



# Mass production and applications in Organic Flexible Electronics: pilot lines and use cases

CONFERENCE ON POLYMERS AND ORGANIC MATERIALS FOR ELECTRONICS AND PHOTONICS: SCIENCE FOR APPLICATIONS (81TH PMM)

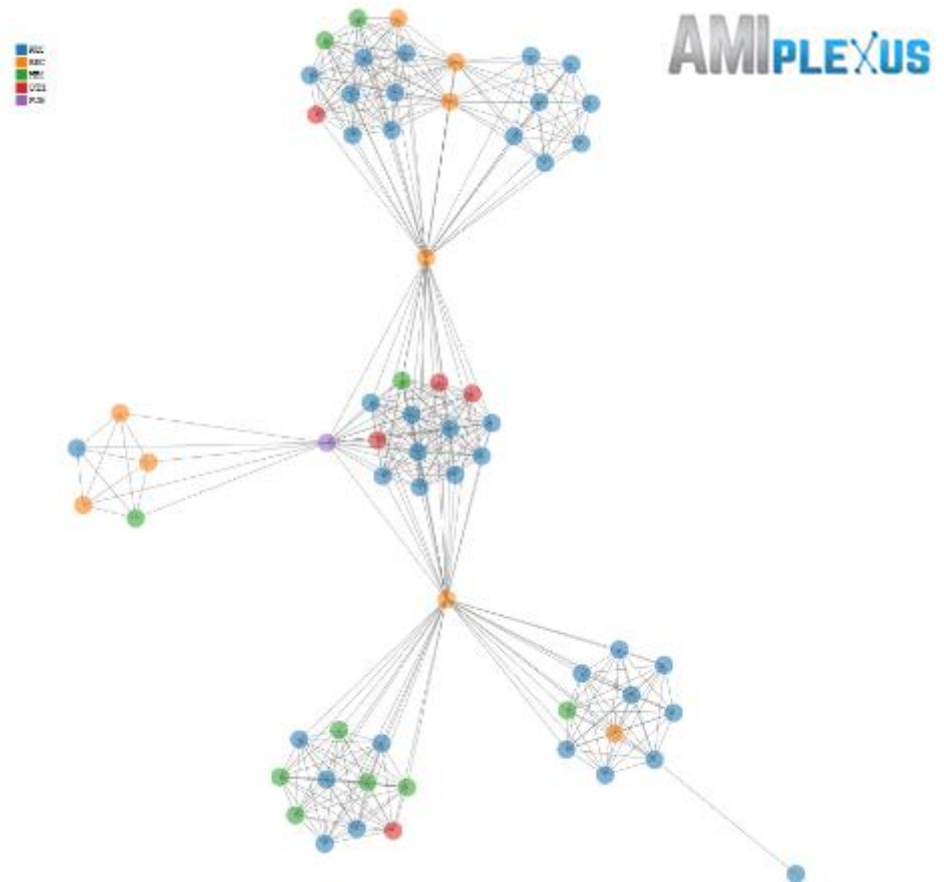
10-14 September 2017, Prague (Czech Republic)

**Elena Turco – AMIRES**

# AMIRES profile



- Strategic partner(s) search
- Proposals preparation and submission
- Projects management
- Innovation opportunity analysis
- Business Innovation Coaching
- Technology scouting
- Webinar and events management



**AMIPlexus - a cooperation visualization engine:**  
[www.amiplexus.eu](http://www.amiplexus.eu)

# Market needs

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- **From R&D scale to mass production scale**
- Increase accessibility to flexible OLEDs and hybrid TOLAE, meeting application-specific requirements
- **Increase awareness and understanding**
- Develop a know-how for integration and use
- Develop an established manufacturing route
- **Lower risk of the decision for SMEs to enter the market**

# Open access pilot lines



- **PI-SCALE pilot line (up to 5000m<sup>2</sup> of OLEDs/year.) InSCOPE pilot line (up to 1500km of printed foils/year)**
- PI-SCALE (4 products prototypes) and InSCOPE (4 product prototypes) + SME development cases.
- **Design Handbook** provides support for the design of new products.
- Stabilize up-scaled processes, generate pre-production statistics, prove technology and optimize the production parameters
- Large pool of manufacturing route: **all options are offered by the pilot line so that customers can compare and make choices.**



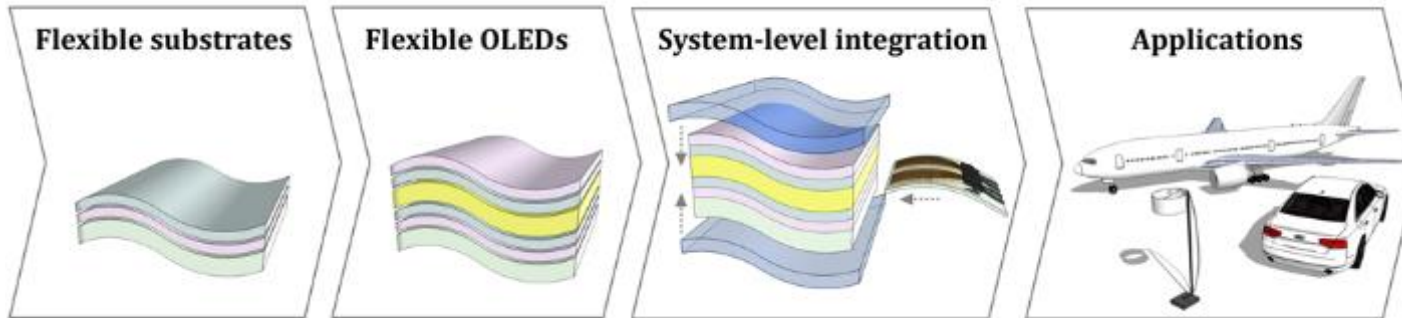
Bringing flexible organic electronics to pilot innovation scale

Start: 01/2016

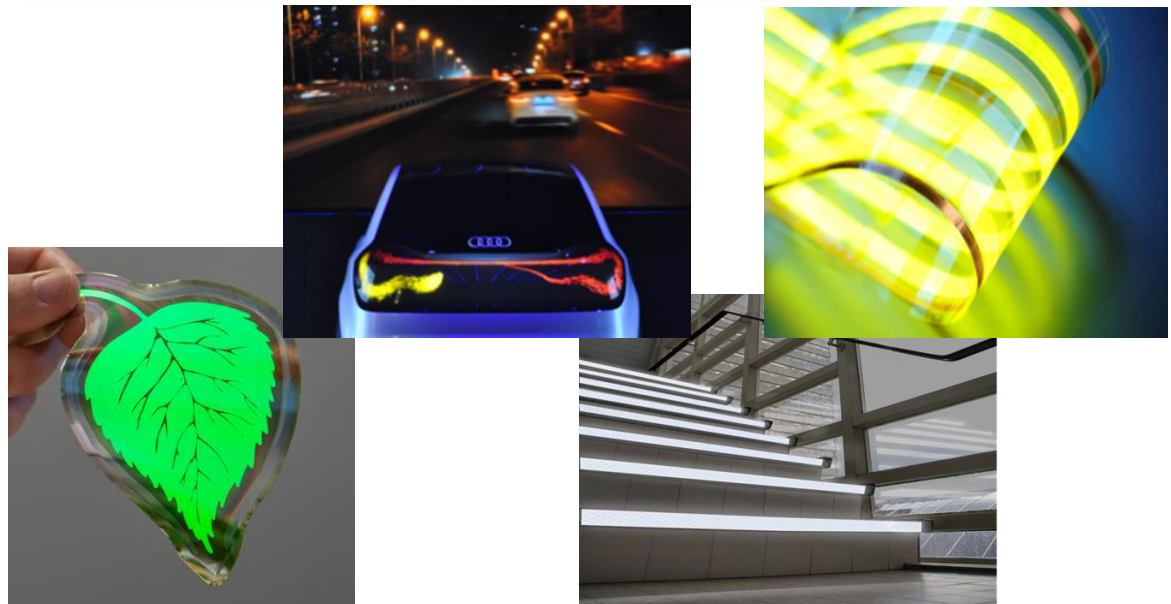
End: 12/2018

Funding: € 14.0 M

Call: H2020-ICT-2015



- Any shape, any size, any color, any design
- High flexibility and small bending radius
- Long strips
- Transparent





Bringing flexible organic electronics to pilot innovation scale

Project Coordinator: Joanne Wilson, PhD.  
([joanne.wilson@tno.nl](mailto:joanne.wilson@tno.nl))

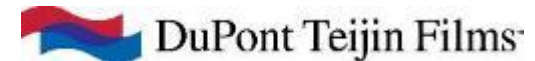
Project Manager: Jana Mesíková  
([mesikova@amires.eu](mailto:mesikova@amires.eu))

## Service offering:

- **Prototyping and pilot production** of customized flexible OLED devices
- **System-level integration** of flexible OLEDs into product prototypes
- Access to **independent specialists** and **know-how** for flexible OLED technology



Brabantse Ontwikkelings Maatschappij



Website: [www.pi-scale.eu](http://www.pi-scale.eu)

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 688093, project PI-SCALE.





# InSCOPE



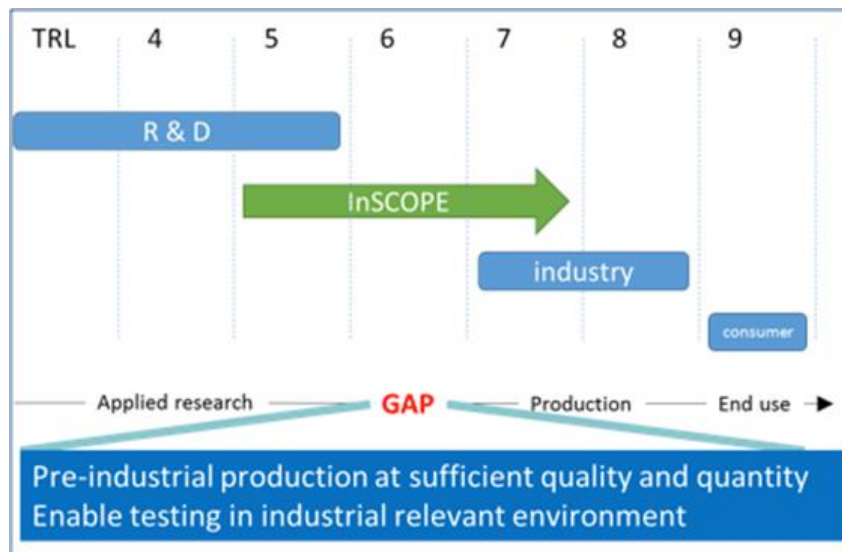
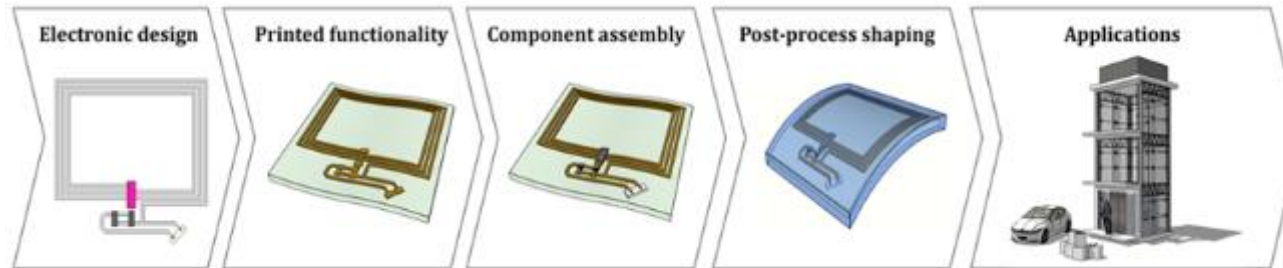
International Smart Collaborative Open-access hybrid Printed Electronics pilot line

Start: 01/2017

End: 12/2019

Funding: € 9.1 M

Call: H2020-ICT-2016





# InSCOPE

International Smart Collaborative Open-access hybrid Printed Electronics pilot line



Project Coordinator: Corne Rentrop  
([corne.rentrop@tno.nl](mailto:corne.rentrop@tno.nl))

Project Manager: Jana Mesíková  
([mesikova@amires.eu](mailto:mesikova@amires.eu))



Website: [www.inscope-project.eu](http://www.inscope-project.eu)

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n°731671, project InSCOPE.



# Sustainable innovation eco-system



In the H2020 **SmartEEs project** the innovation eco-system is an organized EU Network (**Digital Innovation Hub dedicated to OLAE**), composed by research organisations, companies, intermediary organisations, investors and governments.



A SmartEEs 1-Stop-Shop will be established to provide access to competencies (strategic access to the European pilot lines) and business support.

# Business Innovation Coaching



## AMIRES can guide you through the innovation process:

- Exploring market applications/needs for innovation
- Analysing the company's innovation potential
- Defining the company's innovation competencies
- Designing the innovation plan
- Providing support in the strategic partnership building
- Supporting the dissemination (create market needs)
- Providing assistance in the innovation projects' execution

# Thank you for your attention!



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