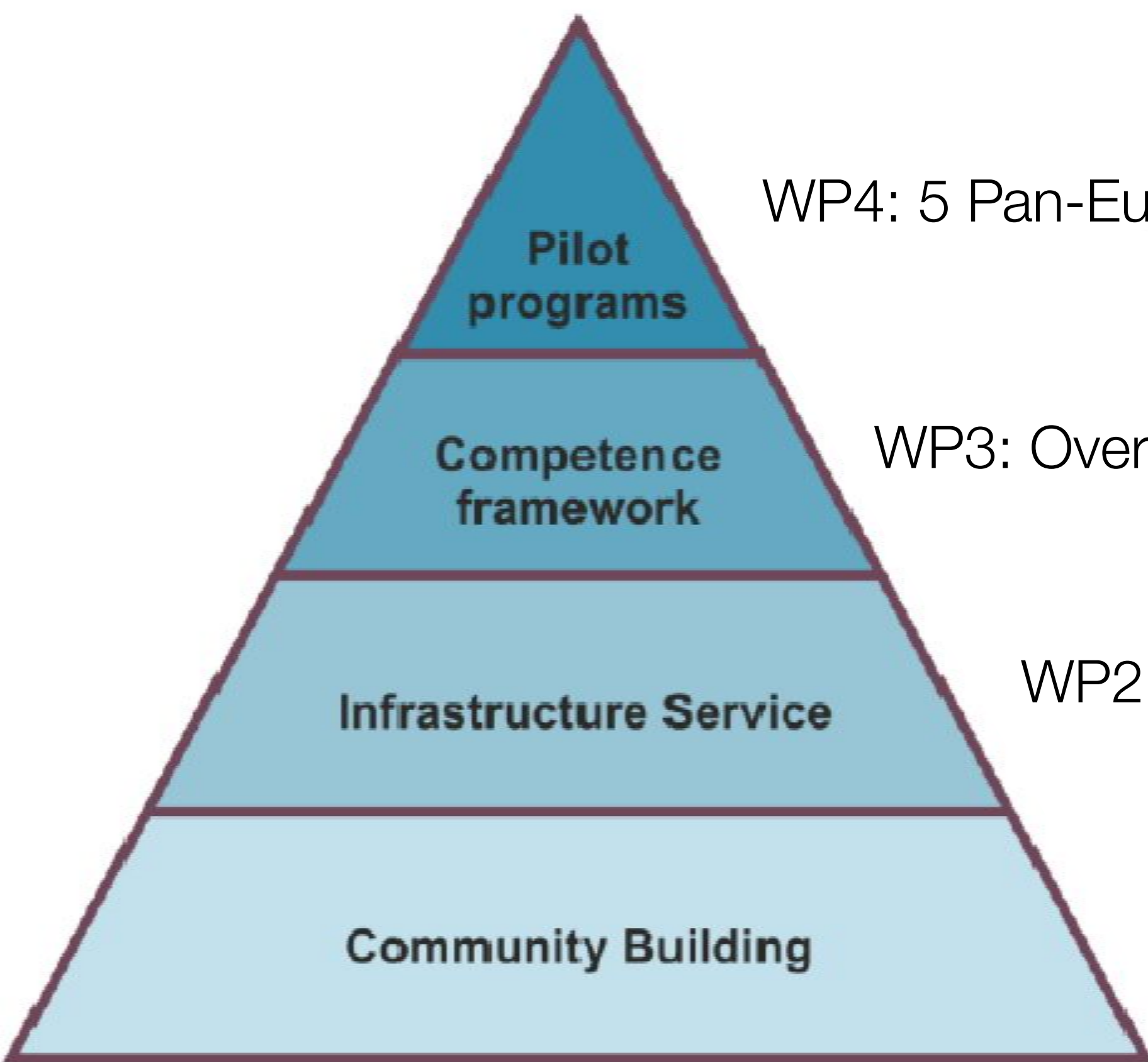
Chiara Macchiavello

- **QFlag CSA** - promotion of databases and curricula
- **Quantum Community Network** - encouragement of national WG and plan to cover all of Europe
- **QuIC, Science and Engineering Board** and the **Innovation Working Group** - internship for students in companies, competence framework
- **Gender Equality Working Group** - gender statistics and ethical aspects of the initiatives

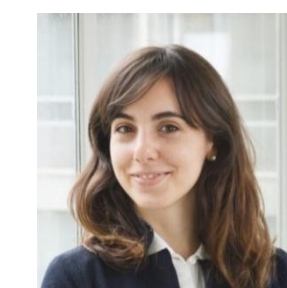
Ensure continuity and alignment with the activities of the Quantum Flagship in education, training and outreach planned by the QFlag CSA.



Coordination and Support Action QTEdu



WP4: 5 Pan-European pilots focusing on knowledge sharing



Grazia Bastasin
QuTech, NL
G.Bastasin@tudelft.nl

WP3: Overview of landscape of QT competences



Rainer Müller - PI
TU Braunschweig, DE
rainer.mueller@tu-bs.de

WP2: publicly accessible database



Oxana Mishina
omishina@gmail.com
Chiara Macchiavello - PI
chiara@unipv.it
CNR, It

WP1: Networking and overall roadmap



Jacob Sherson - PI
Aarhus University, DK
sherson@phys.au.dk