



5G-STEP FWD (06/2017 – 05/2021)

Target: Research and development of new technologies in 5G Telecommunications from University graduates

OTEAcademy participates in the innovative/educational European program Marie Curie 5G STEP FWD, (<https://www.5gstepfwd.eu/>), for the design of architectures and algorithms that will help implement the upcoming 5G mobile networks.

5G STEP FWD suggests architecture which uses Ultra-narrow wavelength spacing (UDWDM PONs) passive optical systems for transmission that are connected to the access with Microwave radio-networks through optical fibers in order to achieve high throughput and low delay of the transmitted information. Furthermore, the Software-Defined-Networks technology (SDN) is utilized which integrates multiple wireless systems and ground optics in a joint network to support the flexible control and management of the network.

OTEAcademy participates in the planning of the wireless microwave access microcells and the determination of evaluation scenarios of the produced technology.

The project is funded by the European Union through the Horizon 2020 program, the duration of the program is 4 years (6/2017-5-2021) and there are 9 partner- organizations from six (6) countries (Greece, Spain, France, Italy, Holland, Sweden).

More information on the project can be found at the following website:

<https://www.5gstepfwd.eu/>