Press Information

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VPIphotonics contributes to OptiCON

R&D project OptiCON to significantly expand the capacity of optical metro and core networks aiming to build next-generation solutions able to carry ten times more throughput than today

OptiCON (*Optimized capacity in optical networks OptiCON*) is a new R&D project funded by the German Federal Ministry of Education and Research (BMBF). OptiCON aims to considerably boost the capacity of optical metro and core networks. In particular, OptiCON's goals include expansion of mobile applications at and beyond 5G, leveraging unused optical spectrum and developing new fiber types, novel transmission schemes, and advanced monitoring and SDN control. Started in June 2019, the three-year project has a budget of almost 4 Million € and comprises 5 partners across a broad value chain including academia, hardware/ software technology developers, and component and system vendors: ADVA (FSE: ADV), the Fraunhofer Heinrich Hertz Institute, highstreet technologies, the Technical University of Munich, and VPIphotonics.

"Further boosting network capacity and agility is indispensable to meet the ever-increasing data demand arising from cloud, video, and mobile services. It is certainly exciting to contribute to the process of taking fiber transmission technologies and optical networking concepts to the next level. OptiCON provides us the opportunity to share the necessary know-how and investigate disruptive methods and approaches leading to this goal in a great project team, " said Dr. André Richter, General Manager of VPIphotonics.

VPIphotonics participates in OptiCON with a team of engineers by developing new modeling and design concepts addressing broadband optical networks and resources used therein to considerably enhance the network capacity. This work comprises tasks such as the optimization of the potential of current multiband transmission systems by using comprehensive simulation and modeling approaches. New fiber models will be integrated into the simulation environment to allow an extensive verification of their merits towards the project goals. Furthermore, VPIphotonics will actively participate in the development and test of novel DSP routines, and in the implementation and verification of algorithms for offline and online optical network planning of multiband transmission systems and systems based on new fiber types.

For further information, please visit https://www.forschung-it-sicherheit-kommunikationssysteme.de/projekte/opticon

OptiCON

Bundesministerium für Bildung und Forschung

About VPIphotonics

VPIphotonics™ sets the industry standard for end-to-end photonic design automation comprising design, analysis and optimization of components, systems and networks. We provide professional simulation software supporting requirements of optoelectronics, integrated photonics and fiber optics applications, optical transmission system and network applications, as well as cost-optimized equipment configuration. Our team of experts provides professional consulting services addressing customer-specific design, analysis and optimization requirements, and delivers training courses on adequate modeling techniques and advanced software capabilities.

VPIphotonics' award-winning off-the-shelf and customized solutions are used extensively in research and development, and by product design and marketing teams at hundreds of corporations worldwide for 20+ years. Over 160 academic institutions joined our University Program enabling students, educators and researchers an easy access to VPIphotonics' latest modeling and design innovations.

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