

LIP2 Laboratory, FST, Tunisia.

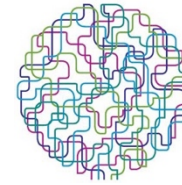
Kamel SMIRI

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This presentation is for

- Workshop 1** Big Data
- Workshop 3** Photonics and Micro-and-Nanoelectronics
- Workshop 2** Robotics
- Workshop 4** internet of Things

LIP2 Laboratory, Tunisia.

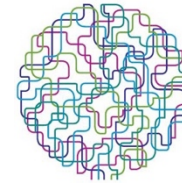


- **LIP2 laboratory** is a public research laboratory at University of Tunis El Manar, Faculty of Sciences of Tunis, Tunisia. It is founded since 2002 (www.utm.rnu.tn). LIP2-Lab is at the origin a team of “**System on Chip**” at “Computer, Electronic and Smart engineering system” Laboratory, 2001-2005.
- LIP2-Lab promotes interdisciplinary activities based on design of **modern applications** developed in basic advanced technologies.
- The research topics of LIP2-Lab design **Real-Time Systems**, Hardware-Software Co-design, **System on Chip**, High Level Design, FPGA, Reconfigurable System, Prototyping,...

Research interest in LIP2 Laboratory



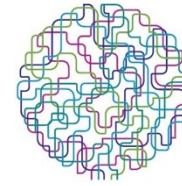
- We work on the proposal of embedded systems (**smart systems**) in the **smart city**. we intend establishing partners to validate our project on the development of smarts and configurable systems.
- we inetrressés in LIP2 by research themes:
 - **High-Level Design** for Real Time Embedded System
 - Co-Design of **Embedded Systems**
 - Performance Estimation,
 - **Dynamics migration Tasks** for Multi processors Systems.



Idea title: **Design of Reconfigurable and Personalized Smart Systems**

Related Objective: - **Advanced Computing**
- **Customized and low power computing**

Idea title: **Design of Reconfigurable and Personalized Smart Systems**



Motivation:

Design of embedded general use, which can be customized and reconfigured to a specific treatment systems.

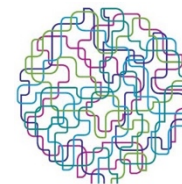
Objectives:

New design flow for Smart systems

The main results: Smart systems guaranteeing :

- 1) Fault tolerance,
- 2) Reduction in energy consumption,
- 3) Dynamic reconfiguration,
- 4) Data security exchange.

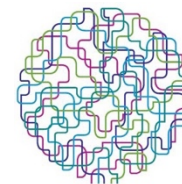
Partners Profile



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No	Partner Name	Type	Country	Role in the Project
01	LIP2-Lab	RTD	Tunisia	Research and Development
02	TIMA -Lab	RTD	France	Expert in embedded systems (codesign)
03	STMicroelectronics	IND	Tunisia- Italia	Manufacture of embedded systems

Required partners

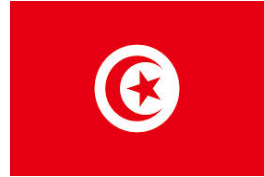


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No	Expertise	Type	Country	Role in the project
01	Smart City needs	RTD	Turkey	Research and Development (Smart City)
02	Security of exchanges data	SME	Turkey	Development (Smart City and Security)
03	Smart systems	IND	Turkey	Manufacture of embedded systems



Contact Info:



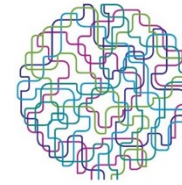
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Recommendations



- The presentation **has to** last up to **4 minutes (maximum)**
- Do not overload your slides
- Provide weblinks to additional material
- Slides should be in English
- Do not use videos etc. – they might be not supported by the Infoday IT system
- Send your presentation in PDF or PPTX format to: ICT@turkeyinH2020.eu
before November 21, 2016.