Smart Engineering

But how? On textile?!!

I by Cetemmsa

FROM IDEAS

CETEMMSA
TECHNOLOGICAL CENTRE

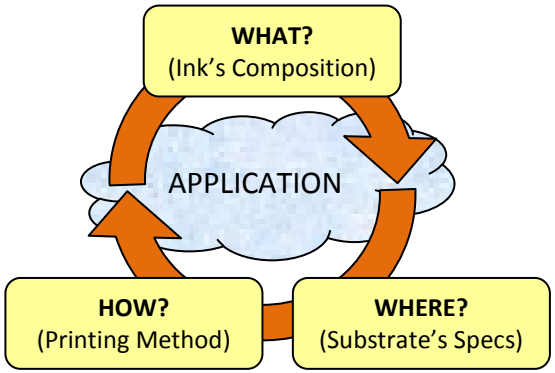
TECNIO
Be tech. Be competitive

by Cetemmsa

Printed Electronics Deposition

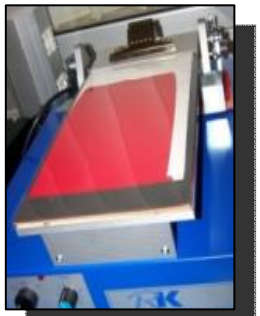
Depending the customer's application, we select the Deposition Technology that ensures the best results not only in the laboratory… but in the 'Production Shop' too (***Up-Scaling***).

Ink-Jet Printing



Roll-to-Roll

Thermal Evaporation PVD



Bar -Coating

Spin-Coating

Screen Printing

Take…

Textiles

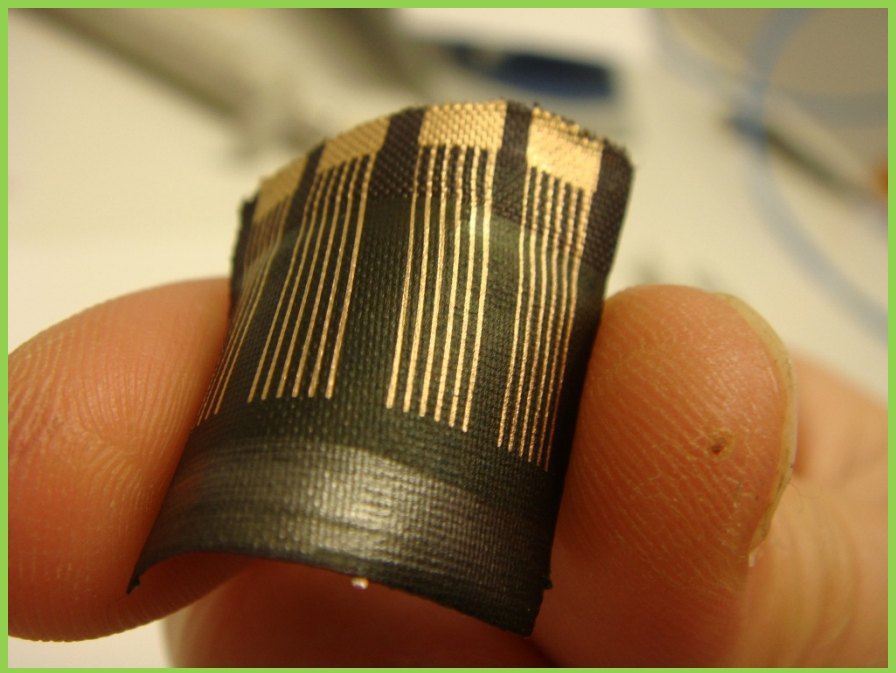
Organics

Metals

… and take…

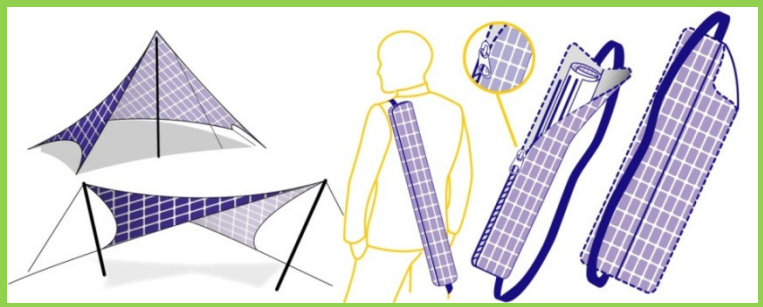
Sophisticated Equipment

… and you will get:

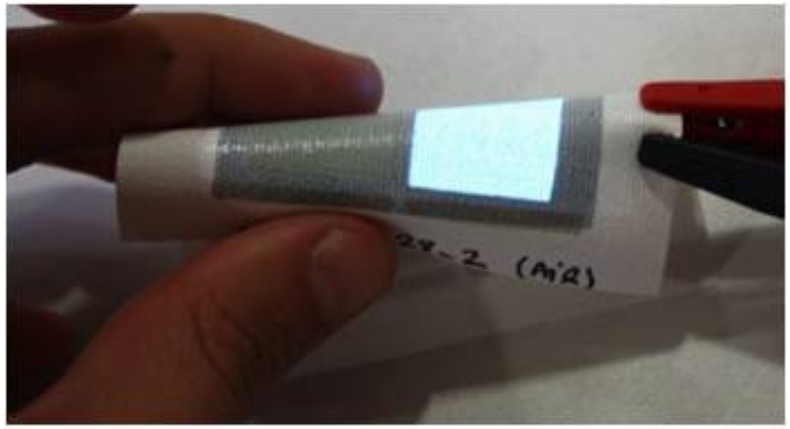


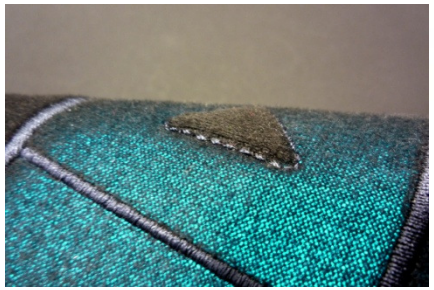
Flexible Textile Solar Cells

… and textile PV products:



Applications





100% treated poliester 110g/m2 and 230g/m2

Smart Engineering

Only Hi-Tech applications?

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Musical T-Shirt / Smart Textile Play

Sofás calefactables by Kibuc

Con tecnología de tela inteligente

✓CONSUMO ✓CONFORT ✓SEGURIDAD ✓CALIDAD

Máxima seguridad

No existe riesgo de electrocución ya que trabaja a baja tensión. Clavando un objeto metálico sólo se notaría un ligero «cosquilleo» y el sistema se quedaría funcionando.

Tejido inteligente de bajo consumo

Cuando el usuario se levanta, el sistema reduce automáticamente el consumo y la temperatura.

Sin riesgo de quemaduras

No hay riesgo de quemaduras ya que trabaja a temperaturas máximas de 38-39 ºC. Sistema diseñado para proporcionar confort.

Apagado automático

El sistema lleva un temporizador integrado en la electrónica que hace que se desconecte después de 20 minutos. No hay riesgo, ni tan sólo si te quedas dormido.

Consumo reducido

Consumo reducido a lo mínimo expresión. El gasto energético de un asiento en máxima potencia es de aproximadamente 50W, menos que una bombilla clásica.

Confort higrotérmico

El aumento del confort higrotérmico gracias a la regulación de la temperatura del propio sofá (calefacción localizada), permite reducir el uso de la calefacción general, reduciendo así el consumo global del hogar.

Confort personalizado

Confort personalizado vía mando a distancia. Control independiente de la temperatura. Se puede conectar, desconectar y seleccionar entre dos niveles de temperatura.

Test de calidad

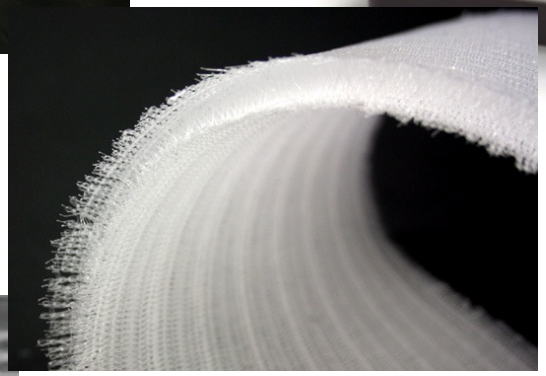
Se han realizado tests de calidad a todo tipo de tejidos, polipiel y piel, simulando un uso intensivo continuado de 4 años.

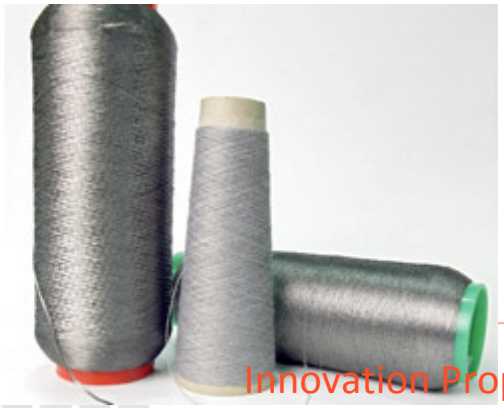
Una nueva dimensión del confort ya está a tu alcance. Kibuc ha desarrollado el sofá con la tecnología calefactable más avanzada: la tela calefactable inteligente. Descubre una manera de disfrutar aún más de tu casa con el confort higrotérmico que sólo encontrarás en nuestras tiendas.

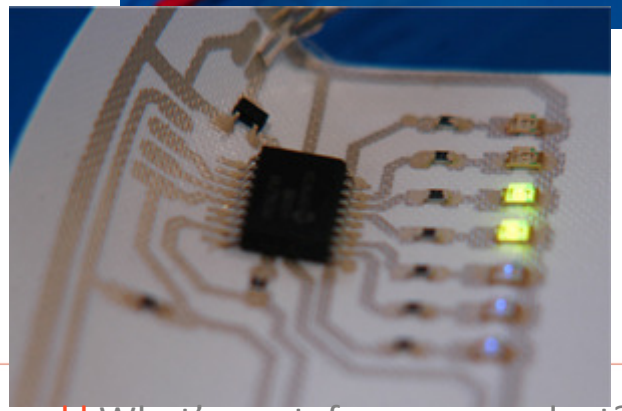
KIBUC
muebles y complementos
Por fin en casa

*Tela inteligente. Modelo de utilidad registrado en la Oficina Española de Patentes y Marcas. Desarrollado en colaboración con CETEMMSA Centro Tecnológico.

I by Cetemmsa Tools and solutions







I by Cetemmsa Clients

GROUP

Connect-EU

Photonics and electronic systems

Flexible Organic & Large Area Electronics & Photonics in Catalonia

Empresas y entidades colaboradoras (faltan logos)

For further in formation please contact:
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With the support of:
ACC1Ó Competitiveness for Catalonia
Agència de Gestió d'Ajuts Universitaris i de Recerca
Generalitat de Catalunya Government of Catalonia

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Generalitat de Catalunya Government of Catalonia

GRUP
Connect-EU
Fotònica i sistemes electrònics

FOLAEP

- The FOLAEP (Flexible Organic and Large Area Electronics and Photonics) working group is part of the **ACC1Ó Connect-Eu network.** Connect-EU Groups were created to serve R&D+i interests of leading technological/scientific sectors in Catalonia and to help positioning them in the EU.
- FOLAEP systems will enable devices to be generated by printing conductors, semiconductors, dielectrics and active materials, among other things, on flexible surfaces such as paper, plastic and textiles. The result will be flexible electronic systems (organic or inorganic) for low-cost, mass production of devices such as completely flexible antennas, OLEDs, batteries and multimedia screens.

PARTNERS

- CETEMMSA • http://www.cetemmsa.com/
- CAIAC-UAB • http://centresderecerca.uab.cat/caiac/es
- PEC4 • http://www.pec4.net/
- ICFO • http://www.icfo.es/
- SECPHO • http://www.secpho.org/
- ICIQ • http://www.iciq.es/
- CIMITEC • http://cimitec.uab.es/
- SECARTYS/SOLARTYS • http://www.secartys.org/
- IMB-CNM (CSIC) • http://www.imb-cnm.csic.es/
- FICOSA • http://www.ficosa.com/
- ICMAB • http://www.icmab.es/
- CIN2 • http://www.cin2.es

STRUCTURE

Working Group
Connect-EU Photonics and Electronic Systems
Coordinated by CETEMSA

	Infrastructure	Devices, design, methods, tools	Systems & Applications	Market
Printed Electronics	ICMAB CNM CETEMSA	CAIAC CNM CIMITEC	CAIAC CNM CETEMSA CETEMSA	SECARTYS
Photonics Lighting	ICMAB CETEMSA	ICFO	ICFO CETEMSA	SECPHO FICOSA
Photonics Photovoltaics	ICMAB ICIQ CIN2 CETEMSA	ICIQ ICFO	ICIQ ICFO	SOLARTYS

AREAS of ACTION

- Networking with the public administrations (ACC1Ó, CDTI, EC officers, etc.) and with key stakeholders in the fields of photonics and electronic systems in Europe.
- Mapping of technologies and technological benchmarking with other regions in Europe in order to analyse the strengths and weaknesses, threats and opportunities (SWOT) of the sector in Catalonia.
- Identification of potential partners and competitors.

STRATEGY

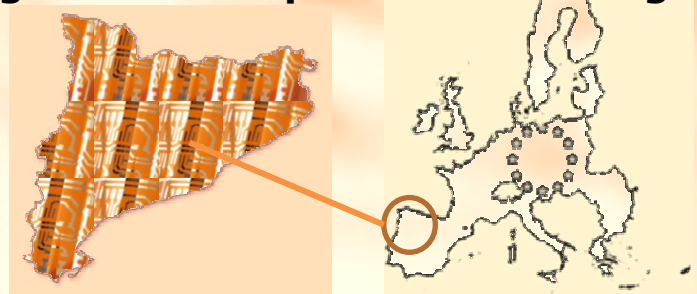
- To set up a new technological field in Europe, stemming from the mature of the silicon industry, and based on new materials and processes.
- To open new lines of business and position the Catalonian industry as a leader in the field of Flexible Organic and Large Area Electronics and Photonics

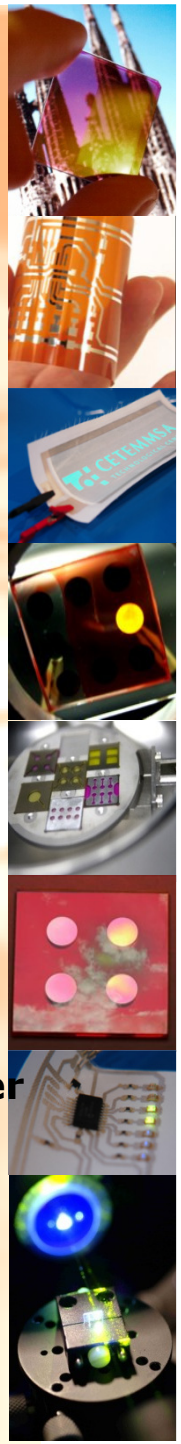
OBJECTIVES

- To create a group of stakeholders in the field of Flexible Organic and Large Area Electronics and Photonics that takes part in EU's R&D policies' debate.
- To draw up an agenda that will steer the sector and set up the first Flexible Organic and Large Area Electronics and Photonics cluster in Catalonia made up of research and business partners from this knowledge field in order to develop the science and technology that will benefit the Catalonian economy.

FOLAEP in CATALONIA

To get better map of EU from designer





Smart Technological Centre

Contact mcruz@cetemmsa.com