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AGENCE TECHNIQUE
DE L'INFORMATION
SUR L'HOSPITALISATION

TECHNICAL AGENCY
FOR INFORMATION
ON HOSPITAL CARE

Improving data quality by conducting systemic changes in the collection process

Perspectives from the French Technical
Agency for Information on Hospital Care



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Sophie Guéant, MD, MPH, MSc in Health economics
Head of the Medical Information division, ATIH

Etienne Joubert, PhD in Healthcare management
Medical Information division, ATIH

Baptiste Pluinage, MD, MPH,
Medical Information division, ATIH

Joëlle Dubois, MD, MPH
Head of the Classification, Medical Information, Funding
Models department, ATIH

ATIH Lyon

117, bd Marius Vivier Merle
69329 Lyon cedex 03

ATIH Paris
13, rue Moreau
75012 Paris

atih.sante.fr

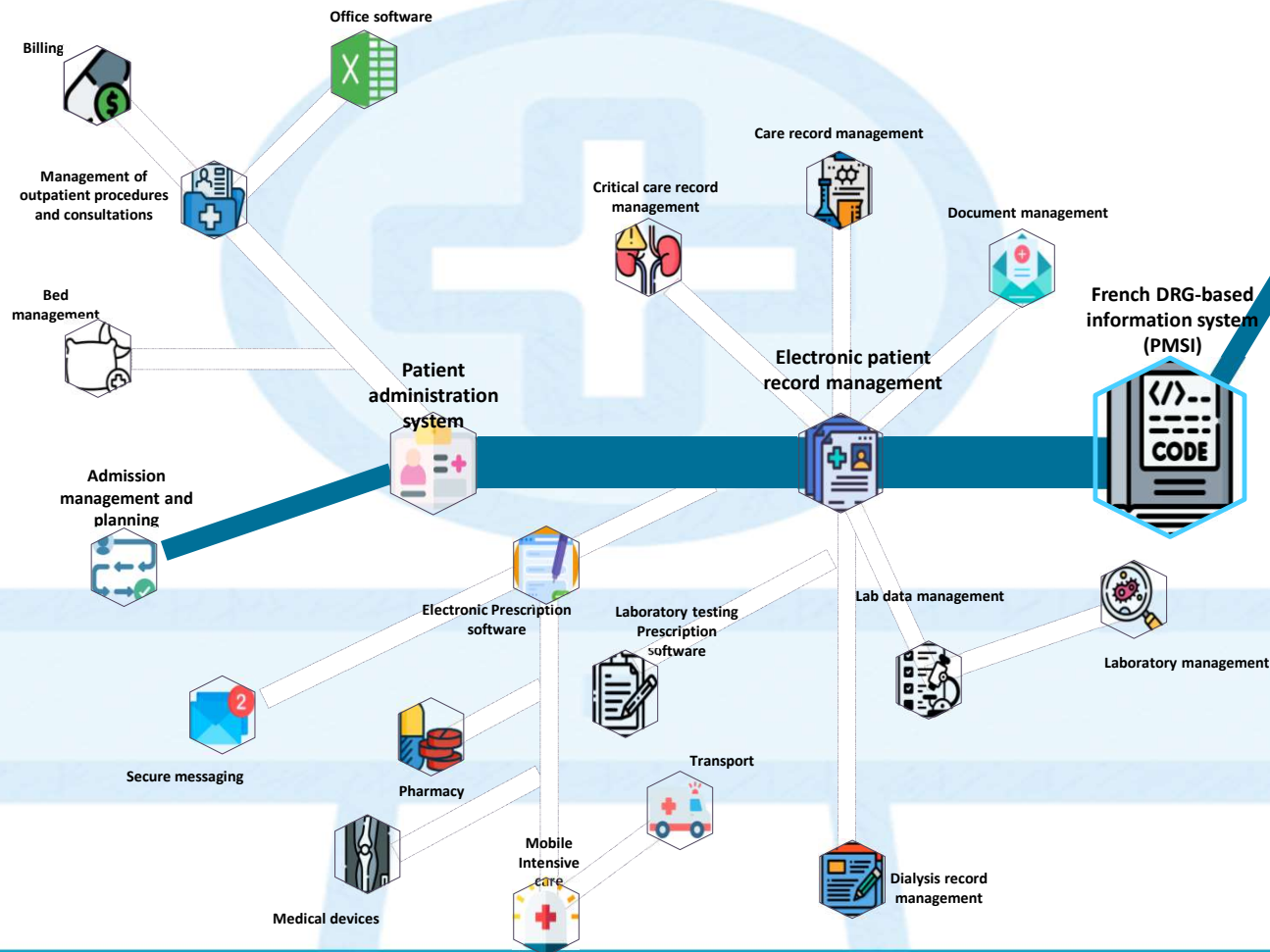
Requests for Health Data VS.

Hospitals Information Systems' **capacity** to produce them

Entering health information involves using numerous software programs, rarely interconnected

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Disconnected softwares

Highly interconnected softwares

How we conducted this work

2019-2021 : Initiating the state of the art

How can we characterize the difficulty of producing collections on the part of hospital facilities ?

How does the market work for software publishers involved in the production of health data collection ?

What directions can be proposed to improve the performance of the Healthcare Data production system in Hospitals ?

2021-2022

Proposals

- worked on by the project group : seminar and strategic committees
- and presented at the General Directorate for Healthcare Services at the Ministry of Health

We conducted a threefold study using quali and quanti methods

Production process study

- Dozen semi-guided field interviews with medical information teams
- Quantitative online survey of 1427 healthcare institutions conducted in January 2022.

Software editors study

- Six guided interviews with the most established or innovative publishers of health information systems (HIS)
- Quantitative analysis of the French national database on HIS software companies implemented in hospitals.

International study

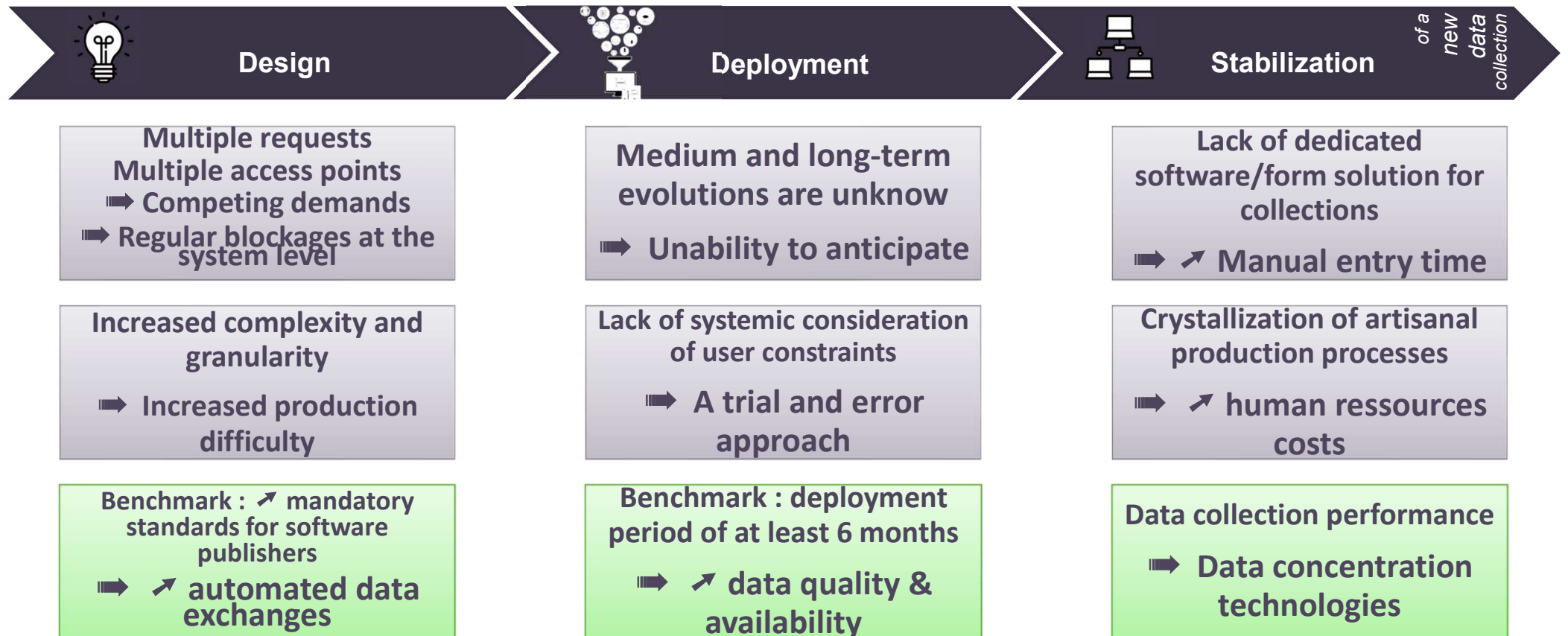
- 7 guided interviews with national and local organizations in three countries (Australia, Denmark, England).
- A report was provided and several cross-cutting workshops were organized at the ATIH to identify priority areas for action.

Current status of the Hospital Healthcare data production systems in France

And short-term issues



In summary : dysfunctions at all levels of the process and some good practices



The hospital information system and the software publishers' market

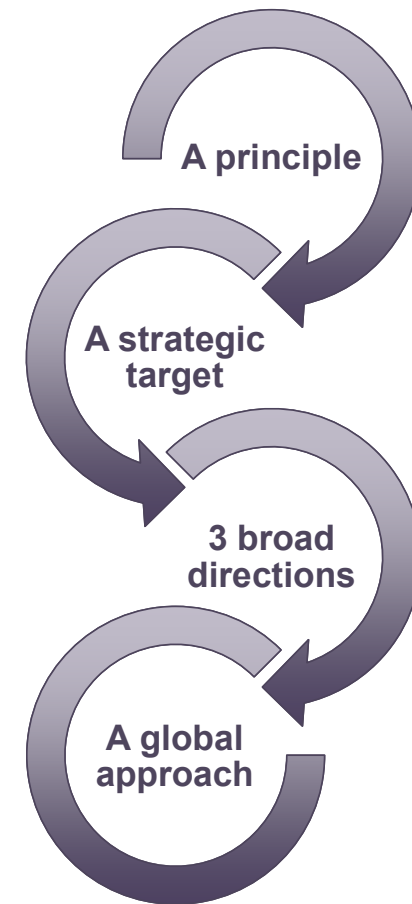
- A fragmented software publishers market
- A mosaic of publishers within the same institution
- On-premise implementation → local deployment of solutions, → complexity in managing versioning → compatibility issues
- Integration with the rest of the information system (IS) through a point-to-point approach in the absence of interoperability standards
- Multiple requests from different state agencies and a very short timeframe for implementation
- Permanent home-made solutions

The challenge arising for the French hospital discharge data collection in 2022

How can we continue to ask the Hospital for more medical information without any risk of blockage of the entire Hospital Health data production system ?

Data *serving* Health

Proposal to improve the efficiency of the health data production and collection system in hospitals



A principle

Information entered once for multiple uses



Massive reduction in the manual burden of collecting and entering information.

A strategic target (1)

Automation

of the

Collect

of

Hospital Health Data

Structured Information Systems

Standardized data
(conforming to standards)

Automated operations
(no human intervention)

Load reduction

- Capture
- Reprocessing

and the

Transmission

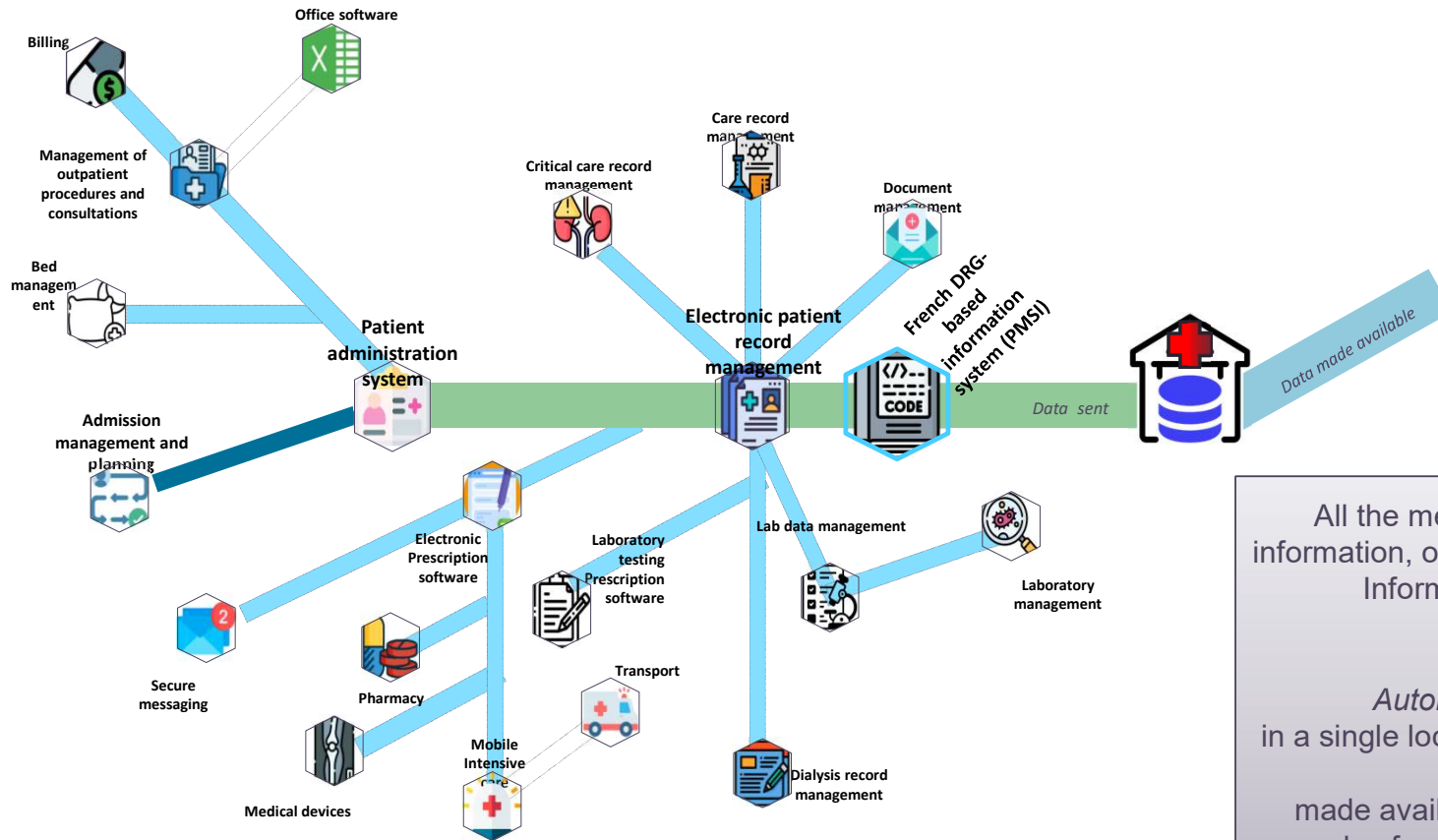
Availability

- Frequency
- Volume



Towards greater
 efficiency in the
 Hospital Health Data
 production system

A strategic target (2)



All the medico-administrative information, of interest, in the Hospital Information System is *Structured Organised Automatically stored* in a single location (data warehouse) and made available according to the needs of various health agencies.



Three broad directions



1

To clarify the requests for new Hospital Health Data collection for the benefit of the whole ecosystem

2

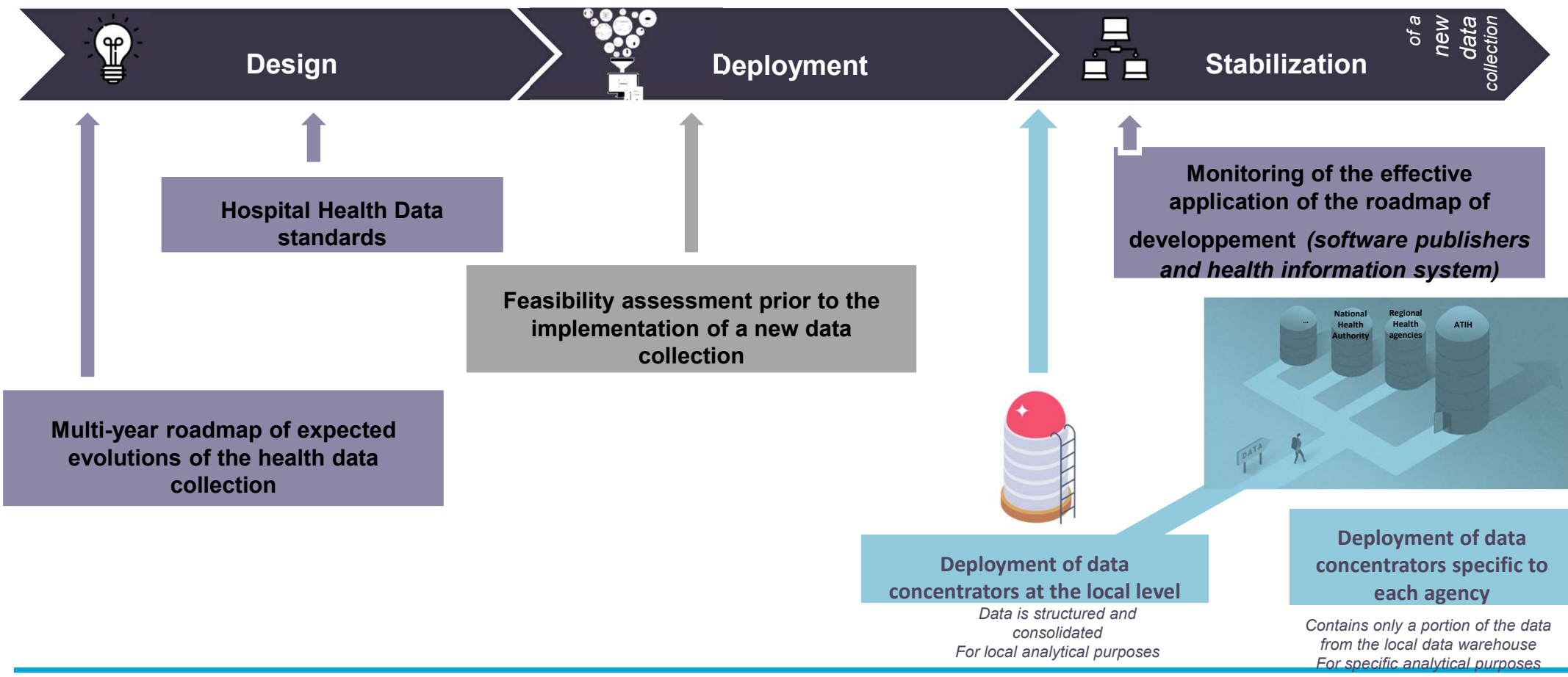
To set the framework allowing the ecosystem to anticipate and more effectively implement new data collections

3

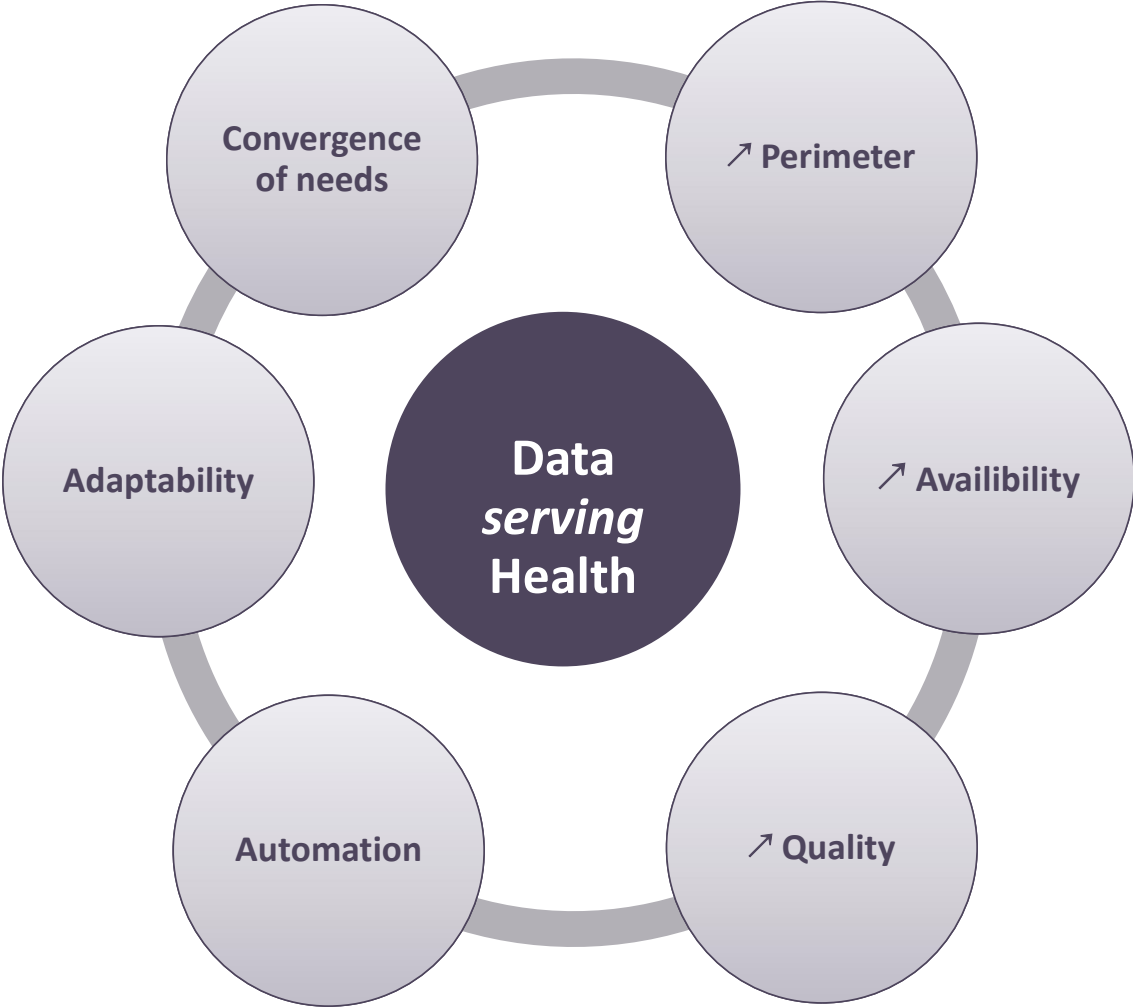
To improve the health data production performance of hospital facilities



An operational approach consisting of six main initiatives



Reduction of the
administrative
burden



Deployment of
innovative funding
models

**Agence technique de l'information
sur l'hospitalisation**

117, bd Marius Vivier Merle 69329 Lyon cedex 03

Téléphone : 04 37 91 33 10

Fax : 04 37 91 33 67

www.atih.sante.fr