

# Quantum Delta NL

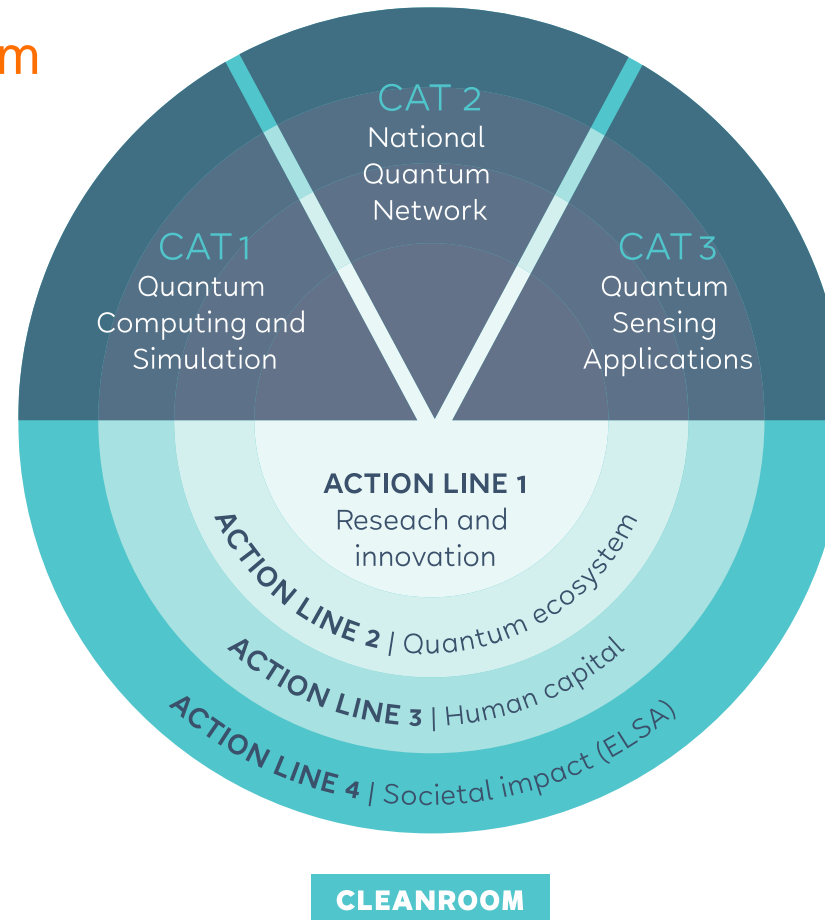
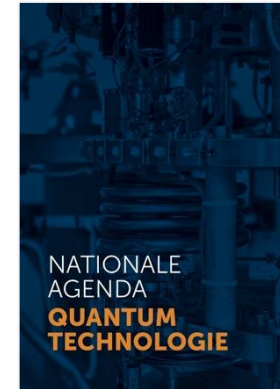
<http://quantumdelta.nl>

Prof. Ronald Hanson, Chairman Supervisory Board

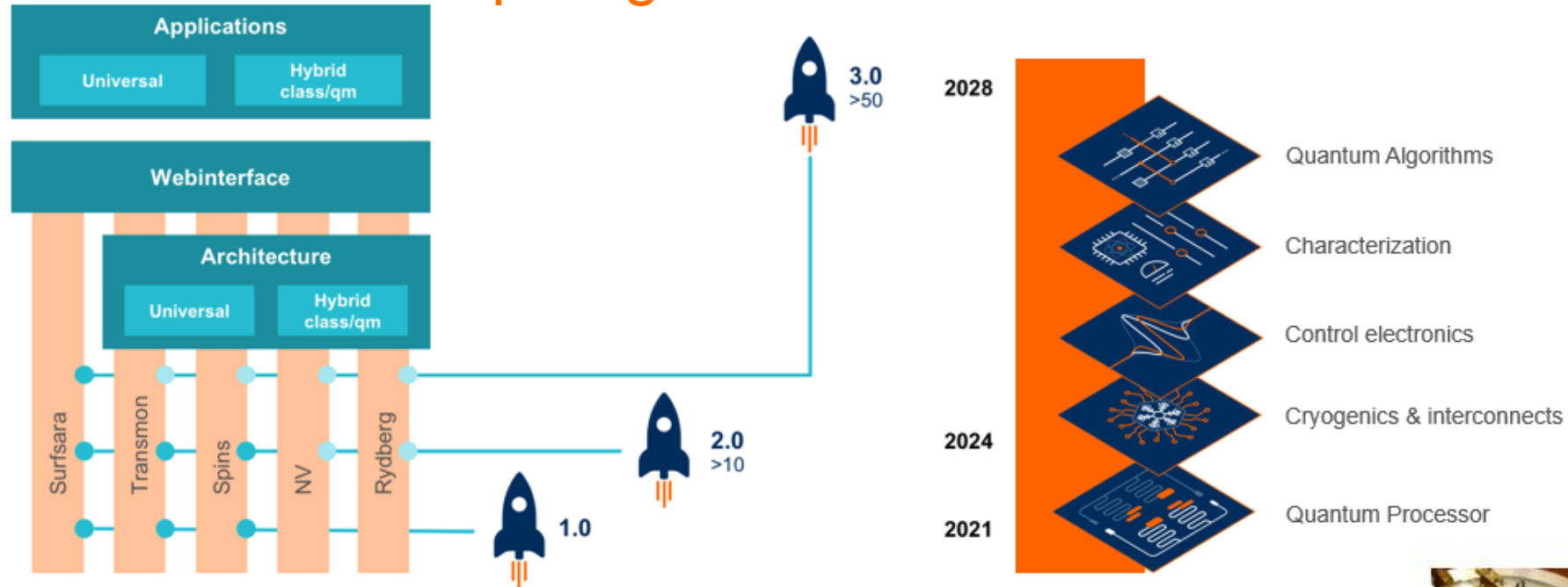


# Ambition: a leading quantum ecosystem

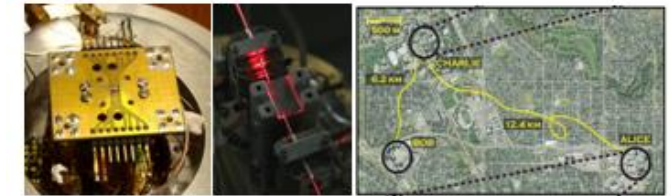
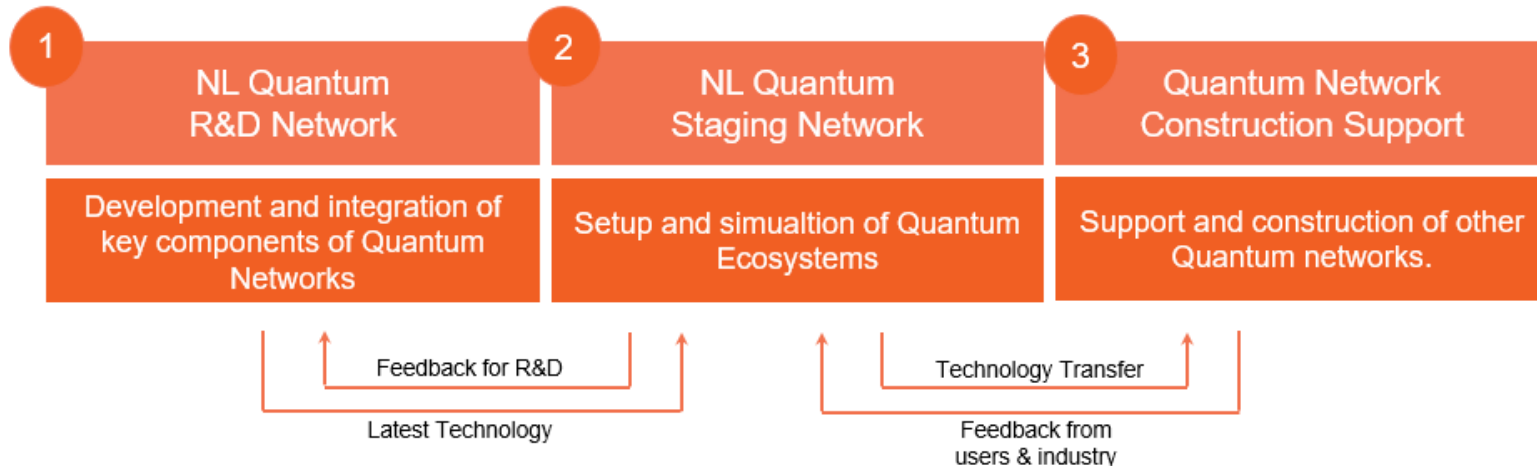
- based on broadly supported national agenda (2019)
- 7-year, 615M euro program funded through National Growth Fund
- targeting all aspects of ecosystem



# KAT-1: Quantum computing and simulation



# KAT-2: Quantum communication & internet



## Quantum Hardware

Quantum Processors (End Nodes and Repeaters)  
Multiplexed Repeaters  
Field Tested MDI-QKD System



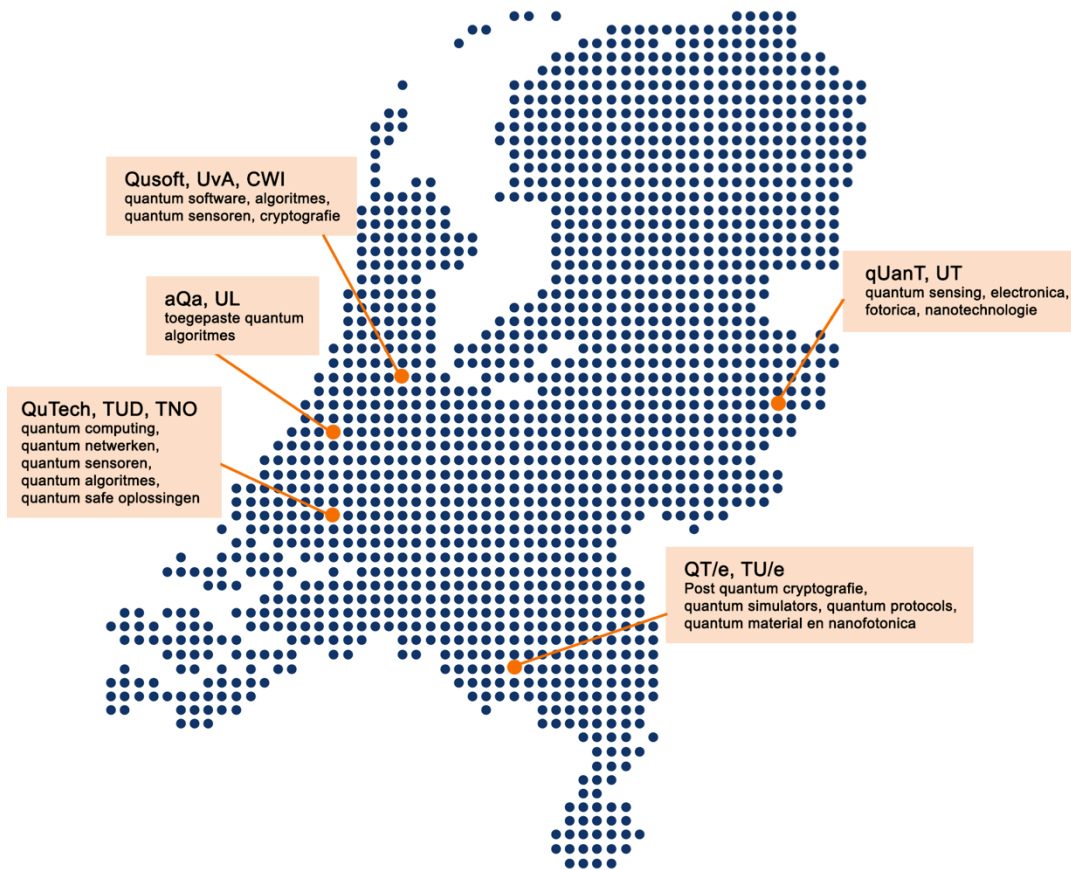
Software and Network Stack  
Control  
Universal Programmability



Applications  
Design  
Security Analysis

Close collaboration between leading Dutch knowledge institutes

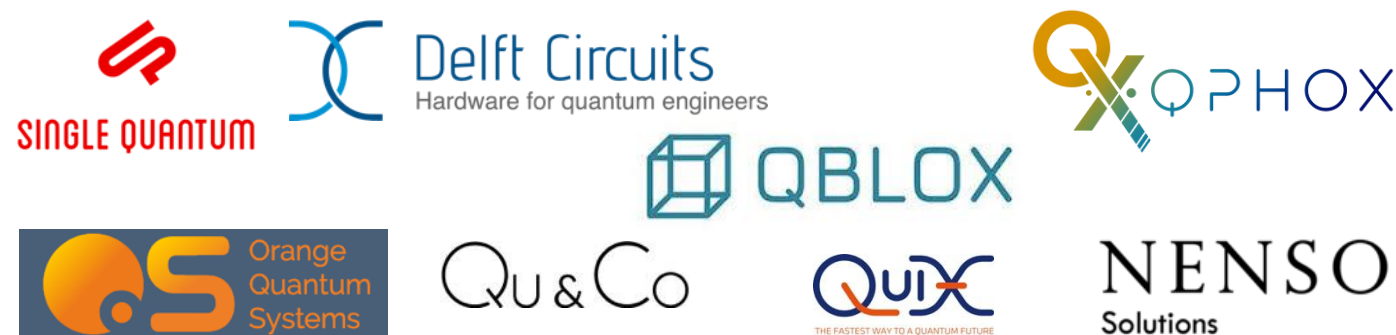
In close connection with (new) industry



### Knowledge development



### Startups



# Quantum Delta NL - Relation Japan

- Joint development of first generations of qubits (1980s - ...) (e.g. pioneering joint work Delft-NTT-Tokyo University, sabbaticals Mooij-sensei, Nakamura-sensei,...)
- Priority during trade mission Japan (2015)
- Japan-NL scientific conference (2019)
- QuTech-Fujitsu 5y collaboration (2020)

HEADLINE

**Qutech and Fujitsu join forces for modular quantum computers**

