

### IoT na Inovação e Formação de Engenheiros: O Papel da Academia

Prof. Dr. José Roberto de Almeida Amazonas - LCS/PTC/EPUSP





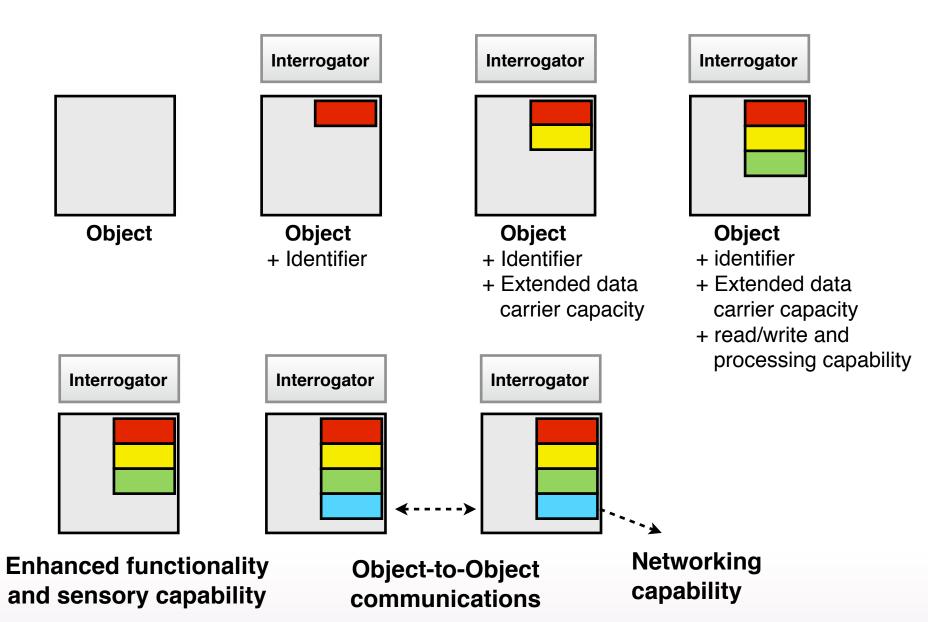
✓ In the context of the Internet of Things, a "thing" may be defined as a real/physical, digital/virtual entity that exists, move in time and space, and is able to be identified.



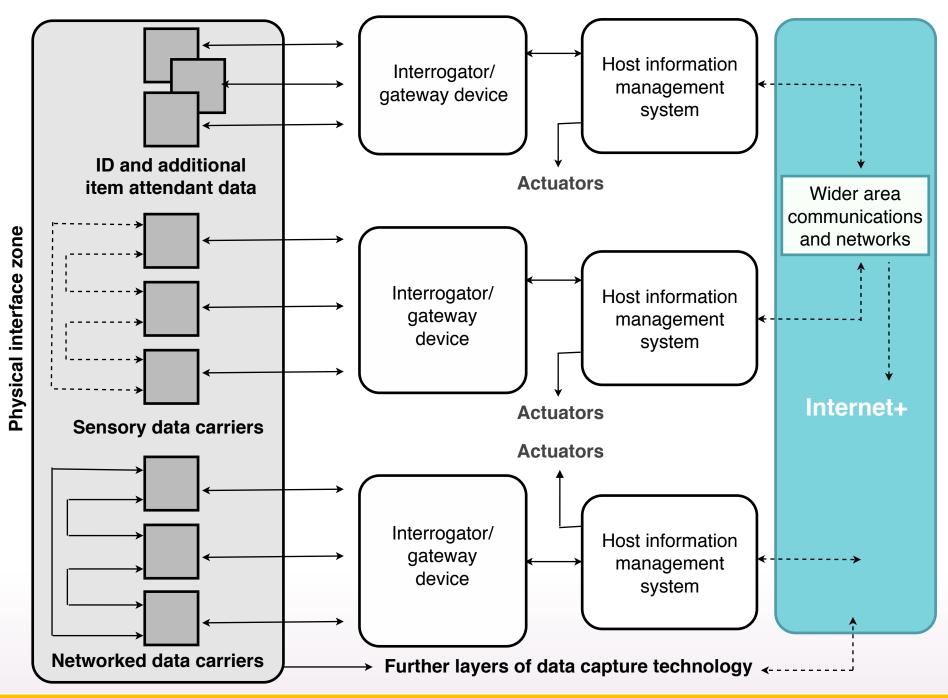
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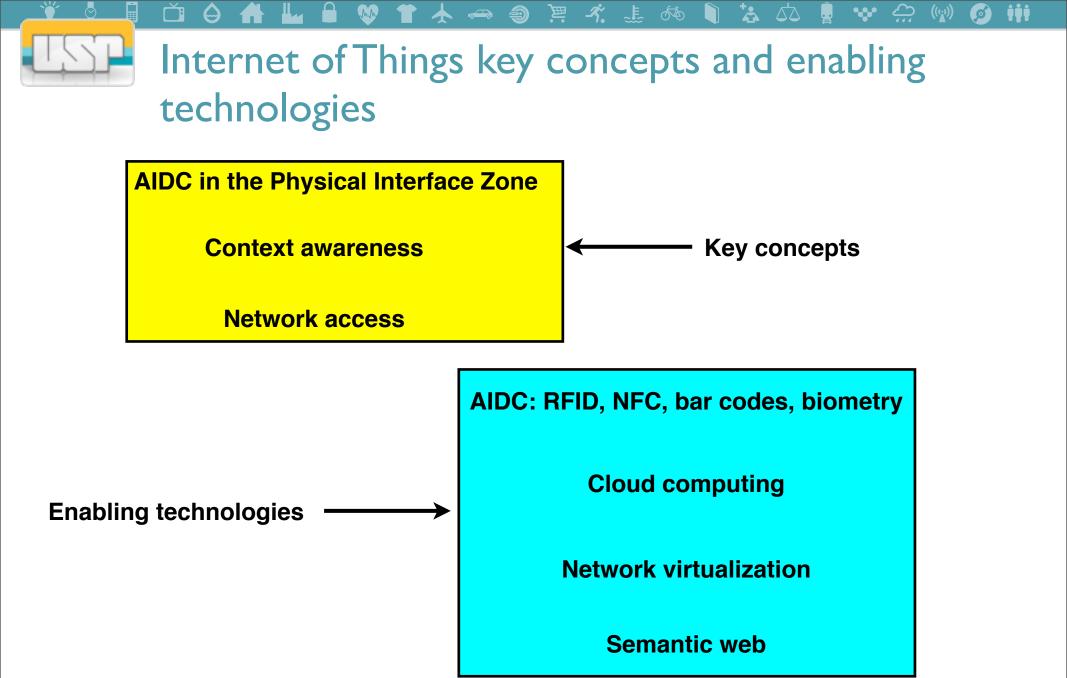
The identification can be made by means of assigning identification numbers, names or localization addresses.



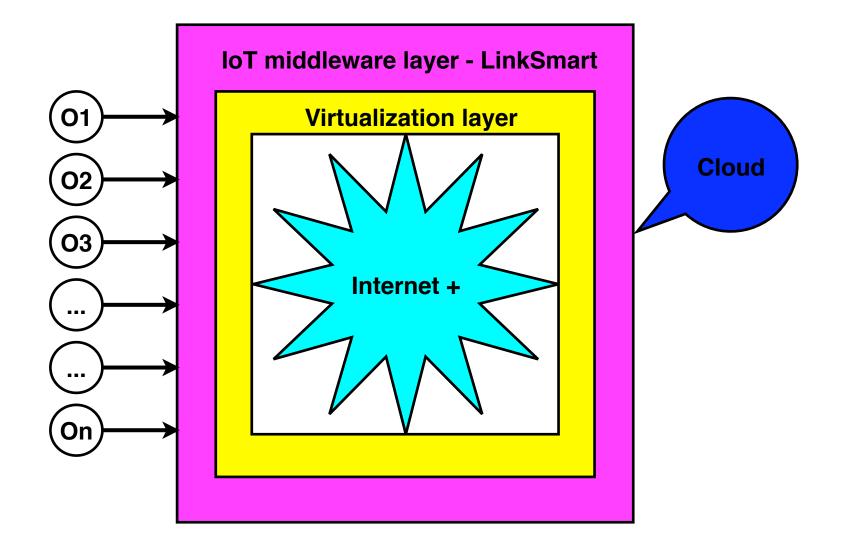




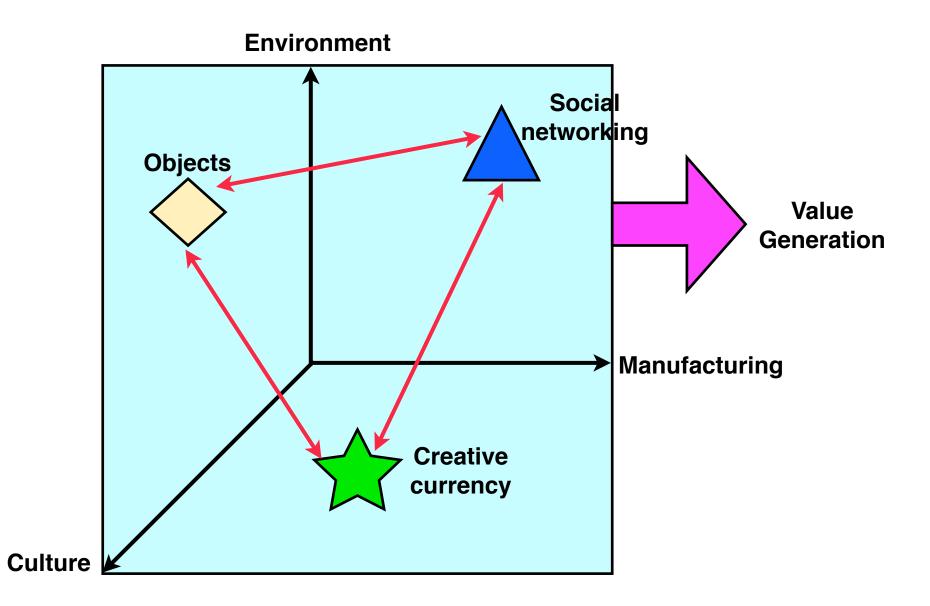




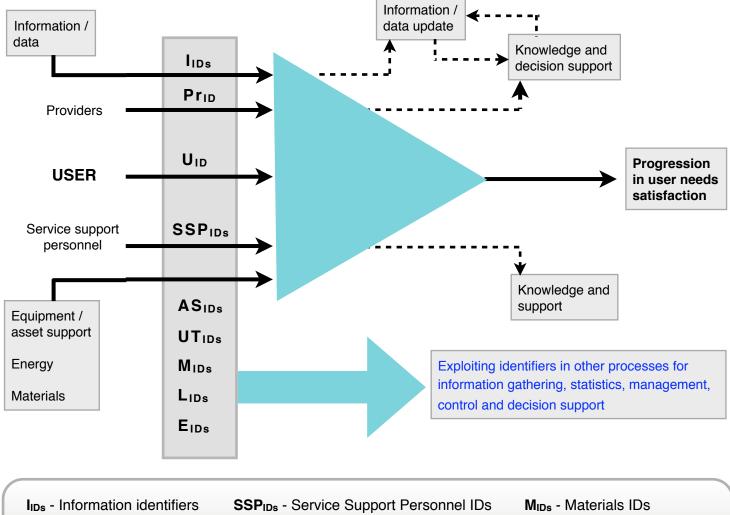










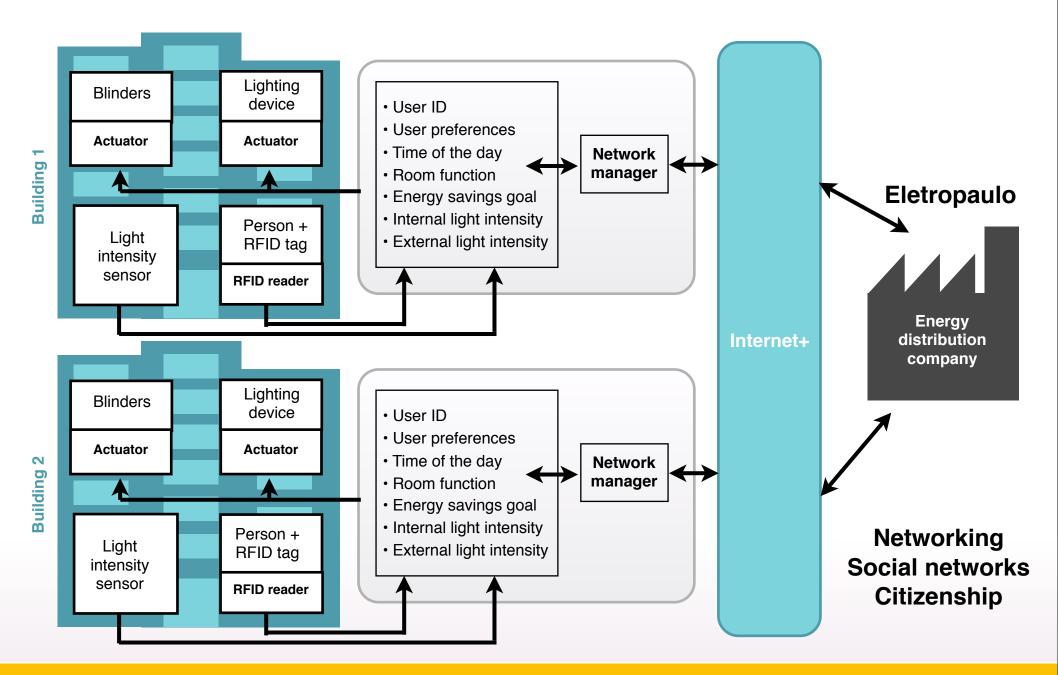


**Pr**<sub>ID</sub> - Providers IDs **U**<sub>ID</sub> - User IDs SSP<sub>IDs</sub> - Service Support AS<sub>IDs</sub> - Asset IDs UT<sub>IDs</sub> - Utility IDs M<sub>IDs</sub> - Materials IDs L<sub>IDs</sub> - Location IDs E<sub>IDs</sub> - Event IDs (time stamps)

### Energy Efficiency in the Internet of Things: Ubiquitous Energy Awareness (manufacturing)

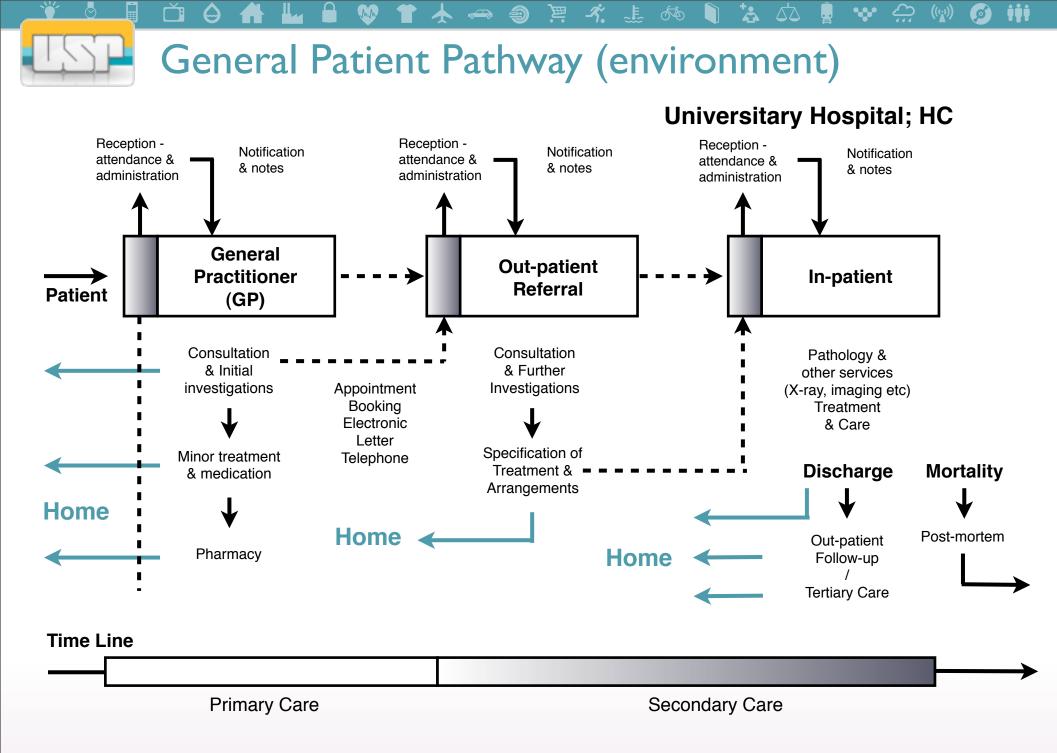
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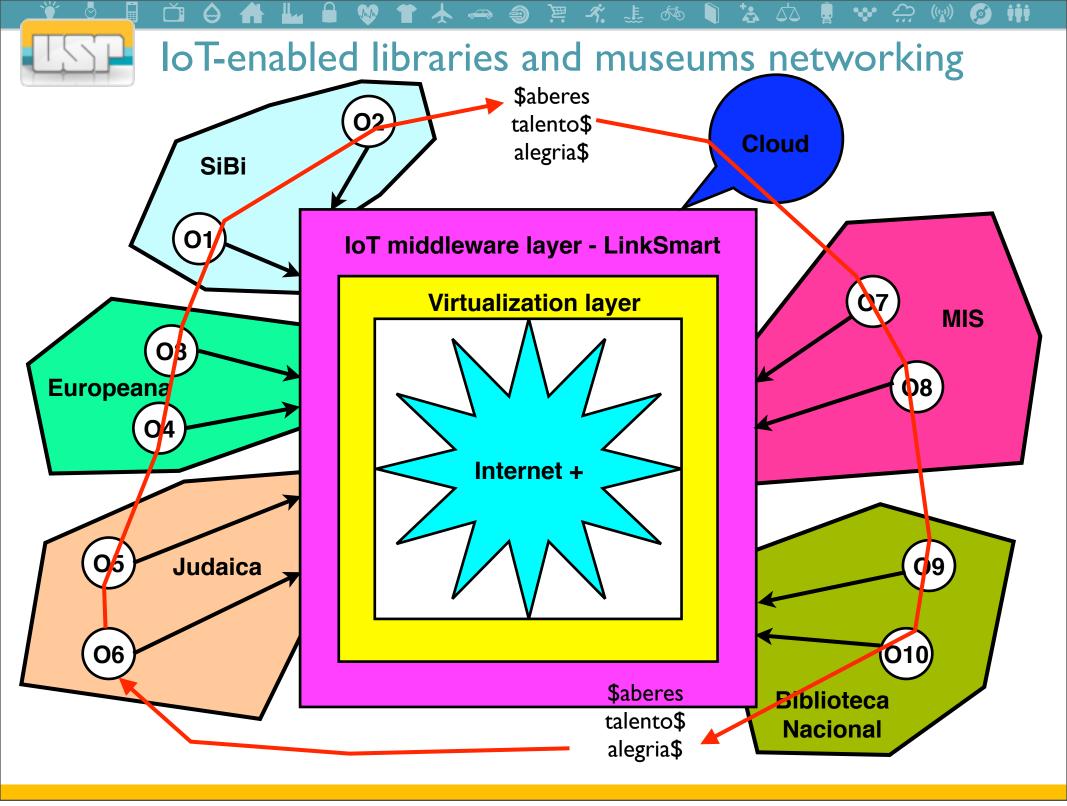


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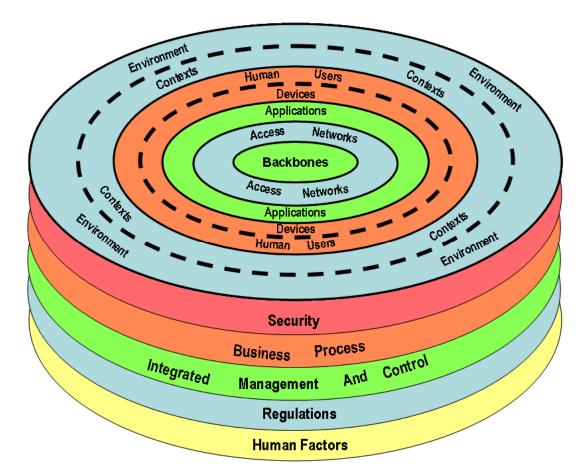
Source: Prof. A. Furness





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## Building blocks of Research for the Internet-Connected objectS BRICS



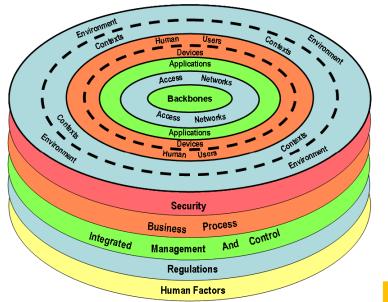
Harmonized and Integrated Architectural Framework leading towards realistic Roadmaps Ø

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## BRICS

# Formação do Engenheiro



### Realidade a ser considerada: Interdisciplinar Multidimensional

## Resposta da Academia

iRIoT: Interdisciplinary Research for the Internet of Things



## **Resposta da Academia**

## iRIoT: Interdisciplinary Research for the Internet of Things

Faculdade de Direito da USP
Escola de Comunicações e Artes da USP
Escola Politécnica da USP

## Parcerias: www.iotbrasil.com.br www.smart-iot.com.br www.iotzine.com.br

### **SMART INTERNET OF THINGS**

Manchester United FC Conference Centre, Old Trafford, UK September 3 - 6 2012

## **THE INTERNET OF THINGS** - Changing the way we live!

Over the coming years, the Internet of Things (IoT) will offer significant opportunities within a range of global developments.It will change the way we live.

SMART-IoT will provide a high-profile, leading edge forum for researchers, PhD students, engineers and practitioners to present stateof-the-art advances and innovations in theoretical foundations, systems, infrastructures, tools and applications for the Internet of Things as well as identifying emerging research topics which will help define the future.

The SMART IoT conference is brought to you by some of the worlds leading authorities: People with special knowledge as a result of their involvement with projects sponsored by the European Commission. The conference is supported by the EU.

#### **OUTLINE PROGRAMME**

It will be held in England in the Conference Centre of the world famous Manchester United Football Club, Old Trafford, Manchester: It is a 3 day event with a range of optional add-on programmes. There will be plenary and break out sessions addressing the following topics:

IoT, Energy and Utilities

IoT, and the Environment

IoT, Industry and Finance

IoT, and Economic Impact

and Legal Underpinning

IoT, and Social Impact

IoT, Governance

IoT, Food and Water Security

**Global Developments** 

loT in

#### loT

#### Infrastructure

- IoT and Network Security
- Network Functionalities and Scalability
- Service Facilities in IoT
- Object Connected Identification
- Intelligent Processing and IoT
- Sensor Networks
- Energy Harvesting
- Self-functionality
- Mobile Fusion

**REGISTER AT www.smart-iot.org** 

#### PLANNED DEADLINES Papers should be submitted to http://www.SMART-IoT.org

- Online abstract submission deadline May 22nd
- Provisional acceptance June 15th
  - SMART-IoT Summit 2012

The Old Vicarage, All Souls Road, Halifax, HX3 6DR, UK T: +44 (0) 1422 368368 E: sarah@smartidentification.org W: www.SMART-IoT.org

#### loT in

#### **SMART Developments**

- SMART Cities
- SMART Transport
- SMART Manufacturing
- SMART Construction
- SMART Farmin

Submission of final paper – July 6th
 Presenter registration – July 20th

20th SMARTID



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