

Commercial Challenges for Photonics as 5G Booms

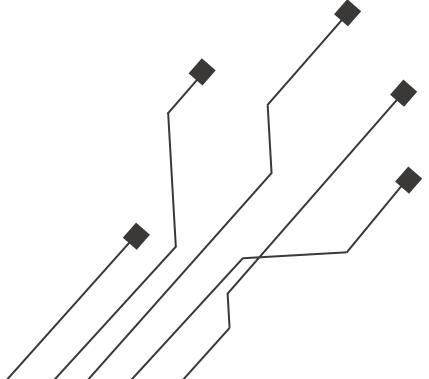
Francisco Rodrigues

francisco@picadvanced.com









COMPANY

PICadvanced instituto de telecomunicações universidade de aveiro

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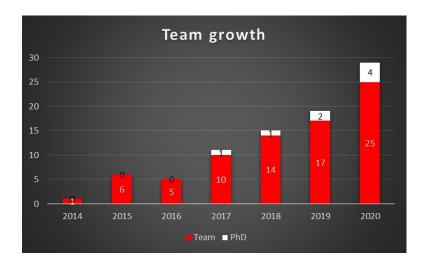
Profile

- Founded in 2014. Located in Portugal
- First in the market with fully-compliant/certified NGPON2 ONU
- Unique in the market on PIC development for access



Awards & Recognitions

- TOP 25 Portuguese ScaleUP 2018 2019
- 2019 Deloitte EMEA Fast EMEA Technology Fast 500 (#49 overall)
- 2020 IAPMEI PME Líder

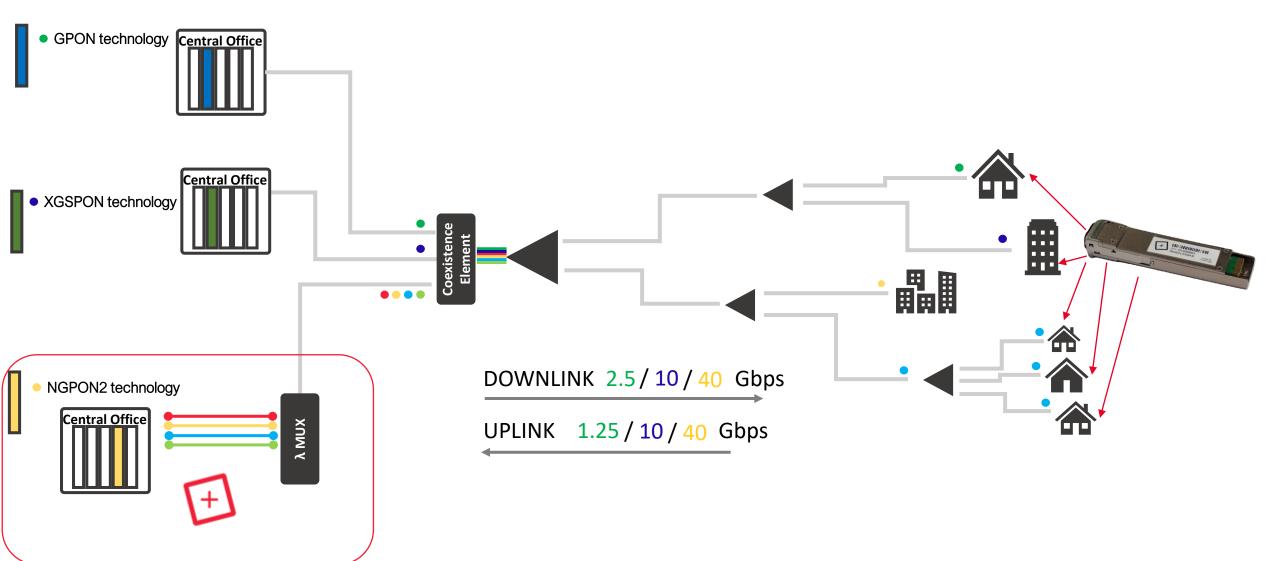






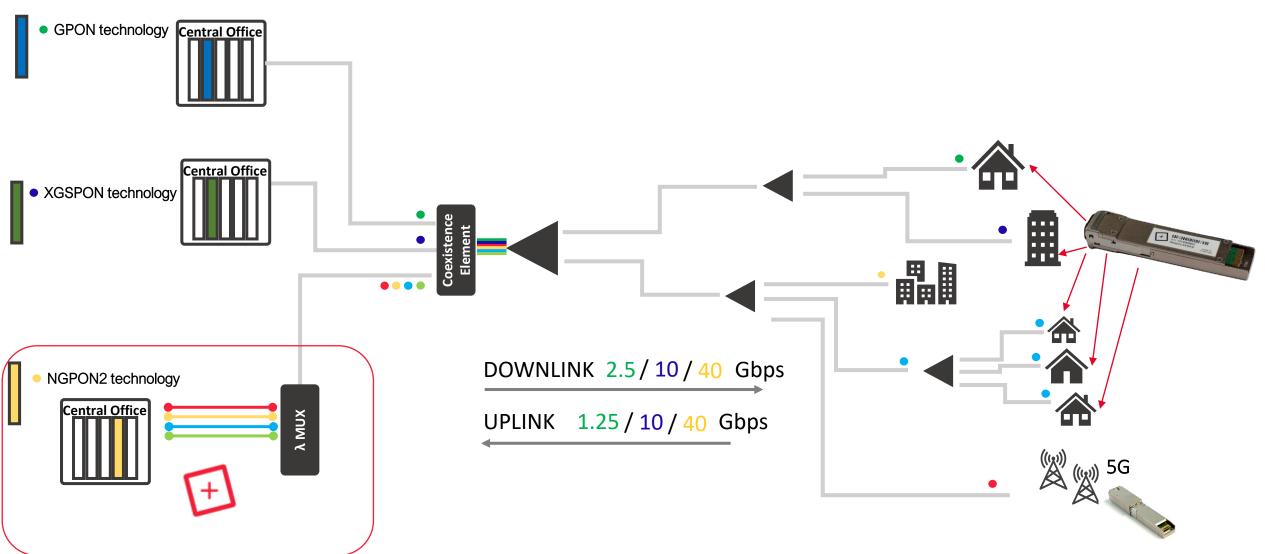
PON





PON: infrastructure for 5G midhaul





Enable PON connection to 5G: NG-PON2 "stick"



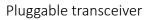














NG-PON2 stick

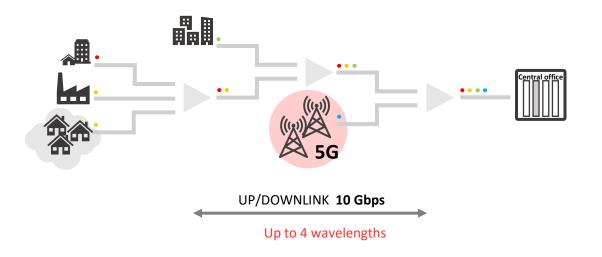
NG-PON2 "stick": 5G enabler



- SFP+ is a standard interface for:

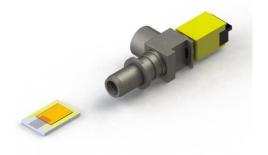
 - Base station
- Feed common routers with PON ports directly
- Simple network structure with fiber reuse



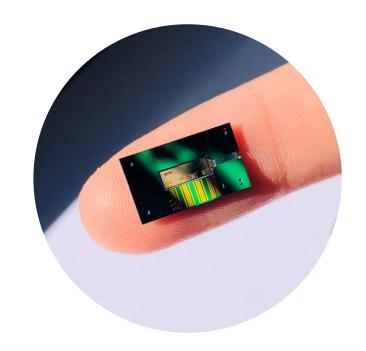


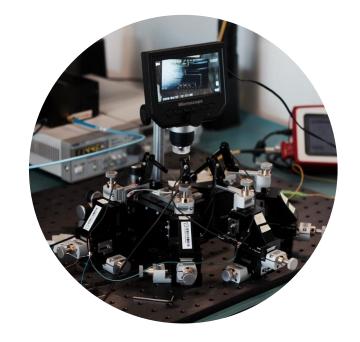
Photonic integration: path for 5G improvement











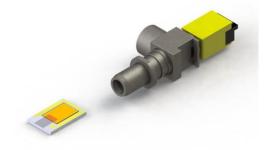
Layout & Simulation

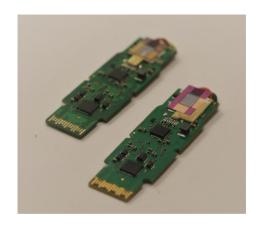
Packaging

Test & Characterization

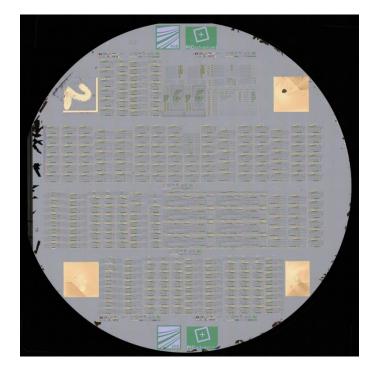
Photonic integration: path for 5G improvement







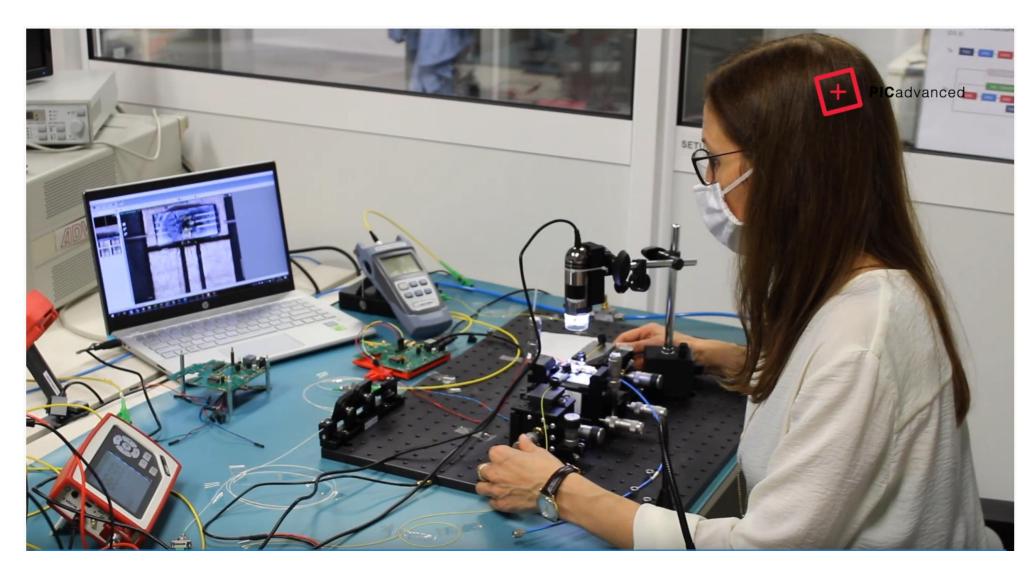




COME AND E-VISIT US

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https://youtu.be/T-V7Zi4ZW3c







THANK YOU!

think outside the box with us

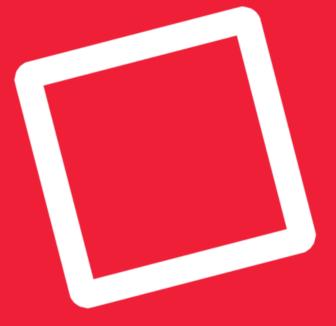
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