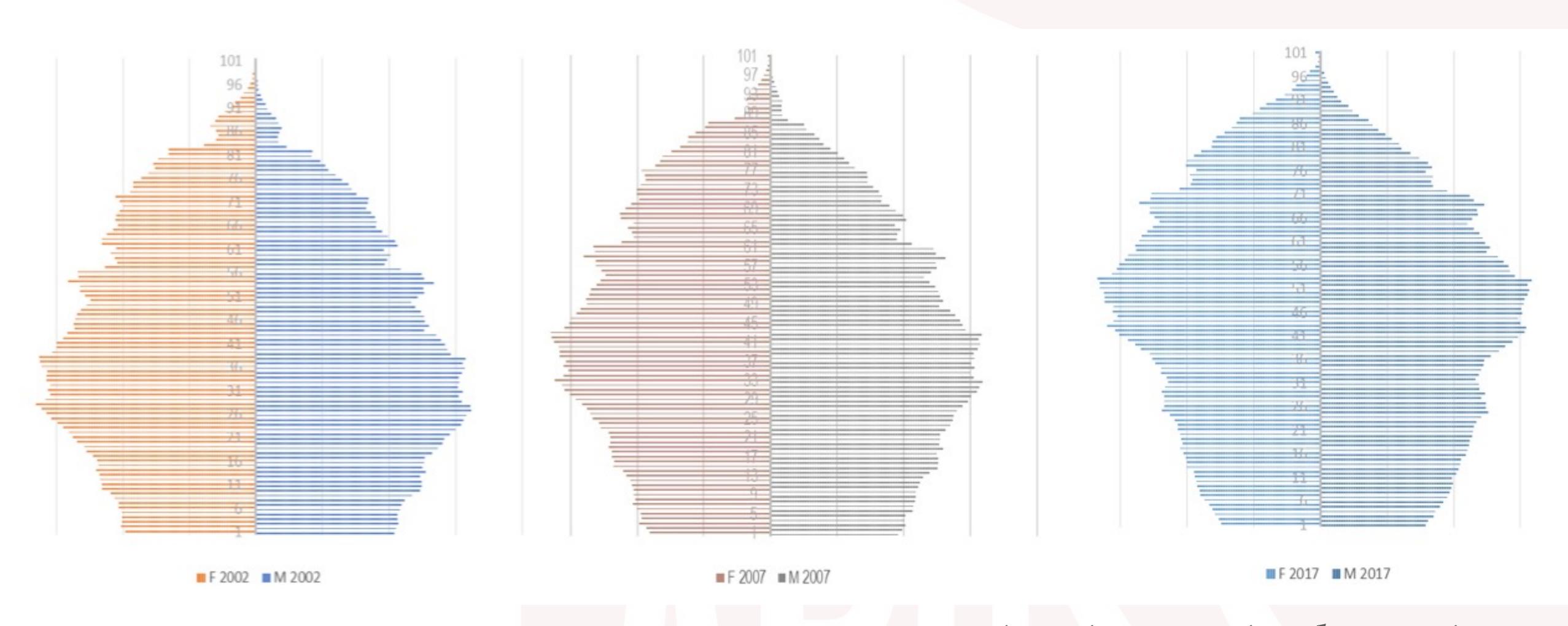


# WHERE WE ARE: APULIA REGION



# 4. 1 millions people living in the alth expenditure

- 6 Local Health Authorities
  - 27 public hospitals
  - 550 health community facilities
- 2 University Hospitals & 2 Research Hospitals (all public)
- 33 private hospitals
- 500 private social providers



A Region increasingly ageing...



A Region increasingly ageing...and chronically living



A Region increasingly ageing...and chronically living

# WHO WE ARE: APULIA REGION...AND ITS HEALTH AGENCY

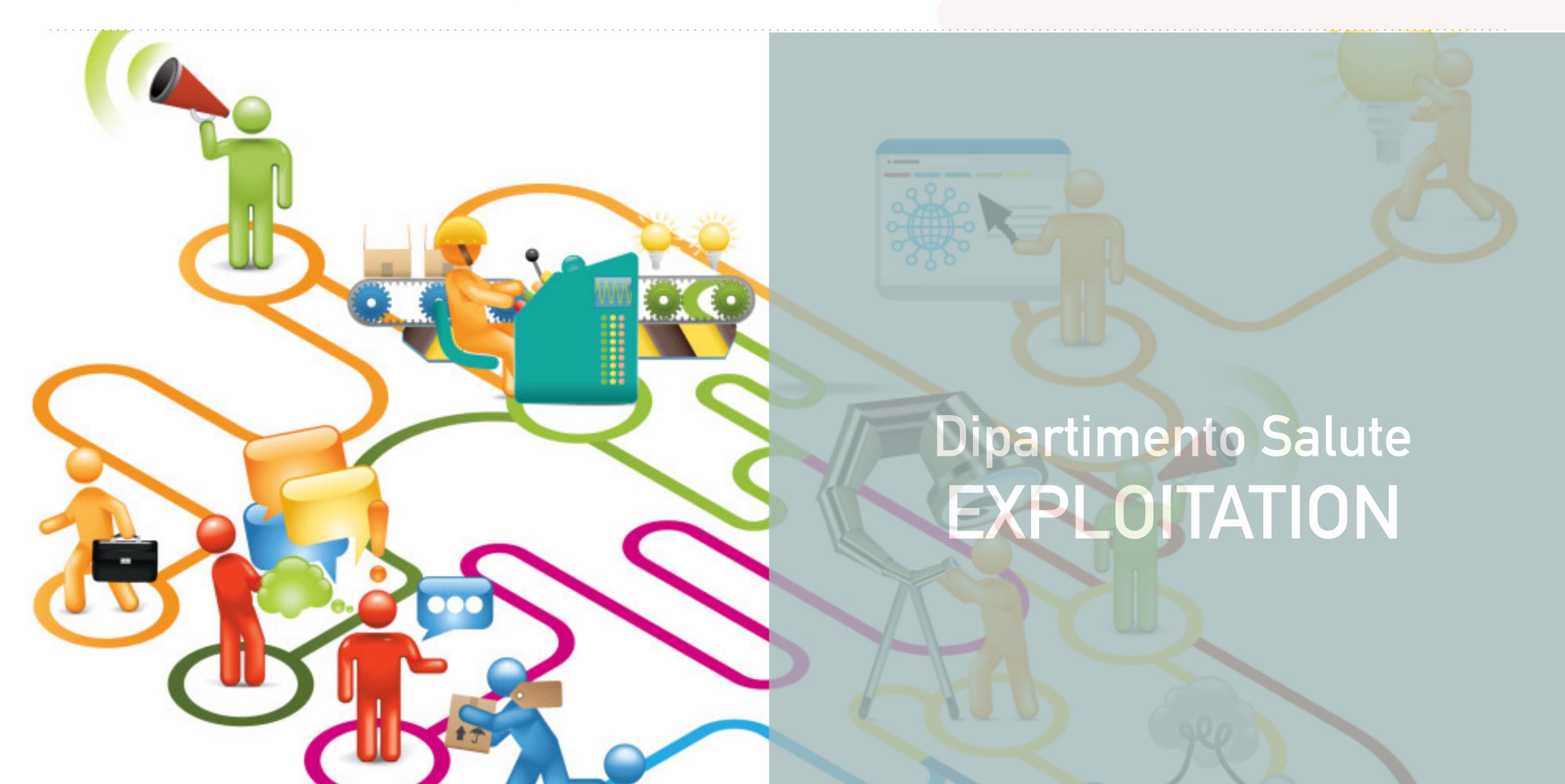
## AN AMBIDEXTER MODEL TO IMPROVE AND MANAGE HEALTHCARE



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### OUR "VERTICAL" FUNCTION AND COMPETENCE AREAS



EPIDEMIOLOGY AND CARE INTELLIGENCE

TECH ASSESSMENT AND RESEARCH

SYSTEM INNOVATION
AND QUALITY

E-HEALTH

# HOW DID EVERYTHING START: THE HOSPITAL

# PREVIOUS HOSPITAL-CENTERED SYSTEM PASSED THROUGH TWO STORMS...



60 public hospitals



42 public hospitals



31 public hospitals



33 private hospitals



33 private hospitals



33 private hospitals

15.629 beds

13.086 beds

13.100 beds

158 beds/average

174 beds/average

205 beds/average

before the storms

2010

2016







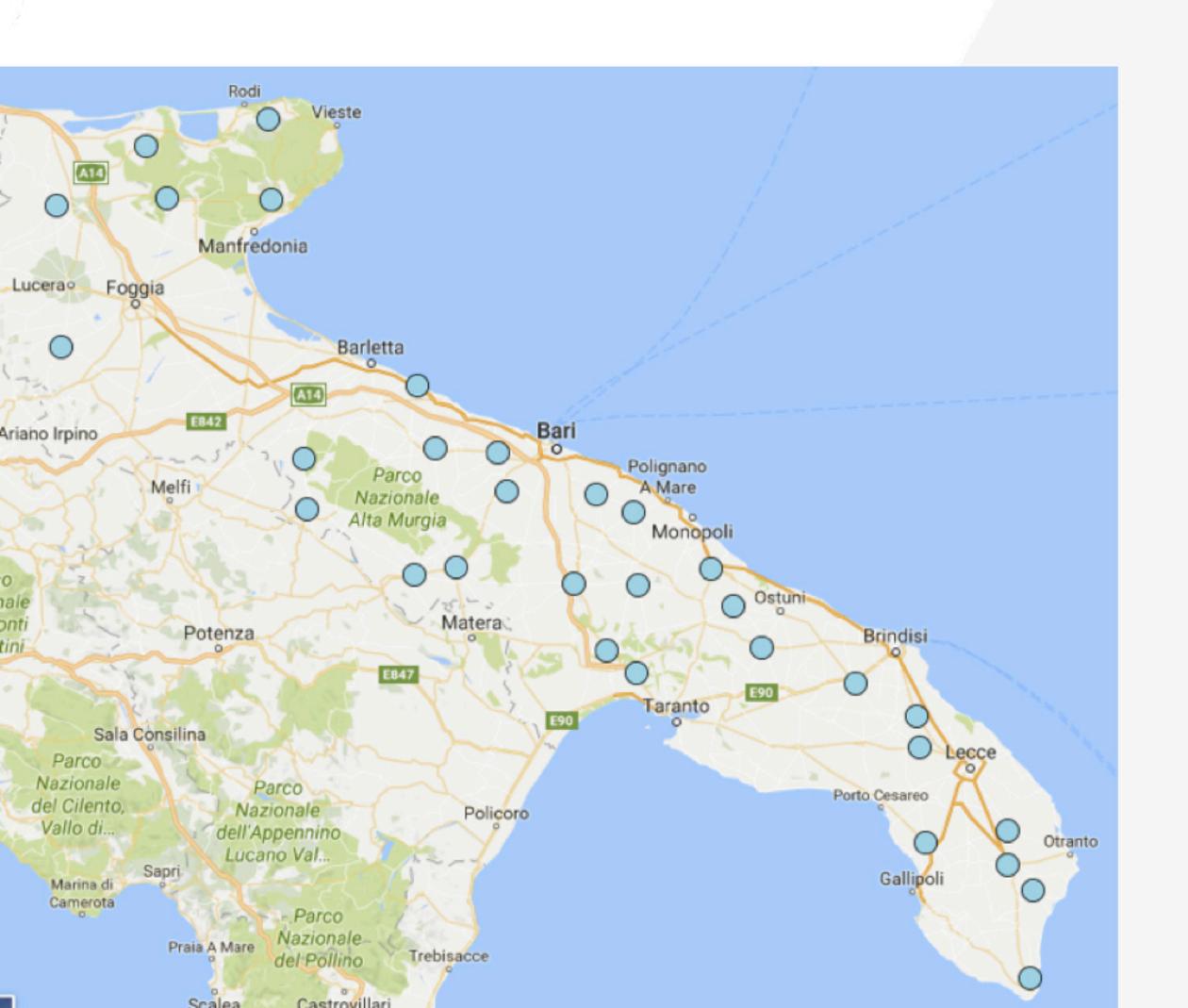
CARE
PUGLIA 3.0

The regional chronic care model

COMMUNITY
CARE
CENTERS
The bridge for "intermediate" care

3-TIERS
HOSPITAL
NETWORK

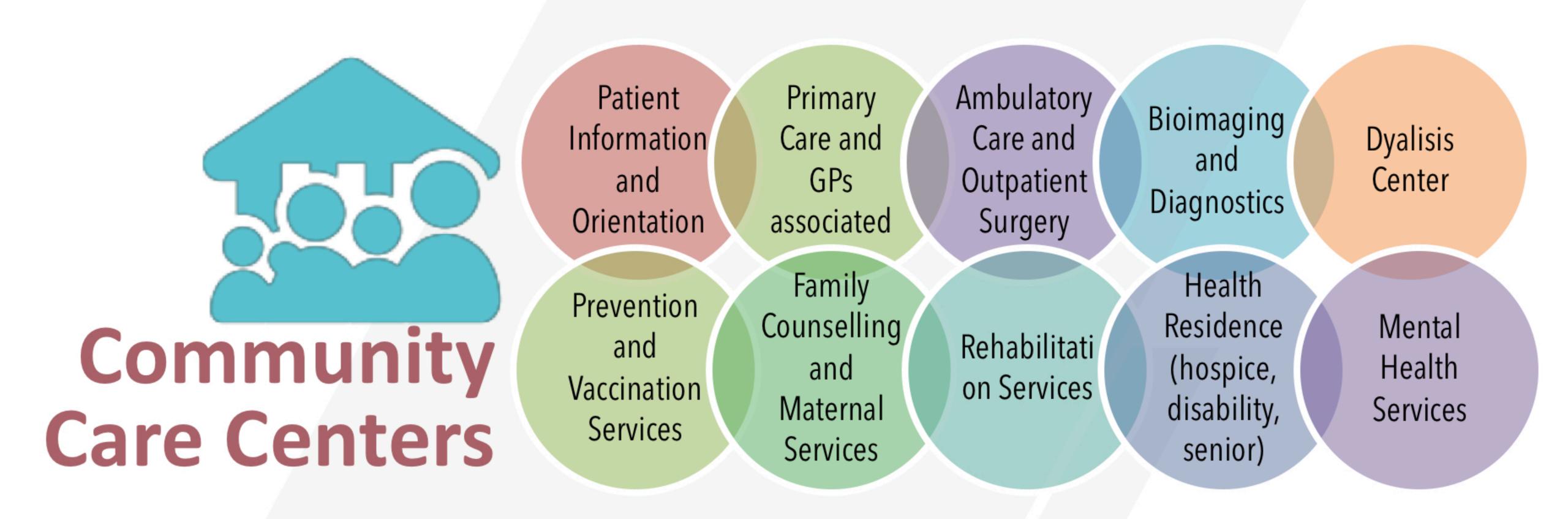
The ultimate and "high" place for acute care



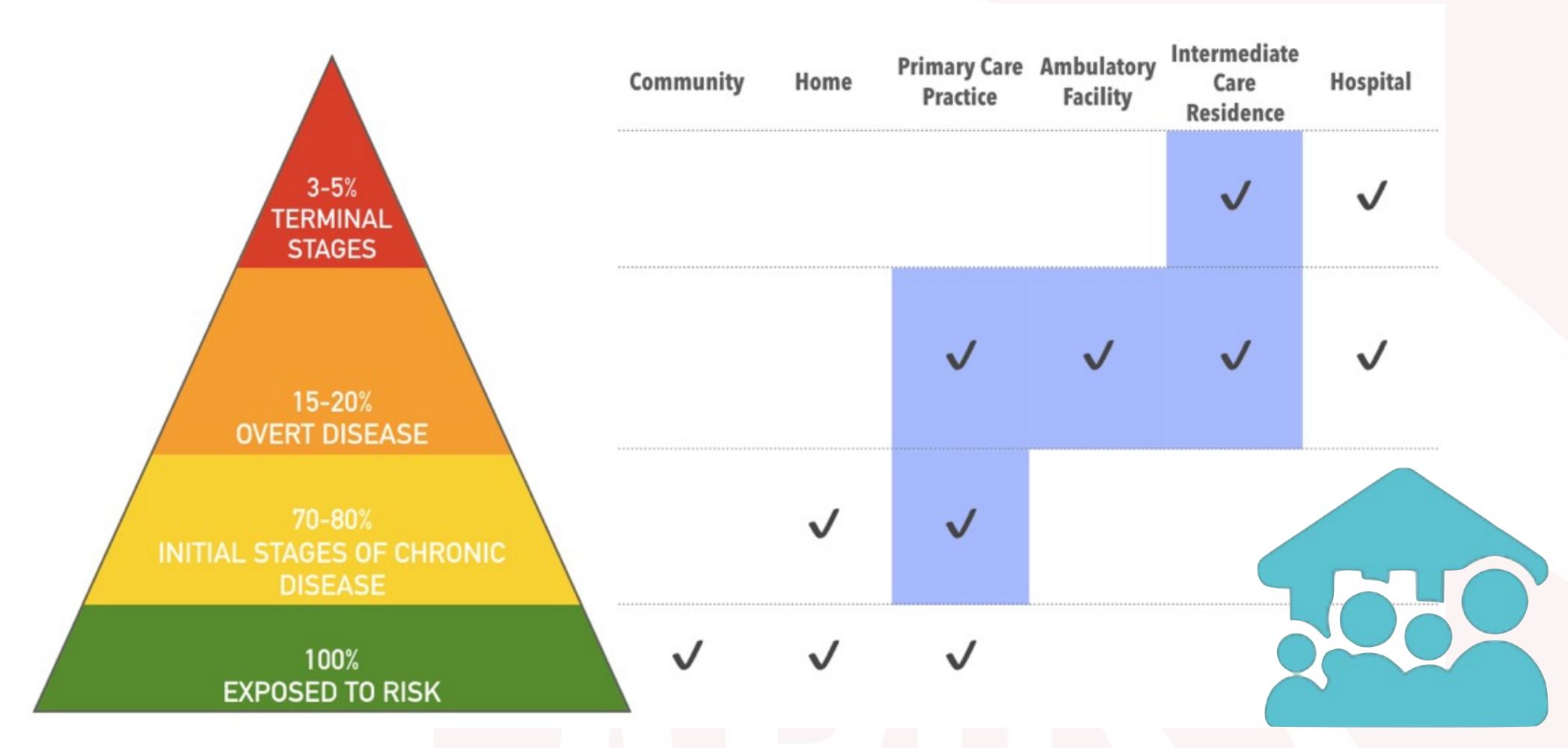


What once was a hospital now is an intermediate spot between "Hospital" and "Patient Home"

→ a "Bridge"!



Ten service areas: no more "hospital", never simple "ambulatory"



Five care places (blue cells): just the bridge...

# A GOOD PRACTICE ENABLING THE BRIDGE: TELEHOMECARE

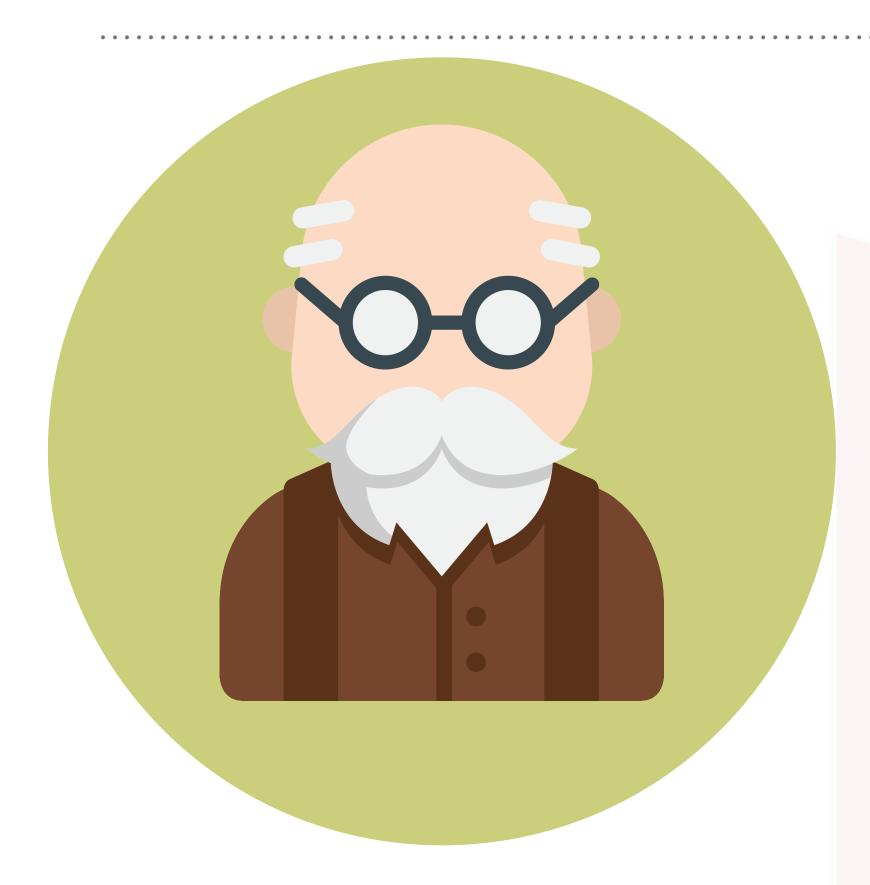
# TELEHOMECARE SYSTEM: A BRIEF DESCRIPTION

- For the activities is used a new technology called "H@H-Hospital at Home", developed by an apulian startup through regional interventions for industrial development;
- The system is allocated at the **patient's home**, permanently interconnected with the doctor by pc, telephone, tablet;
- At the Community Care Center of Ceglie Messapica (Brindisi) is present a **central control room** for all patients and all devices located at the patient's home. All clinical parameters of patients are stored on a dedicated server, respecting all the rules for the respect of privacy. The system permits to the doctor (neurologists, pulmonologist, cardiologists, diabetologists, etc) remotely, to **see the patient and talk to your health care professional** on a visit at patient's home, through the activation of a video special device.
- It is possible to **deliver therapy** to the patient, remotely. In particular, it is possible to deliver oxygen therapy and endocavitary aspiration. Doctor or health care professional determines the limit of the range of physiological parameter values and when the parameter is out of range, the system draws the operator's attention through the alert. Practitioner or specialist can talk to the patient because the system has a video communications system.

#### TELEHOMECARE SYSTEM: THE OBJECTIVES

- Reduce the number of patients with heart disease, chronic diseases and diabetes in the process of instability
- Reduce hospitalization and re-hospitalization
- Activate protected de-hospitalization
- Optimize the therapy and diagnosis according to international guidelines
- To promote the integrated management of Hospital Care and Community Territory
- Evaluate the satisfaction of the doctor, caregiver and patient

# TELEHOMECARE SYSTEM: THE PATIENT

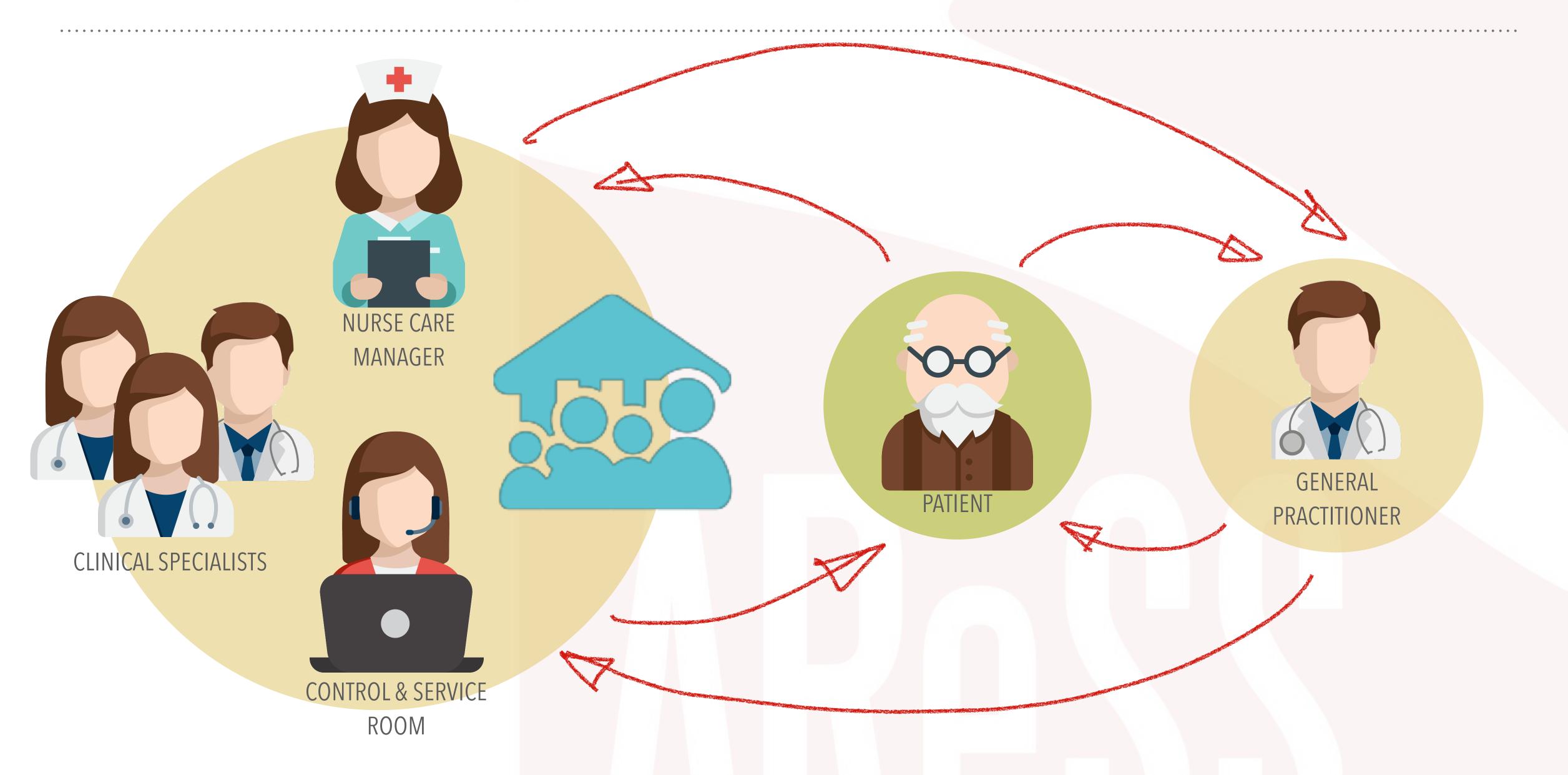


Pilot stage of 36 months (2015-17)

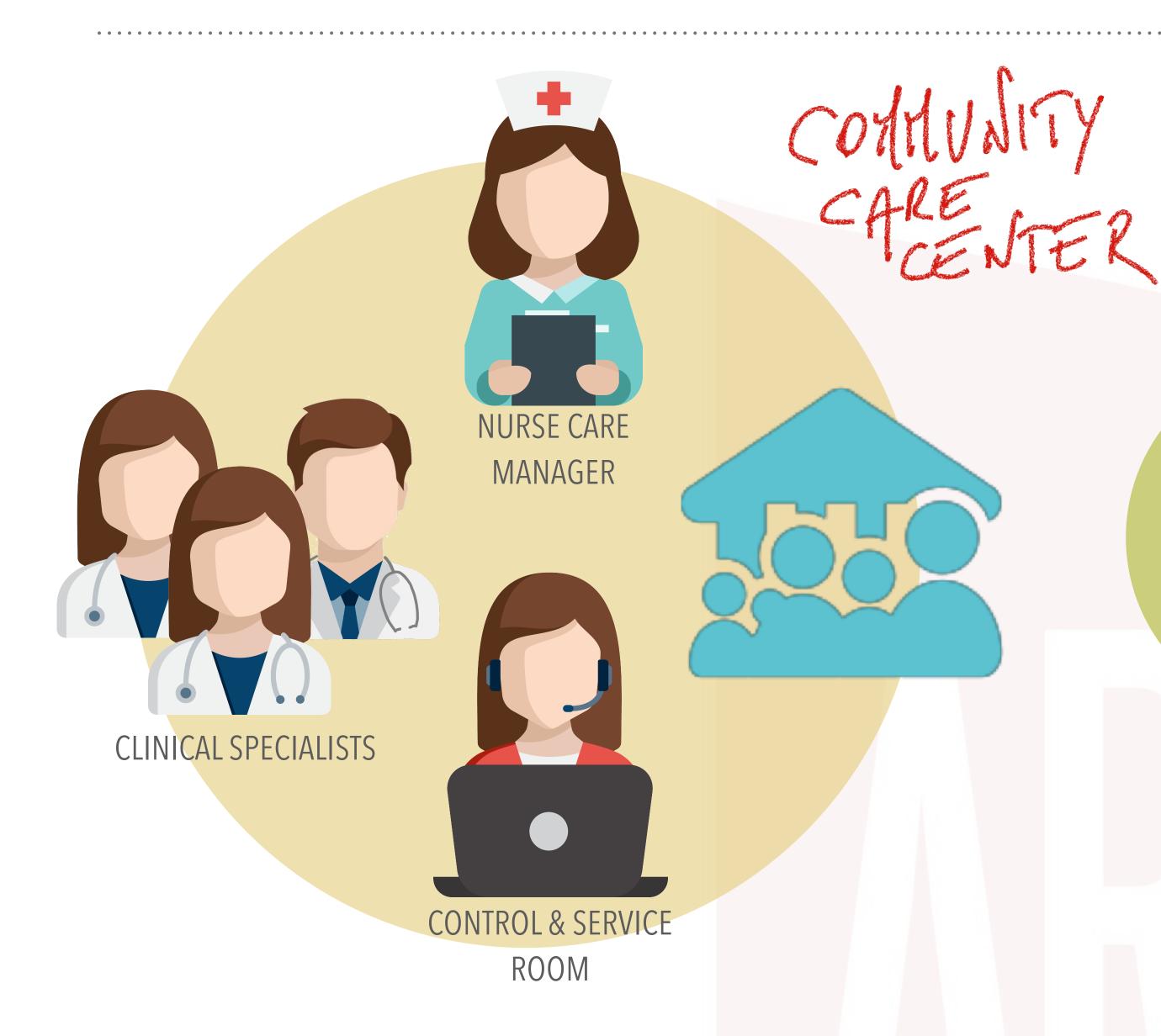
#### 308 "FRAIL" PATIENTS (290>65y)

DISEASE -	NUMBER	
	TOTAL	of whom with comorbidity
COPD	73	19
HEART FAILURE	93	50
DIABETES	142	52

# TELEHOMECARE SYSTEM: THE TEAM...AND CONTINUUM OF CARE



# TELEHOMECARE SYSTEM: THE TEAM...AND CONTINUUM OF CARE



PRIMAPY CHIERRACTICE



**PATIENT** 

# TELEHOMECARE SYSTEM: THE DEVICE



# TELEHOMECARE SYSTEM: THE DEVICE



- Blood Pressure
- ECG
- Body Temperature
- Heart Rate

- Respiratory Rate
- SpO2
- VideoCommunication Module

- Oxygen administration by concentrator
- Endocavitary aspiration

# TELEHOMECARE SYSTEM: THE RESULTS

**COST REDUCTION** 

	38% less hospital admissions
REDUCTION OF HOSPITALISATION	28% reduction of hospital LoS
	36% less re-admissions
	3% of patients "very little" satisfied
PATIENT SATISFACTION	16% of patients "enough" satisfied
	81% of patients "very much" satisfied
ENHANCEMENT OF OUT-OF-	77% of patients cared at home
HOSPITAL SUPPORT	23% of patients cared at Community Care Center
	20 70 01 Partition data de Contratto de Cont
PATIENT SELF-SUFFICIENCY	From 60% (before enrollment) up to 90% (after enrollment)

~ € 250.000 from avoided hospitalisation

# TELEHOMECARE SYSTEM: SCALING UP IN PROGRESS



from 11 devices and 300 patients (2015-17)



to 152 (56 wheeled and 96 laptop) for 3.000 patients (2018-21)

a regional HTA in progress to scale up experience at regional extent through PPI tender

#### **CLOSING SUGGESTIONS**

- Telemonitoring activity can bring benefits only if it is included in a management model for the chronic «ICT assisted» pathologies: the Telemedicine must be added, not as an alternative to the classic integrated management model, but to facility, to intensify and to personalize the monitoring of the disease.
- The strong collaboration between Specialists and GPs is very important both in terms of sharing information (remote access to individual clinical data), both to intensify the mutual knowledge of the patient pathologies.
- The patient recruited in telemedicine program <u>must receive correct information</u> on the disease, on the importance of the commitment to data transmission with an educational intervention on self-monitoring and self-care.
- Interventions must be personalized and not implemented according to rigid assistance models: is important to always must maintain the right balance between the use of technology and attention to aspects of human contact.

# THANKSI