

Quantum Communication Fieldlab Rotterdam

Welcome to Rotterdam!

INSPIRION

eurolfiber

Q⁺bird
quantum
connectivity

CISCO

CGI

DATE Thursday, 18 June 2026

PANEL INTRODUCTION



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The Quantum Communication Fieldlab: From Vision to Implementation

A conversation on why QCFR matters now, what it makes possible in practice, and what this founding consortium is setting in motion beyond the launch itself.



01

Relevance

Why QCFR is needed now: The challenge is no longer only to prove the technology, but to bring quantum-secure communication closer to trusted use under real operational conditions, in critical infrastructure and at European scale.



02

Value

What QCFR offers concretely:

A practical environment for testing, validation, interoperability, operational readiness, capability development, knowledge transfer and future certification pathways.



03

Next step

What starts today: Not a one-off launch moment, but the formal start of a broader development line in which infrastructure, technology, implementation and collaboration come together.

Why QCFR Matters Now

The first dimension of this panel is relevance: why QCFR is needed now, and why this is the right next step in bringing quantum-secured communication closer to trusted use in practice.

Critical infrastructure

Trusted communication is increasingly becoming part of the infrastructure on which ports, cities, public institutions and European value chains depend. That makes validation under real conditions more relevant than ever.

Validation in practice

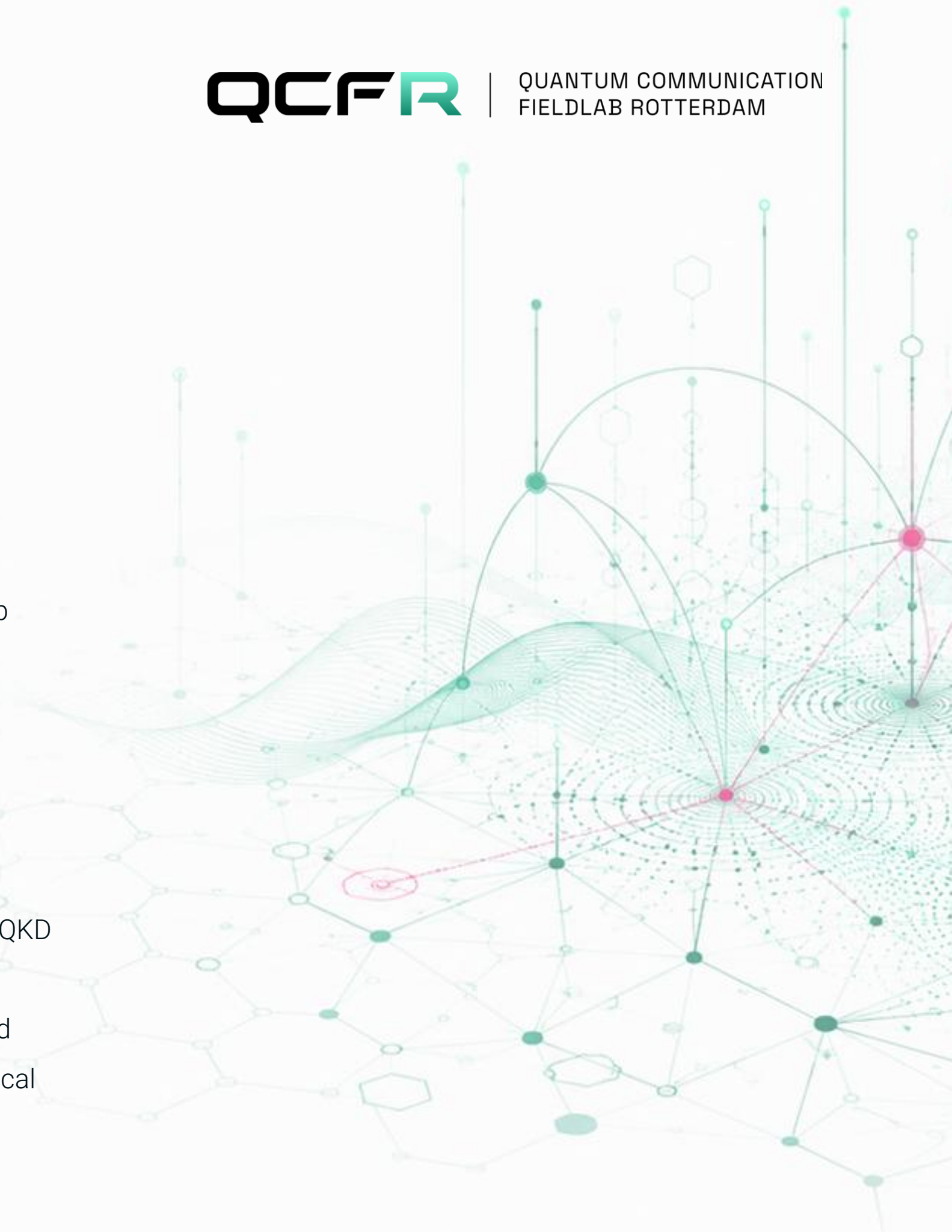
The value of QCFR lies in its practical setting. It creates an environment where technology, infrastructure, governance and implementation can be tested together, rather than separately.

From proof to capability

QCFR responds to the shift from technological proof towards operational capability. The fieldlab is designed to help move quantum-secured communication beyond isolated demonstration and closer to practical use.

Rotterdam and Europe

QCFR builds on earlier Rotterdam milestones in QKD and quantum-secured communication, while contributing to wider European ambitions around digital resilience, strategic autonomy, technological sovereignty and trusted connectivity.



QCFR in Practice

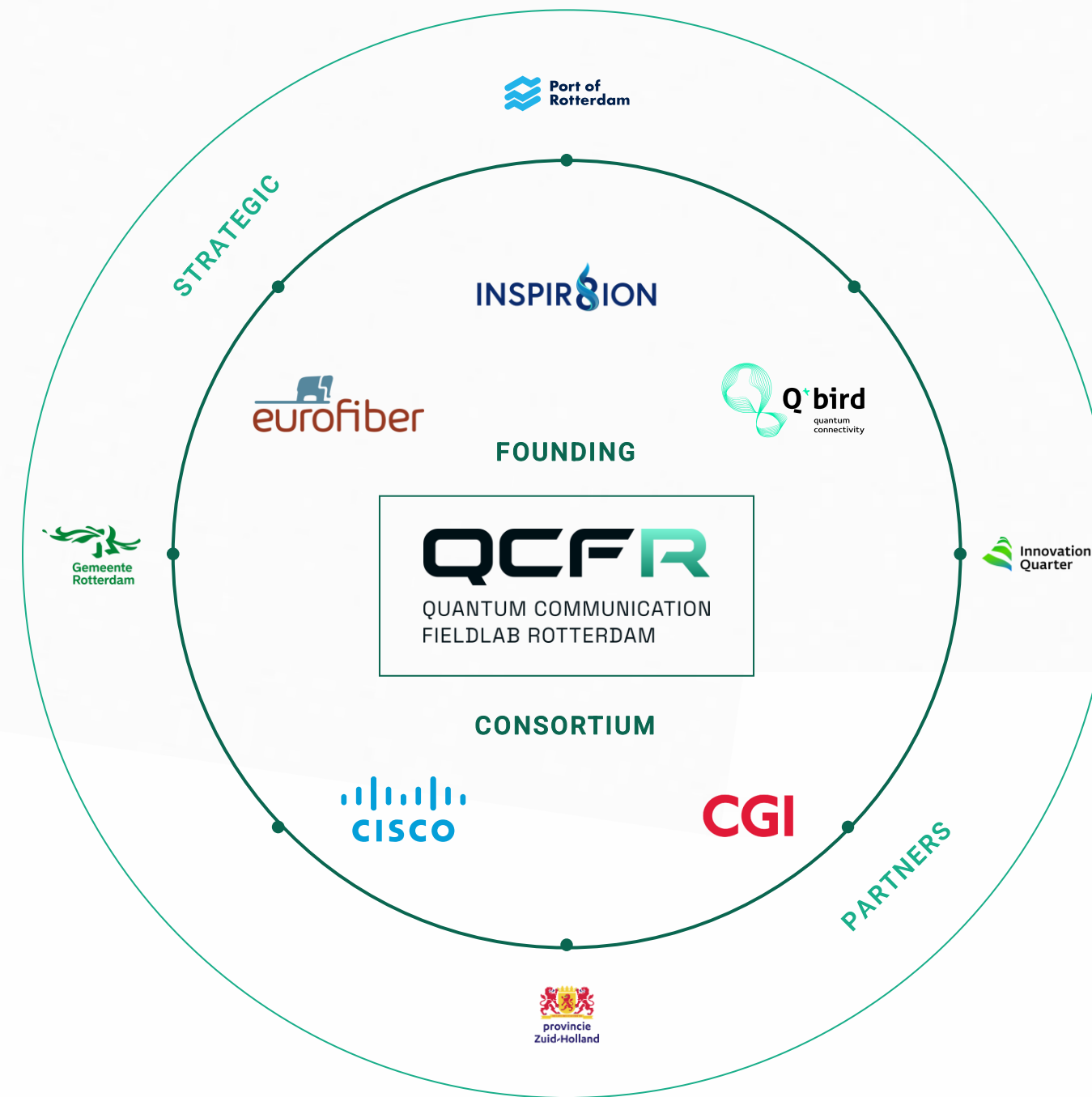
QCFR creates a practical environment in which quantum-secured communication can be assessed in relation to infrastructure, implementation and future use.

01 Testing in realistic conditions

QKD-based environments and related technologies can be tested under realistic conditions rather than in isolated demonstration settings.

02 Validation and interoperability

The fieldlab makes it possible to assess technical robustness, operational feasibility and interoperability with existing infrastructure and network architectures.



QCFR brings together infrastructure, technology, validation and collaboration to accelerate practical learning, trusted adoption and future use in critical infrastructure.

03 Practical learning and capability

QCFR supports capability development and knowledge transfer by helping organisations understand what implementation and trusted use require in practice.

04 Conditions for future adoption

The fieldlab also helps identify the deployment conditions, assurance approaches and future certification pathways needed for broader adoption.

Why This Founding Consortium Matters

QCFR works because each founding partner brings a different but essential building block. Together, they connect infrastructure, technology, integration and fieldlab development in one practical environment.

Infrastructure and connectivity

Eurofiber provides the connectivity and infrastructure context needed to move quantum-secure communication from theory towards operational relevance and realistic test conditions.

Quantum communication technology

Q*Bird brings the quantum communication technology and QKD expertise required to validate performance, robustness and practical application in a fieldlab setting.

Network architecture and integration

Cisco and CGI help ensure that quantum-secure communication can be assessed within real communication environments by connecting architecture, routing, interoperability and implementation.

Fieldlab development and coherence

INSPIR8ION helps organise QCFR as a broader fieldlab environment in which infrastructure, technology, validation, learning and next-step use cases come together.

What Starts Today

18 June marks more than a launch moment. It marks the formal start of a broader development line in which validation, learning, implementation and collaboration come together around quantum-secure communication.

From launch to use cases

QCFR will lead to concrete use cases in which quantum-secure communication is tested, validated and assessed in relation to practical needs, user requirements and operational conditions.

- Practical applications
- Operational conditions
- User requirements
- Validation in context
- Trusted deployment

From validation to knowledge

The fieldlab will generate stronger insight into where the technology adds value, under what conditions it performs well and what is required to move closer to practical and trusted use.

- Validation results
- Performance insights
- Interoperability lessons
- Implementation conditions
- Real-world applicability

From fieldlab to broader uptake

QCFR will help create the conditions for broader adoption through capability development, knowledge transfer and the first steps towards future assurance and certification pathways.

- Capability development
- Knowledge transfer
- Future assurance
- Certification pathways
- Trusted adoption



QUANTUM COMMUNICATION
FIELDLAB ROTTERDAM

Join the QCFR-Journey

Explore how your organisation can test, validate and shape relevant use cases for quantum-secure communication through QCFR.

“ Shape the next phase of quantum-secure communication with us!



Explore a pilot use case

Bring forward a concrete use case for testing, validation or learning in relation to quantum-secure communication.



Get in touch with us

Join the fieldlab, explore collaboration, and continue the conversation with us. We are here to help and support your Q-journey!



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