



## 1D NANOFIBRE ELECTRO-OPTIC NETWORKS

### ABOUT

**1D-NEON** is a 4 year Innovation Action of H2020 funded by the European Commission under the NMP-22 2015 call topic "**Fiber-based materials for non-clothing applications**".

The **VISION** of the 1D-NEON project is to create outstanding added value for the textile manufacturing industry. This will be accomplished by developing fibre-based smart materials along with an integrated technology platform for the manufacturing in **Europe** of new products enabling applications in sensing, lighting, energy and electronics.



## NEWS & UPDATES

In this 1st Newsletter we provide a summary of the 1D-NEON project technical activity and dissemination actions as well as upcoming events. 1D-NEON Partner Solvay shows you an insight on their main activities.

### PROJECT MEETINGS

- Kick-off Meeting in May 2016 at Brussels, Belgium
- WP1 & 2 Meeting in July 2016 at UNINOVA , Caparica Portugal
- M6 Meeting in October 2016 at EURECAT, Barcelona, Spain
- M12 Meeting in April 2017 at SAATI, Appiano Gentile, Italy

### SCIENTIFIC EVENTS

#### innoLAE 2017 - e-fibres/e-textiles workshop

Project Coordinator Prof. Jong Min Kim addressed technology challenges and opportunities for large-area electronics in e-fibres/e-textiles market.

#### LOPEC 2017

Partners Cambridge University, EURECAT and CeNTI represented 1D-NEON at LOPEC.

#### Textile ETP 2017 - Future of Textiles and Clothing

Partners EURECAT and CeNTI presented 1D-NEON results at the 12th Annual Public Conference of the ETP.

#### EMRS Spring 2017 - Electronic Textiles Symposium J

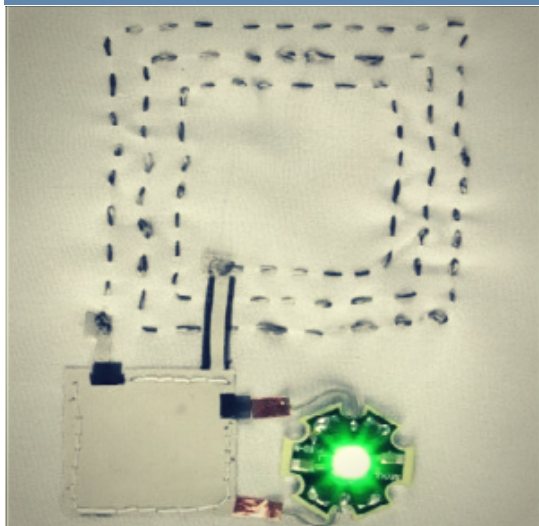
UCAM's Luigi G. Occhipinti and Jong Min Kim presented The 1D-NEON project: challenges and opportunities of e-fibres in smart textiles.



1D-NEON (1D Nanofibre Electro-Optic Networks) is a project funded by the European Commission under the call H2020-NMP-22-2015 Grant Agreement No. 685758 (Innovation Action)



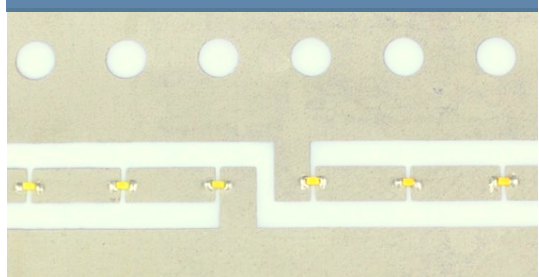
## ANTENNA &amp; CAPACITOR ON FABRIC



## BRIGHT SMART CURTAIN



## LEDS ON FABRIC



# MAIN ACHIEVEMENTS

In this first year 1D-NEON has already several **SMART TEXTILE DEMONSTRATORS**. Videos are available [here](#).

- TUNED ANTENNA & CAPACITOR ON CONDUCTIVE FABRIC
- RF POWERED BRIGHT SMART CURTAIN
- LED ACTIVE MATRIX ON TEXTILE

# UPCOMING EVENTS

**25 September 2017** **Functional Fibre Materials**

This is the first of a series of **free webinars** provided by 1D-NEON partners on all facets of the project.

This webinar will focus on the materials required for smart textiles and will be provided by **CeNTI** and **Solvay**

**FREE online Registration available NOW** at [www.1D-NEON.eu](http://www.1D-NEON.eu)

# INSIDE 1D-NEON

A well set Consortium is always a good chance to **increase companies know-how and develop something, novel and challenging but with a really high technical and technological value.**

This can be obtained only by a careful selection and a good management of the participants by having a deep technical knowledge of what we have in mind to design and realize in the frame of the project. There are many **factors that make me proud to be part of this valuable network**: First of all, the **possibility to interact with highly skilled persons from industry, companies and universities**, then the cross fertilization by sharing technologies. Industries have core businesses on products and on specific processing, universities and small companies instead are deeply skilled in combining and using materials in the electronics world. **During the first year I had the experience to process Solvay's materials in fibers**: a processing technology I was unaware of and not expert, for sure a processing way that I would have never done if I was not involved in a project like **1D-NEON**."

— Alessio Marrani 1D-NEON Partner Solvay



## Project Coordinator

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