

Greater Paris University Hospitals (AP-HP) Nantes University hospital (CHU de Nantes)

Digital Hospital of Tomorrow

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Agenda

- 1. French university hospitals challenges**
- 2. Details of BearingPoint intervention**
- 3. Focus on the thematics of the CEI and results**

Digital hospital of tomorrow – to promote new devices and practices

3 issues for AP-HP and Nantes University



Combining the **short time** of digital innovation and the **long three university hospitals' real estate investment** (*The Ile de Nantes (IDN) project (CHU de Nantes)*), *The New Lariboisière project (AP-HP)*, *The AP-HP Northern Hospital Campus*



Promote the **implementation** of innovative projects leading to concrete improvements for patients and healthcare professionals. Identifying potential partnership forms, for example by exploring innovative economic models



Building and managing a digital and innovative on **ecosystem** with territorial, national and international scopes



Key figures


APHP 39 Hospitals
100 000 employees
315 M€ (Lariboisière – 610 beds) et 915M€ (Campus Nord – 816 beds)

Nantes – 18 000 employees
953 M€ for the Ile de Nantes (1384 beds)

This CEI was undertaken as part of the French largest three university hospitals' real estate investment programs led by AP-HP and CHU de Nantes, which are also considered as major european hospital investments for the years to come.

This CEI was opened to any person or entity willing to invest in e-health or to contribute to building the digital dimension of the hospital of tomorrow.

The CEI is the **first step of a sustainable open innovation approach led by AP-HP and CHU de Nantes.**



CEI Context

Campus Hospitalo-Universitaire du Grand Paris Nord

New Lariboisière

Île de Nantes – CHU de Nantes

Why a Call for Expression of Interest (CEI) ?

The Greater Paris University Hospitals (Assistance Publique – Hôpitaux de Paris, AP-HP) the largest university hospital center in Europe, and the Nantes University Hospital (CHU de Nantes) are launching a common Call for Expression of Interest (CEI) focused on the digital hospital of tomorrow in order to promote new devices and practices. This CEI is undertaken as part of the French largest three university hospitals' real estate investment programs led by AP-HP and CHU de Nantes, which are also considered as major european hospital investments for the years to come. This CEI is open to any person or entity willing to invest in e-health or to contribute to building the digital dimension of the hospital of tomorrow.

The CEI is the first step of a sustainable open innovation approach led by AP-HP and CHU de Nantes. It must lead to concrete partnerships / projects involving the entire hospital community.

BearingPoint's role

Redaction of the CEI

- Definition of the scope and objectives
- Redaction and publication of the CEI

Sourcing and mobilization

1

- Sourcing of **300 innovating actors**
- Communication on line and off line
- Organization of events (speed dating....)

Analyze of each submitted project

2

- **388** projects
- **242** actors

Help in the final selection of winning projects

3

- Writing of **56 detailed memo** about identified structures
- Animation of an **expert committee**
- Organization of a **national event** to reward the top 15 innovative ideas / projects / products or services



Speed dating - CA village



Remise des prix en présence de Mme Buzyn et M. Mahjoubi - 07/12 - BPI



Livre blanc AMI

Tweet de la ministre de la santé



Agnès Buzyn (@agnesbuzyn)

07/12/2017 17:00

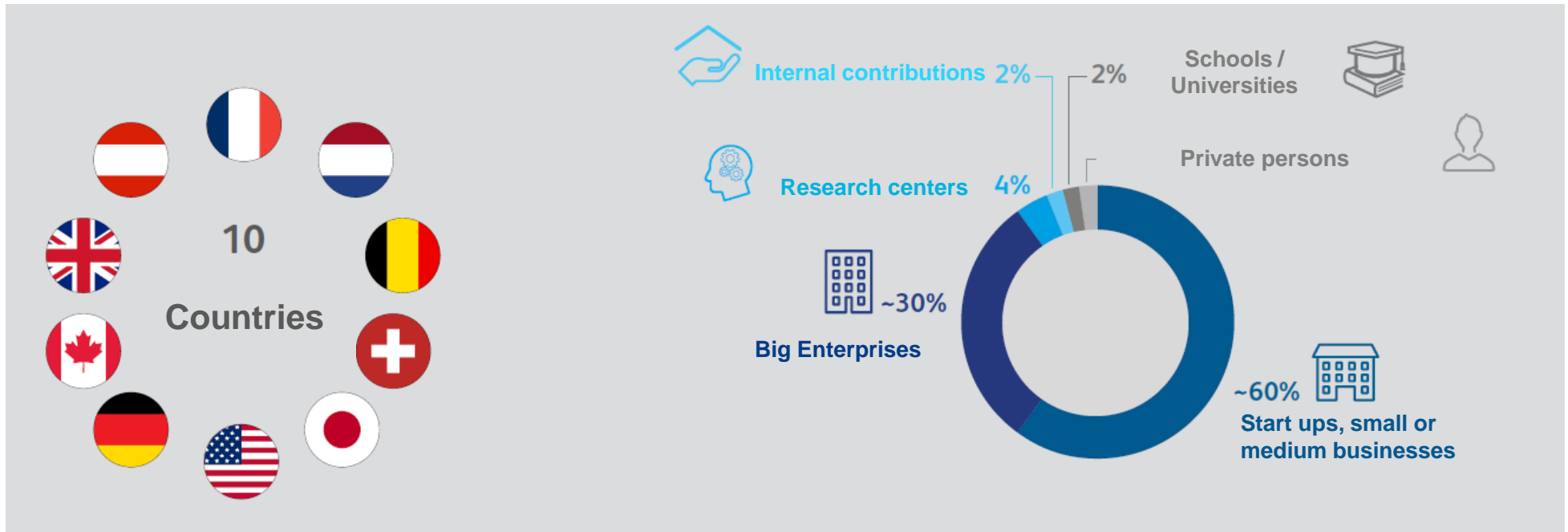
Avec @mounir à la @Bpifrance pour saluer les lauréats de l'appel à manifestation d'intérêt "Construire l'hôpital numérique du futur".

Félicitations et soutien à ces acteurs de l'innovation en santé et du numérique qui imaginent l'offre de soins de demain.

#AMIHopitalduFutur pic.twitter.com/c9S6lFTtMX

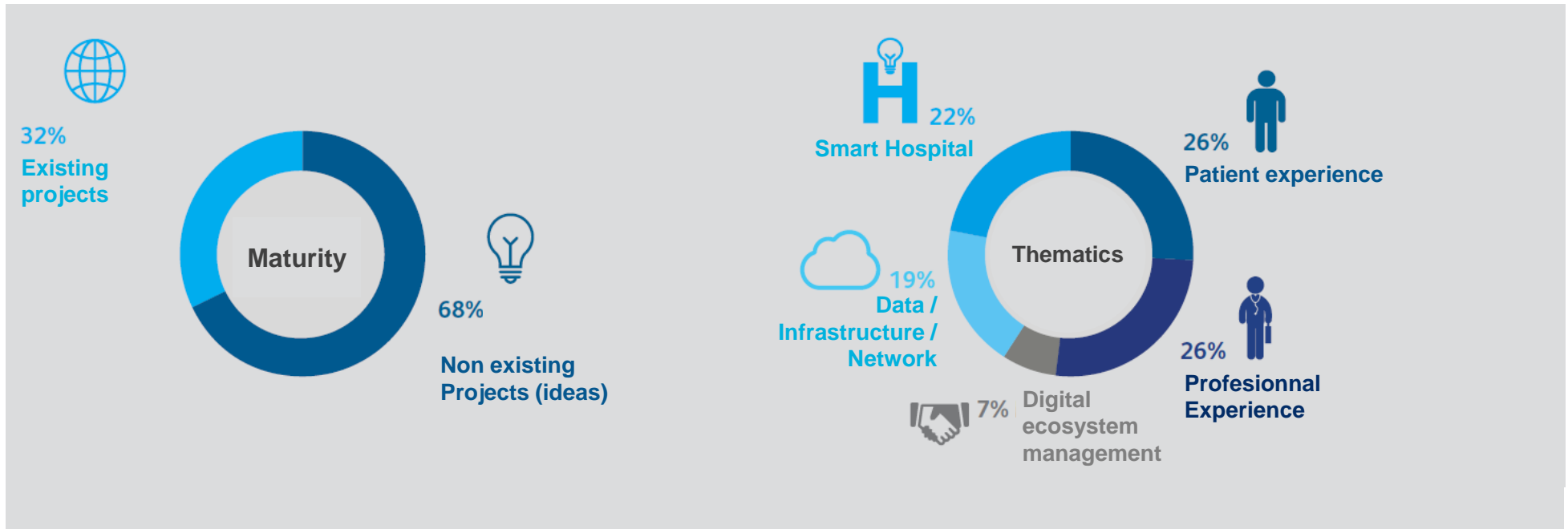
Main results of the CEI (1/3)

338 projects submitted by 242 innovating actors



Main results of the CEI (2/3)

A majority of non existing projects



Main results of the CEI (3/3)

Almost 15 main subjects



Patient experience

- Telemedicine / e-health
- Apps
- Augmented reality / Virtual reality
- AI
- 4P medicine
- IoT
- Geolocalisation
- Chatbot



Professionnal Experience

- AI
- Telemedicine / e-health
- Apps
- Augmented reality / virtual reality
- 3D printers
- Tools of HR optimization
- Coaching
- Big Data / Data analysis



Smart Hospital

- Geolocalisation
- Predictive maintenance
- Sustainable development
- Robots / Droïde / AGV
- Mobility / Transportation

15 winning projects

EFFENCY.



Special Prize « Professional Experience »
Logistic Droid



Special Prize of the Jury
Platform managing and coordinating patients' daily life



Special Prize « Smart Hospitals »
Hospital's digital avatar



Special Prize « Patient experience »
Digital robot assisting patients in their hospital rooms

- **SPIE** – Digitalization of the reception point
- **Alcatel-Lucent and Clepsydra** – Numeric therapeutic and post-operation follow-ups
- **HealthyMind** –Therapeutic virtual reality
- **Polytechnique, Owkin, Dermatology of the CHU de Nantes and Hôpital Saint-Louis** – Infrastructure for a 4P medicine
- **Quarness, Apple** –The good information at the good moment
- **Siemens Healthiners** – Artificial intelligence in medical imagery
- **Philips** – Heart ultrasound
- **Engie** – Numeric avatar of the hospital
- **Stanley Healthcare** – Geolocalisation system inside the hospital
- **Atos** –Independant droid in the sky and river
- **Bloc in bloc** – Maintenance using augmented reality

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