CELTIC-NEXT
Spring call 2023 Launch event

9th of December 2022, Online via WebEx

Communications Enabled Twins by Artificial Intelligence

COMET AI

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Teaser

What is the main benefit of the idea/proposal?

- Ensuring network operational efficiency, Automate lifecycle management of Network Slices, Incorporate predictive demand and maintenance, using Artificial Intelligence and Machine Learning (AI/ML), Conforming to 6G requirements

What makes the added value?

- Digital twins combined with AI, provide important insights and optimization of system performance, leading to improved decision-making processes, by their ability to collect and visualize real-time data, enabling smart analytics, network behavior prediction and reduction of system margin

Why should I participate in the project?

- The global Digital Twins and AI markets are growing and valued at multiple $B in 2023 and beyond
- Increased demand for Digital Twins and AI in Healthcare, Manufacturing and Telecom
- Increasing no. of IoT devices and intelligent optical networks
- Changing face of maintenance, Large-scale industrialization

COMET – ECI Telecom - Eli Tocker, eli.tocker@rbbn.com. Dr. Abhishek Anchal, abhishek.anchal@rbbn.com

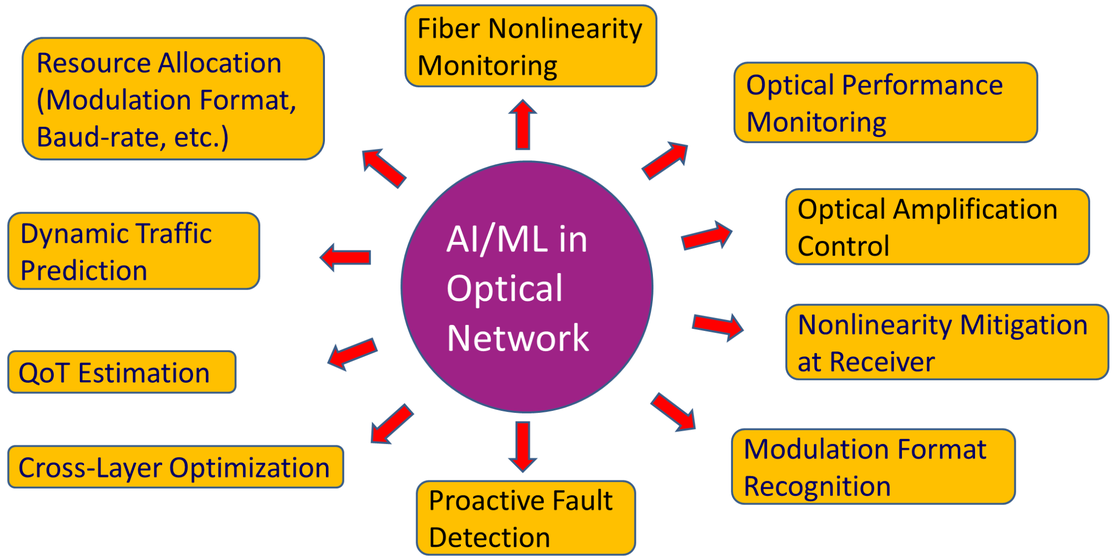
Organisation Profile

- **ECI Telecom (now Ribbon Communications** (Nasdaq: RBBN) IP-Optical division) delivers IP and optical networking solutions and communications software to service providers and critical infrastructure sectors, globally
- ECI's end-to-end solutions portfolio delivers unparalleled scale, performance, and agility, with cloud-native offers and analytics tools, as part of the IP and Optical networking solutions for 5G
- With over 60 years of Telecom experience, ECI Telecom Packet-Optical solutions are provided to over 250 leading customers worldwide

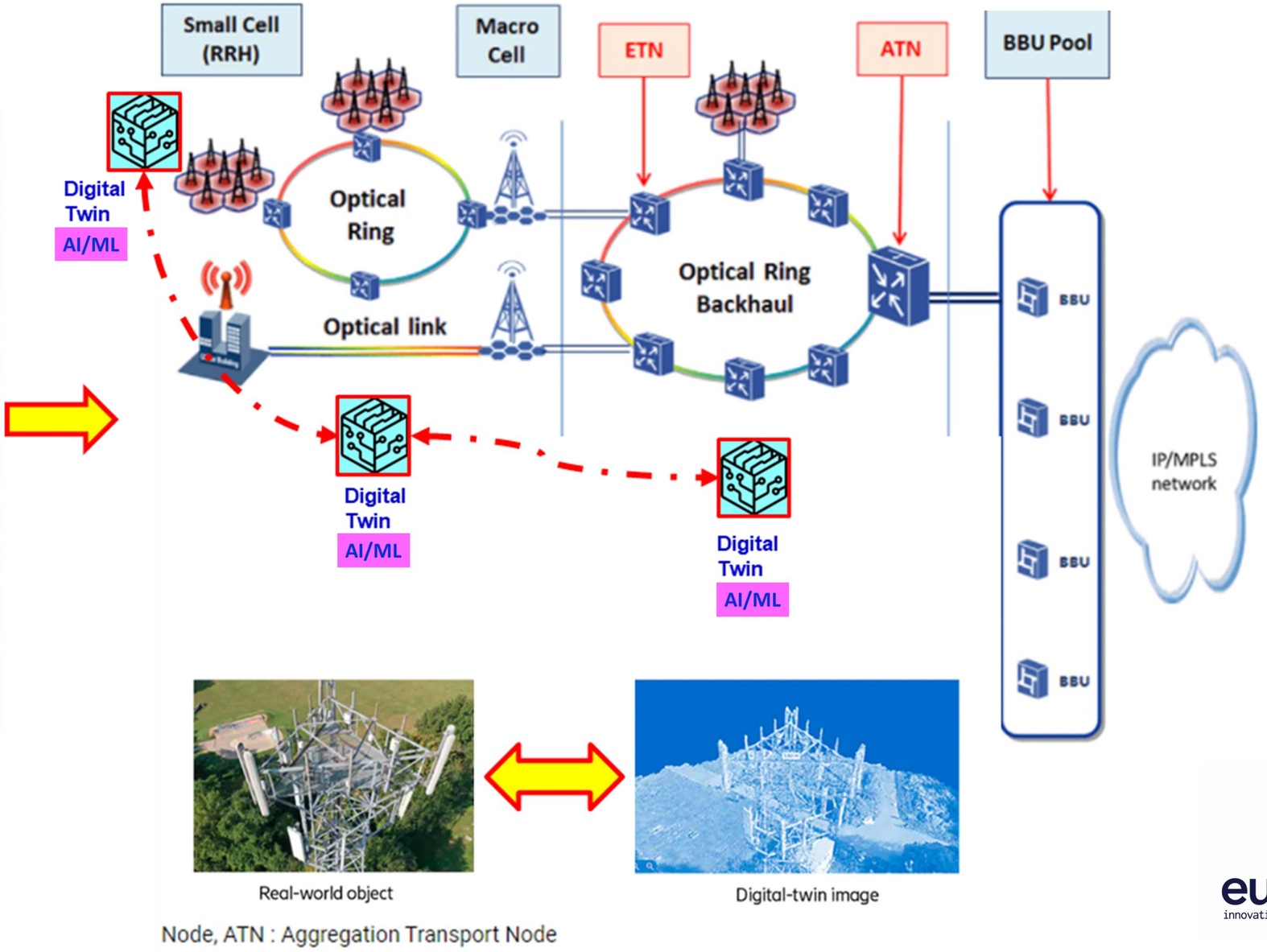
Proposal Introduction

What the idea/proposal is about (vision, motivation, content)

- To research and implement a Digital Twins with AI/ML in Dynamic Optical Networks concept and solution in Communications related Use cases
- To support intelligent and automated Network Management & Orchestration (Provisioning, Monitoring, Analysis & Prediction)
- Intelligent Modeling, continuous monitoring and measuring, with AI-based data analysis



Proposal Introduction



Proposal Introduction

Expected outcome

- An end-to-end digital twin, intelligent, AI/ML-based model of optical networks, in specific use cases with Intelligent Network Management & Orchestration

Impact

- Impacting the optical networking industry with optimal performance, Resource allocation, Monitoring, AI-based Analysis & Prediction

Schedule

- 36 months, starting 10/2023

Partners

Partners we are looking for

Telecom partners (Edge) that will provide new and complementary use cases

Partners with expertise in Network modeling and creation of User experience

Network Management and Orchestration partners

Data analysis and Artificial Intelligence developers

Customers Service Providers and Network Operators

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Contact Info

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https://ribboncommunications.com

Presentation available via:

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