



CELTIC-NEXT Proposers Day



7th of September 2022, Online via WebEx

Pitch of the Project Proposal

5G on streetlights



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Teaser



*A disruptive method for 5G
densification
No need for Site Acquisition
No need for Backhaul
No digging in the city
Scalable solution
Low Cost (ASIC Based)*

RunEL Profile



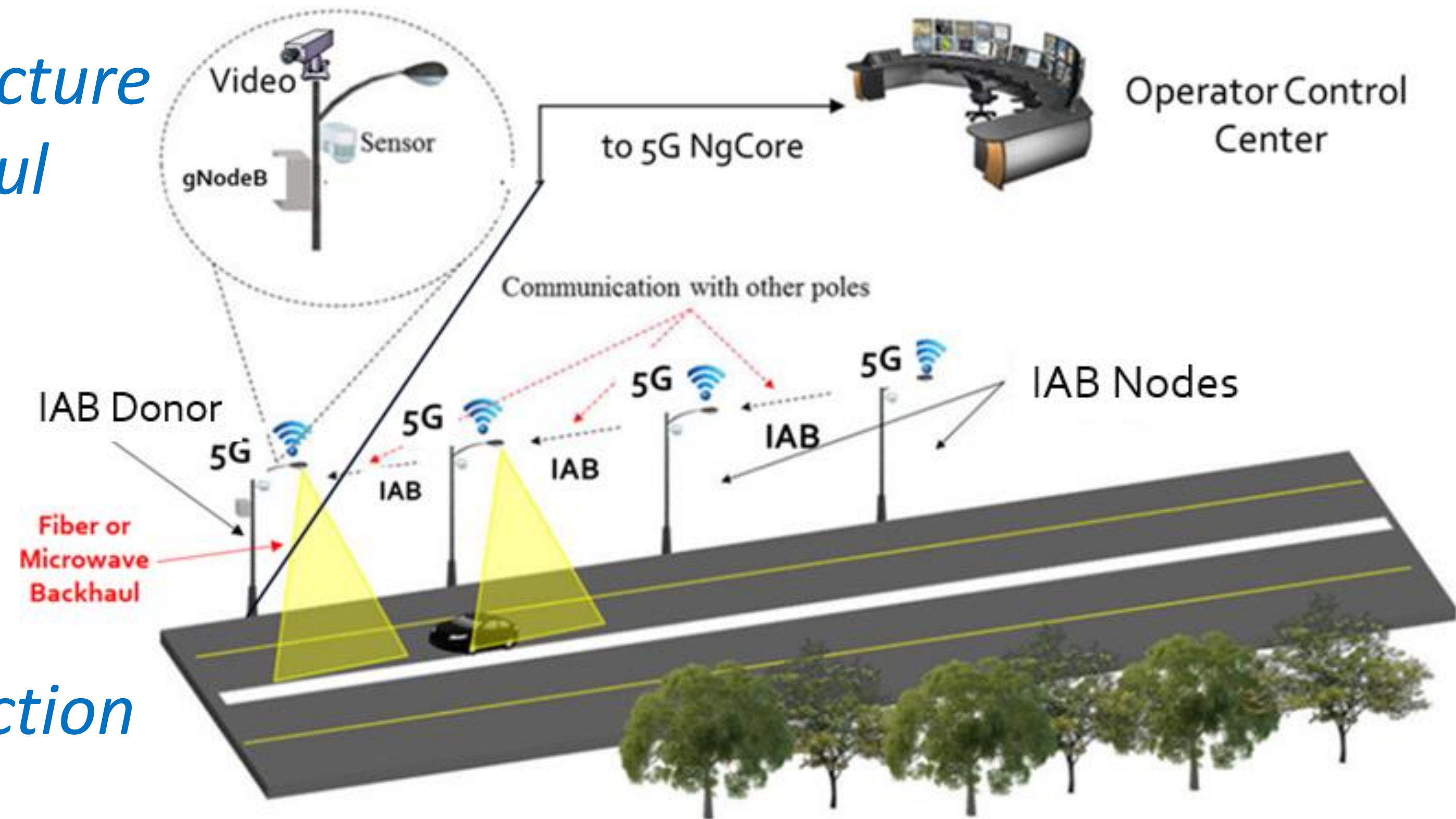
- *Founded in 2016*
- *SME ; 16 Researchers (2 x PHD) and Engineers*
- *Centre of Excellence for OFDMA Technology (PHY layer of 4G and 5G)*
- *Developed an End to End 5G System for Private Networks*
- *Participating in 5 EU Projects (IoRL, 5 Genesis, Affordable 5G, 6G Brains and BeGreen)*



Proposal

Introduction

- *Develop an End to End 5G infrastructure with Integrated Access and Backhaul (IAB)*
- *Donor and Nodes installed on streetlights, power poles, etc.*
- *Applicable for Urban and Suburban areas*
- *ASIC for Donor and Node cost reduction*
- *Sub 6 and/or mm Wave spectrum*
- *Easy to Install and operate*
- *Provide accurate UE location (1cm)*



Proposal

Introduction



- *Duration 36 month*
- *Will expedite 5G deployment worldwide*
- *Green Solution (low power consumption and low electromagnetic pollution)*
- *Outcome:*
 - *Full 5G end to end infrastructure*
 - *Donor, Node (for IAB)*
 - *ASIC for Donor and Node*



Partners



- *ASIC Designer (Backhand and Front hand)*
- *ASIC IP vendor (such as Arm)*
- *5G Operator in Europe*
- *5G System Integrator*
- *Smart City Application and service providers*
- *5G Protocol stack (DU, CU)*
- *5G Core supplier*
- *Streetlight poles suppliers*
- *RU supplier (Sub 6GHz and mm Waves) - RunEL*



Consortium Building Session



Available from 8 to 14 of September

From 09:00 to 11:00 AM (CET)



Contact Info



For more information and for interest to participate please contact:

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Presentation available via:



13th Sept. 09 CET

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