

NEURA PARSE

PITCH OF THE PROJECT PROPOSAL

# NODERIQ-RCN

## Mission continuity when networks degrade.

Resilient Cognitive Networking for  
Distributed Autonomous Systems

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CELTIC-NEXT

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CLASSICAL CORE / EDGE OPERATION / HUMAN AUTHORITY

AI concept illustration

## TEASER

# A restored connection is not a recovered mission.

## NETWORK VIEW

**Connected again.**

## APPLICATION VIEW

**Which state is right?**

## MAIN BENEFIT

## Supervised task continuity

Keep useful, authorised work moving when links degrade.

## ADDED VALUE

## Explicit application recovery

Combine network conditions, task state and reviewable evidence.

## WHY PARTICIPATE

## A shared industrial demonstrator

Create repeatable recovery tests and reusable integrations.

## ORGANISATION PROFILE

# Neura Parse

Governed AI, quantum workflows and edge systems.

## PROPOSED COORDINATOR / UNITED KINGDOM

NODERIQ is the applied autonomy programme.

NODERIQ-RCN is its focused CELTIC research proposal.

## Coordination & recovery

Shared task context, conflict handling and reconciliation.

## Evidence & human authority

Source-aware records, replay and explicit escalation.

## Integration & evaluation

Defined interfaces, classical baselines and repeatable tests.

## OPERATING PRINCIPLES



**Classical by default**

Edge-operable design

No quantum dependency

AI concept illustration

## PROPOSAL INTRODUCTION (1)

# Network-informed coordination. Explicit recovery. Local authority.

How can separated endpoints preserve an authorised task context, then reconcile before continuing?

## OPERATOR AUTHORITY

Approval, conflict resolution and consequential continuation

## NODERIQ-RCN APPLICATION LAYER

Shared task context / Coordination / Reconciliation / Evidence

## PLATFORM &amp; NETWORK INTEGRATION

Edge buffering, middleware, adapters and observable network conditions

## NON-NEGOTIABLE BOUNDARY

## Native safety stays local.

Motion control, interlocks and  
emergency stops remain  
with the platform and site.

## CONNECTED

Shared task baseline

## DEGRADED

Authorised local work, or hold

## REJOIN

Reconcile, resolve or escalate

## PROPOSAL INTRODUCTION (2)

# One industrial task. Repeatable recovery evidence.

## PROPOSED DEMONSTRATOR

## Material handoff between two work areas



AI concept illustration · pilot access to be agreed

**DELIVERY** Define → simulate → integrate → validate → transfer

## VALIDATION &amp; EXPECTED OUTCOMES

Repeat delay, loss, outage and rejoin under the same workload.  
Compare reconnect-only behaviour with explicit reconciliation.

**STATE CONVERGENCE**

Time to a reconciled state

**CONFLICTS & DUPLICATES**

Inconsistent work per run

**EVIDENCE COMPLETENESS**

Can the run be reconstructed?

**OPERATOR BURDEN**

Interventions and decision time

**EXPLOITATION**

Software licensing, scoped integration and follow-on pilots.

## PARTNERS

# One pilot owner. A complementary technical team.

PRIORITY PARTNER SOUGHT

## Industrial pilot / end user

Manufacturing

Intralogistics

Infrastructure inspection

Workflow, site access, platforms,  
operator authority and acceptance.

## PROJECT LEAD

## Neura Parse Ltd · United Kingdom

Application coordination, recovery and evidence

## COMPLEMENTARY ROLES UNDER DISCUSSION

**Network & middleware**

Virtual/private 5G, ROS 2 / DDS, network observability

**Edge & platform integration**

Local buffering, gateways and representative robots

**Assurance & validation**

Policy checks, reproducible tests and evidence review

Partner discussions: Austria, Türkiye, Spain, Portugal and Germany.

External participation remains unconfirmed and subject to partner agreement and national funding eligibility.

CONTACT INFO

# Bring one operating problem.

A defined workflow. A technical owner.  
A measurable recovery question.

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JOIN NODERIQ-RCN

**Pilot.  
Integrate.  
Validate.**

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Target proposal submission

**26 October 2026**