CELTIC-NEXT
Proposers Day

7th of September 2022, Online via WebEx

Communications Enabled Twins

(COMET)

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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, Conforming to 6G requirements

What makes the added value?

- Digital twins could provide important insights on system performance, leading to improved decision-making processes, by their ability of collecting and visualizing real-time data, enabling smart analytics and network behavior prediction

Why should I participate in the project?

- The global Digital Twins market is growing and is valued at multiple $B in 2022 and beyond
- Increased demand for Digital Twins in Healthcare, Manufacturing and Telecom
- Changing face of maintenance, Large-scale industrialization
- Increasing no. of IoT devices

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
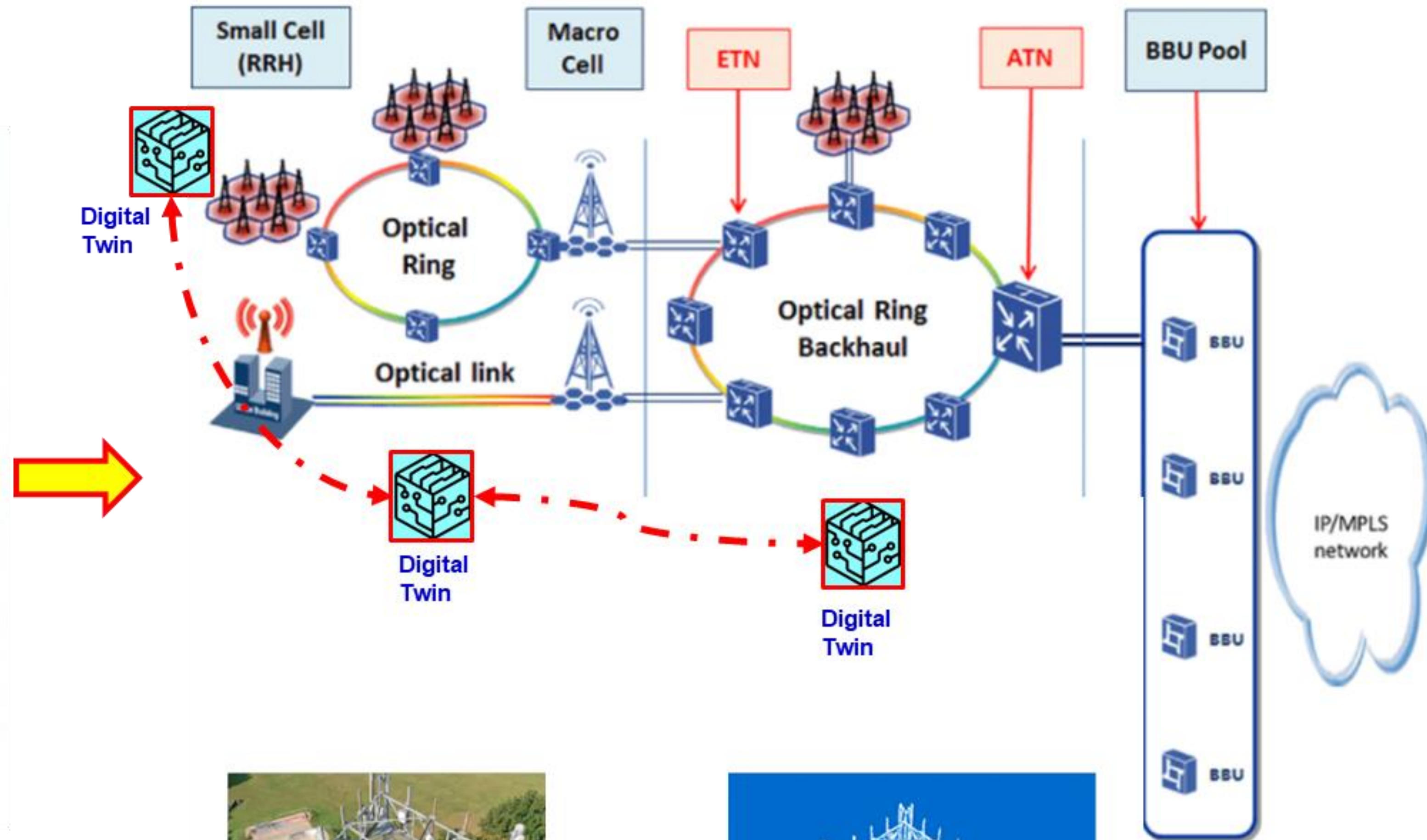
Proposal Introduction

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

- To research and implement a Digital Twins concept and solution in Communications related Use cases
- To support intelligent Network Management & Orchestration (<u>Provisioning, Monitoring, Analysis & Prediction</u>)
- To focus on intelligent Modeling, continuous monitoring and measuring, with AI-based data analysis

Proposal Introduction

Real-world object ↔ Digital-twin image

Node, ATN : Aggregation Transport Node

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Proposal Introduction

Expected outcome
- An end-to-end digital twin, intelligent model of wireless and optical network, in specific use cases with Intelligent Network Management & Orchestration

Impact
- Impacting the industry with optimal Resource allocation, Monitoring, AI-based Analysis & Prediction

Schedule
- 36 months, starting 4/2023

Partners

Partners we are looking for

Telecom partners (Edge, Radio) 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

eureka
innovation beyond borders

Contact Info

For more information and for interest to participate please contact:

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Presentation available via:

12th Sept 16 CET

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