

# eHealth for all

## Government's vision and strategy

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**Dr Hugo Agius Muscat MD MSc**

Information Management Unit

Ministry of Health, the Elderly & Community Care

[hugo.agius-muscat@gov.mt](mailto:hugo.agius-muscat@gov.mt)

**Ageing in the Digital Age – 16 Nov 2012**

# Health mainly concerns the elderly...

Admissions to Mater Dei, 2008-2012  
(by year of birth, based on ECS)



# What is eHealth, exactly?

In the Ministry's 2009-2013 eHealth Strategy a European Commission definition was used:

***The use of modern information and communication technologies to meet needs of citizens, patients, healthcare professionals, and healthcare providers, as well as policy makers.***

# “eHealth for all”

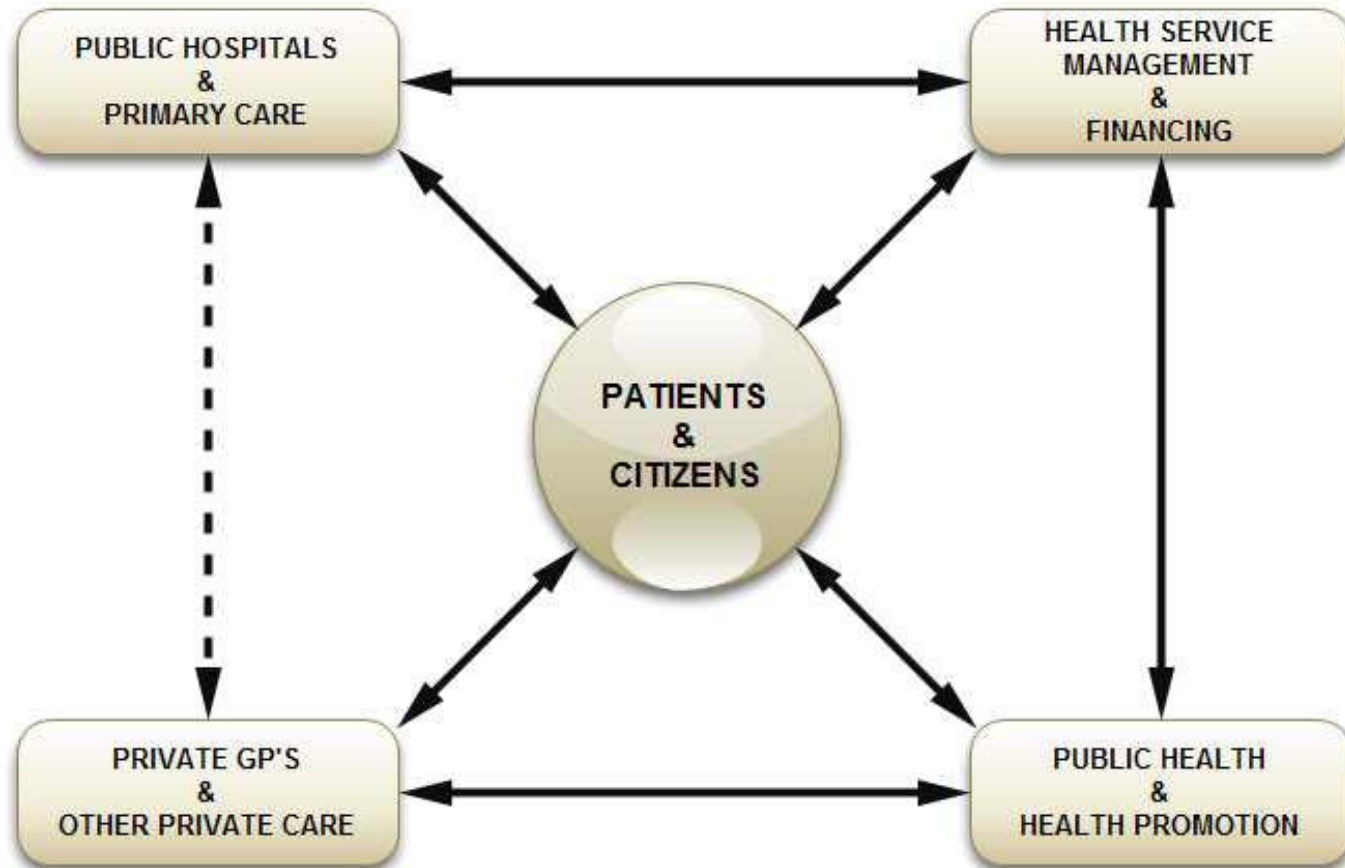
- The 2009-2013 eHealth Strategy is not age-differentiated, it caters for all
- By default it addresses the needs of the elderly more than the young
- Citizen-facing applications abide by Government standards that facilitate online access

# eHealth Vision

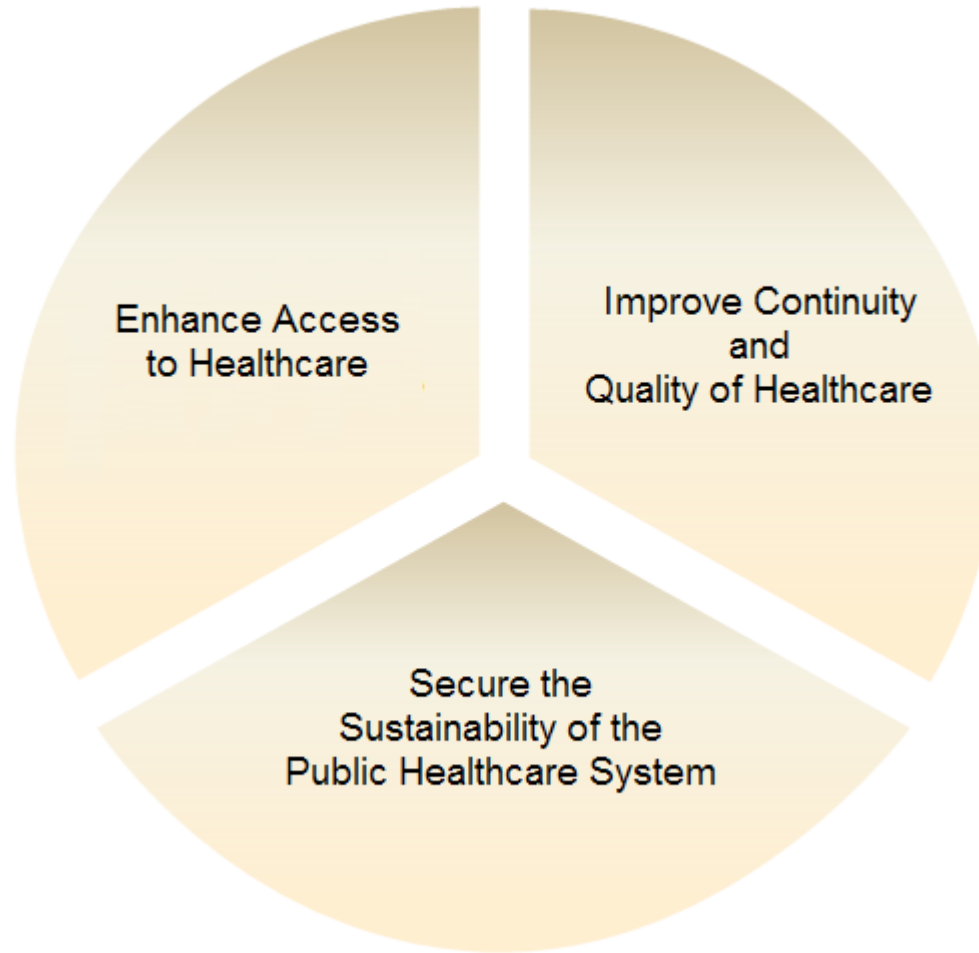
***To use ICT to attain an effective,  
integrated and sustainable healthcare  
system that is centred on the patient***

*(eHealth 2009-2013 Strategy document)*

# eHealth Vision



# eHealth Strategic Objectives 2009-2013



# eHealth Initiatives



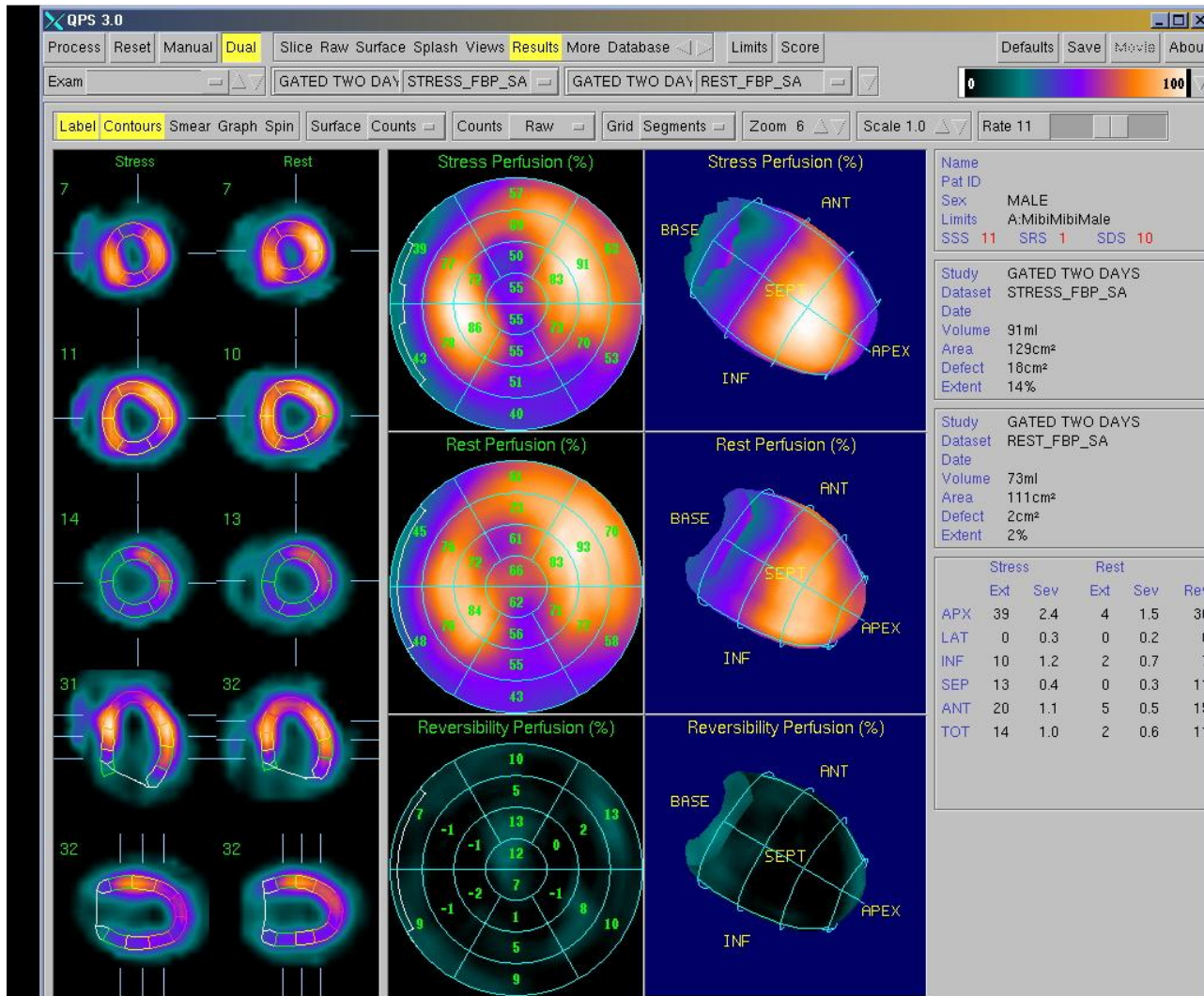


# eHealth Systems

## Integrated Health Information System

- This is the flagship suite of integrated patient-centric systems that are generating an **electronic health record** for Maltese patients
- Already includes patient administration, digital imaging, electronic test ordering and results across all Government hospitals & health centres

# Medical imaging



# Electronic ordering and results

**iSOFT Clinical Manager** File Edit View GoTo Actions Preferences Tools Help

61y Male

No Location

Patient List | Orders | Results | Patient Info | Summary

All results - Performed since 19-Jul-2007

Chart: All Available

Since: Received  Performed  19-07-2007

Start of This Chart: [Dropdown]

Retain for next patient

Result Selection: All  Display Category Headers  Abnormal  Show Pending

New Results...

Display Format: Report by Order  Graph Summary Trend View

Test Name	Value	Reference Range	Status	Notes
ALT (Serum)	19	[4-41 u/l]	Final	
Gamma Glutamyl Transferase (Serum)	44.6	[8-61 u/l]	Final	
Bilirubin (Serum)	17.00	[1.72-17.1 umol/l]	Final	
<b>04-Jun-2009 10:56 Lipid Profile (Serum) Acknowledged 1 or more Final Result/s Received</b>				
Cholesterol (Serum)	6.90 ↑	[2-5 mmol/l]	Final	
HDL Cholesterol (Serum)	1.46 ↑	[0.9-1.45 mmol/l]	Final	
Total:HDL Cholesterol Ratio (Calculated)	5		Final	
LDL Cholesterol (Calculated)	4.30 ↑	[0.1-3.88 mmol/l]	Final	
Triglyceride (Serum)	2.50 ↑	[0.1-2.26 mmol/l]	Final	
<b>04-Jun-2009 10:56 Renal Profile (Serum) Acknowledged 1 or more Final Result/s Received</b>				
Chloride (Serum)	100.2	[98-106 mmol/l]	Final	
Creatinine (Serum)	86	[59-104 umol/l]	Final	
Potassium (Serum)	4.36	[3.5-5.1 mmol/l]	Final	
Sodium (Serum)	140.6	[135-145 mmol/l]	Final	
Urea (Serum)	4.70	[1.7-8.3 mmol/l]	Final	
<b>04-Jun-2009 10:58 TSH and FT4 Acknowledged 1 or more Final Result/s Received</b>				
Free T4 (Serum)	20.60	[10.3-24.45 pmol/L]	Final	
Thyroid Stimulating Hormone (Serum)	1.800	[0.4-4 mIU/L]	Final	
<b>04-Jun-2009 10:58 Prostate Specific Antigen (Serum) Acknowledged 1 or more Final Result/s Received</b>				
Prostate Specific Antigen (Serum)	0.98	[0-4 ng/mL]	Final	
<b>05-Jan-2012 11:17 Glucose - Fasting (Plasma) 1 or more Final Result/s Received</b>				
Glucose - Fasting (Plasma)	5.46	[3.88-6.38 mmol/l]	Final	
<b>05-Jan-2012 11:17 Liver Profile (Serum) 1 or more Final Result/s Received</b>				
Alkaline Phosphatase (Serum)	73	[40-129 U/l]	Final	
ALT (Serum)	24	[5-41 U/l]	Final	
Gamma Glutamyl Transferase (Serum)	63 ↑	[8-61 U/l]	Final	

# eHealth Portal

**Health, the Elderly  
and Community  
Care**

home | ministry | contact | online services

Advanced Search



*“A society that fosters an environment that is conducive to persons attaining their maximum potential for **health and well-being**”*

Health Institutions | Health Promotion | Elderly | Public Health | Chief Medical Officer | Rehabilitation | Others

**+ Calendar of Events**

November 2012

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

**Pharmacy Of Your Choice**



**+ Alerts & Announcements**

- ⚠ **Warning**  
Notice by the Environmental Health Directorate
- 📢 **Announcement**  
Influenza Vaccine Campaign 2012
- 📌 **Blood Donation Mobile Unit**  
Sun 18-11-12, Donation Area @ GGH is going to be open. And Mobile Unit at Zebbug (Malta), near Parish Church
- 👤 **Avviz**  
Xoghlijiet Estensivi fic-Centru tas-Sahha tal-Mosta

**+ Latest News**

- 9 Ministry addresses conference "Normalising..."
- 8 Imniedi l-Programm dwar il-Jum Dinji tad-Dijabete
- 7 Periodic Report on the Activities undertaken by...
- 7 Stqarrija mill-Isptar Mater Dei
- 7 Stqarrija mis-Segretarjat

[View All Categories](#)

**Healthy Living**

It's never too late to change your habits, and start living a healthy lifestyle.

[Read More >>](#)

**Pharmacy Roster**

List of Community Pharmacies scheduled to open on Sundays and Public Holidays.

[Read More >>](#)

**myHealth**

Take control over your health and view your medical results online...

[Read More >>](#)

**Health Encyclopedia**

Get a better understanding of diseases, symptoms, injuries and surgeries.

[Read More >>](#)

# eHealth Portal: Reliable health information

## A.D.A.M Library

We have partnered with A.D.A.M. Inc., a leader in the consumer health information market, to offer Maltese citizens a tool towards trusted and reliable healthcare information.



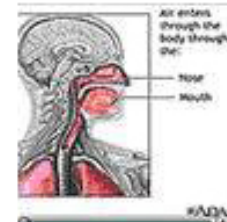
**YOU MAY ACCESS THE PATIENT ELECTRONIC LIBRARY BY CLICKING BELOW:**



**Illustrated  
Encyclopedia**



**Surgeries and Procedures**



**Animation Player**

**Children under the age of 16 are to be logged in and supervised by an adult when accessing content.**

**It is important that you do not rely solely on the information contained in this website.**

**If you suspect that you have a medical condition, please contact a licensed doctor and ask for professional advice.**

# eHealth Portal: Reliable health information

## Hip joint replacement



Procedure, part 2

A metal ball and stem are inserted in the femur and a plastic socket is placed in the enlarged pelvis cup



ADAM.

Next, the surgeon will:

- Put the new hip socket in place and insert the metal stem into your thighbone
- Check your hip's stability and place the correctly sized ball for the new joint
- Fix all the new parts in place, sometimes with a special cement
- Repair the muscles and tendons around the new joint
- Close the incision

A small drainage tube will be placed during surgery to help drain excess fluids from the joint area. A large dressing will cover to the hip area.

# eHealth Portal: Lifestyle support

## Healthy Recipes

- Recipes menu
- Chicken recipes
- Fish recipes
- Fruit recipes
- Pasta recipes
- Pulses recipes
- Salad recipes
- Soup recipes
- Vegetable recipes

## Nutrition

- Healthy Recipes
- Nutrition topics
- A healthy heart
- Controlling diabetes
- Water for life
- Controlling hypertension
- The importance of salads
- Fruit and vegetables
- A pinch of salt

## Healthy Recipes

### Recipes menu



Chicken recipes



Fish recipes



Fruit recipes



Pasta recipes



Pulses recipes



Salad recipes



Soup recipes



Vegetable recipes



Cook healthy stay healthy

# Online services (e.g. EHIC)



## European Health Insurance Card (EHIC)

Welcome

[Sign Out](#)

\* Indicates required field.

### Card Holder Details

ID No. *	<input type="text"/>
Name *	<input type="text"/>
Surname *	<input type="text"/>
Date of Birth *	<input type="text"/>
	dd-mm-yyyy
Email *	<input type="text"/>

### Mailing Address


Door No. *	<input type="text"/>
House Name	<input type="text"/>
Street *	<input type="text"/>
Locality *	<input type="text" value="-"/>
Post Code	<input type="text"/>
Telephone No. *	<input type="text"/>
Mobile No. *	<input type="text"/>



# myHealth Portal

myhealth



*myHealth Login* 

e-ID Number

Password

[Register for your e-ID](#)  
[Forgot your password?](#)

#### *The Three Steps to access myHealth*

- 1) Register for an e-ID (if you don't already have one). Please go to [this myGov link](#) for information.*
- 2) Subscribe to myHealth. Go to [mygov.mt](#), sign in with your e-ID, go to "Manage My Services", then "Subscribe to an eGovernment Service", then choose "Ministry of Health, the Elderly & Community Care" from the drop-down list and subscribe to MyHealth.*
- 3) Enter your e-ID number and password above.*

*For more help, please go to the [Help page](#)*

#### *myHealth: the Government of Malta's portal for online access to health records*

*Patients and the doctors they choose can access health data through this site. The system is being implemented in phases. So far, the following data is accessible:*

- 1) Mater Dei Hospital (MDH) Case Summaries (inpatient discharge letters from 2008 onwards).*
- 2) Current Pharmacy of your Choice medicines entitlement*
- 3) Lab results (Haematology, Biochemistry, Immunology, Toxicology) and medical image reports (from 2008 onwards); for patients to access this data it has to be released to them by the doctor/s they are linked to in myHealth.*
- 4) Appointments at Government Hospitals and Health Centres (polyclinics) (Launched on 4th October 2012)*

*Patients may approach one or more doctors through myHealth, to give the doctor/s access to their data and to access results and reports released to them by their doctors in myHealth.*

*Patients and doctors can also set up email notifications and SMS reminders for appointments.*

*The site is secured by the Government's electronic identity (e-ID) system, so the service is available to all those who have a Maltese e-ID and their e-ID delegates.*

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*"A society that fosters an environment that is conducive to persons attaining their maximum potential for health and well-being"*

# myHealth Portal

myhealth



Logout



*myHealth: the Government of Malta's portal for online access to health records*

*On the left side of this page you may access your own Electronic Case Summaries (prepared by doctors at Mater Dei Hospital) that you haven't previously read, see your current entitlement to medical items through the Pharmacy of your Choice (POYC) scheme, and see the names of the doctor/s you have allowed to have access to your myHealth data. From the menu on the right you may search for all your Case Summaries, see your current POYC entitlement, search for another doctor to whom to give access, and set up email notifications.*

## Jane Creek - Health Records

myCase Summaries

Search Previous Case Summaries ▶

myLaboratory Results

Search Previous Results ▶

myMedical Image Reports

Search Previous Results ▶

myDoctors



### Legend



Updated Results

## Search

myCase Summaries



myLaboratory Results



myMedical Image Reports



myPOYC entitlement



myDoctor



## Manage

myDoctors



myNotifications



# myHealth Portal



*myHealth: the Government of Malta's portal for online access to health records*

*Your current entitlement to medical items under the Pharmacy of your Choice (POYC) scheme is listed below.*

## Jane Creek - myPOYC entitlement

Medical Items	
Description	28 Day Entitlement
ALCOHOL SWABS	1
AMLODIPINE 5MG TABLETS	28
ASPIRIN 75MG EC TABLETS	28
BIPHASIC ISOPHANE INSULIN INJECTION - MIXTARD	1
BUMETANIDE 1MG TABLETS	56
GLIBENCLAMIDE 5MG TABLETS	28
INSULIN SYRINGES 1ML	10

## Search

- myCase Summaries
- myLaboratory Results
- myMedical Image Reports
- myPOYC entitlement
- myDoctor



# Is myHealth reaching older people?

Population aged 60+: **22%**

myHealth users who are 60+: **26%**

# How can myHealth reach more older people?

- Possession of e-ID is essential
- Personal attendance at Evans necessary for MHA to give e-ID; this can be a challenge for older people
- MDH has placed an office at the disposal of MHA for e-ID registration

# Already in the pipeline...

## Integrated Health Information System (Phase 2)

Includes several systems that will improve patient service: e.g.

- Pharmacy & Patient Medication Record (PMR) systems
- Primary Health Care (PHC) System

# Already in the pipeline... 2



- Interoperability of electronic health records between EU Member States
- Strong impetus to health data standardisation

# Thoughts for the future...

## ICT support for disease management

### Personal health records / data vault

- Accept automatic or manual input of patient's own data
- Automatically transfer data to intelligent systems to improve quality of primary care

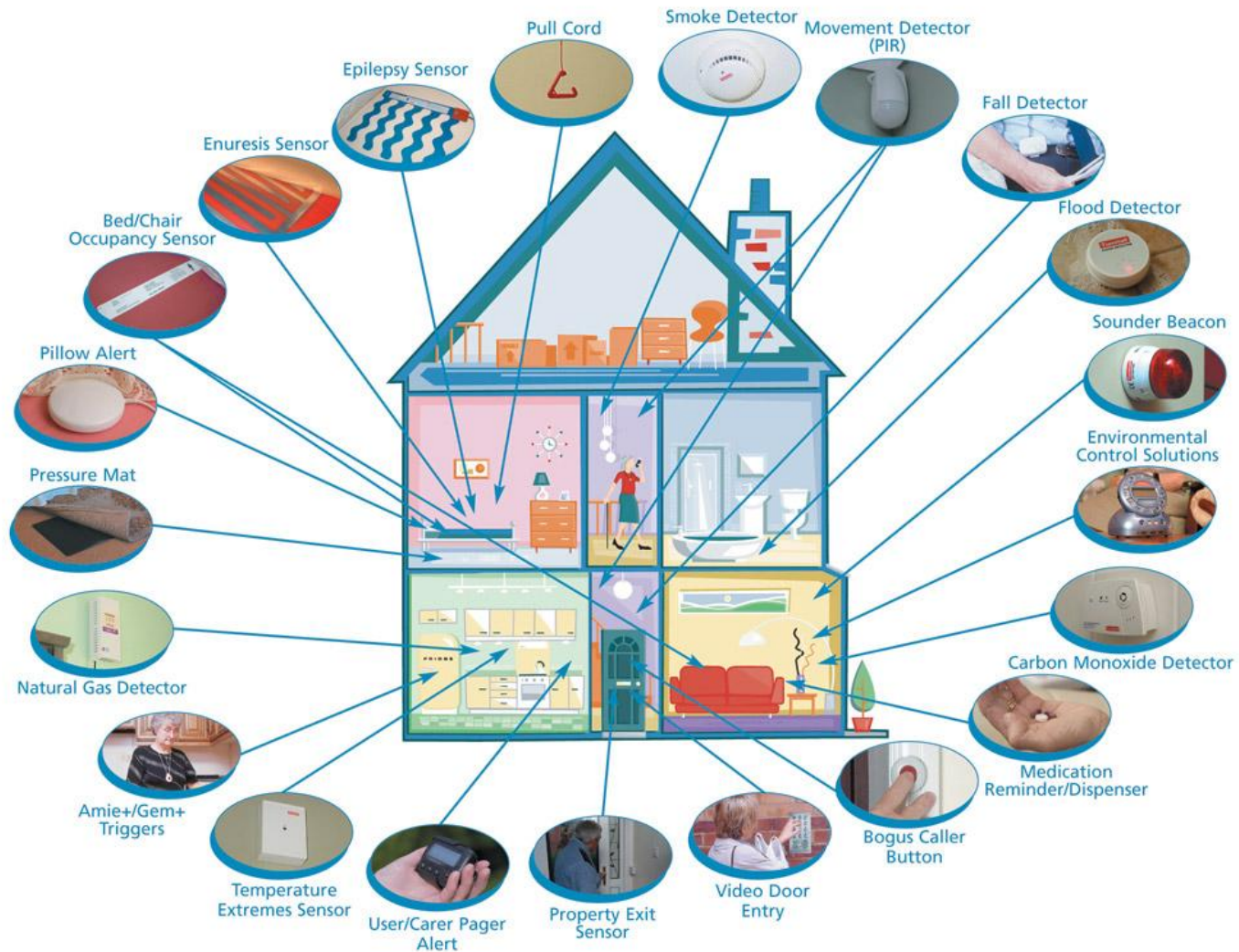


# Thoughts for the future... 2

## ICT support for independent living

- Build on “Telecare” concept
- Develop intelligent households that keep relatives and health carers informed on the condition of elderly living alone

# “Smart homes” (e.g. Lifelink, AU)



# Robots (e.g. Hector)

(CompanionAble, FP7 project, Eur7.8M)



# Summing up...

Ministry's focus will continue to be on:

- Development of systems for health professionals and patients (esp. IHIS, eHealth and myHealth portals)
- Development of eHealth standards to facilitate the engagement of more partners in eHealth systems

**Thank you for your attention!**