



# CloudTech

Marrakesh 2016

Microsoft Azure

Francesco Scullino



# Agenda:

ISMB

Microsoft Innovation Center Torino

Microsoft Azure Overview





POLITECNICO  
DI TORINO



Our mission is creating  
value-driven and socially  
**relevant technological  
& process innovations**  
in close collaboration  
with industry and  
institutions

*Founded by Compagnia di San Paolo and Politecnico di Torino in 2000, ISMB is a non-profit Research & Innovation Center on ICT.*



[www.ismb.it](http://www.ismb.it)

# PEOPLE & NETWORK

We are more than 130 researchers working on R&D projects.

Our domain is the ICT and the innovation technology.

**103** Under 36

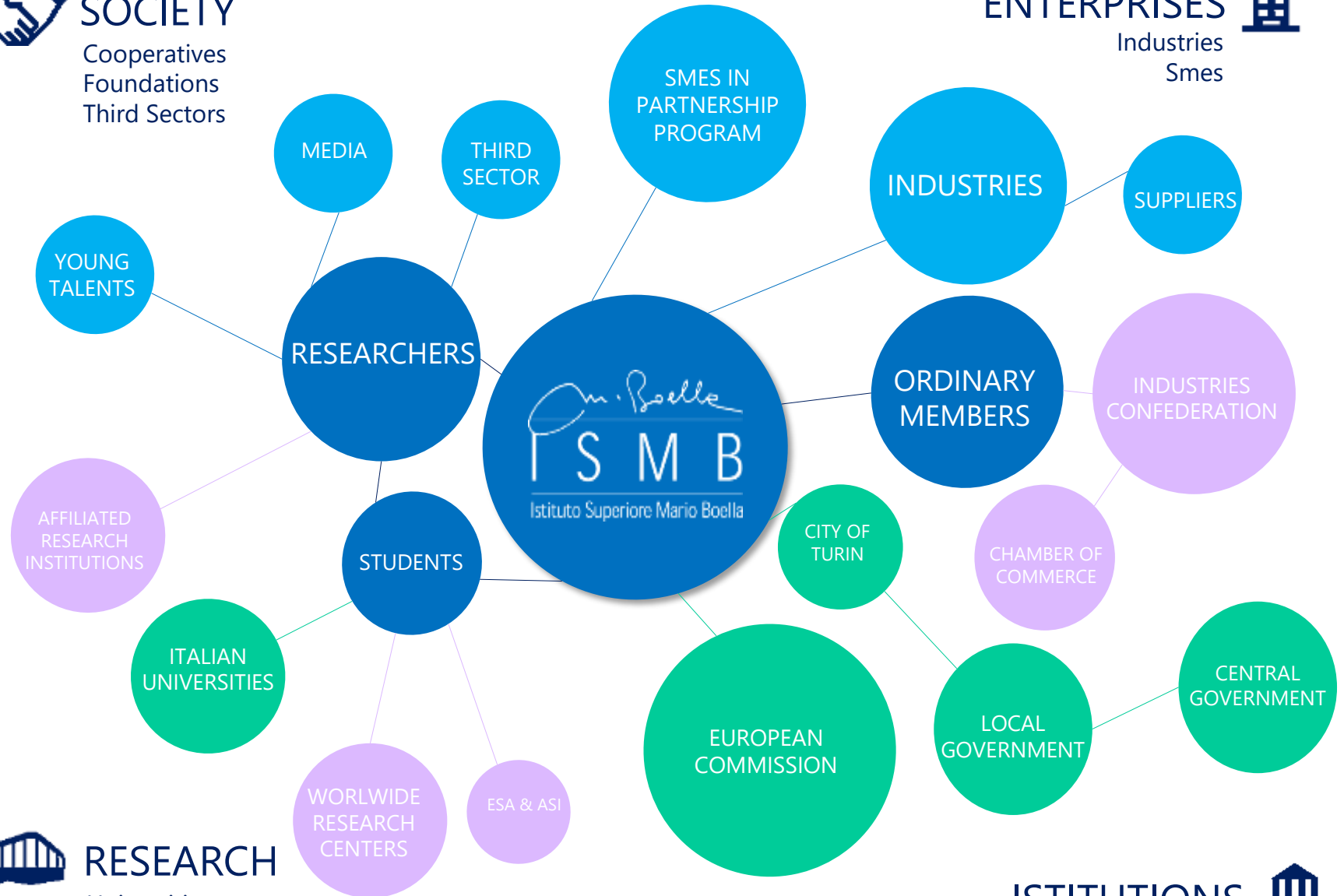
**75** Employees

**52** Collaborators

**95%** Graduates

**87%** Engineers

**33%** PhD



# ISMB STRUCTURE

ISMB counts more than 140 researchers working on R&D projects. More than half of the workforce is under 35, 85% are engineers and 36% has a PhD.

## 7 RESEARCH AREA



## 3 STRATEGIC PROGRAMS



## 3 FUNCTIONS







# Innovation Center Torino

We're working on the domain of mobile solutions and the emerging paradigms of **Big Data**.

We aim to support the **innovation of services, products and processes** realizing **end-to-end** solutions, based on **Cloud Computing** technology and connected with **Smart Device** applications (i.e. Embedded) following the **IoT** paradigm.

The **smart data management** support the development of the added value services.



# OUR TOPICS

## SMART PROGRAMS

Smart City and Mobility  
Smart Health  
Smart Energy  
ITS

## EMERGENCY MANAGEMENT

## ENVIRONMENT

Cultural Heritage  
Territory

## PRODUCTIVE ACTIVITIES

Food and agriculture  
Factory of the Future  
Digital manufacturing

## INNOVATION CULTURE

Education  
Training  
Events

## FINANCIAL SERVICES

## SPACE

## CONTEXT AWARENESS

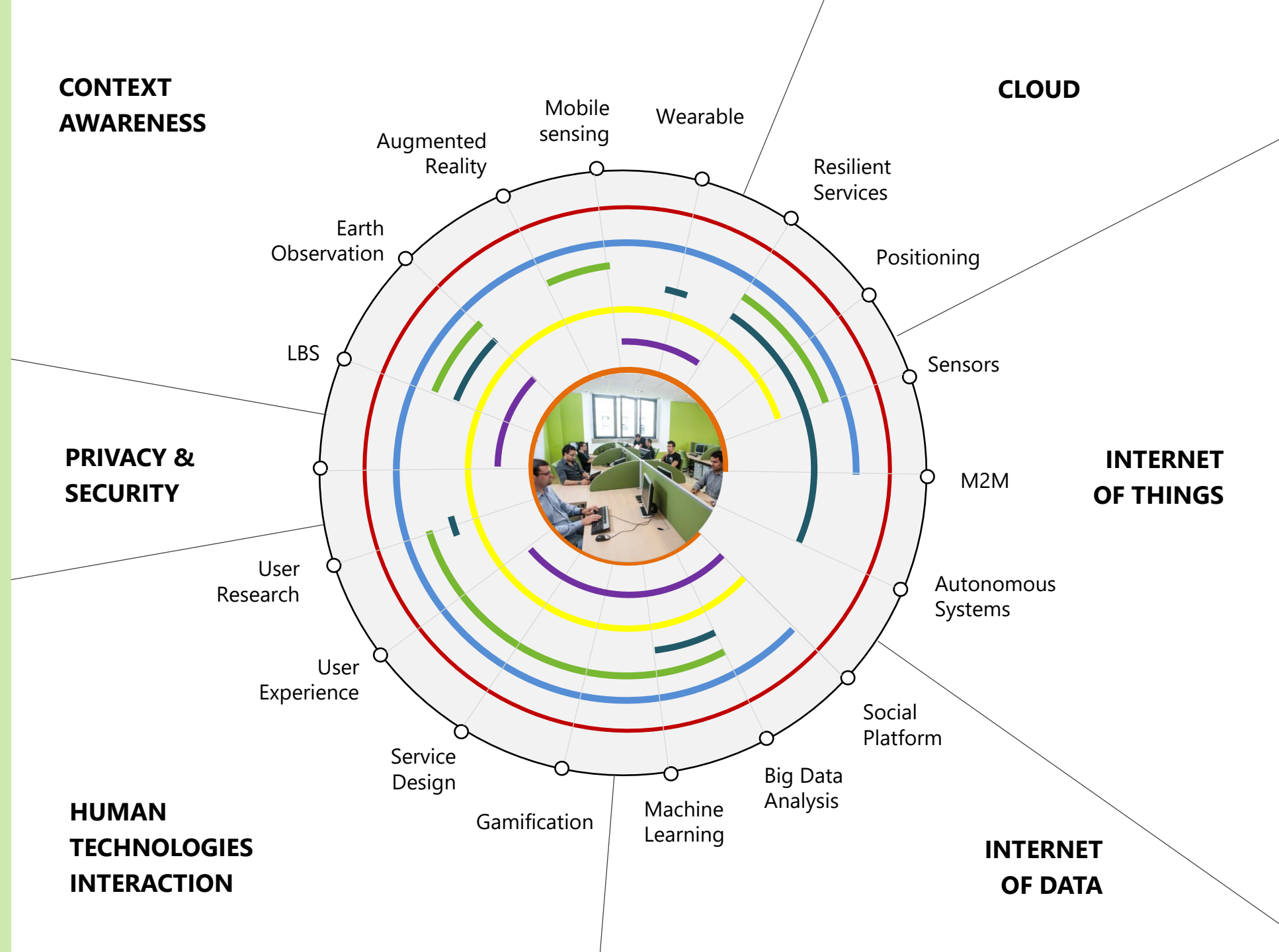
## PRIVACY & SECURITY

## HUMAN TECHNOLOGIES INTERACTION

## CLOUD

## INTERNET OF THINGS

## INTERNET OF DATA





# Microsoft BizSpark



We manage the strategic and operative activities of the **BizSpark Program** in **Italy**. In particular, we hold consulting and technical trainings focused on Microsoft Azure for the BizSpark Italian **startups**, as well as we support startups with dedicated **architectural reviews**. We also cooperate with the **BizSpark Network Partners**, the most important incubators and accelerators in Italy, in order to consolidate the **local startups ecosystem**.

#startups #cloud #bizspark

[www.bizspark.com](http://www.bizspark.com)



2500+

Enrolled Startups from the begin of the program in Italy (5 years)



1435

Italian Startups Active in the three-year program



850

Italian Startups Active who use the Microsoft Azure cloud platform



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# Microsoft Azure

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## Microsoft Azure

DEVELOPER + APP PLATFORM

Visual Studio Family + Azure App Service

DATA + ANALYTICS

Cortana Analytics Suite

INTERNET OF THINGS

Azure IoT Suite

CLOUD INFRASTRUCTURE

Azure + Azure Stack + Operations Management Suite



# Microsoft Azure

## CLOUD INFRASTRUCTURE

### Compute



Virtual Machines



Containers



Remote App



Batch

### Storage



Blob Storage



Azure Files



Premium Storage



Active Directory



Multi-Factor Auth



Automation



Key Vault

### Security + Management



Express Route



Virtual Network



Load Balancer



DNS



Traffic Manager



VPN Gateway



Application Gateway

### Networking



Azure AD Connect Health



AD Privileged Identity Mgmt



Backup



Operational Insights



Import/Export



StorSimple








Site Recovery

### Hybrid Operations

# Microsoft Azure

## DEVELOPER + APP PLATFORM





### App Platform Services

-  App Service
-  Notification Hubs
-  API Management
-  Service Fabric
-  Cloud Services


### Integration

-  Storage Queues
-  BizTalk Services
-  Hybrid Connections
-  Service Bus

### Development Tools

-  Visual Studio
-  Visual Studio Online
-  Application Insights
-  Azure SDK

### Media & CDN

-  Content Delivery Network
-  Media Services

## CLOUD INFRASTRUCTURE

Azure + Azure Stack + Operations Management Suite

# Microsoft Azure

## DATA + ANALYTICS

### Data



SQL Database



DocumentDB



Redis Cache



Search



SQL Data Warehouse



Data Lake



Tables

### Analytics



HDInsight



Machine Learning



Data Factory



Mobile Engagement

## INTERNET OF THINGS

Azure IoT Suite

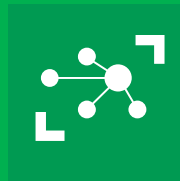
## CLOUD INFRASTRUCTURE

Azure + Azure Stack + Operations Management Suite



# Microsoft Azure

INTERNET OF THINGS



IoT Hub



Stream  
Analytics



Logic Apps

CLOUD INFRASTRUCTURE

Azure + Azure Stack + Operations Management Suite