

Sustainable 5G networks

- Using PON transport for mobile networks



Value Proposition

We are looking into the potential of reusing existing Passive Optical Network (PON) resources for transport of mobile data. Reusing existing PON technology for transport of mobile data leads to resource savings and sharing of capacity.

Business Opportunity/Commercial Perspectives

The technology is important for mobile network operators, fiber network operators and R&D companies in the area of mobile networks. The technology ensures that a new fiber network shall not be deployed to serve the 5G mobile network.

Technology Description

Future mobile networks require fiber connections all the way to the antenna mast in order to deliver the promised high speed, low latency connections. Deploying fiber to all antenna masts will be both expensive and troublesome. In some areas PON technologies are already deployed for “Fiber to the Home” solutions. Therefore it will be beneficial to transport different types of data, including mobile data on the existing network.

Development Phase/Current State

TRL 3 – Experimental Proof of Concept. Current work is looking into how the PON technology and the mobile network technologies can cooperate.

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Seeking

- Funding/Investors
- Partner/Research Collaboration