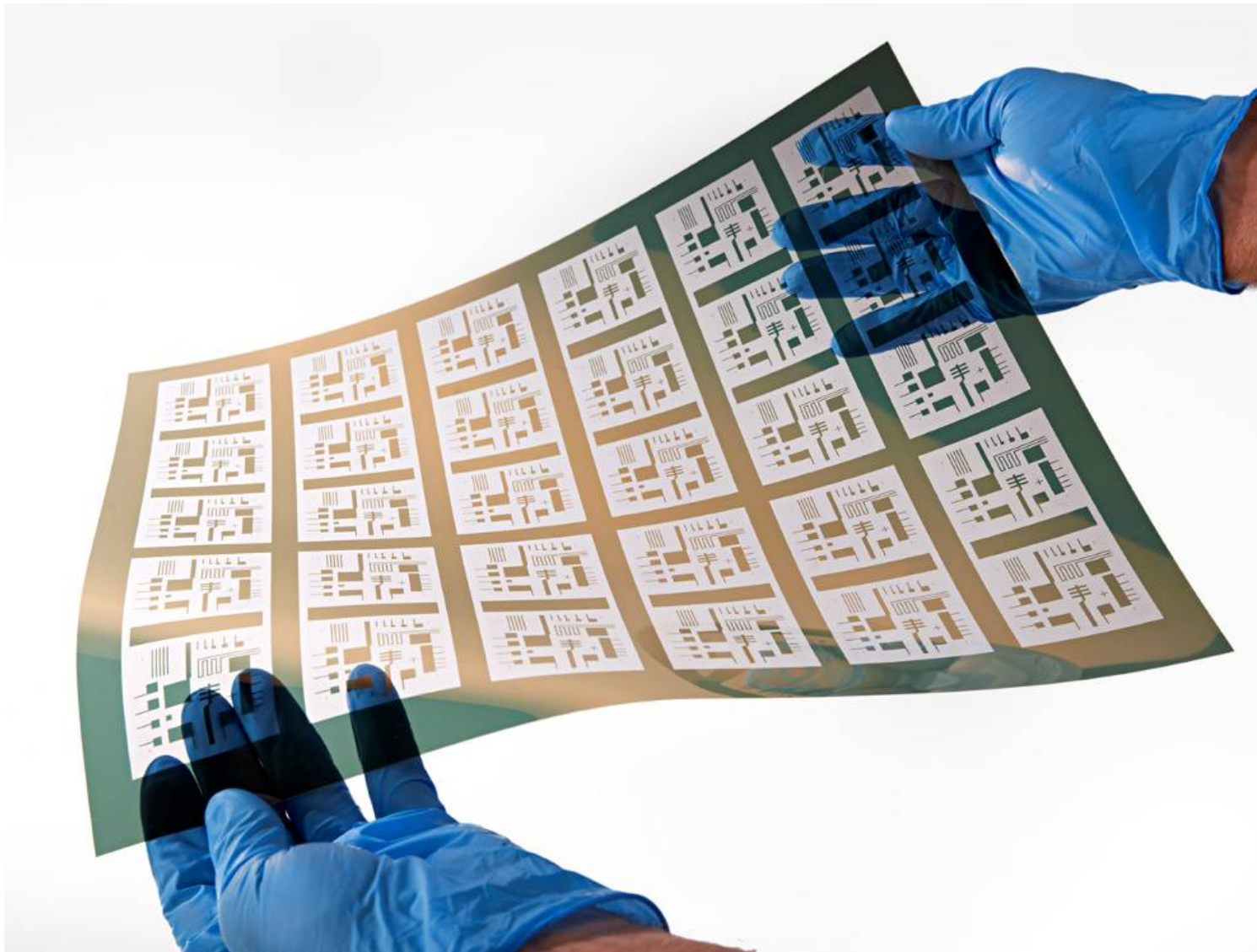
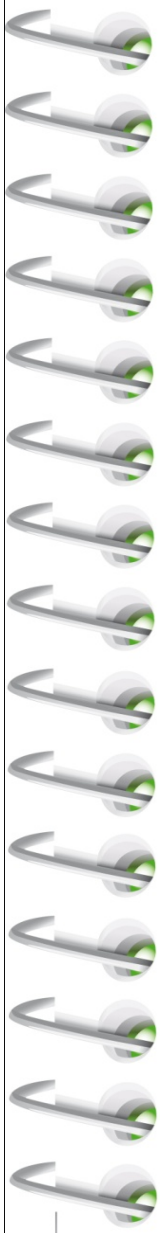


Presentation to PHOTONICS 21, September 2011



www.isorg.fr
laurent.jamet@isorg.fr





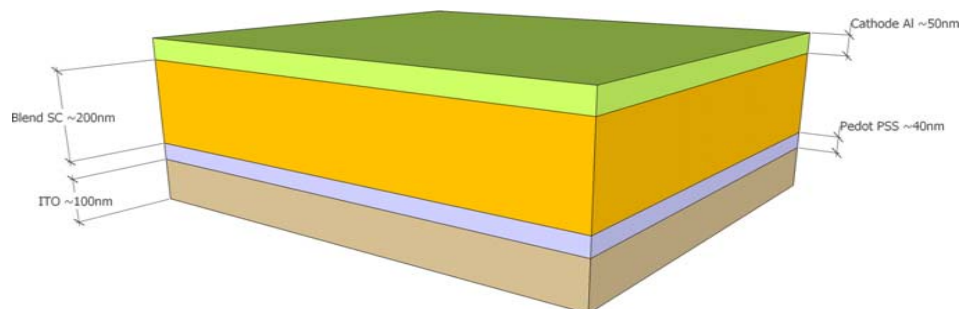
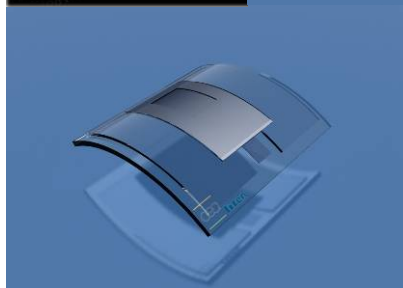
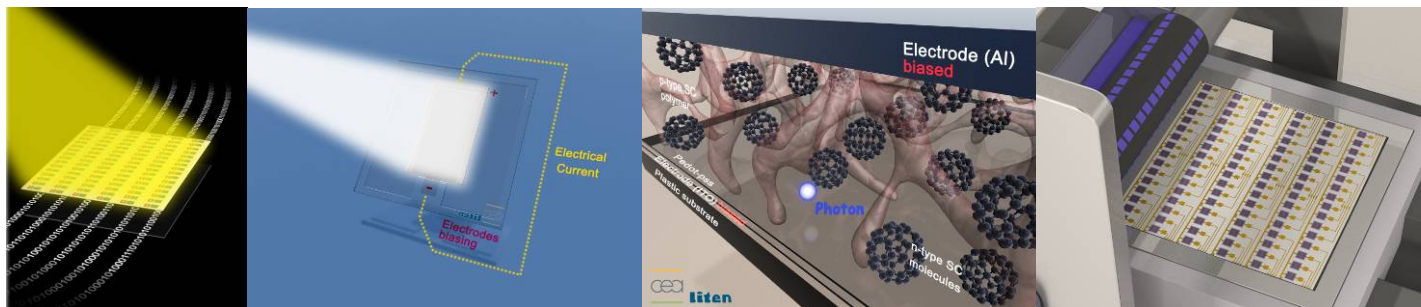
ISORG, the pionner company of organic photonics

- **ISORG : acronym of Image Sensor ORGanic**
- **Based in Grenoble (France)**
- **Created in May 2010**
- **Spin-off of the CEA Grenoble Nanomaterials Laboratory**
- **ISORG transforms plastic and glass into smart surfaces**
- **ISORG is the pionner company for high performance and large area photo detectors and image sensors in printed and organic electronics**
- **Manufacturing pilot line operational mid 2012**



Printed Electronics, Organic Photodetectors A disruptive technology

- Organic photodiode : bulk heterojunction, stacked layers of organic materials
- Converts visible and near-infrared light into information
- Fully printed solution: deposition of liquid materials on glass and plastic substrates



ISORG proprietary and confidential information



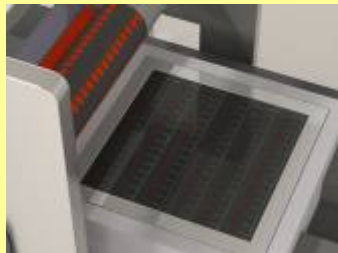
Transforming R&D into products



Materials : Organic Chemistry Industry



R&D partner : CEA-LITEN Lab



Printing Equipment Suppliers



Business Development



Device Design & Application



Industrial production



Consumer Electronics



Industrial



Device Integration

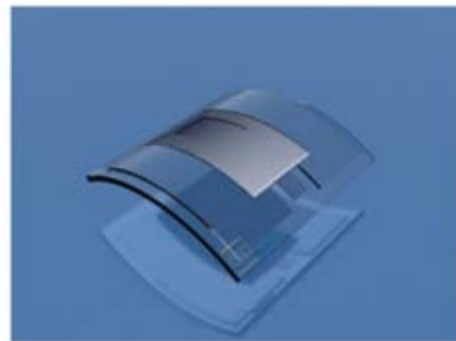
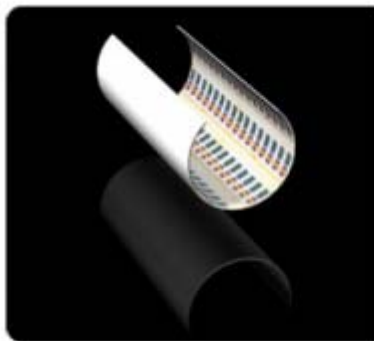
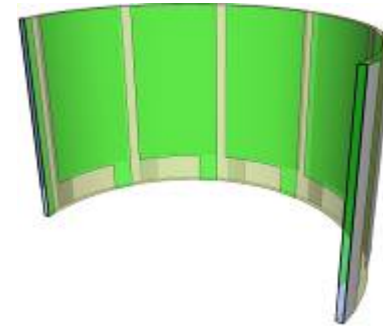


OEMs



A new class of electronics for innovative product design

- Plastic and glass substrates
- Flexible
- Thin
- Transparent
- Robust
- Enabling new and exciting innovative functionalities for a large range of markets not possible with traditional electronics



Photonic sensors for industry

- Sensors for industrial process control and fluid monitoring (water, gas)
- Pharmacy & Biotech industry
- Environnement industry, water management
- Food industry
- Semiconductor & display industry



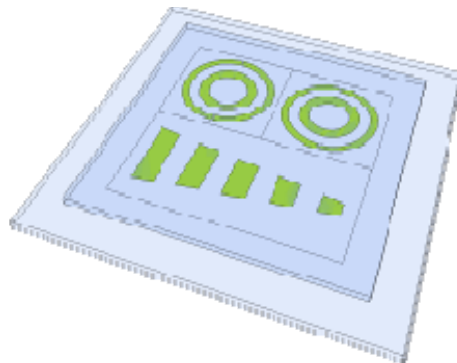
source : istockphoto

Photonic sensors for consumer

- Sensors for motion & presence detection
- Can be combined with other printed electronics technology such as electroluminescence or printed LED
- Interactive Packaging & Merchandising
- Toys and Games
- Home appliances
- Photo Digital Frames



source : istockphoto



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Organic photodetectors and Printed LED for home appliances

A highly design interface for new usages



Sensors for interactive printed media



Innovative marketing tools with Interactive Printed Media & Merchandising

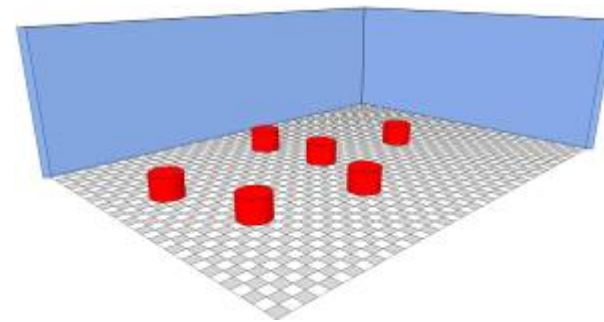


Image sensors for shapes & object recognition

- Sensors for shape, object and character recognition
- Static or low speed image acquisition
- Logistics
- Energy industry
- Games



source : istockphoto



Photonic sensors for displays

- Sensors for ambient light monitoring
- Energy saving, visual comfort (for portable electronics for outdoor usages)
- TV
- E-tablet
- Smart phones
- Industrial displays
- GPS
- Camcorders

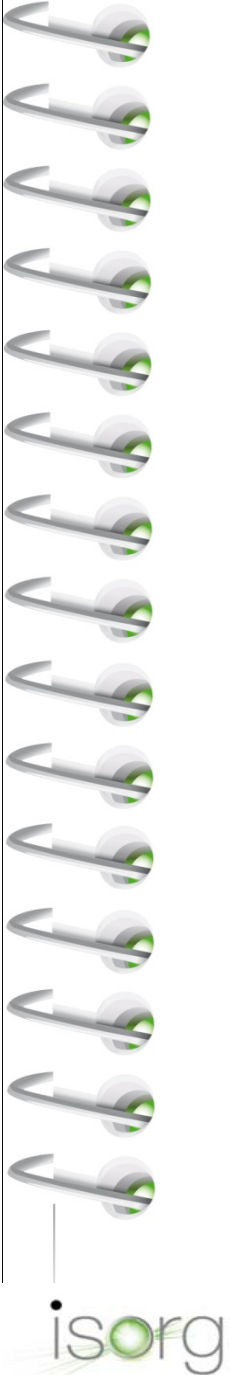
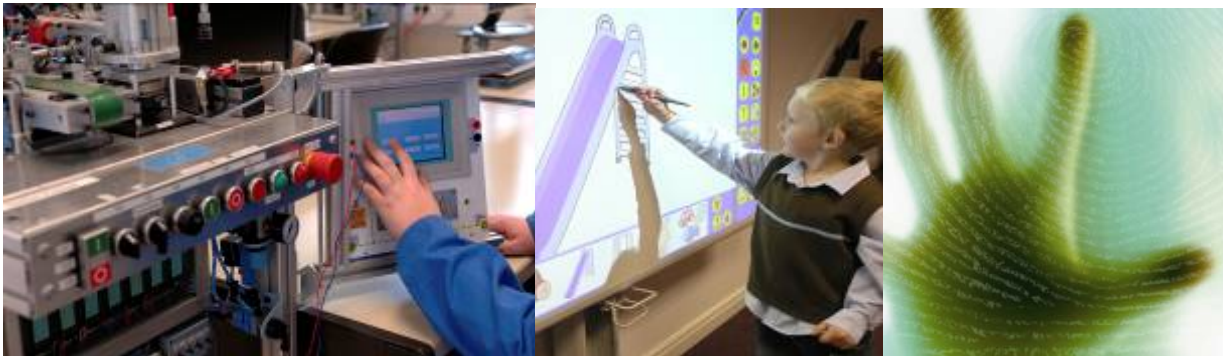


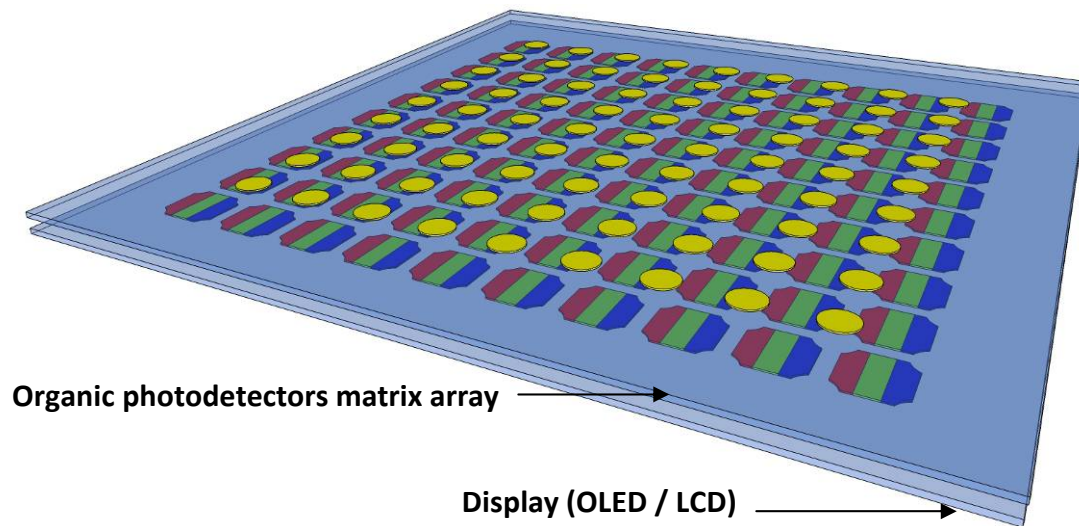
Image sensors for displays

- Sensors for interactive displays and surfaces (3D touchless user interface)
- Can be combined with tactile user interface or as alternative
- Displays for industry and hospitals
- Interactive surfaces (game, education)



Sensors for TV, e-tablet and game consoles : A revolutionary user interface A real 3D user experience, the next big wave after tactile

- 3D multimedia contactless user interface technology
- Navigate 3D with your personal device !
- Magic Pad 3D interactive multimedia tablet product concept designed by ISORG



Magic Pad by ISORG



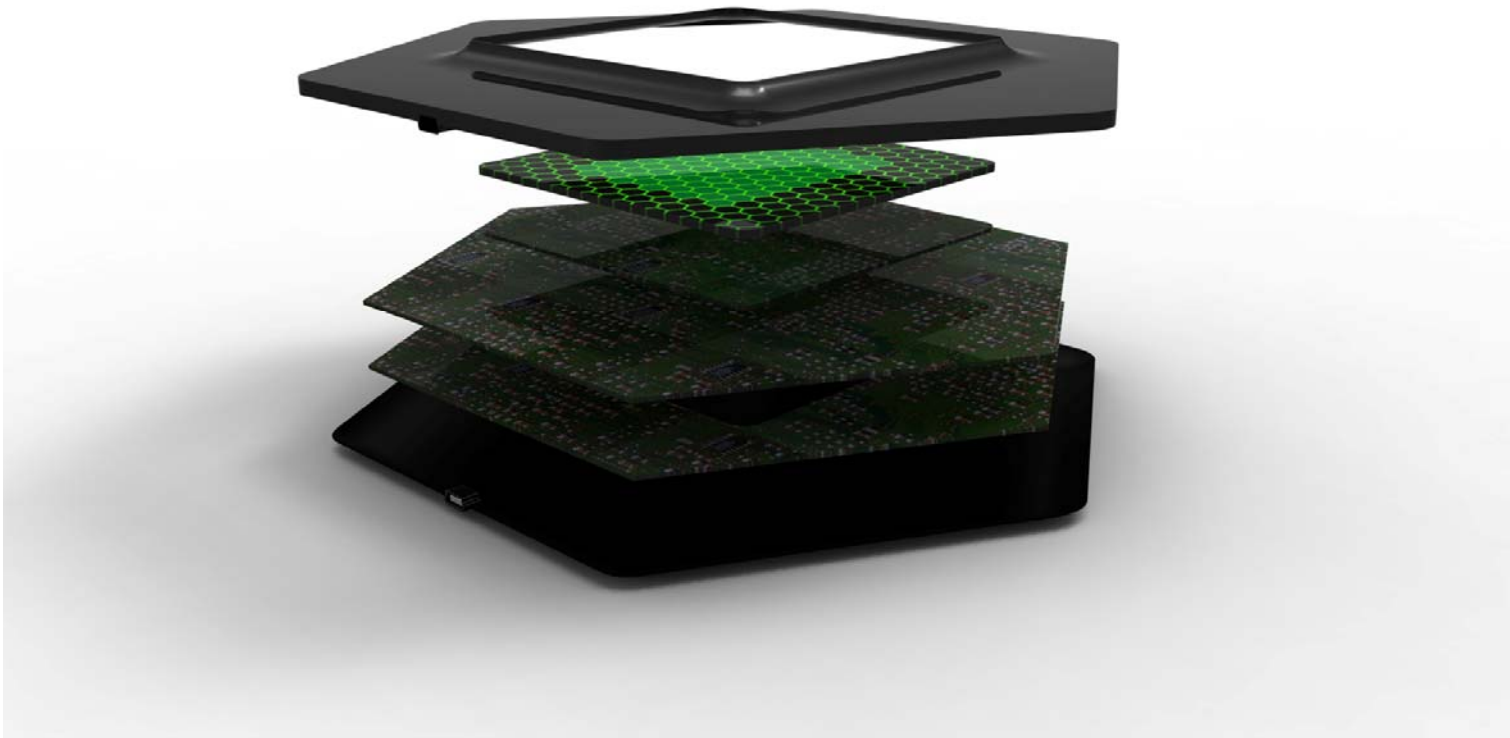
Magic Pad demonstrator

- **Fonctional demonstrator of functionalities offered by organic photodetectors for industrial and consumer markets**
- **Application and technology development platform**



Magic Pad, mix of technology, design & usages

- Collaboration with INNOSENS DESIGN LAB company



Magic Pad, Feel & Touch the technology

- International conferences
- La Villette high tech museum 200 000 visitors
- International press
- OE-A brochure
- Internal shows suppliers & customers

label
*observeurdudesign



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Functionality demonstrations for industry and consumer markets



Demo tool from ISORG

