PARTNERS

Nanotechnology Lab LTFN - Aristotle University of Thessaloniki (AUTh), Greece

National Physical Laboratory, UK

University of Surrey, UK

Organic Electronics Technologies P.C., Greece

University of Ioannina, Greece

Centro Ricerche FIAT, Italy

APEVA, Germany

Granta Design, UK

Fluxim, Switzerland

Hellenic Organic & Printed Electronics Association, Greece

PROJECT INFORMATION

Call: H2020-NMBP-07-2017
Type of action: Research & Innovation Action
Acronym: CORNET
Topic: Systems of materials characterization for model, product and process optimization
Duration: 39 months (1/2018-3/2021)

CONTACT US

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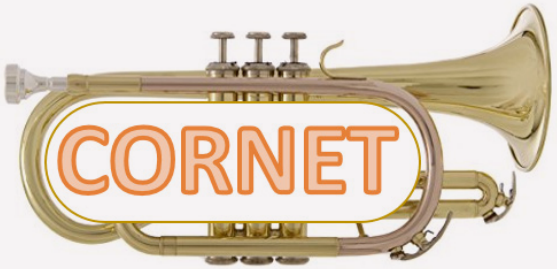

MULTISCALE MODELLING AND CHARACTERIZATION TO OPTIMIZE THE MANUFACTURING PROCESSES OF ORGANIC ELECTRONICS MATERIALS & DEVICES

www.cornet-project.eu

This project has received funding from the European Union's HORIZON 2020 research and innovation programme under Grant Agreement No 760949.

ABOUT

CORNET will develop a **unique EU Open Innovation Environment (OIE)** covering the triangle of manufacturing, modelling and experimentation.

CORNET will **optimize the Organic/ Large Area Electronic materials, materials' behaviour** and nano-devices' **manufacturing processes** by linking the nanostructure features with the macroscopic functionality through multiscale characterization and modelling.

This will strongly impact the fast and reliable development of new materials, devices and will enable control of the related production processes to fabricate tailored OE devices and systems for **industrial applications**.

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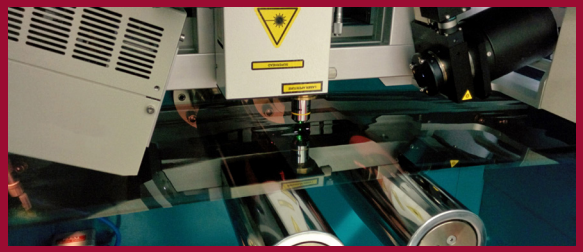
OBJECTIVES

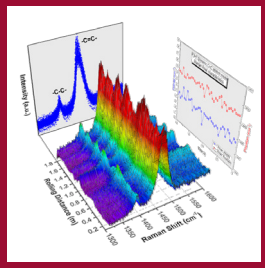
- **Development of an effective OIE connecting world-class industrial, academic & research experts in Manufacturing, Multiscale Characterization & Modelling, for optimization of OE materials, materials behaviour and process optimization and for reliable database, citable protocols and contribution to standards.**
- **Multiscale Characterization & Modelling to optimize OE materials & devices fabrication and validation of materials models for faster development cycle**
- **and time-to-market. Optimization of the fabrication of OPV, PPV and OLED Devices by R2R Printing and OVPD Manufacturing Processes.**
- **Efficient large scale Fabrication of tailored (OPV, PPV, OLED) nano-devices by R2R printing and OVPD processes and Demonstration to Industrial**



Multiscale Characterization
Optical, Electrical, Surface, Structure, Mechanical, Barrier, Thickness

DATABASE & STANDARDS

Multiscale Modelling
DFT, Molecular Dynamics, Mesoscopic, Compact Modelling, Simulation



Large Scale Manufacturing
R2R Printing, OVPD