

# HimSS<sup>®</sup>19 Eurasia

Sağlık Bilişimi ve Teknolojileri  
Konferansı ve Fuarı



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## Best applications of Health IT in Asia and Europe

GOGLIN Jean-François  
National Advisor, FEHAP



 @GOGLINJF

**30 Ekim - 1 Kasım 2019**  
**Pullman Hotel Yenibosna**  
**İSTANBUL, TÜRKİYE**

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Everything starts with the SmartCity

The illustration depicts a vibrant, isometric view of a smart city. The urban landscape is filled with diverse buildings, including modern high-rises, a church with a blue steeple, and smaller commercial structures. A busy street network is populated with various vehicles like cars, buses, and trucks, as well as pedestrians and cyclists. In the foreground, a green park area features a basketball court, a swimming pool with lounge chairs, and a playground. The scene is lively with numerous small figures of people engaged in various activities, suggesting a high-quality, interconnected urban environment.



- Our life takes place in a SmartCity, and we are connected in a whole digital world.

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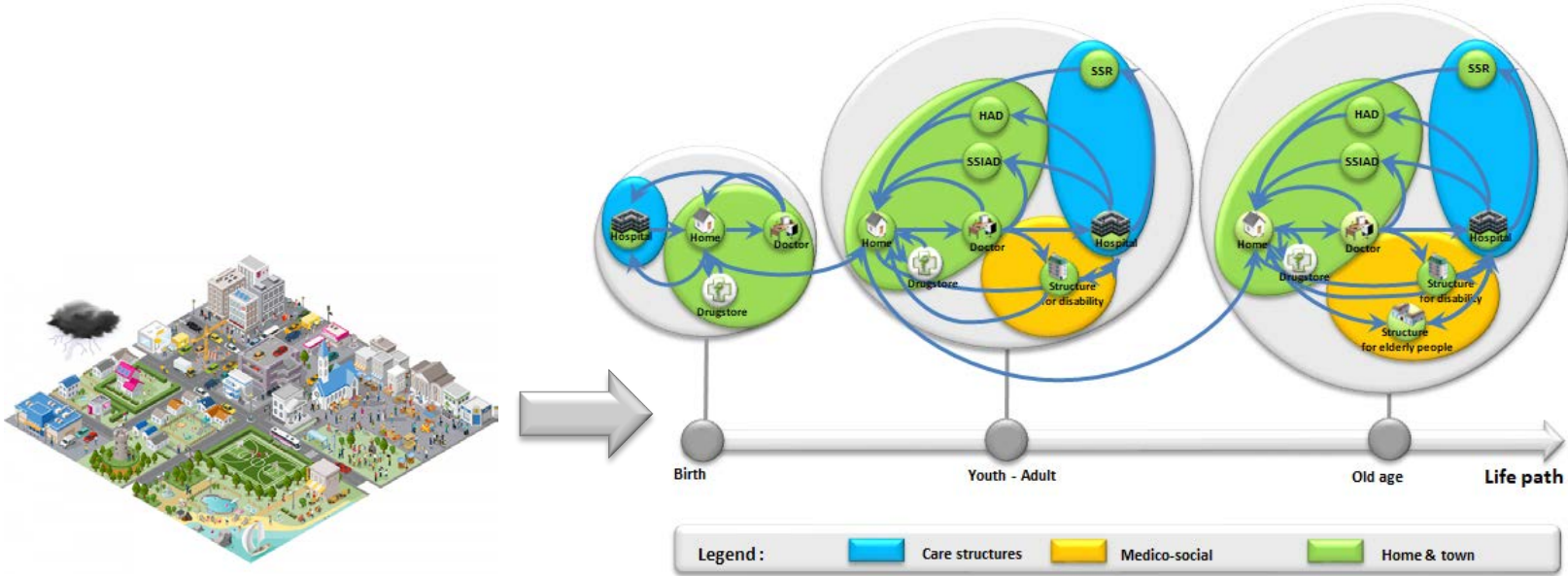
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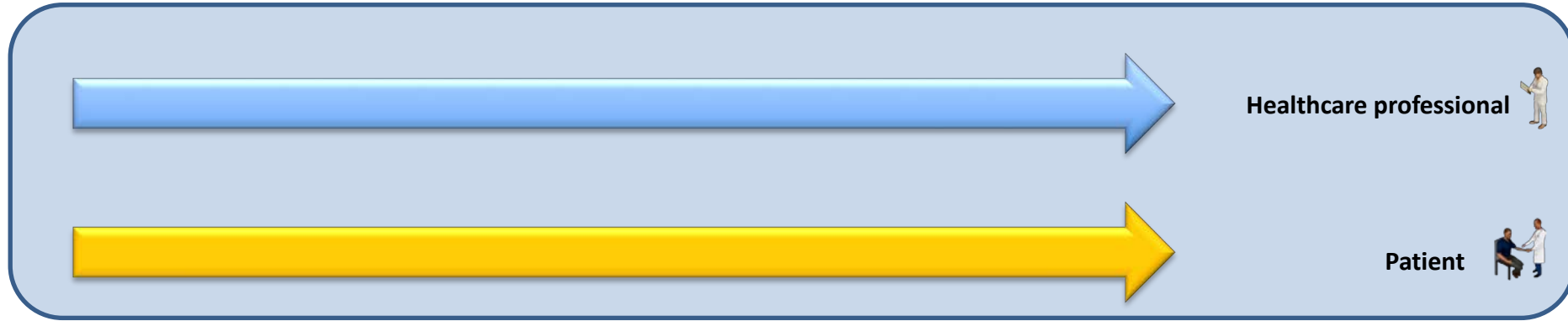


- All of us live in the SmartCity.
- And the care path takes place there.



## ■ The care path

The care path includes two parts, one linked to the patient, his family and his caregivers, the other related to healthcare professionals.



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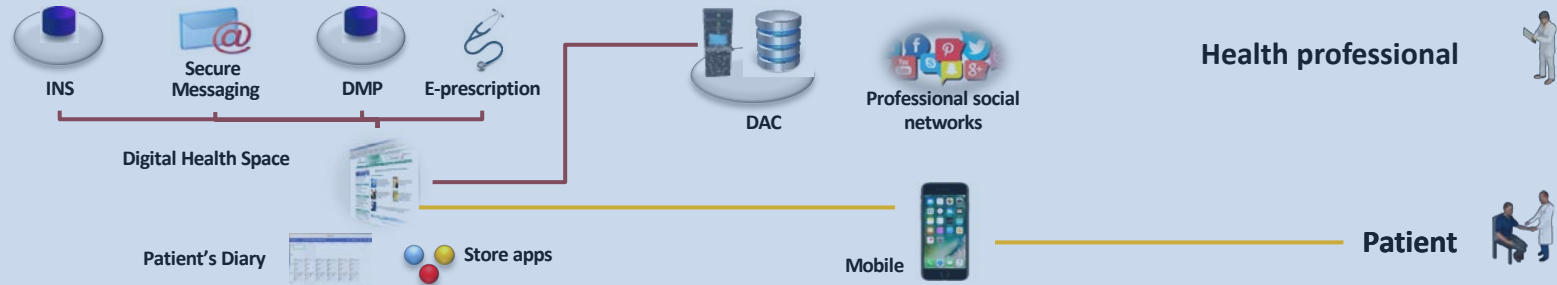
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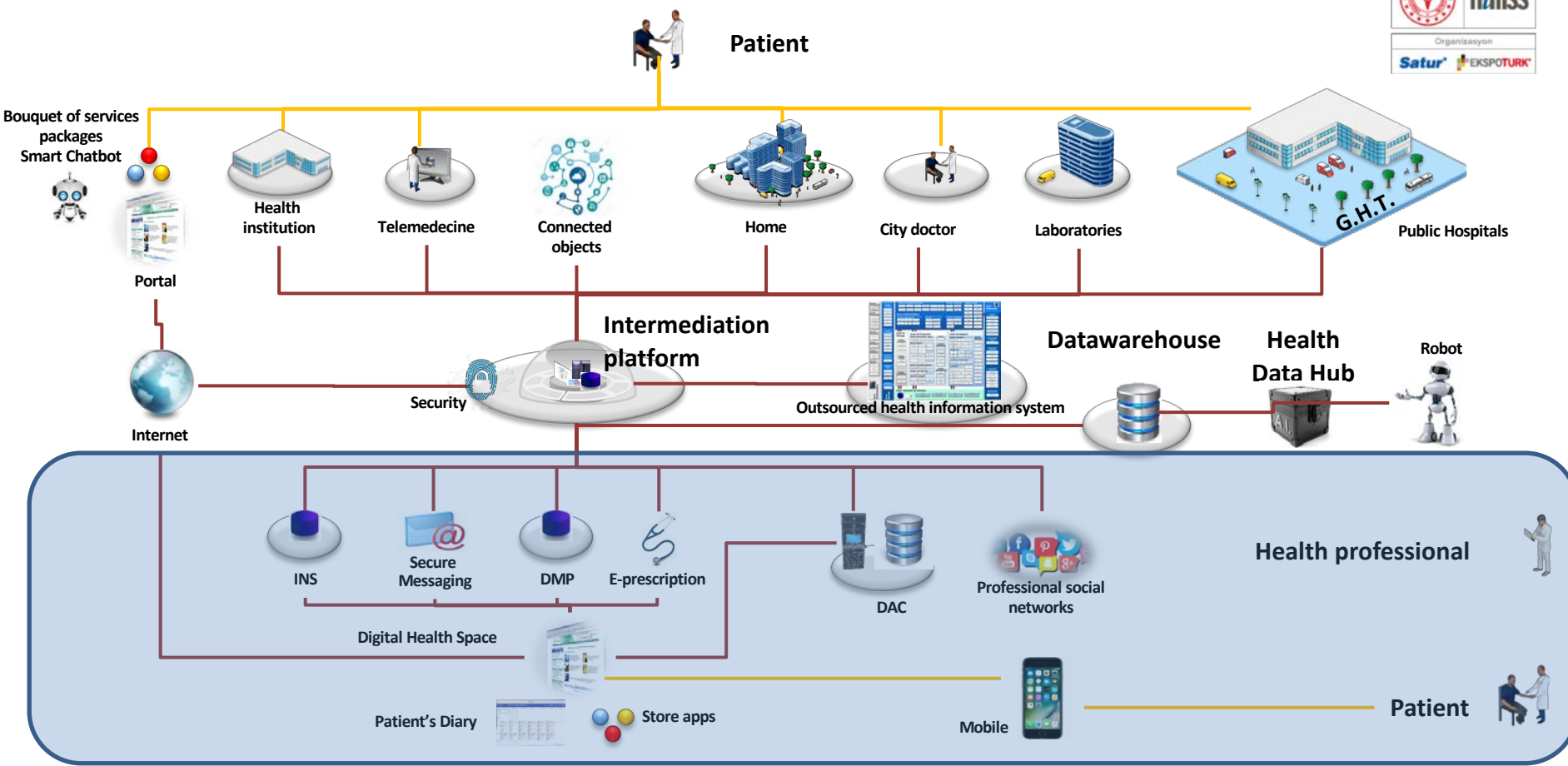
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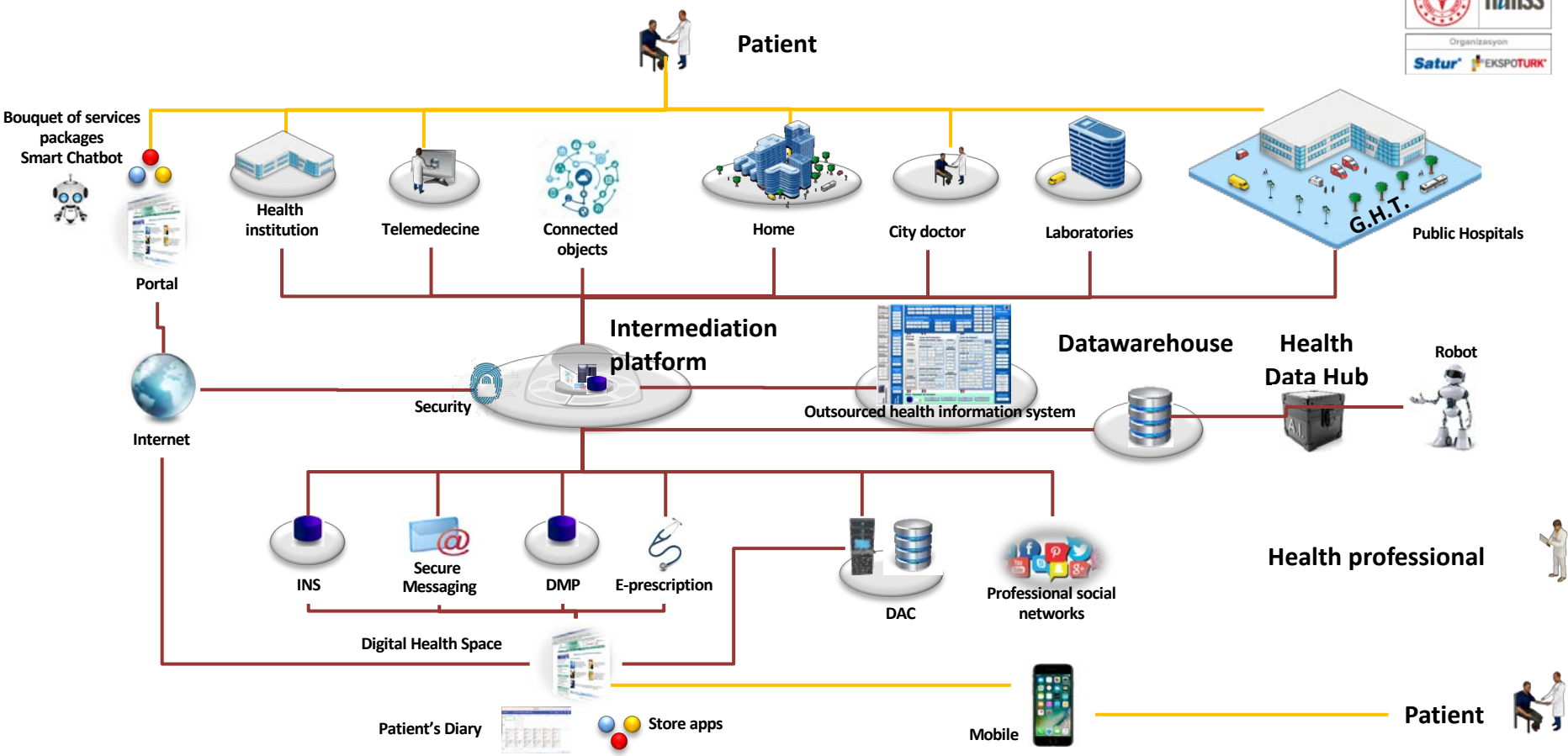
## ■ The care path

The two parts are intrinsically linked by pivotal technical objects.

The pivots are DMP ( a secured shared medical record), secure messaging and coordination platforms.





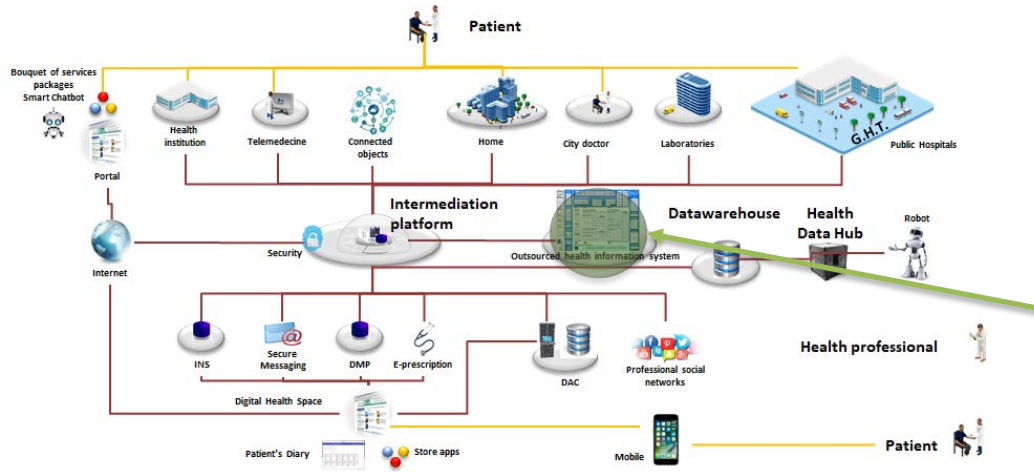






For which applications for Health and IT?

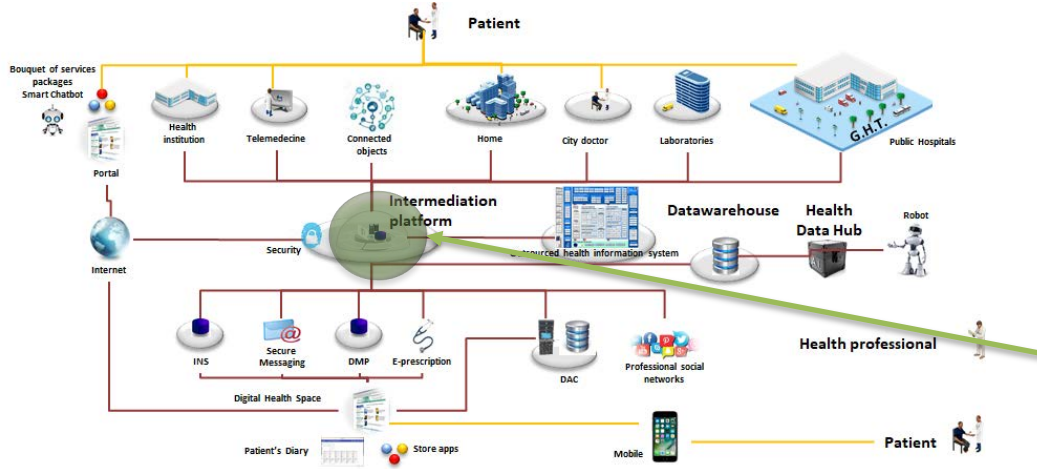
## For which applications for Health and IT?



## EHR

- All hospitals now have an EHR.
- Interoperability must be in place by 2023.
- In fact, hospitals are working on the urbanization of their information systems.
- Cybersecurity remains a main issue.

# For which applications for Health and IT?

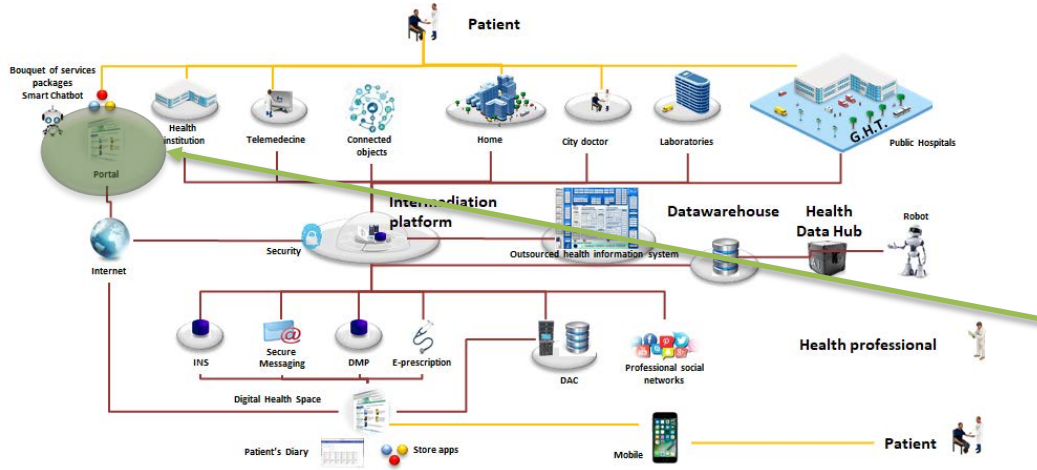


## Intermediation platform

- Whereas interoperability is about the ability of two systems to communicate with one another, intermediation connects and therefore links two actors (who can be humans, AI, electronic systems, ...) with each other.
- Intermediation platforms will use tools such as EAI, ETL, webservices, messaging, portals,....).
- Intermediation will connect any actor in the life path within a digital healthcare ecosystem.



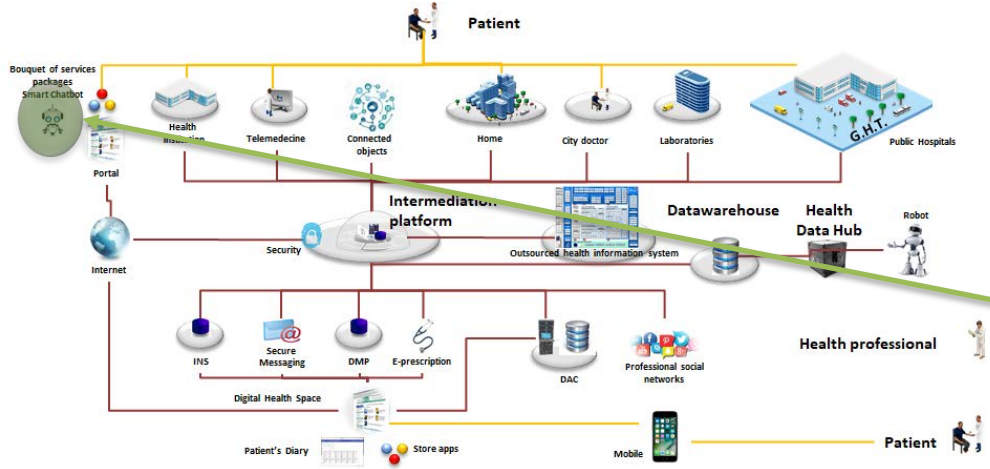
# For which applications for Health and IT?



## Portal

- All major French hospitals deploy portals that aim to :
  - ✓ Inform patients, families, caregivers and professionals.
  - ✓ Give access to certain features of the hospital information system such as making appointments for example.
  - ✓ Associate in a particular form of integration several information systems when bringing together several hospitals for example.

# For which applications for Health and IT?

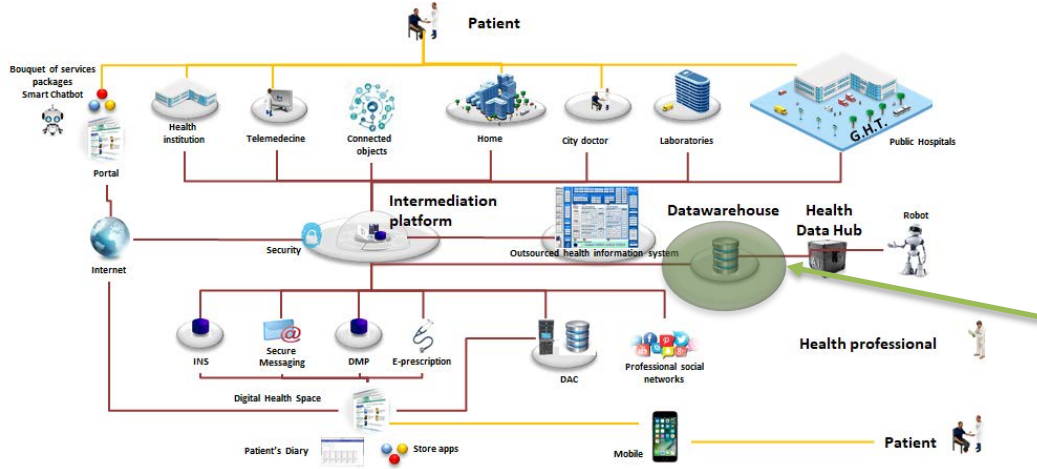


## Chatbots

- Chatbot has huge potential especially in the context of the patient experience and in the medical environment. especially as treatments are becoming more complex, and health professionals can no longer find time to explain and interact with patients.
- The integration of chatbots today will be one of the keys to the success of the digital relationship with the citizen-user-patient, his family and his caregivers.
- First chatbots are put on their feet to offer the patient experience.



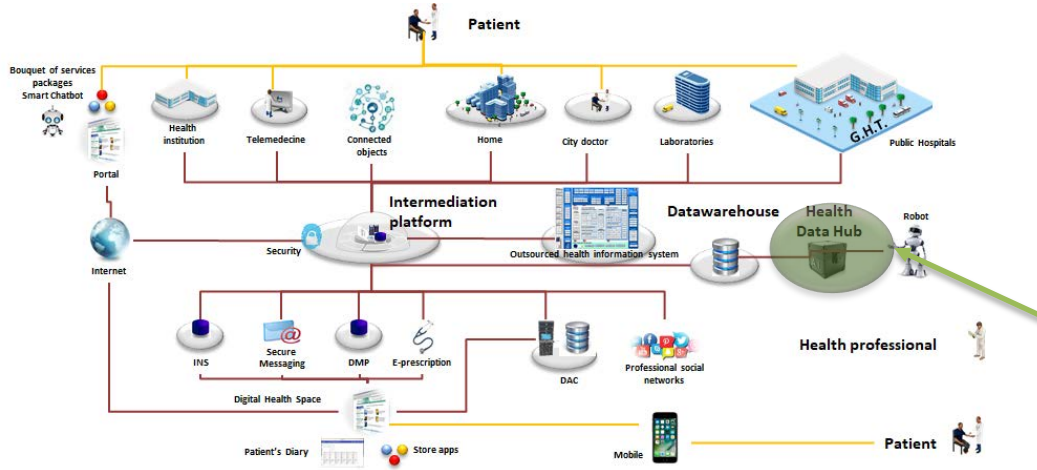
# For which applications for Health and IT?



## Datawarehouse

- Most French big hospitals create a datawarehouse.
- AP-HP's Health Data Warehouse (EDS) integrates the administrative and medical data of more than 8 million hospitalized or consulting patients from its 39 sites.
- This unique infrastructure will make it possible, for example, to conduct feasibility studies in clinical research, vigilance studies or to advance non-interventional data research. The main challenges of is to build robust AI algorithms for diagnostic and therapeutic decision support.
- APHP is the biggest european hospital.

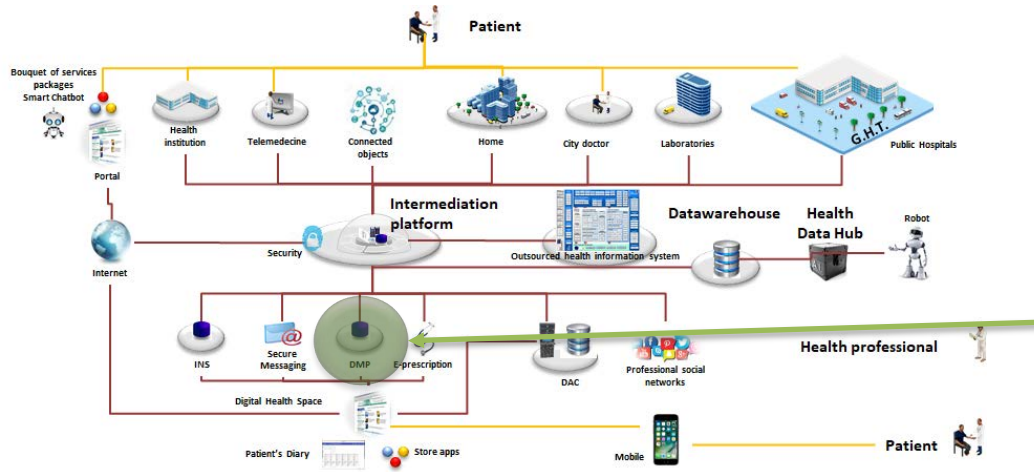
# For which applications for Health and IT?



## Health Data Hub

- The Health Data Hub is a federating national secured anonymous database.
- The aim of the Health Data Hub is to promote the use and increase the possibilities of exploiting health data, particularly in the areas of research, support for health personnel, management of health, follow-up and information for patients.
- It will allow the development of new techniques, especially those related to artificial intelligence methods.

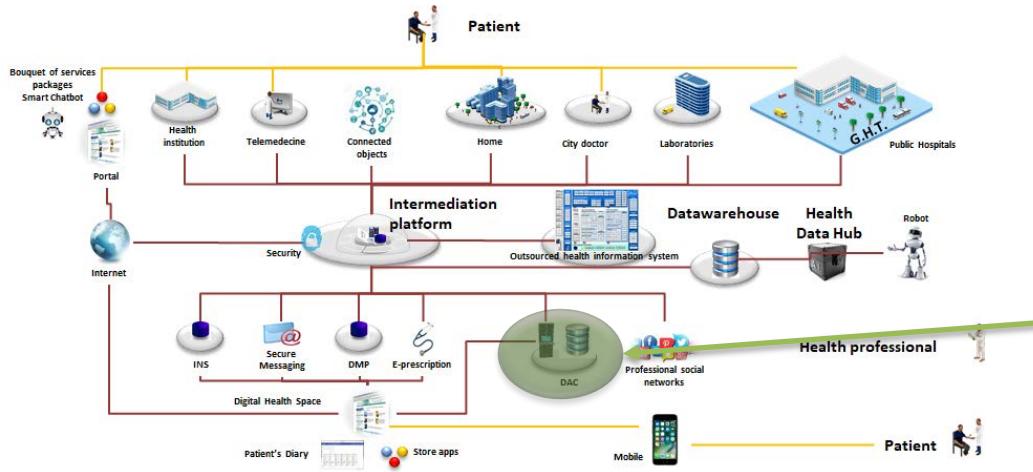
# For which applications for Health and IT?



## DMP

- The DMP is a Shared Medical Record. It's a digital health record that keeps and secures your health information: treatments, test results, allergies ...
- Based on the patient's consent, the stored data is shared by professionals to improve the effectiveness of patient management in every care-path.
- 7 million DMPs are already created and powered.
- 40 million will be opened.

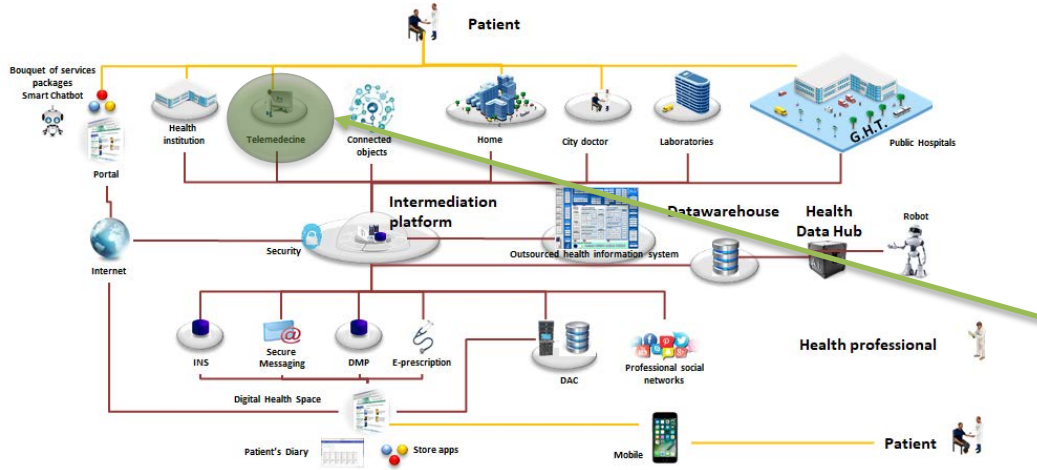
# For which applications for Health and IT?



## DAC

- Coordination support systems collect and structure support functions for health professionals from existing systems.
- In the context of care paths, coordination support systems help care team professionals to find practical solutions to prevent breaks in the care-paths and prevent unnecessary hospitalizations.
- Each French region integrates one or more digital coordination platform.

# For which applications for Health and IT?

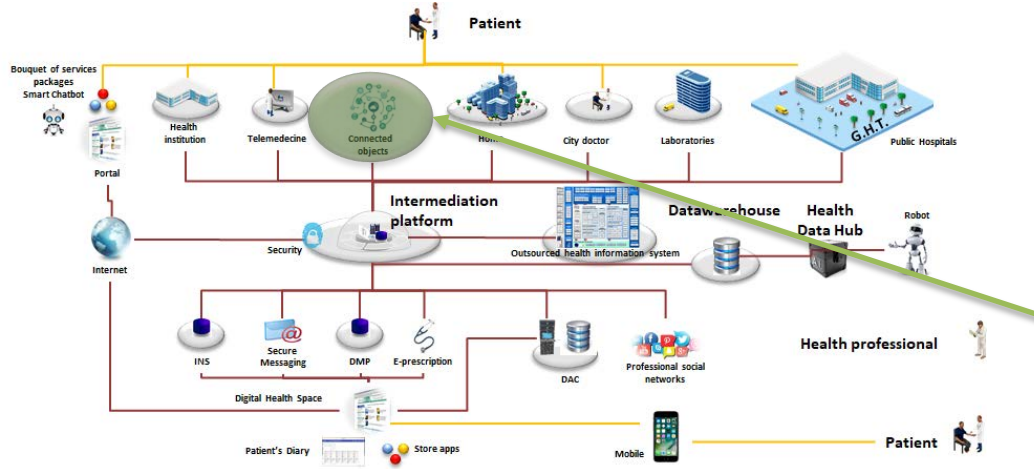


## Telemedicine

- Most of french hospitals develop telemedicine.
- They mostly use it doing :
  - ✓teleconsultations
  - ✓teleexpertise
  - ✓remote monitoring
  - ✓Medical teleassistance
  - ✓ICU regulation



# For which applications for Health and IT?

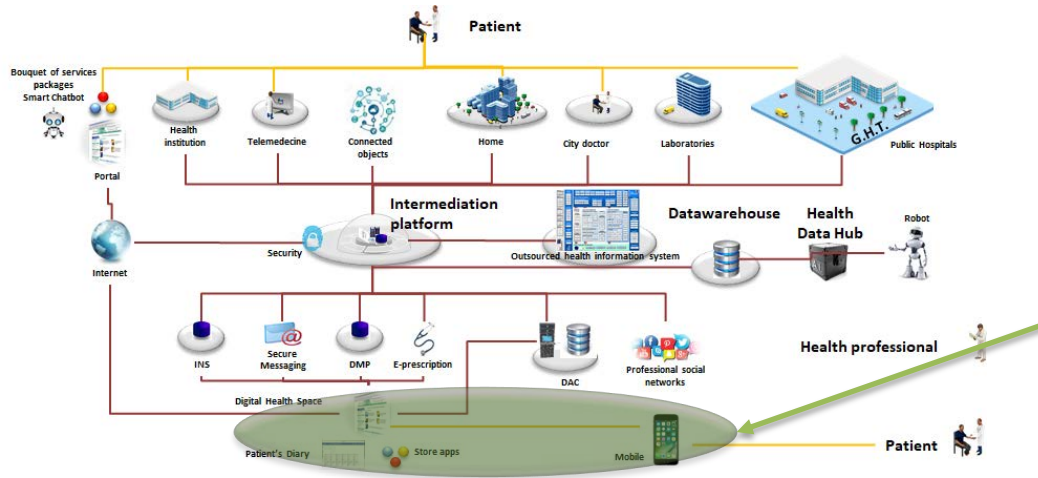


## IoT at home

- Using IoT, home become smarthome and caring home.
- IoT is used to detect falls, prevent risks, or for chronic disease monitoring.



# For which applications for Health and IT?

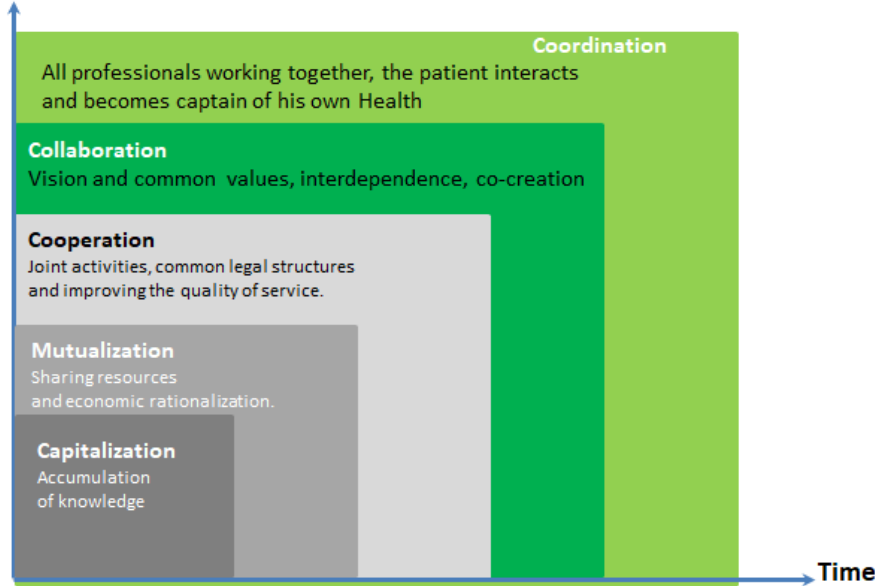


## Mobile Apps

- Main hospitals create Apps. They will be accessed via a digital store. Every patient will have his own store.
- These apps concern :
  - ✓ Informations
  - ✓ wellbeing
  - ✓ Therapeutic education
  - ✓ Chronic diseases
  - ✓ Prevention (smoking,....)
  - ✓ ...
- Some use AI and chatbots.

# Key success factor : maturity

Maturity



**Coordination associated with innovative digital platforms will allow to move to the level of prevention.**



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## Teşekkürler!

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