Announcement Letter

LEDLUM, a **European cooperative research project**, has officially started on November 1st, 2016 and is planned for a duration of 36 months. By developing the **world's smallest Light Engine**, LEDLUM targets to establish Europe as the world leading innovator in Solid-State-LIghting solutions. The project receives funding from the European Union´s Horizon 2020 research and innovation programme under grant agreement n° 731466.

LEDLUM - TINY LIGHT ENGINE FOR LARGE SCALE LED LIGHTING

LEDLUM develops a **highly integrated cost competitive light engine technology platform** for Solid State Lighting (SSL) connected directly to the electrical power grid.
LEDLUM for the first time proposes to develop an integrated system level solution for realising a highly miniaturised, efficient light engine.

LEDLUM is committed to make a **major innovation** step in overall solid-state lighting engines by reduction of size, material costs, energy losses and an increasing lifetime.

size and weight reduction by 90%	material costs reduction by 50%	energy losses reduction by 45%	expected lifetime increases from 5 to 10 years

The methods include integrated magnetics, deep-trench silicon level capacitor design, integrated circuit level power electronics and mechanical design for optics and end customer ready demonstrators.

LEDLUM **covers the whole supply chain** starting from passive and semiconductor components of power electronics systems, light engines to complete luminaires. Thereby a European eco-system that supports highly optimized LED systems is established.

The drastic size reduction enabled by the innovative technology platform in LEDLUM is a direct response to the "breakthrough in miniaturization of SSL light engines and systems" contained in the RIA of the ICT29 call. This leads to a strengthening in Europe's lighting business and will probably **create around 1.000 new highly sophisticated jobs**. LEDLUM with its disruptive technological approach will therefore **strengthen the market position** in the field of LED drivers and LED based luminaires for the next decade.

PHOTONICS PUBLIC PRIVATE PARTNERSHIP

The LEDLUM project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 731466.
This project is an initiative of the Photonics Public Private Partnership.

The LEDLUM consortium consists of 7 partners from 4 different countries (Austria, Denmark, France and Ireland) who will support the project success with their know-how and expertise.

The partners are:

- TECHNIKON Forschungs- und Planungsgesellschaft mbH , Austria
- Nordic Power Converters ApS, Denmark
- Tridonic GmbH & Co KG, Austria
- Ipdia SA, France
- L.E.D. Lighting and Electrical Distribution Group, Ireland
- Danmarks Tekniske Universitet, Denmark
- University College Cork - National University of Ireland, Cork, Ireland

The project is coordinated by Dr. Klaus-Michael Koch from TECHNIKON/Austria. Dr. Mickey Madsen from Nordic Power Converters/Denmark is leading the technical work within LEDLUM. Please find below further contact information for your disposal.

For more information visit http://www.ledlum-project.eu [coming soon]

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