



# i-FLEXIS



## Winner of OE-A Competition



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**OE-A Competition 2017** 

**iFlexis Project**

successfully participated in the  
**OE-A Competition 2017 for Multifunctional Demonstrators**  
 based on Organic and Printed Electronics  
 by submitting the demonstrator

**Integrated X-Ray Sensor System**

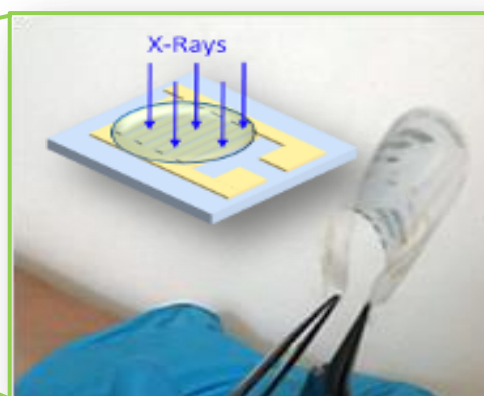
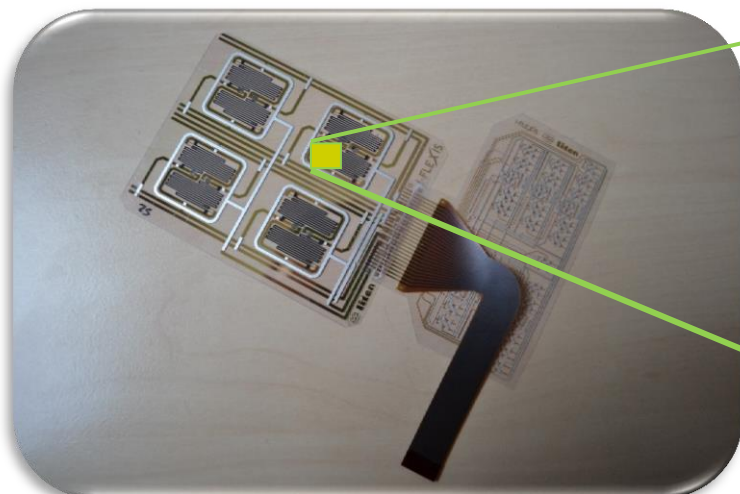
and was awarded

**Best Publicly Funded Project Demonstrator**

On behalf of the jury

		
Dr. Martin Krebs OE-A Competition Chair	Dr. Klaus Hecker OE-A Managing Director	Dr. Jeremy Burroughes OE-A Board Chair

Munich, Germany, March 29, 2017

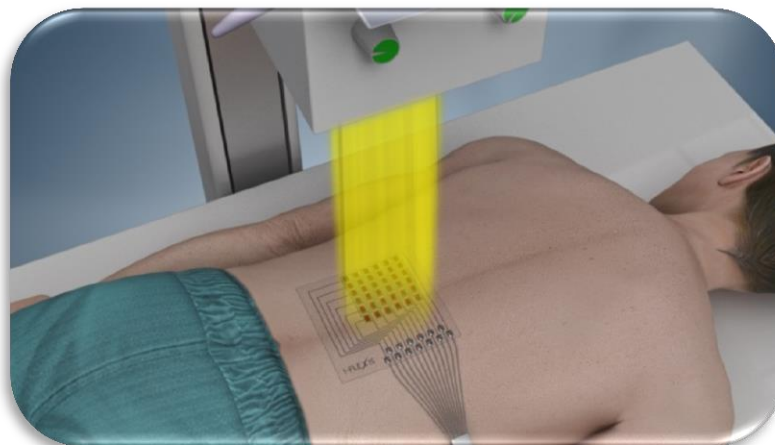
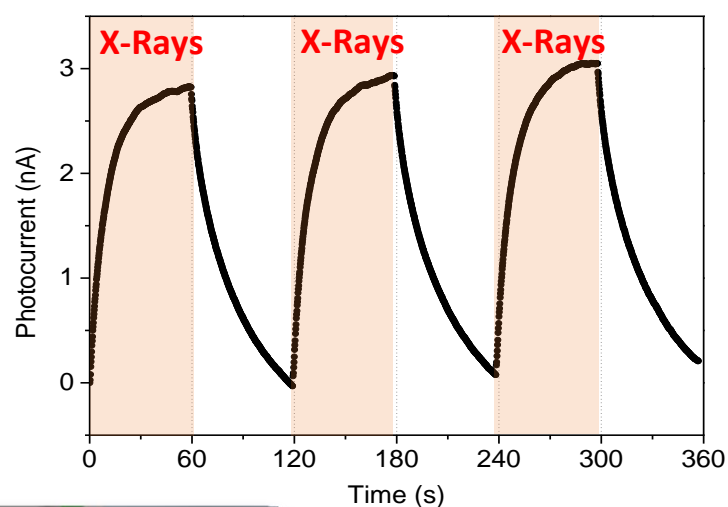
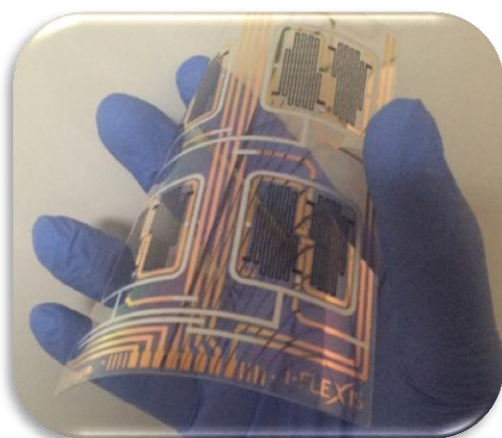
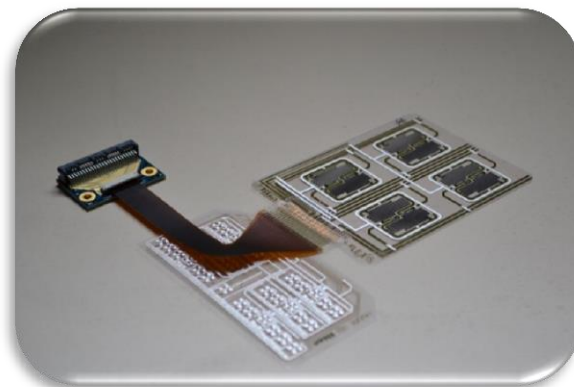




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The proposed demonstrator is an innovative, **fully printed, large-area** and **low-cost** integrated X-ray sensor system.

It offers **real-time**, direct conversion of X-Ray photon into an electrical signal, and **room temperature** operation.



The target of the demonstrator is **the medical field** (personnel and patients). In fact, the system can be employed **as dosimeter for patients during health diagnostic analyses** (e.g. mammography, breast radiography) as well as during **therapies** (e.g. radiotherapy).

The new generation health radiation dosimeter developed in the frame of I-FLEXIS Project can be positioned directly on the area to be examined, allowing the **direct measurement of the X-ray dose received** by the patient at the location where the X-ray beam will enter the skin.

A real time alert signal could prevent excess dose exposures.