

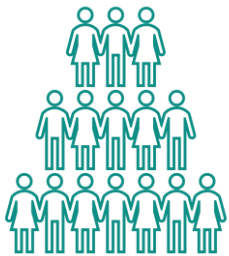
# THE USE OF SNOMED CT IN THE REGISTRY AND STANDARDIZATION OF ALLERGIES AND ADVERSE REACTIONS IN PORTUGAL



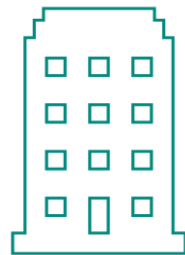
**SPMS**<sub>EPE</sub>  
Serviços Partilhados do Ministério da Saúde



# PORTUGUESE REALITY



**~10**  
MILLION  
CITIZENS



**54**  
PUBLIC  
HOSPITALS



**359**  
PRIMARY  
CARE UNITS



**90%**  
RUNNING SPMS ICT SOLUTIONS  
(ADT AND EHR)

# PORTUGUESE MINISTRY OF HEALTH



CLINICAL  
GUIDANCE

IT GOVERNANCE AND  
TECHNICAL  
IMPLEMENTATION

FINANCIAL  
RULER

**SHARED SERVICES**

**FOR MINISTRY OF HEALTH**

**(SPMS)**

SPMS

Serviços Partilhados do Ministério da Saúde

A SOLUÇÃO ESTÁ NA PARTILHA!

SPMS





## SHARED SERVICES FOR MINISTRY OF HEALTH (SPMS)

**SPMS** is a public enterprise created in 2010 (Decree-Law 19/2010 of 22 March), functioning under the guardianship of the Ministries of Health and Finance.

Its aim is to provide shared services to organisations operating specifically in the area of health, in order to “**centralise, optimise and rationalise**” the procurement of goods and services within the NHS – in the areas:

PURCHASING AND LOGISTIC

FINANTIAL SERVICES

INFORMATION AND  
COMMUNICATION SYSTEMS AND  
TECHNOLOGIES

HUMAN RESOURCES

TELEHEALTH



# SHARED SERVICES FOR MINISTRY OF HEALTH (SPMS)



**CCM SNS – Centro de Controlo e Monitorização do SNS - Maia**



**SPMS Porto**  
Datacenter and Information Systems



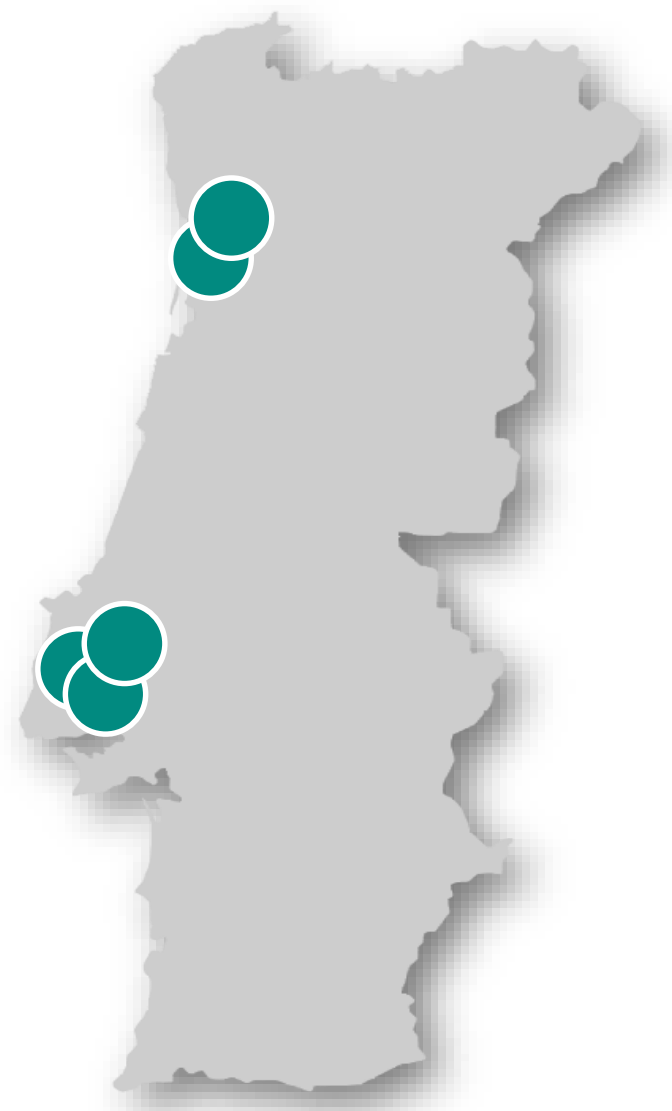
**SPMS Lisboa**  
Financial Services, Human Resources, Communication, Public Procurement, Information Systems



**Centro de Contacto do Serviço Nacional de Saúde | SNS24 - Lisboa**



**CYBERSPACE**  
[www.spms.min-saude.pt](http://www.spms.min-saude.pt)



# ALLERGIES



**~30-40%**

**PEOPLE IN THE  
WORLD**

**Affected by  
hypersensitivity diseases**



**>2**

**MILLION  
PEOPLE IN  
PORTUGAL**

**Have some form of allergy**



# PORTUGUESE CATALOG FOR ALLERGIES AND ADVERSE REACTIONS

Powered by **SNOMED CT**  
The global language of healthcare

CÓDIGO SNOMED CT	EN-FSN	EN-PT	PT-PT	SINÓNIMO 1	SINÓNIMO 2
735215001	Apple (substance)	Apple	Maçã	Maçã	-
11526002	Aspartame (substance)	Aspartame	Aspartame	Aspartamo	-
256319004	Carrot (substance)	Carrot	Cenoura	Cenoura	-
735248001	Cherry (substance)	Cherry	Cereja	Cerejas	-
102259006	Citrus fruit (substance)	Citrus fruit	Citrinos	Limão, lima, laranja	-
412357001	Corn (substance)	Corn	Milho	Amido de milho	-
264295007	Cow's milk protein (substance)	Cow's milk protein	Proteína do leite de vaca	Leite de vaca (proteína)	-
226760005	Dairy foods (substance)	Dairy foods	Laticínios	Leite e seus derivados	Leite, queijo e manteiga
406465008	Food allergen (substance)	Food allergen	Outro alimento	Outro alérgénio alimentar	-
303300008	Egg protein (substance)	Egg protein	Proteína do ovo	Proteína do ovo	-
735971005	Fish (substance)	Fish	Peixe	Peixe	-
59533004	Food additive (substance)	Food additive	Aditivos alimentares	Aditivos alimentares	-
736162008	Lobster (substance)	Lobster	Lagosta	Lagosta	-
418504009	Oats (substance)	Oats	Aveia	Aveia	-
736031006	Oyster (substance)	Oyster	Ostra	Ostras	-
792952008	Peanut (substance)	Peanut	Amendoim	Amendoins	-
226934003	Pork (substance)	Pork	Porco	Carne de Porco	-
735053000	Potato (substance)	Potato	Batata	Batatas	-
28647000	Meat (substance)	Meat	Carne	Carnes	-
412068007	Rye (substance)	Rye	Centeio	Centeio	-



# CPARA

**\*in production since 2012**





# PORTUGUESE CATALOG FOR ALLERGIES AND ADVERSE REACTIONS



Tipo	CÓDIGO SNOMED CT	EN-FSN	EN-PT	PT-PT	SINÓNIMO 1	SINÓNIMO 2	DESCRIÇÕES
Reaction Classification	414285001	Food allergy (finding)	Food allergy	Alergia alimentar	Alergia a alimento	-	Alergia alimentar é uma reação alérgica a um alimento ou substância usada na alimentação.
Food Allergenic	226760005	Dairy foods (substance)	Dairy foods	Laticínios	Leite e seus derivados	Leite, queijo e manteiga	
Adverse Reaction	39579001	Anaphylaxis (disorder)	Anaphylaxis	Anafilaxia	Reação anafilática	-	Anafilaxia é uma reação alérgica aguda e grave que começa subitamente, entre menos de um minuto e até algumas horas após a exposição a um alérgico, ao qual a pessoa desenvolveu hipersensibilidade, e que pode ser fatal.
Severity	24484000	Severe (severity modifier) (qualifier value)	Severe	Grave	Alto grau	Grave	Reação de hipersensibilidade aguda e potencialmente fatal.

1. Source of information;
2. Reaction Classification;
3. Food Allergenic;
4. Other Allergenic;
5. Adverse Reaction;
6. Severity;
7. Status;
8. Confirmation

# PORTUGUESE CLINICAL TERMINOLOGIES CENTER

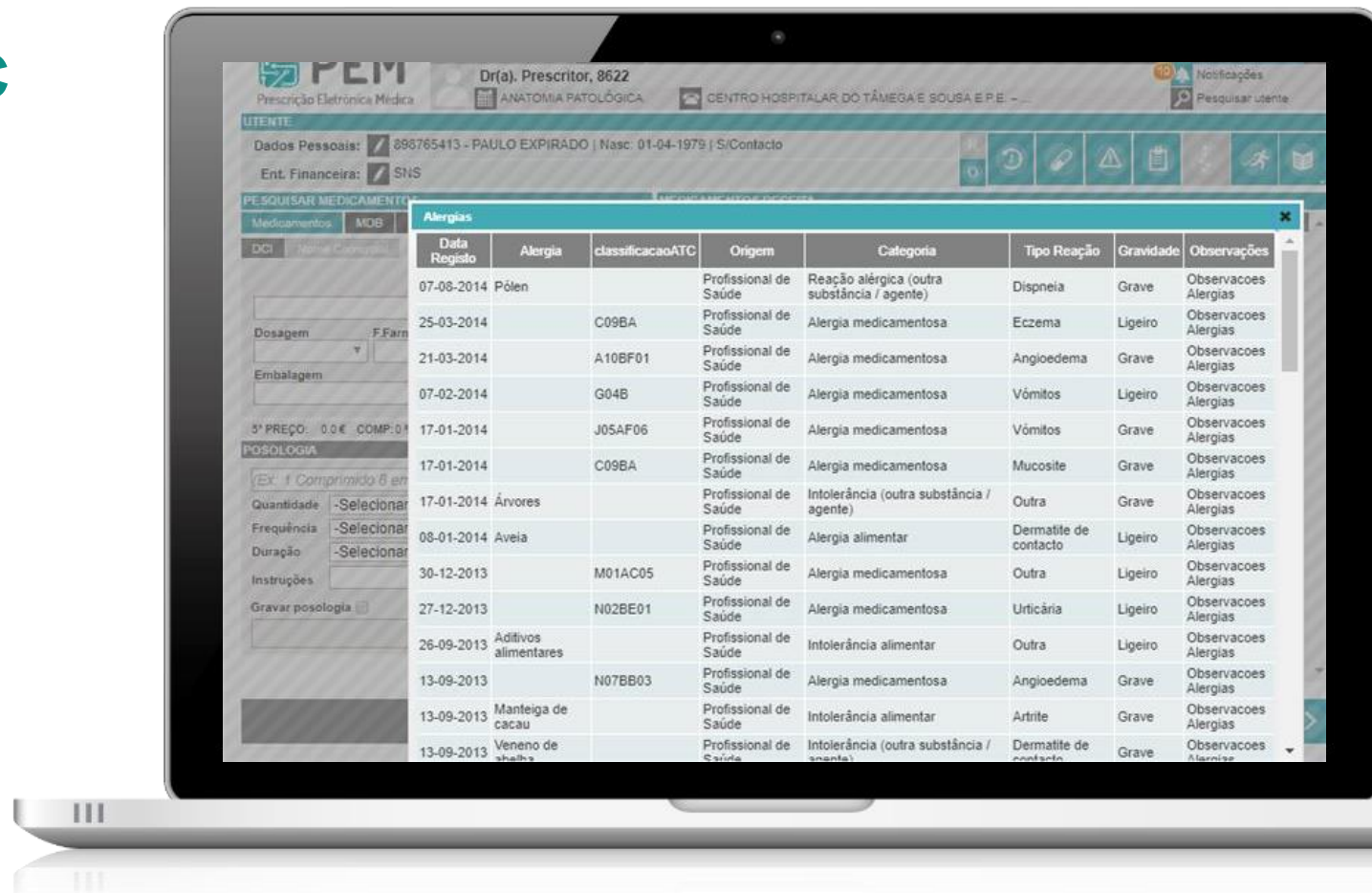




# PORTUGUESE PATIENT SUMMARY – ALLARMISTIC



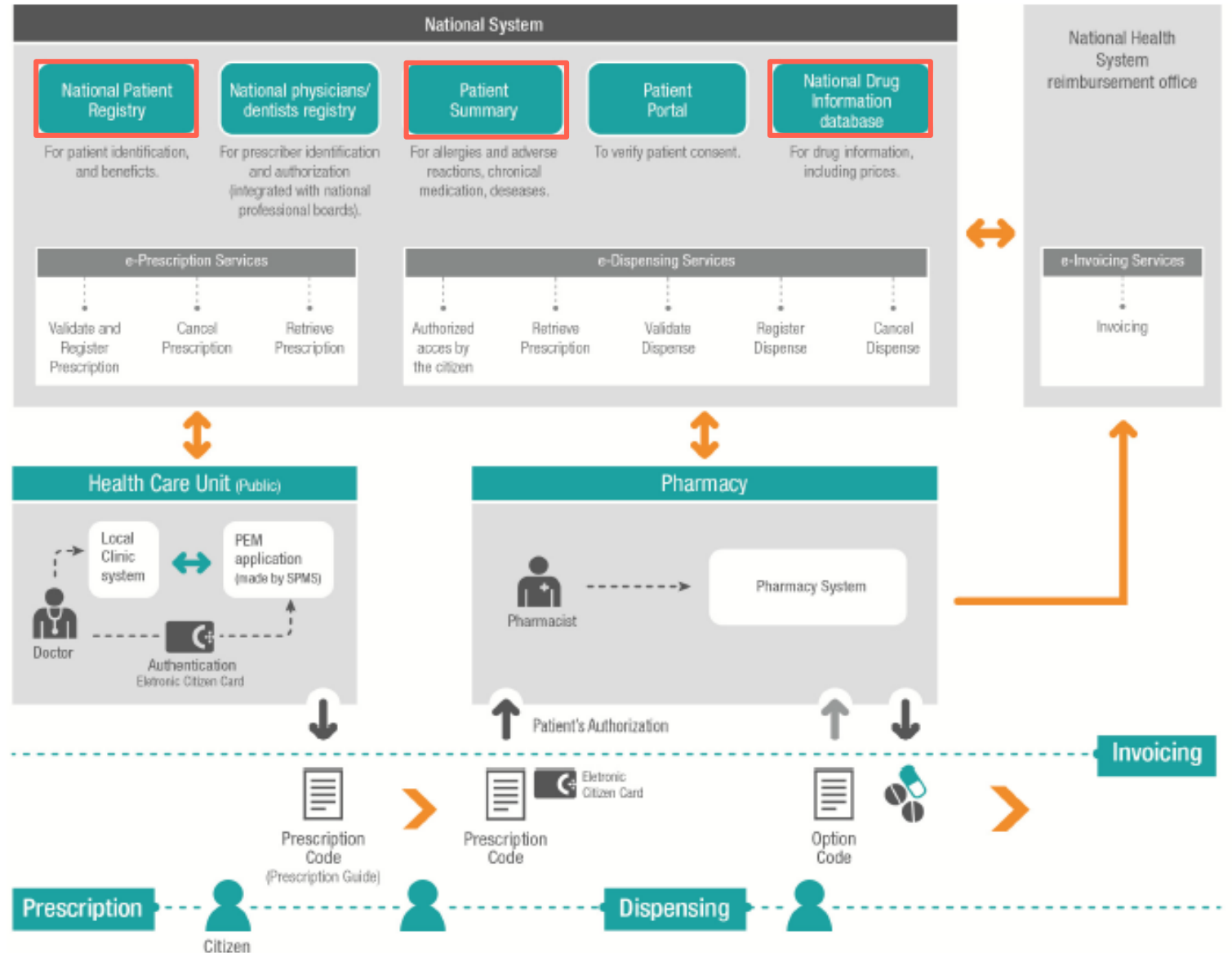
59 warnings related to patient's prior allergic reactions send out to doctors every day.



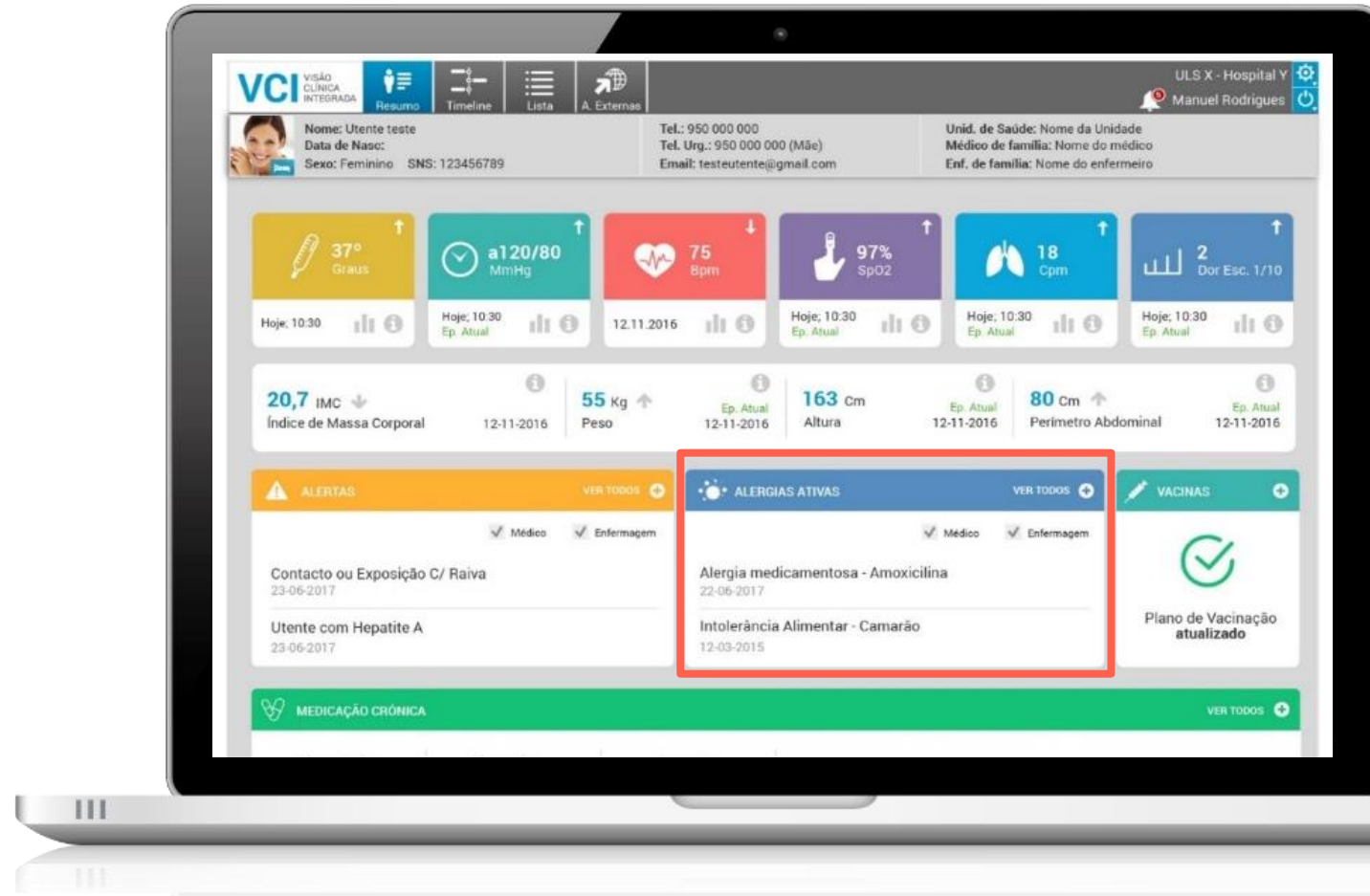
\*In 2019, there were on average 1760 warning per month from January to March.

# PORTUGUESE PATIENT SUMMARY

1. **Centralized and standardized record of allergies and adverse reactions**
2. **Centralized patient registry**
3. **Centralized institution's and medical prescriptions registries.**

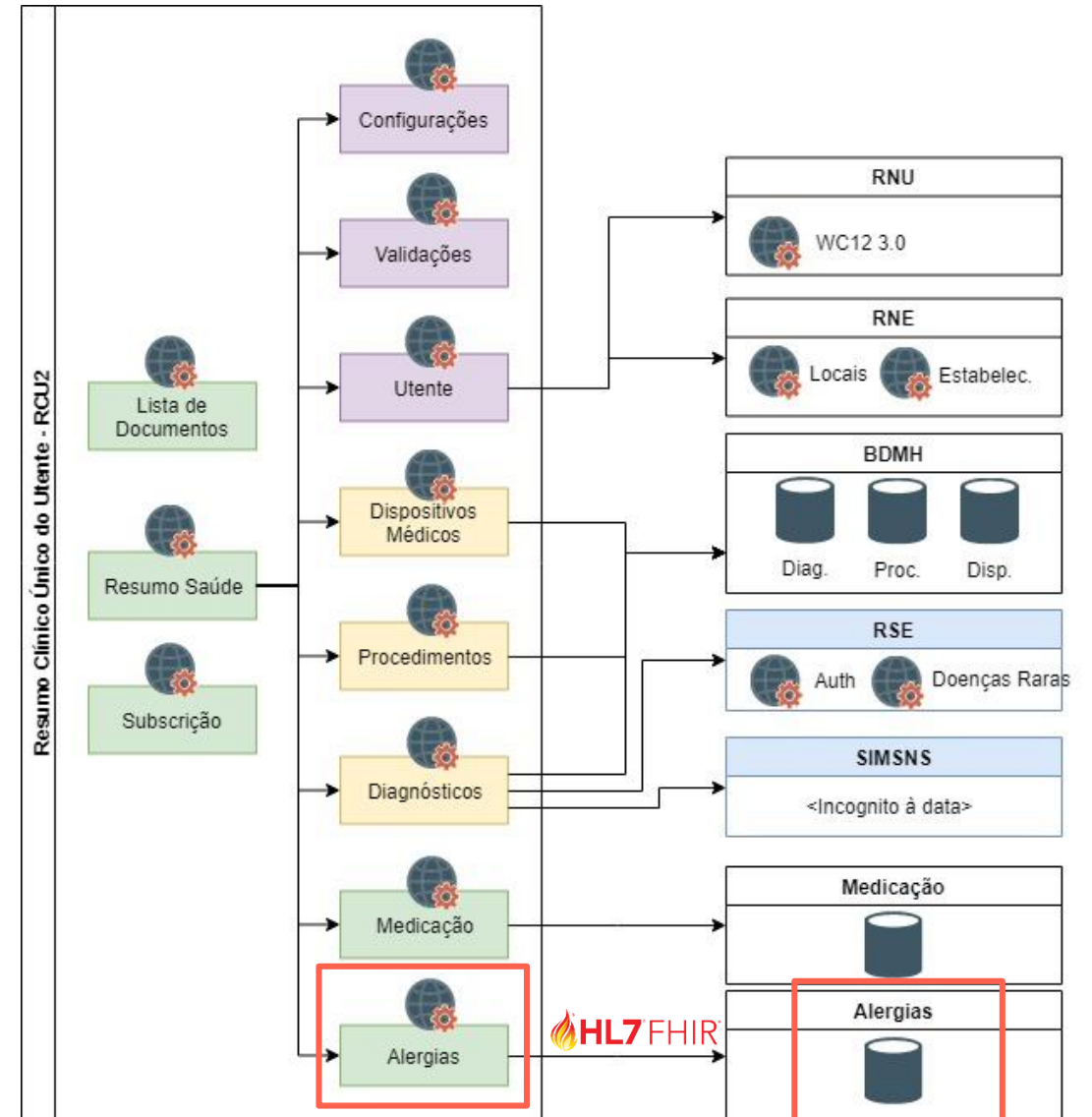
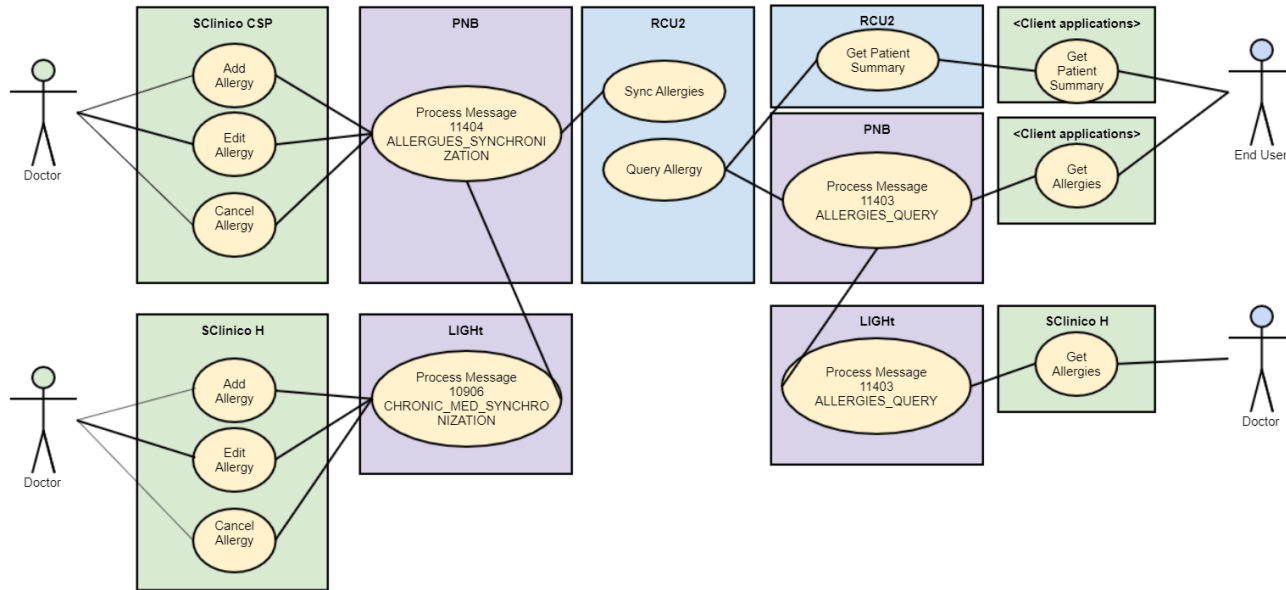


# PORTUGUESE PATIENT SUMMARY



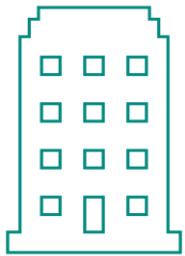


# PORTUGUESE PATIENT SUMMARY



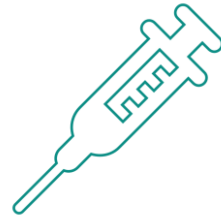


# PORTUGUESE PATIENT SUMMARY - ALLERGIES IN BIG NUMBERS



**93 759**

Allergies registered in  
Hospital settings



**2 531**

Cases of allergic  
reactions to broad  
spectrum penicillin



**1 200**

Allergic reactions  
triggered by mites



**729**

Allergic reactions due to  
polen

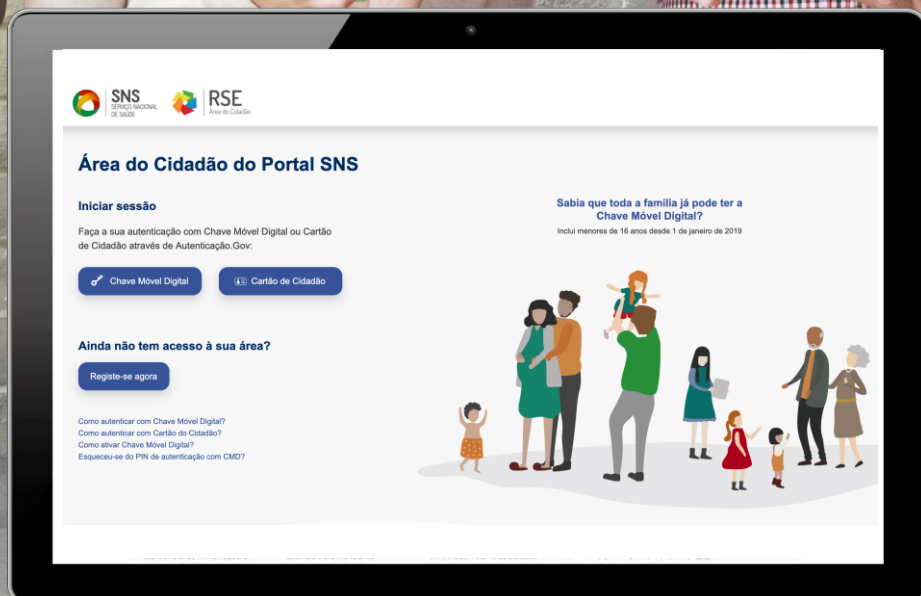
\*Information maintained in the Allergies Registry in Portugal is also made available to the public, anonymized, for research purposes.



# PATIENT AT THE CENTER



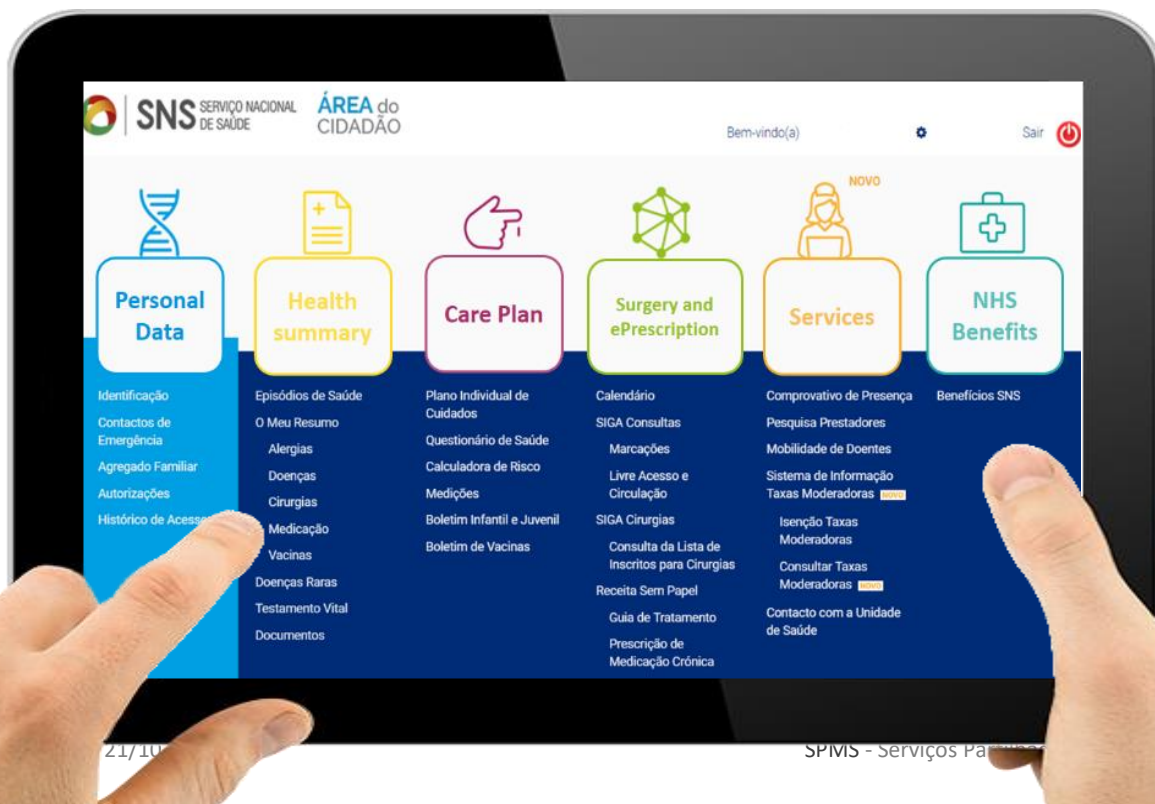




**2 240 256**

*users  
\*in october 2019*

# CITIZEN'S PORTAL IN NUMBERS



**371 549** eCitizens that check information on **NHS benefits**



**224 681** eCitizens that provided **Emergency Contact**



**28975** eCitizens that saved health habits in **Health Questionnaire**



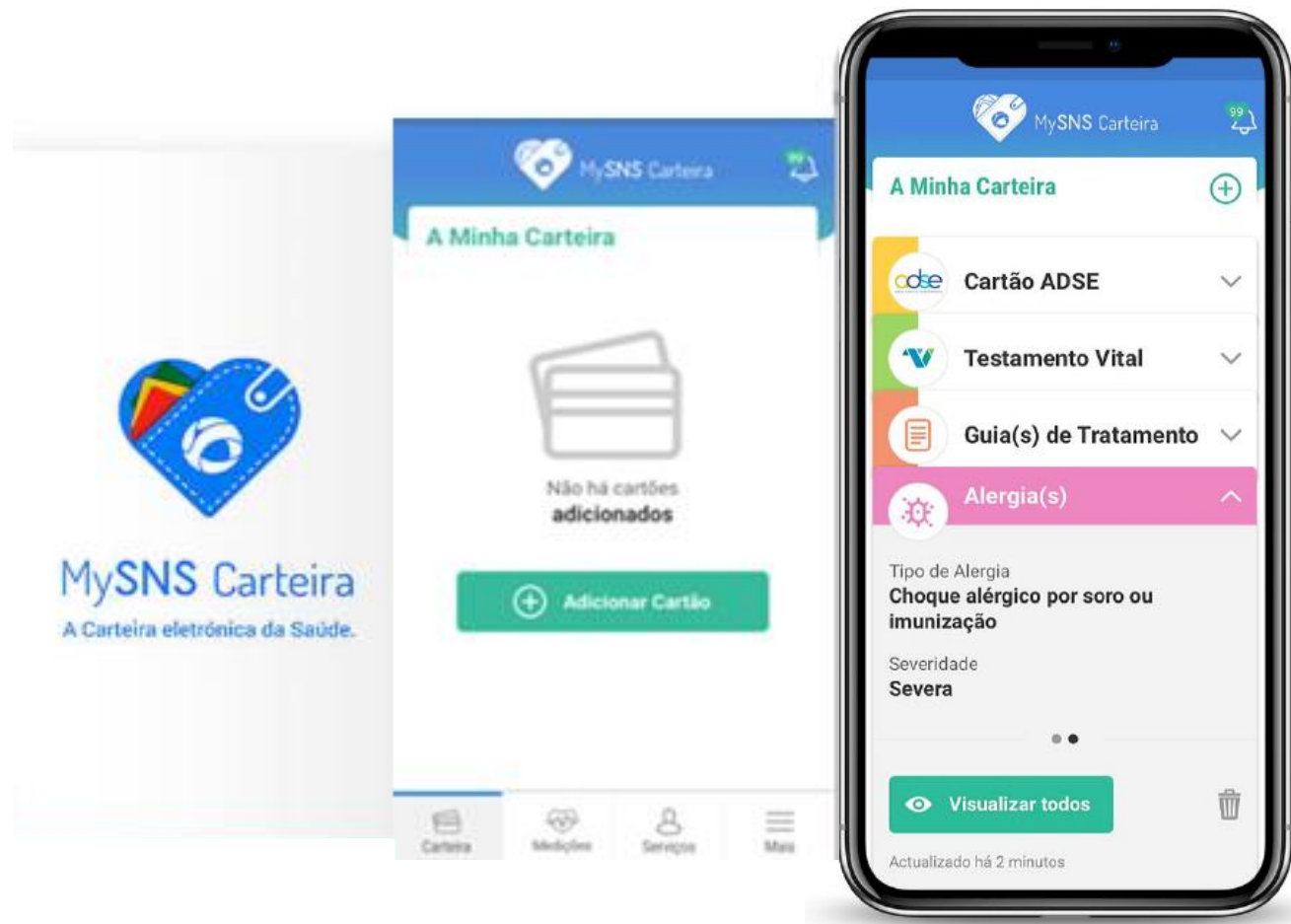
**11 073** eCitizens that have checked **Medical Exams Results**

\* data until 01.07.2019

# MyNHS WALLET



## ALLERGIES CARD

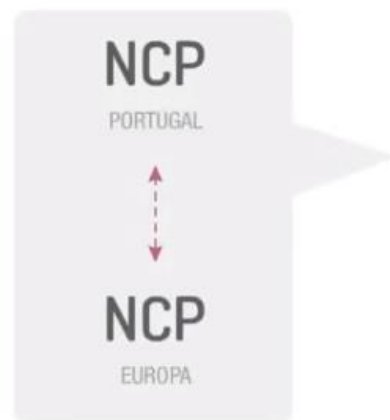




# PATIENT AT THE CENTER – Across Borders



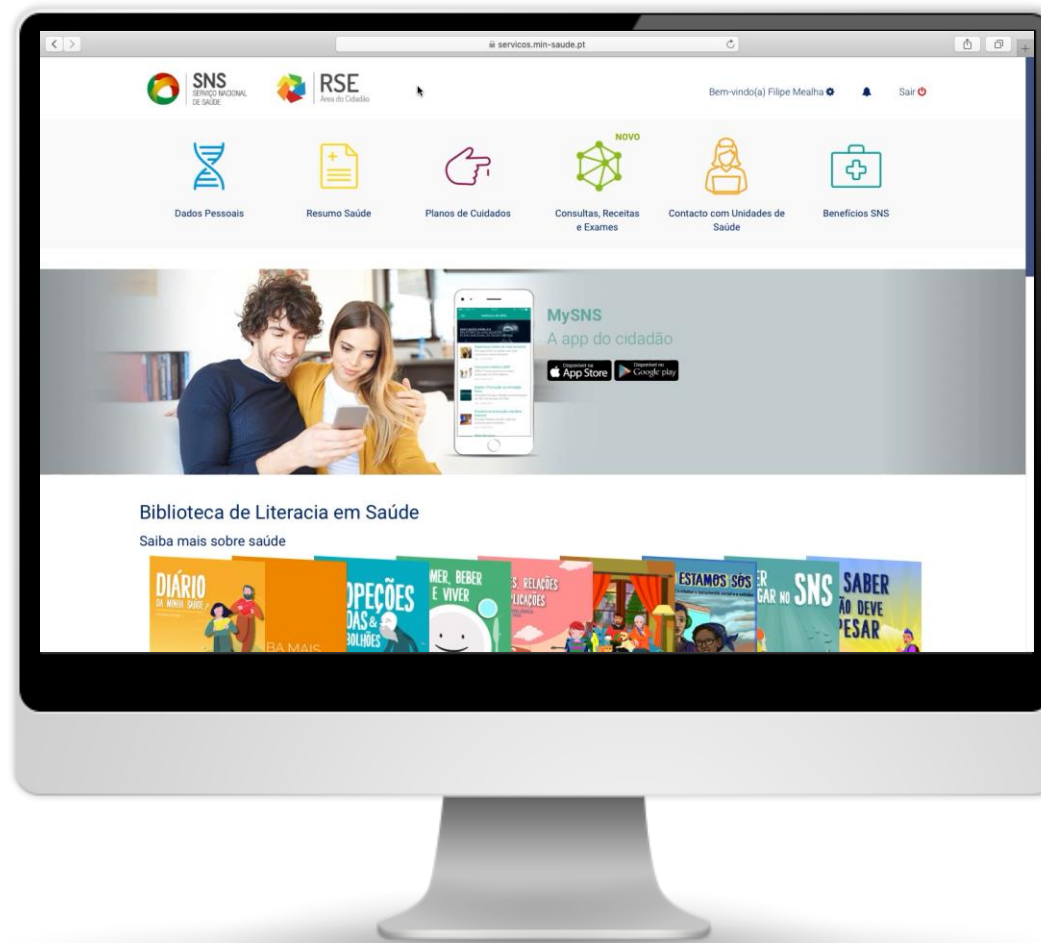
**National  
Contact  
Point  
for eHealth**



**By the end of 2019 Portugal will be able to share patient summary data crossborders**



# PUTING IT ALL TOGETHER



More Sharing, Better Health

**Thank You!**

Filipe.mealha@spms.min-saúde.pt



**SPMS**<sub>EPE</sub>  
Serviços Partilhados do Ministério da Saúde