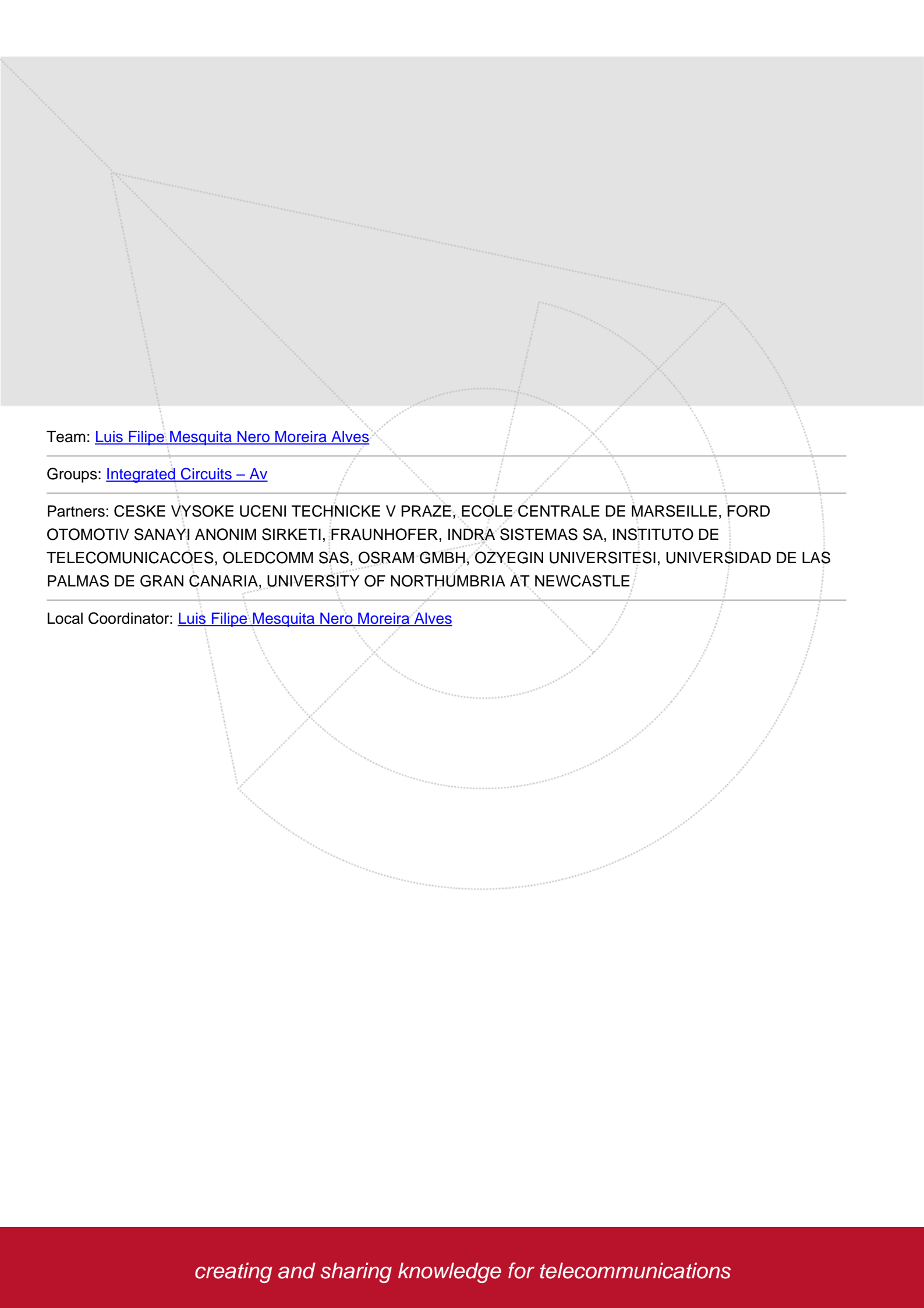


# PROJECT / Visible light based Interoperability and Networking

## Vislon

### Main Objective:

New generations of LEDs have attractive features such as a long life expectancy, lower power consumption and reduced heat dissipation. In line with governmental plans worldwide, it is predicted that LEDs will be the ultimate light source in the near future. Besides indoor illumination, LEDs are being widely used in street lighting, traffic signs, advertising displays, transportation, etc. Visible light communication (VLC) is one of the most promising current areas of research with a significant potential for high-impact results, and successful outcomes might revolutionize utilization of LEDs for modern infrastructures to add novel functionalities in addition to illumination. VLC has been proposed for smart homes and streets, manufacturing and medical environments for increased data security and reduced interference, or a two-way vehicle-to-vehicle and vehicle-to-roadside infrastructure communications as part of the emerging intelligent transportation systems for increasing road safety. The proposed “European Training Network on Visible-light based Interoperability and Networking (Vislon)” aims to train a new generation of early-stage researchers (ESRs) in the emerging area of VLC. Through research on co-supervised individual projects focusing on selected applications, Vislon will make significant contributions to the fundamental scientific understanding and technical knowhow. Targeted application areas include indoor and outdoor VLC access, smart transportation, and medical and manufacturing environments. In addition to technical training through PhD



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