

FORCIOT designs connected sensor systems for Automotive, Logistics and Wearables.

FORCIOT utilizes printed structures on stretchable materials and advanced algorithms for maximum accuracy.

FORCIOT® Sensor

User Interface / Cloud Storage / Analytics
ECU

Cloud Storage / Analytics

**TOUCH PRESSURE FORCE** WEIGHT **BALANCE** MOTION





Premium Look & Feel Comfort / Unnoticeable Integrateability Easy-to-use

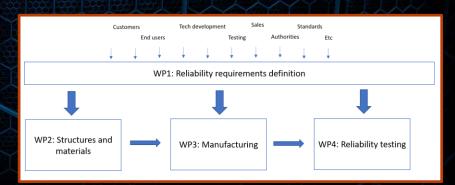
**Environmental Sustainability Energy Efficiency** 

Data Richness
Data Accuracy and Sensitivity
Always on-line

Reliability
Cost Efficiency
Mass Production Capability

## Forciot objectives and focus in Elastronics project were

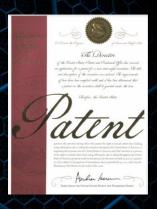
- ✓ to improve the <u>reliability and stretchability</u> of sensor's printed structures
- ✓ to develop methods and build <u>capabilitites for verification</u> of stretchable sensors
- to develop manufacturability and verify <u>roll-to-roll manufacturing</u> capabilities for stretchable sensors
- ✓ to further develop IPR portfolio
- ✓ to enlargen partner network



## **Achievements in Design and Manufacturing**

**FORCIOT®** 

- ✓ Developed a new structure for stretch-to-rigid interface
- ✓ Verified several ink-substrate combinations, specific for different application usage – link to TAU/VTT work.
- ✓ Filed three patent applications for design and assembly





- Developed prototype/pre-production manufacturing capabilities with new assembly methods and equipments.
- ✓ Verified R2R manufacturing process with our manufacturing partners in both printing and converting.

- Developed methods and tools for print quality assurance and laboratory level inspection/analysis.
- Developed generic R&D sensor to act as an test vehicle in technology reference testing and manufacturing development
- ✓ Developed and deployed several new test equipments in Forciot R&D lab - for mechanical, environmental and performance verifications
- ✓ Verified reliability improvements in mechanical and environmental/aging testing of complete sensors



## FORCIOT®

## **More information:**

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