

# Inclusive Smart Cities and Digital Health



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[www.ipal.cnrs.fr](http://www.ipal.cnrs.fr)

**WHAT:** Image & Pervasive Access Lab (CNRS UMI 2955) – CNRS INS2I & INSIS

**WHO:** CNRS, I<sup>2</sup>R/A\*STAR, NUS, UPMC-SORBONNE U. (Paris), Institut Mines-Telecom, U. Grenoble Alpes (UGA).

**WHEN:** UMI Renewal 1.2015 to 12.2018 (*20<sup>th</sup> Anniversary*)



2<sup>nd</sup> February 2015 Singapore. Renewal of IPAL

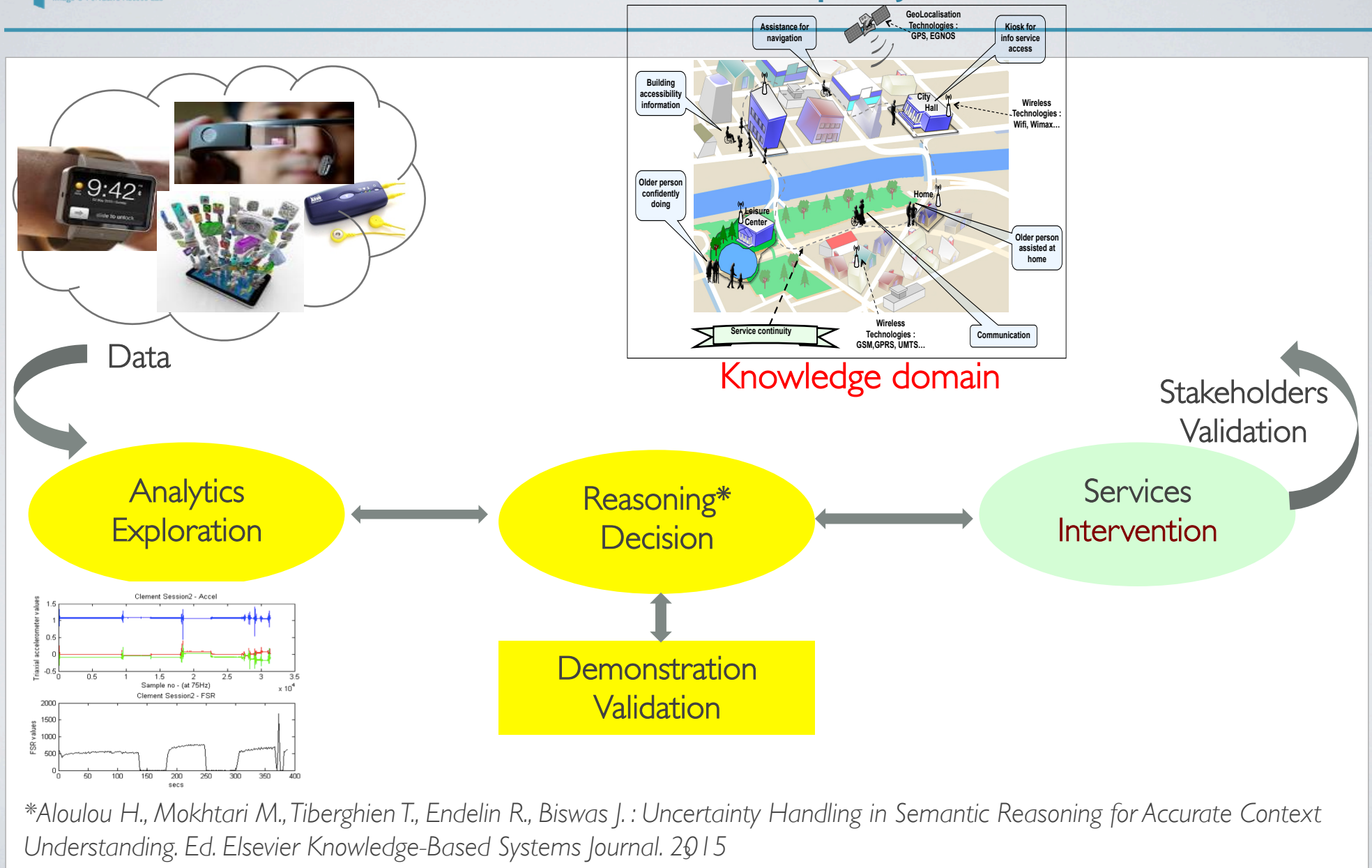
**WHERE:** Fusionopolis I<sup>2</sup>R (main site) and NUS Campus

**New site! Biopolis (BII/A\*STAR)  
BioMedical Image Analysis**

**New Associate partners: BII/  
A\*STAR and University of  
Toulouse**

**Distinctive Feature I2R and NUS  
French-Singaporean joint Lab,  
focusing on ICT for health and  
wellbeing**

[http://www.i2r.a-star.edu.sg/  
success-stories/ipal-joint-lab](http://www.i2r.a-star.edu.sg/success-stories/ipal-joint-lab)

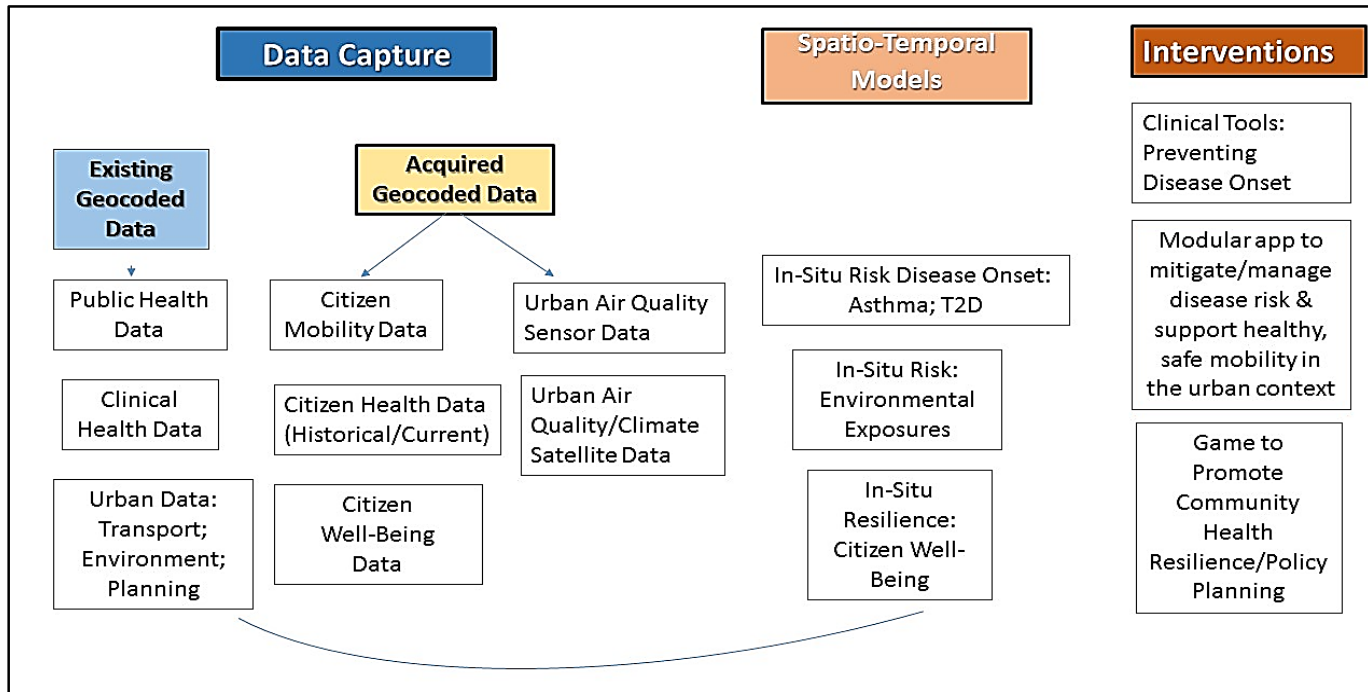




# Calibrating, Modeling and Intervening to prevent public health risks

## 3 key objectives:

- Personal health management (chronic diseases)
  - T2D-Type 2 Diabetes
  - Respiratory-Asthma
- Mobility/Motivation
- Socialization



# Recent People & Funding

	FR	SG
Partners	4: CNRS, IMT, UPMC, UJF Associate partner: University of Toulouse	2: A*STAR I <sup>2</sup> R, NUS Associate Partner: BII/A*STAR
Researchers (FTE)	20	
	7 Researchers/Senior scientists (1 from FR, 6 from SG)	
	11 Professors (8 from FR, 3 from SG)	
	2 Post-Docs/Research Engineer (1 from FR, 1 from SG)	
	13 PhD students (11 joined in 2015/2016 + 2 PhDs joining in 2016)	
	Total 33	
Teaching	NUS – School of Computing	
PhD students	10 successfully completed, 13 current	
Interns students	IPAL welcome about 12-15 interns each years (Master/Engineer level)	
	<i>IPAL is eligible to AGA (A*STAR Graduate Academy)</i>	
Post-Docs/Research Engineer	2	
Publications	About 200 publications in journals and international conferences (about 20 publication each year)	
Patents	6 patents copyright in the last 5 years	
3rd country collaborations	Italy. Serbia. UK. Germany. Spain. China. Taiwan	

## IPAL involved in 10.9 M€ projects funding from 2010

- ▶ Among the 10.7 M€ funding, 2.7 M€ went to IPAL.
- ▶ Among the 2.7 M€ to IPAL, 46% is from FR (ANR, FUI, CNRS-PEPS, Investment of the future, etc.), 25% from SG (JCO, SERC, NRF), 7% Industry (PSA-SG), and 22% from EU (H2020)
- ▶ Ongoing projects
  - VHP Inter@ctive, Investment of the Future. To be concluded December 2016
  - Drainbot, IPAL-NUS NRF funded, led by Nizar Ouarti
  - Merlion, IPAL-BII, led by Thomas Boudier
  - City4Age, Horizon 2020 granted. IPAL PI, Started 1<sup>st</sup> December 2015
  - Industrial contract: *IPAL-PSA PEUGEOT-CITROEN*. Smart mobility & Wellbeing. Started 1<sup>st</sup> October 2016
- ▶ Perspectives
  - PULSE, Horizon 2020 “Big data for health”.
  - ANR, 3D Morpho Cell. IPAL-Academia Sinica Taiwan
  - IPAL is supporting CNRS@CREATE initiative with SILVER programme “Singapore Innovative Living Environment” (under negotiation with NRF)

- ▶ IPAL co-hosted with BII/A\*STAR Bioimage Informatics Conference 2016 - Singapore, 10-12 October
- ▶ IPAL hosts International Workshop on Translational Medicine for Ageing and Well-Being – 19<sup>th</sup> May 2016
- ▶ 14th edition of IPAL-founded conference ICOST 2016 - Wuhan, 25-27 May.
- ▶ IPAL @ France Singapore Innovation Days - IOT as a smart nation enabler, 11-13 november 2015 (Next FSID'2016 co-located with ROBO-EXPO 1-2 novembre)

## Mobilité sortante:

- ▶ IPAL -> MICA : Dinh Nguyen, Doctorant IPAL
- ▶ IPAL -> LIMMS: Thomas Boudier, A/Prof IPAL

## Mobilité entrante:

- ▶ JFLI -> IPAL, Jean François Baffier, Research Assistant
- ▶ MICA -> IPAL Dr. Dao Trung Kien, Co-Director MICA
- ▶ LIMMS -> IPAL Dr. Antony Genot

## Discussion Projets collaboratifs

- ▶ Proposition projet (IPAL à Singapour et MICA au Vietnam) Mission interdisciplinarité DEFI AUTON.  
7-8 Decembre, 2015
- ▶ IPAL, CINTRA et NTU: Capteurs intelligents pour la santé
  - Plusieurs rencontres bilaterales
  - Accueil de 2 doctorants NTU en immersion a IPAL



## Mobilité sortante souhaitée:

- ▶ IPAL -> MICA – 2 doctorants IPAL
- ▶ IPAL -> JFLI
- ▶ IPAL -> LIAMA
- ▶ ...

## Mobilité entrante:

- ▶ All AUR@ members, and their local partners, are Welcome

## Projet de mobilité des doctorants dans le réseau AUR@

- ▶ Durée: 1-3 mois (co-funding using local mechanism)
- ▶ Mise a disposition des plates-formes d'experimentation
- ▶ Joint publications
- ▶ ...