

RoLA-FLEX

**Roll-2-Roll and Photolithography post-processed
with LASer digital technology for FLEXible
photovoltaics and wearable displays
RoLA-FLEX**



PROJECT OBJECTIVES

RoLA-FLEX is an industry driven project which provides innovative solutions to the challenges associated with the performance and lifetime of Organic and Large Area Electronics (OLAE). The current wider market penetration of OLAE is hindered by scientific and engineering challenges. The RoLA-FLEX project addresses these challenges by focusing on materials, process development and prototype applications. The overall goal of the RoLA-FLEX project is to:

- Develop solution processed organic and inorganic electronic materials
- Develop innovative OLAE manufacturing processes
- Demonstrate two OLAE prototype applications
 - Flexible OPV demonstrator
 - Next-gen smart watch incorporating a flexible OLCD.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement n°862474, project RoLA-FLEX



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TNO innovation
for life

 **FlexEnable**
Truly flexible electronics

SEQENS

AMIRÉS

KEY FACTS:

- 3 years project
- 5.8 M€ project budget

PROJECT IMPACT

The RoLA-FLEX project will make a significant contribution to the technological readiness of OLAE. The applications developed open up new market opportunities answering market needs – independent, discreet and always available source of “green” energy, as well as thinner, lighter and flexible wearables that adapt to the user, rather than the other way around.

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ARMOR
solar power films

 avantama®

POLAR®

- 4.7 M€ requested EU contribution
- 12 project partners
- 10 countries

PROJECT TEAM

The project is bringing together key European players, with a diverse, multi-disciplinary and complementary expertise. This enables it to support European industry with new disruptive knowledge which will be implemented through their products and services and will allow them to expand know-how to other markets as well, such as smart homes and automobiles.

Website:

WWW.ROLA-FLEX.EU