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1D-NEON is a 4 year EC-funded project, from
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Project Number: 685758

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NEON

1D NANOFIBRE ELECTRO - OPTIC NETWORKS

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1D NANOFIBRE ELECTRO-OPTIC NETWORKS

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.

OUR OBJECTIVES

FUNCTIONAL FIBRES NANOMATERIAL

Develop fibre-based materials and process technologies

NEW SMART FIBRES

Integrate nanomaterials into different fibre elements

FIBRE DEVICES

Fibre diodes and transistors; Fibre photonic and energy devices; Fibre sensors

NANO FIBRES NETWORKS

Textile curtains; wall displays; eco-friendly energy textiles and smart sensors for e-skin

OUR OUTCOMES



STRETCHABLE FIBRES
ELECTRODES



FIBRE COLOR ELEMENTS



FIBRE FETS



FIBRE LEDs



FIBRE SENSORS



SMART FIBRE WEAVING

SMART
FUNCTIONAL
TEXTILES

