

Physics Department

Invisible Network

CEFITEC

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**Key fields: medical
instrumentation,
biosignal processing,
machine learning**

Objectives

The main goal of IN Project is to develop new interactive products based on innovative technology by using invisible and ubiquitous computing. This type of technology allows the creation of new interactive functions which will bring a richer experience to the consumer on its daily objects. The Project will study the possible introduction of Interactive capacities in very different surfaces like glass packing, furniture, outdoors, building facades, cork and wood flooring. The IN Project assembled and structured a multifaceted team in essential areas such as chemistry, nanotechnology, printed electronics and embedded systems.

Methodology

Invisible Network Project crosses the basic and applied Research and Development, thus, has a Mix Structure of 7 subprojects:

- 3 are dedicated to the creation of technological components to use in several subcontracts and industries; "Invisible inks and augment reality", "Functional Coatings" and "Embedded Systems".
- 3 are dedicated to the industrialization of those technologies: "Cork", "Laminate" and "Concrete".
- 1 cross sectional dedicated to the coordination of the project.

Expected Results

Reinvention of traditional products through deployment new technological capabilities:

Incorporation of interactive technologies on traditional products: Cork, Laminates and Concrete

Motivate the approach of Internet of Thing, with the propose of making the interaction between the consumer and daily objects much more richer

Introduction of Invisible and Ubiquitous computation that ultimately will allow users to discover new experiences

