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UPS project

Managed by Marie-Pierre Gleizes (SMAC)

Presented by *Georges Da Costa* (SEPIA)

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- 7 labs
  - ECOLAB, CIRIMAT, IRIT, LAAS, LAPLACE, LMDC, PHASE
- Launched by Bertrand Montubert with the goals:
  - Improve quality of life
  - Reduce ecological impact
  - Reduce cost (electricity, heat, water)
- Managed by Marie-Pierre Gleizes
  - Followed by UPS patrimony/numerical vice president
  - Globally managed using very **Agile methods** !

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- Second round
  - Provide a show-room at large scale for UPS labs
  - First show room in U4 along with UPS fablab
  - Provide an experimental platform for local SME
  - Discussion with UPS SGE
- Structuring action on the campus
- Dissemination actions
  - Digital Place, ...
  - PAUL SAB magazine

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## Current projects

- Platform PAULSAB
  - Lead by IRIT
  - Goal : Co-simulation of real/virtual systems using simulators from different UPS labs
- Energy-efficient campus
  - Lead by Georges Zissis
  - Electricity/Heat/Energy uses/Captors/Interaction

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## Current projects

- Multi-disciplinarity
  - Lead by IRIT
  - Do not forget users !
- Quality of service inside and outside buildings
- Management of fluids
  
- Several of them are currently looking for fundings

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- ANR : PAULSAB
- CPER : demonstration platform
- ADEME : DC bus for light system
- PRES : Energy-efficient and sustainable Campus
- PRES transversality : Multi-disciplinary
- Several PRES/Region Phds

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Already funded

- 4 phds
  - DC bus for light systems
  - Detection of activity using cameras
  - Co-simulation
  - Bio-sourced materials for energy-efficiency and confort

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## Current projects

- 8 Master 2 students
  - Data collection on the campus
  - Visualisation of data from sensor networks
  - Biosourced materials
  - Thermal characterization of a building
  - Ultra-performant concrete for common infrastructures
  - Smart cameras
  - Access control for buildings using NFC
  - Data-base structuration for data from a smart campus
- Come to the presentation on Friday at 2PM

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## Sepia & neOCampus

- 2 possible PhDs in the team
  - Smart management of desktops for energy efficiency and improved usage (asked at PRES/Region level)
  - Smart grid for datacenter (might be funded by UPS)
- Links with the PRES project on energy
- Links with the Fablab
- Links with the « Smart house » at Blagnac
- Links with Mobile/Energy/Distributed systems actions in the team