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Project DMP

Presentation of the SMR (DMP):
The Shared Medical Record

12th September 2019

![DMP logo] **Sommaire**

Introduction about the SMR

(1)

Data security

(2)

Access regulation

(3)

Contents of the SMR

(4)

Integration of the SMR to professional software solutions

(5)

Use-cases

(6)

Main figures and objectives

(7)

Summary

(8)

Introduction about the SMR

(1)

The SMR: A digital health record booklet enshrined within the French legislation

In 2016, the national Parliament enacted a law providing every French citizen with a digital health record booklet called the SMR.

2016 : Law relating to the modernization of the healthcare system

Opt-In creation of the SMR:

The creation is based on the explicit consent of every patient

2021

Opt-Out creation of the SMR:

The creation is automatic, similar to what is done in Belgium, Canada and Australia

Why has France developed the SMR ?

To meet patients' need of information by setting up their medical file

2002 : Law relating to the rights of patients and the quality of the healthcare system

"Patients have the right to dispose of their medical file without having to consult a physician. Medical information is accessible on the internet."

To improve disease prevention and healthcare coordination

Patients dispose of all of their medical information, especially in case of emergencies or when they go on vacation.
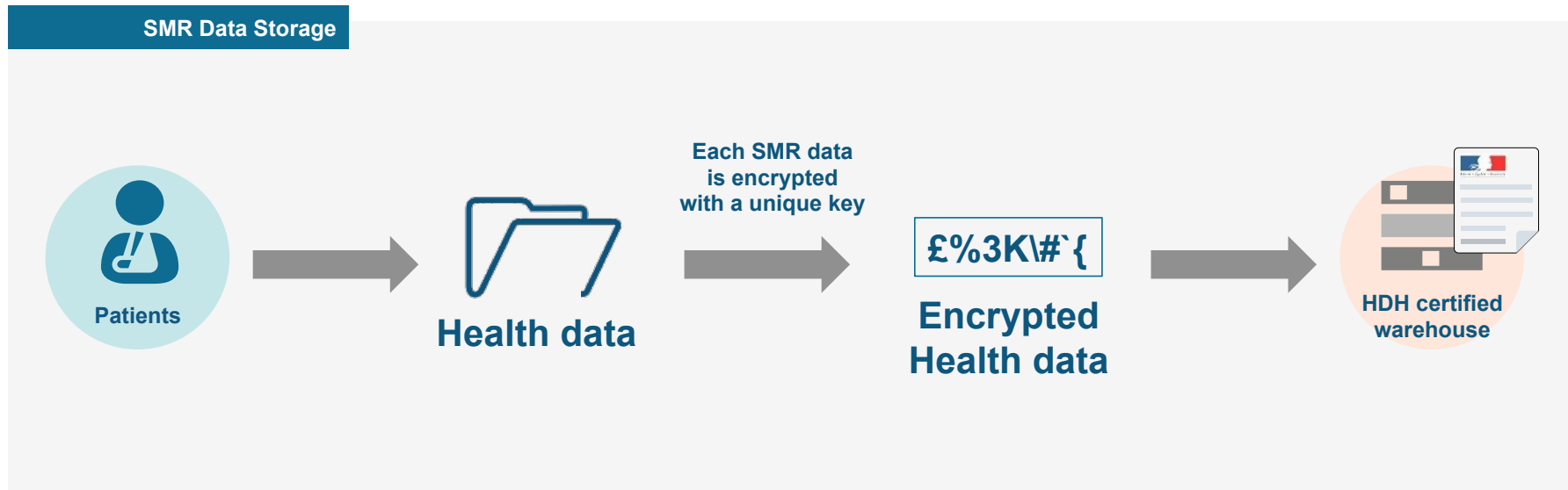
They can then, give access to their medical data to the new physicians they choose to consult.

L'Assurance Maladie

Data Security

2

The SMR: A highly secured service

SMR Data Storage

Patients → **Health data** → Each SMR data is encrypted with a unique key → **£%3K\#`{** **Encrypted Health data** → **HDH certified warehouse**

Data is stored in a **unique, centralized and secured warehouse**

The conditions of storage are **regulated by French law**:

► The GHISP (General Health Information Systems Policy) is in charge **of setting the standards for any warehouse** that whishes **to store health data**: The HDH (Health Data Host) standard

► The **HDH standard** is certified by the **Ministry of Health**

Access regulation

(**3**)

SMR Access Modalities: Restricted rights

Access to the SMR is limited to the patient and members of his medical care team. A strong two-factor authentication system has been put in place:

For the patient	For the medical team member *
User ID and Single-Use password	**Medical Professional Card (MPC) delivered by professional authorities**
+	**+**
One-time password (OTP)	**PIN number**

*The only medical practitioners able to access the SMR are those authorized by the patient.
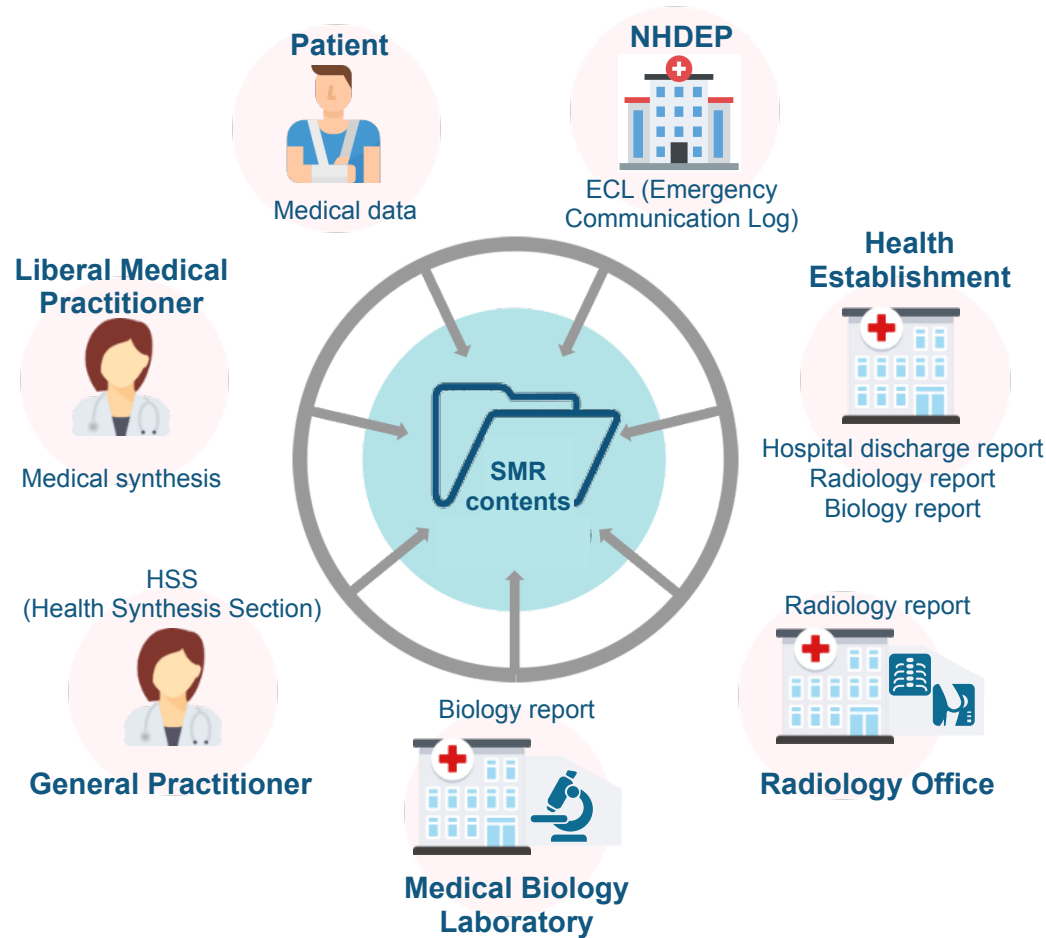
In light of these restrictions, it is impossible, for example, for the French Social Security System (Assurance Maladie) and/or private companies to access a patient's SMR data.
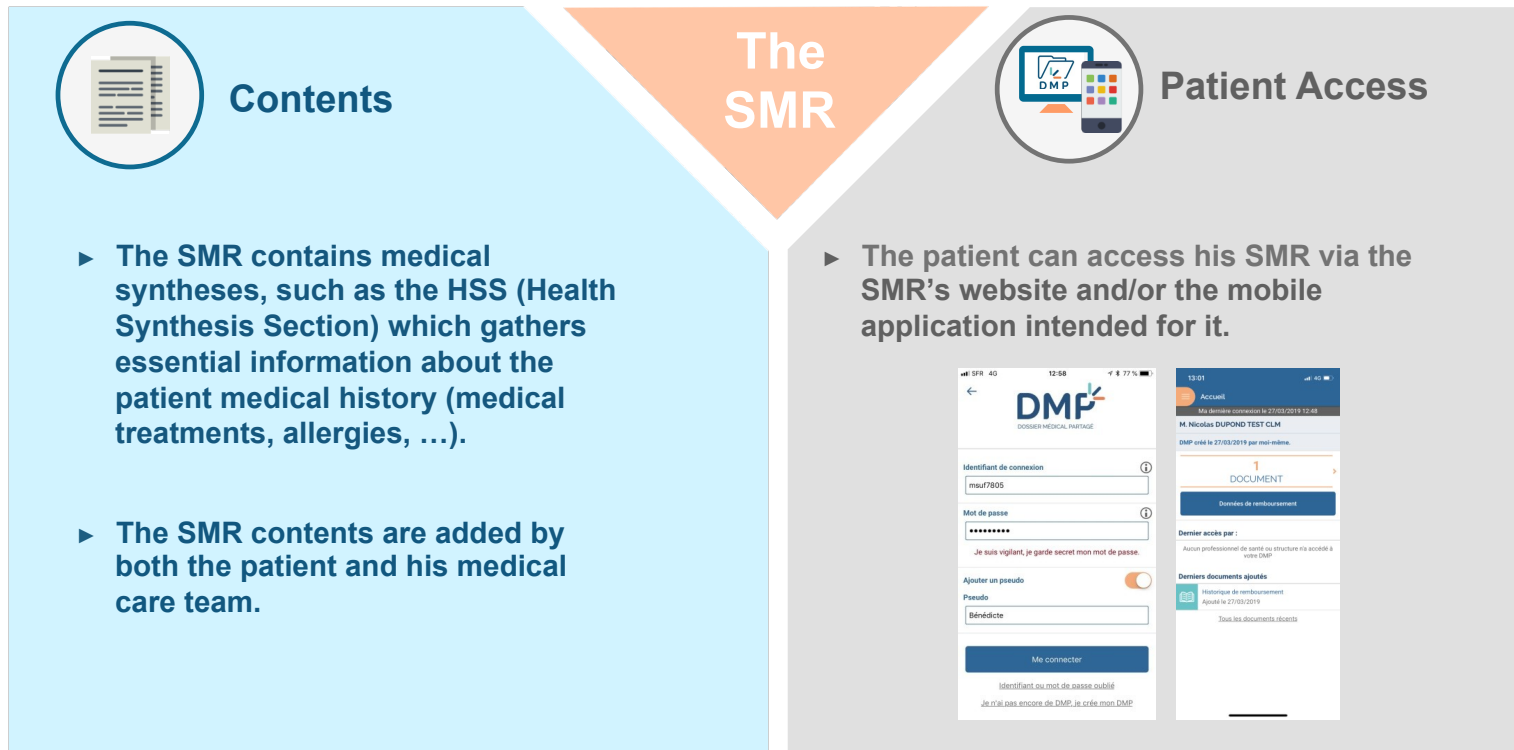
Contents of the SMR

(4)

The SMR: Filled by both the patient and his medical care team (1/2)

DMP

Patient
Medical data

NHDEP
ECL (Emergency Communication Log)

Liberal Medical Practitioner
Medical synthesis

Health Establishment
Hospital discharge report
Radiology report
Biology report

SMR contents

HSS
(Health Synthesis Section)

General Practitioner

Biology report

Radiology report

Medical Biology Laboratory

Radiology Office

▶ **The SMR contents is added by the patient, medical practitioners, health establishments and social medical institutions**

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The SMR: Filled by both the patient and his medical care team (2/2)

Contents

The SMR

Patient Access

► **The SMR contains medical syntheses, such as the HSS (Health Synthesis Section) which gathers essential information about the patient medical history (medical treatments, allergies, …).**

► **The SMR contents are added by both the patient and his medical care team.**

► **The patient can access his SMR via the SMR's website and/or the mobile application intended for it.**

Integration of the SMR to professional software solutions

(5)

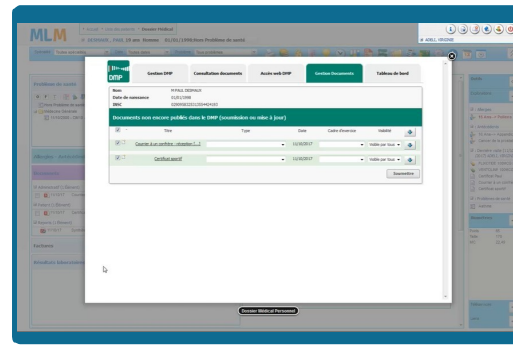# Integration of the SMR to professional software solutions

The integration of the SMR to professional software solutions is facilitated by the interoperability framework defined at the national level, by the French Agency of Digital Health. This framework is defined to enable all health software solutions to send and receive data from one another in regulated and predefined flows.
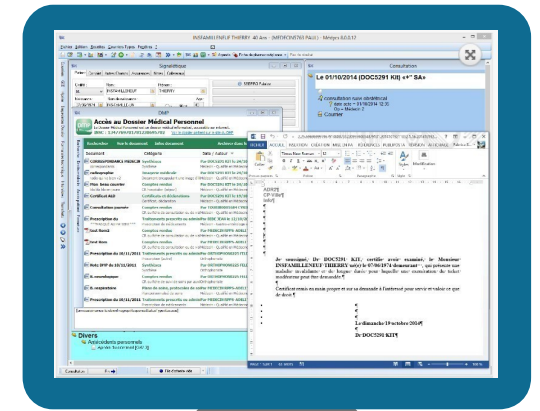

Simply Vitale
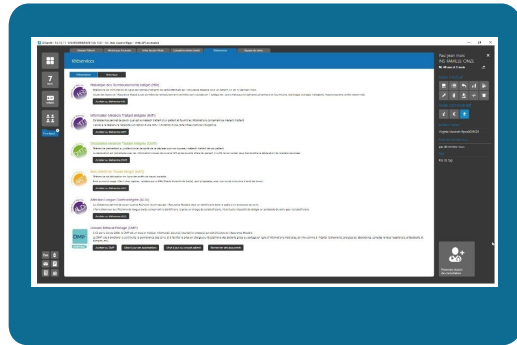
Dr Santé

MLM

MedyCS

A lot of workshops have been done in collaboration with software publishers in order to define the links between the SMR and the health professional software solutions.

Use-cases

6

Use-cases of the SMR by medical practitioners
Survey concerning the use-cases of medical practitioners consulting the SMR

Amongst the Medical Practitioners who consult SMR the most, we find that several use-cases are directly linked to the practice of the MP, but there is also one use-case resulting from a patient request.

❑ **6 use-cases linked to the practice of the MP:**

1 In case of an MP's imminent **retirement**
Case of a pediatrician: "The practitioner uses the SMR as he plans to retire [...] and whishes for all of his patients to have an updated SMR when they go consult a new practitioner".

2 Within the scope of **telemedicine**
Case of a pediatrician: "The practitioner uses the SMR for telemedicine".

3 For the follow-up of **Patients at risk,** especially on their vacation place or in case of emergency
Case of a general practitioner: "The practitioner consults the SMR and adds the HSS document for patients suffering from serious conditions".

4 To consult documents **following the hospitalization** of a patient
Case of a general practitioner: "The practitioner consults the SMRs of hospitalized patients".

5 To secure the work of **anesthesiologists**
Case of an anesthesiologist : "I consult the SMR of each and every patient to check the information they gave me about the medication they are on. 37 % of patients forget information."

6 To **research information** about a patient
Case of a pediatrician: "The practitioner systematically consults the SMR when he has no information about a patient".
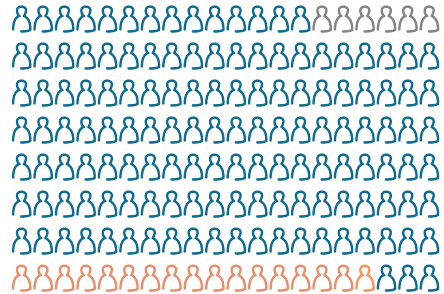
❑ **1 use-case of SMR consultation at the patient's request**
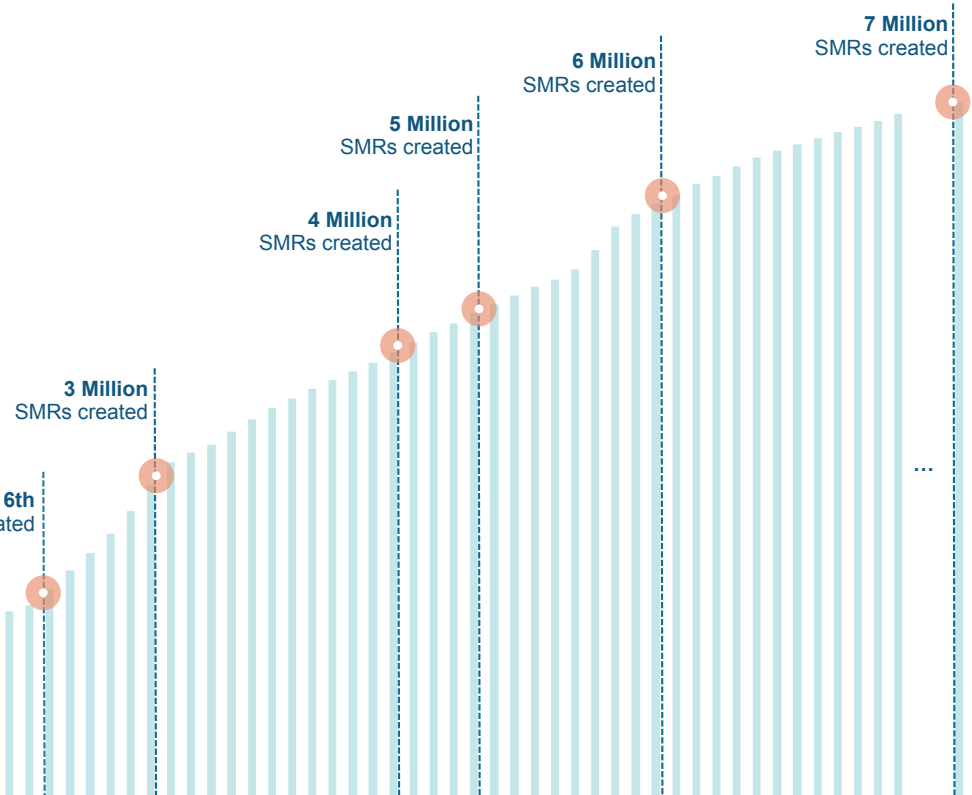
Main figures and objectives
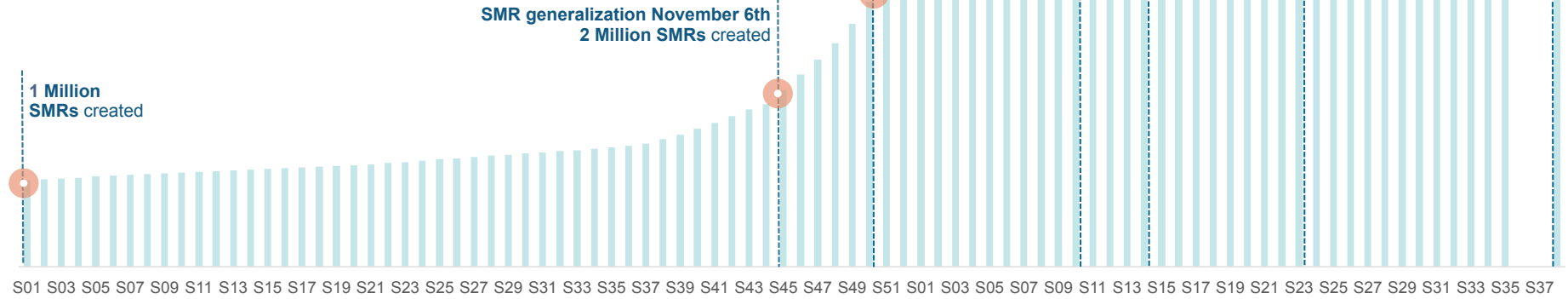
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Evolution of the accumulated created SMRs

Accumulated created SMRs summary:

	67 Million French Citizens	
	55-60 Million SMRs: 2020 objective with Opt-Out	
	7 Million SMRs created on the 15/09/19	

Accumulated created SMRs evolution:

7 Million SMRs created

6 Million SMRs created

5 Million SMRs created

4 Million SMRs created

3 Million SMRs created

SMR generalization November 6th
2 Million SMRs created

1 Million SMRs created

S01 S03 S05 S07 S09 S11 S13 S15 S17 S19 S21 S23 S25 S27 S29 S31 S33 S35 S37 S39 S41 S43 S45 S47 S49 S51 S01 S03 S05 S07 S09 S11 S13 S15 S17 S19 S21 S23 S25 S27 S29 S31 S33 S35 S37

January 1st 2018

September 1st 2019

September 15th 2019

SMR Activity of various medical professions

Summary of the SMR created and number of electronic records consultations performed by the various medical professions

Summary of the active SMR medical practitioners in comparison to the total population of practitioners within the territory

City Professions (Liberal Professions)	Number of independants practicing within the territory	From January 2016 to December 2016				From September 2018 to August 2019			
		Populating MP	%	Consulting MP	%	Populating MP	%	Consulting MP	%
General practitioner	52 641	383	0,7%	840	1,6%	10 996	20,9%	23 567	44,8%
Medical Specialist	54 555	35	0,1%	56	0,1%	1 629	3,0%	3 993	7,3%
Masseur-Physiotherapist	67 860	19	0,0%	39	0,1%	98	0,1%	1 126	1,7%
Nurses	93 206	33	0,0%	126	0,1%	132	0,1%	815	0,9%
Other professions	77 562	3	0,0%	11	0,0%	144	0,2%	1 130	1,5%
Medical Biology Laboratories	3 864	6	0,2%	5	0,1%	12	0,3%	10	0,3%
Dispensing pharmacies	21 510	1	0,0%	3	0,0%	542	2,5%	2 437	11,3%

SMR Activity of HE and NHDEP

15% of Health Establishments have performed at least one SMR record action

Summary of the active SMR Health and Social Medical Institutions

HE populating SMRs	From January 2016 to December 2016	From September 2018 to August 2019
Health Establishments (HE)	52	389
Nursing Homes for Dependant Elderly People (NHDEP)	186	296
Total	238	685

Summary

(8)

Summary

The French parliament enacted a law providing every French citizen with a digital health record booklet called the SMR « Shared Medical Record »

This SMR is **not mandatory**. The official holder of the SMR is the patient.

The SMR contains reports and syntheses added by the patient himself or by a member of his medical care team.

The objectives of the SMR are:
- **To allow the patient a better understanding of his medical information**
- **To offer the medical care team an easier access to the patient's medical file, in order to insure the coordination, continuity and quality of the needed medical care**

The implementation of the SMR is incorporated **within the framework of the Personal Data Regulating Law in France** ("Loi informatique et libertés"):
- **Centralized hosting of data**
- **Respect of the security rules** as defined by the General Health Information Systems Policy (GHISP), with a restricted access to data only to members of the medical care team, who have been approved by the patient himself.

Today, **7 million SMRs have been created**, with an objective of **55 to 60 million of SMRs by 2021**.

Thank you for your attention

LE DMP, LA MÉMOIRE DE VOTRE SANTÉ.