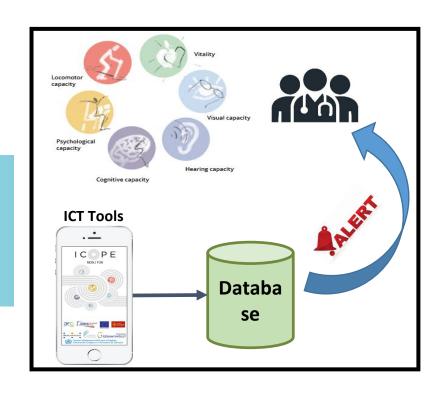






## Person-centered intervention: The ICOPE experience in France



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Coordinator of the Institute on Aging – Toulouse Gérontopôle

#### **Presentation Plan**

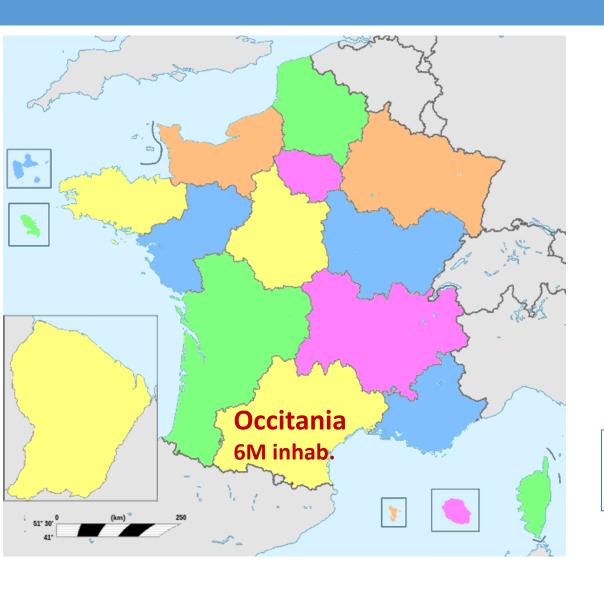
1. The idea and the ambition

2. The set up: digital infrastructure & tools

3. Preliminary data: the ICOPE screening part (Step 1)

4. Perspectives for the ICOPE implementation in France

#### 1. The idea and the ambition



# Implement in clinical practice the WHO ICOPE program in 200 000 subjects in 2025

**2020, May:** Start ICOPE digital health with ARS over Occitania (2 M€)

#### WHO ICOPE SCREENING TOOL

Priority conditions associated with declines in intrinsic capacity	Tests	Assess fully if any answer in each domain triggers this			
COGNITIVE DECLINE (Chapter 4)	1. Remember three words: flower, door, rice (for example)				
(Chapter 1)	2. Orientation in time and space: What is the full date today? Where are you now (home, clinic, etc)?	Wrong to either question or does not know			
	3. Recalls the three words?	Cannot recall all three words			
LIMITED MOBILITY (Chapter 5)	Chair rise test: Rise from chair five times without using arms.  Did the person complete five chair rises within 14 seconds?	No			
MALNUTRITION (Chapter 6)	1. Weight loss: Have you unintentionally lost more than 3 kg over the last three months?	Yes			
	2. Appetite loss: Have you experienced loss of appetite?	Yes			
VISUAL IMPAIRMENT (Chapter 7)	Do you have any problems with your eyes: difficulties in seeing far, reading, eye diseases or currently under medical treatment (e.g. diabetes, high blood pressure)?	Yes			
HEARING LOSS	Hears whispers (whisper test) <i>or</i>	Fail			
(Chapter 8)	Screening audiometry result is 35 dB or less <i>or</i> Passes automated app-based digits-in-noise test	Fall			
DEPRESSIVE SYMPTOMS (Chapter 9)	Over the past two weeks, have you been bothered by	Yes			
(Chapter 9)	<ul><li>feeling down, depressed or hopeless?</li><li>little interest or pleasure in doing things?</li></ul>	Yes			

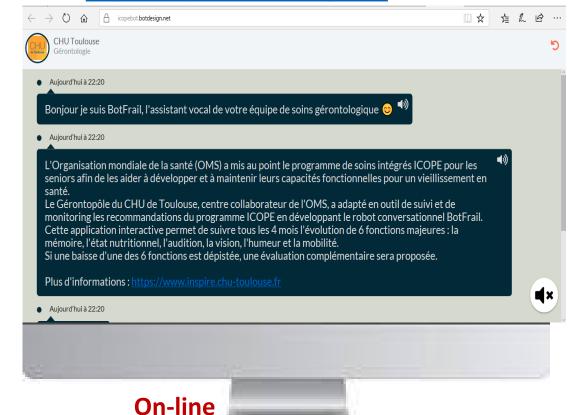
#### Overtime monitoring and self-assessments

Application mobile ICOPE MONITOR



Chatbot ICOPEBOT

https://icopebot.botdesign.net



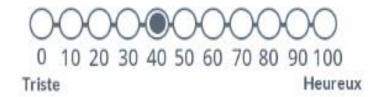
**SMARTPHONE** and **TABLETTE** 

COGNITIVE CAPACITY (S)			HEARING CAPACITY			
Do you have problems with memory or orientation (such as not knowing where one is or what day it is)?	YES 🛎 NO		Whisper test			
[if YES]Have you noticed any worsening of these disorders in the past 4 months or since the last evaluation?	YES 🛎	NO	Right Ear	YES	NO 🛎	
Orientation : What is the full date today?			Left Ear	YES	NO 🛎	
Year: AAAA Month: list from January to December	CORRECT	INCORRECT INCORRECT	Do you feel that your hearing has decreased in the past four months or since your last assessment?	YES 🖀	NO	
Day of the week : list from Monday to Sunday  Date : list from 1 to 31	CORRECT	INCORRECT INCORRECT	Do the people close to you complain about recent hearing loss?	YES 🖀	NO	
TOTAL  Recall of the three words	=4/4	< 4/4 ≧	How do you rate the quality of your hearing (with your hearing aids, if necessary) in the past month? Indicate / enter on the Value from 0 to 100		n 0 to 100	
WORD 1 WORD 2	CORRECT	INCORRECT INCORRECT	PSYCHOLOGICAL CAPACITY			
WORD 3 TOTAL	=3/3	INCORRECT < 3/3 ≧	Over the past two weeks, have you been bothered by:	YES 🖀	NO	
NUTRITION			Feeling down, depressed, or hopeless?			
Weight:Kg  Have you unintentionally lost more than 3 kgs over the last three months?	YES 🖀	- kgs NO	Little interest or pleasure indoing things?  How sad or happy have you felt in the past month?	YES 🛎	NO	
Have you experienced loss of appetite? How has your appetite been over the last month?	YES NO Indicate/enter on the scale the value that best suits you.		n 0 to 100			
Indicate / enter on the scale the value that best suits you.  Value from 0 to 100		LOCOMOTOR CAPACITY 5				
VISUAL CAPACITY			Have you performed the five chair raises?	YES	NO 🛎	
Do you have any problems with your eyes: difficulties in seeing far, reading, eye diseases or currently under medical treatment (e.g. diabetes, high blood presure)?	YES 🖺	NO	[If NO] How many chair raises have you performed?  [If zero] Would you be able to get up from a chair using		om 0 to 4	
Do you feel that your vision has decreased, with or without your glasses, in the past four months or since your last evaluation?	YES 🛎	NO	your arms but without assistance ?  [if YES] Did you do so in less than 14 seconds?	YES	NO 🛎	
How do you consider the quality of your vision (with your glasses if you wear glasses) in the past month? Indicate /enter on the scale the value that best suits you.	Value fro	m 0 to 100	Did you perform the assessments without assistance ?	YES	NO	

#### **PSYCHOLOGIE**

#### [Optionnel]

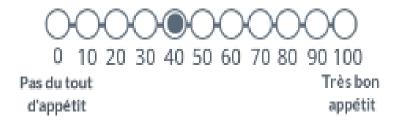
A quel point vous êtes vous senti triste ou heureux au cours du dernier mois ? Indiquer/pointer sur l'échelle la valeur qui vous correspond le mieux.



#### NUTRITION

#### [Optionnel]

Comment qualifiez-vous votre appétit au cours du dernier mois ? Indiquer/pointer sur l'échelle la valeur qui vous correspond le mieux.



#### MOBILITE

Cliquez sur « DEMARRER » et appuyez sur le bouton « STOP dès que vous avez terminé



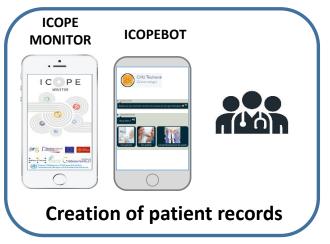
Avez-vous réalisé les 5 levers de chaise?

Oui	0



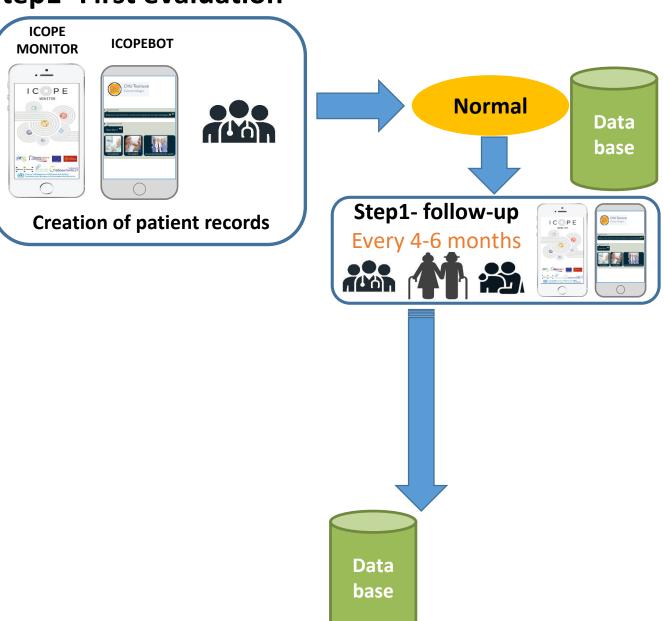
## Schemme of ICOPE implementation in France

**Step1- First evaluation** 

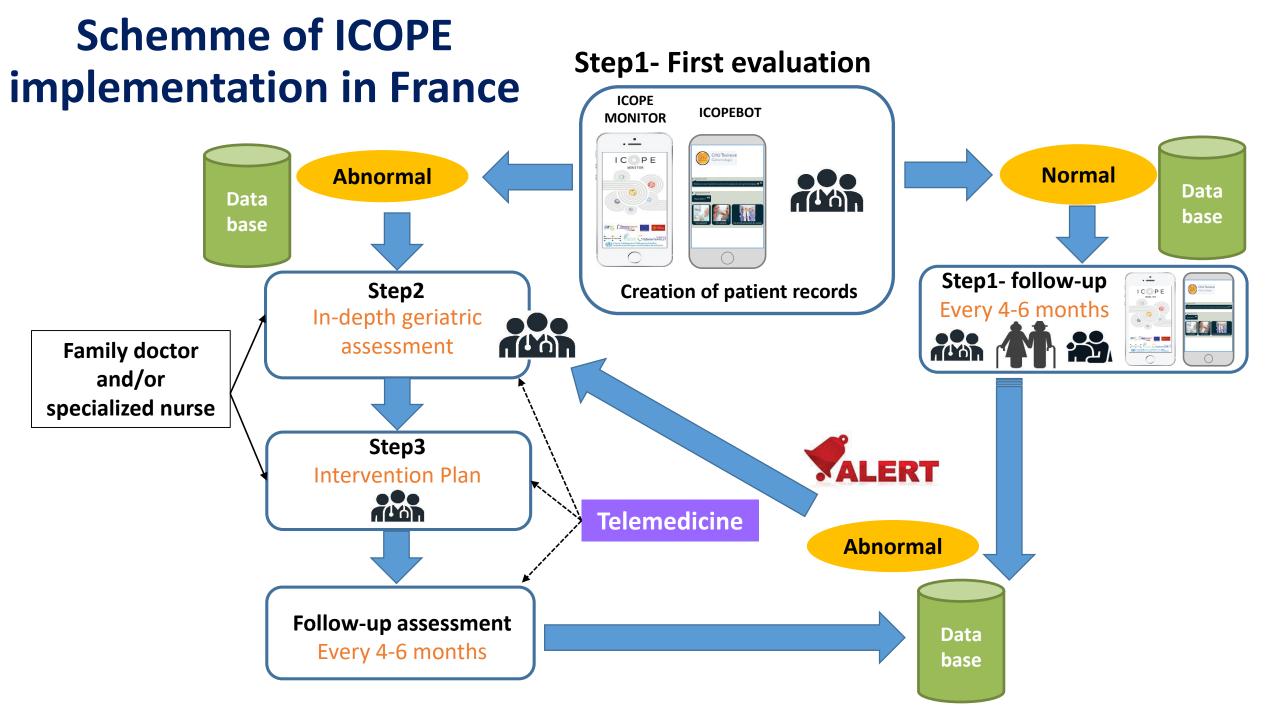


## Schemme of ICOPE implementation in France

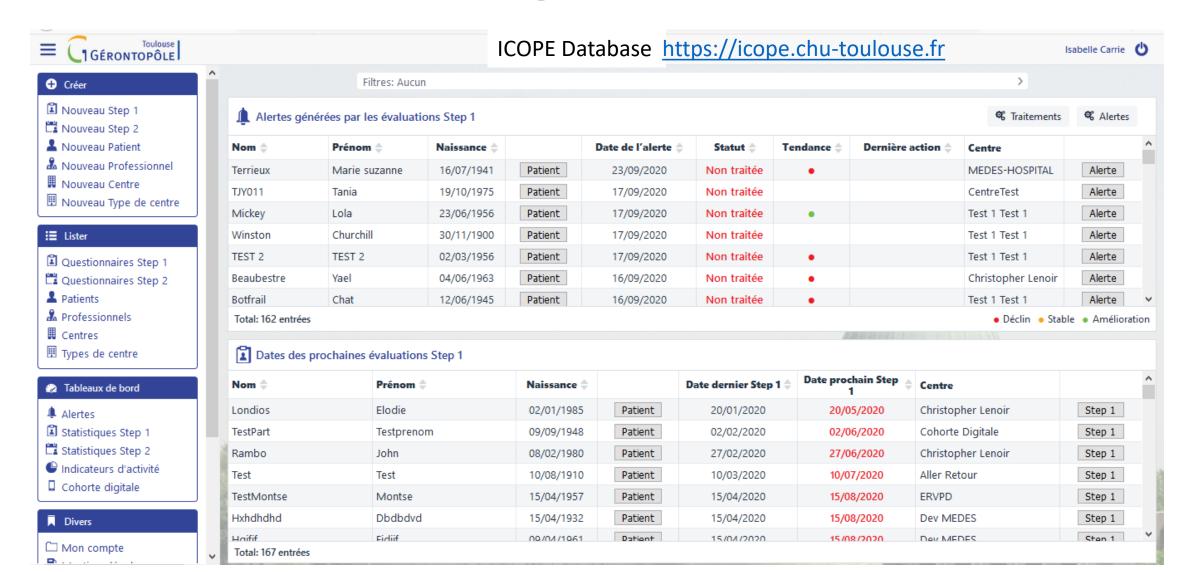
**Step1- First evaluation** 

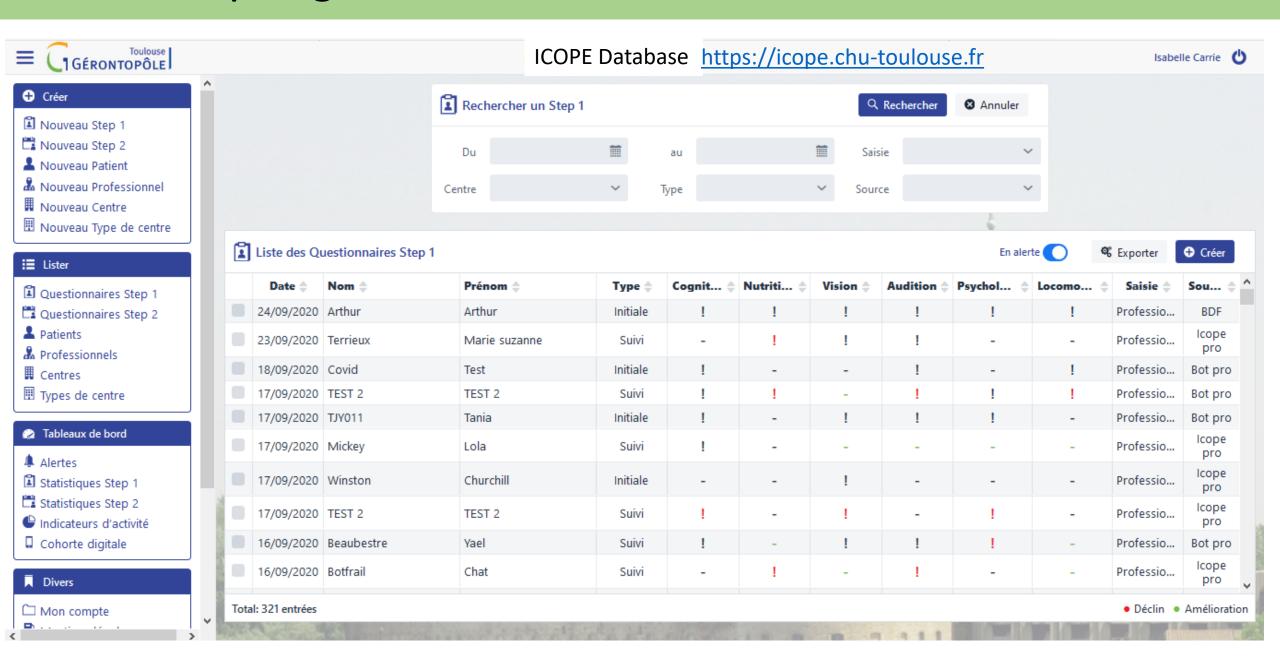


Schemme of ICOPE **Step1- First evaluation** implementation in France **ICOPE ICOPEBOT MONITOR** ICOPE Normal **Abnormal** Data MADI Data base base Step1- follow-up Step2 **Creation of patient records** I C 🔘 P E Every 4-6 months In-depth geriatric Waster State Control of the Control **Family doctor** assessment MODI and/or specialized nurse Step3 Intervention Plan (LO) Telemedicine Follow-up assessment Data Every 4-6 months base



#### **Handling Alerts**





### 3. Preliminary data: the ICOPE screening part (Step 1)

#### Implement ICOPE in Clinical Practice

- By October 2<sup>nd</sup>:
  - 3279 senior citizens are being followed using the ICOPE Monitor,
  - 887 health care professionals have downloaded ICOPE Monitor App
  - 1747 first patients analyzed:
    - 73.7 yrs, 61% women.
    - IC abnormalities
      - Only 6% have no IC abnormality
      - 18%: one
      - 52,5 %: 3 +
      - Most frequent Intrinsic capacities problems are:
        - vision (74%)
        - memory (58%)
        - hearing (48%)
        - psychological (36%)
        - mobility (33%)
        - nutrition (18%)

### 3. Preliminary data: the ICOPE screening part (Step 1)

#### Implement ICOPE in Clinical Practice: Follow-up

- ICOPE Step 1 Follow up at 4 months: N=298
  - 104 (34.9%) decline in IC detected
  - The most frequent declines are for:
    - Memory decline (28.9%),
    - Psychological function (24.5%),
    - Hearing (21%)
  - $\Rightarrow$  additional visits planned for 49 cases (16.4% of the 298 patients: clinically relevant )
- ICOPE Step 1 Follow up at 8 months: N=88
  - 25 (28.4%) have a decline
  - The most frequent alarms are for:
    - Memory: 11%
    - Vision: 9%
    - Psychological: 8%
  - Additional visits planned for 7 cases (8%)

### 3. Preliminary data: the ICOPE screening part (Step 1)

#### **ICOPE** self-assessment

- 172 subjects
- Mean age: 61.9 yrs, 56% women
- No IC abnormalities: 20%
- 80% at least one
  - Vision: 60%
  - Psychological: 37%
  - Memory: 35.5%
  - Hearing: 31.4%
  - Mobility: 16.9%
  - Nutrition: 9.3%

#### 4. Perspectives for the ICOPE implementation in France

#### CPAM (Social security) will send:

A letter to 16 000 nurses in Occitania

A letter to all Primary care Physician

A letter to all senior citizen aged + 70 yrs old

### 4. Perspectives for the ICOPE implementation in France

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#### **AMI ICOPE**

- Call French Ministry of Health and Social Security
- Objective: Building the procedures for adapting ICOPE to the French contexte based on the Toulouse Gerontopole experience
- Deadline: November 2020







## Person-centered intervention: The ICOPE experience in France

#### **Main collaborators from Toulouse Gerontopole**

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