

Personalized care for chronic patients in an integrated care framework



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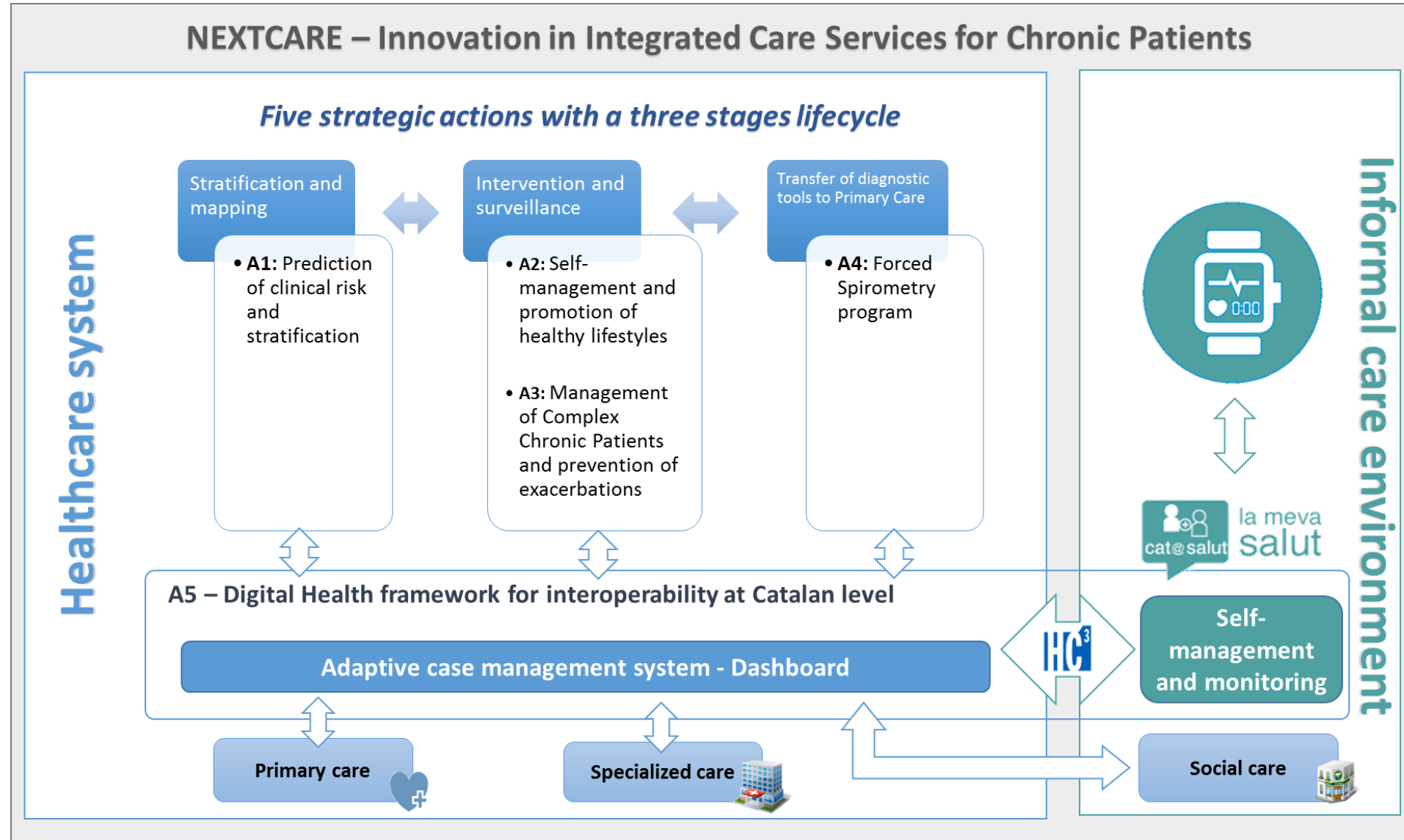
Regional deployment of ICT-supported integrated care services

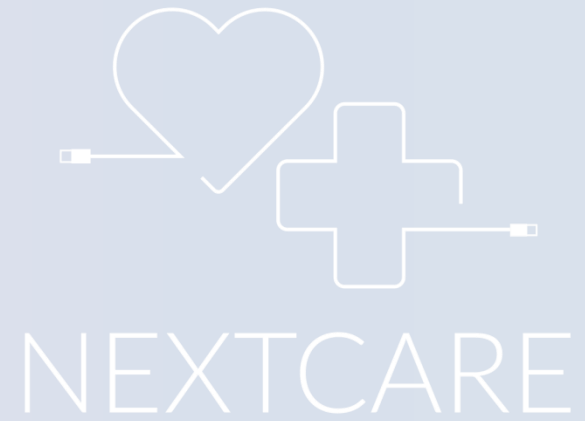
*design, evaluation and large scale implementation of five actions
aiming at generating healthcare-value at system level*

Multimorbidity

(cardiovascular diseases; COPD; diabetes type II and anxiety- depression)

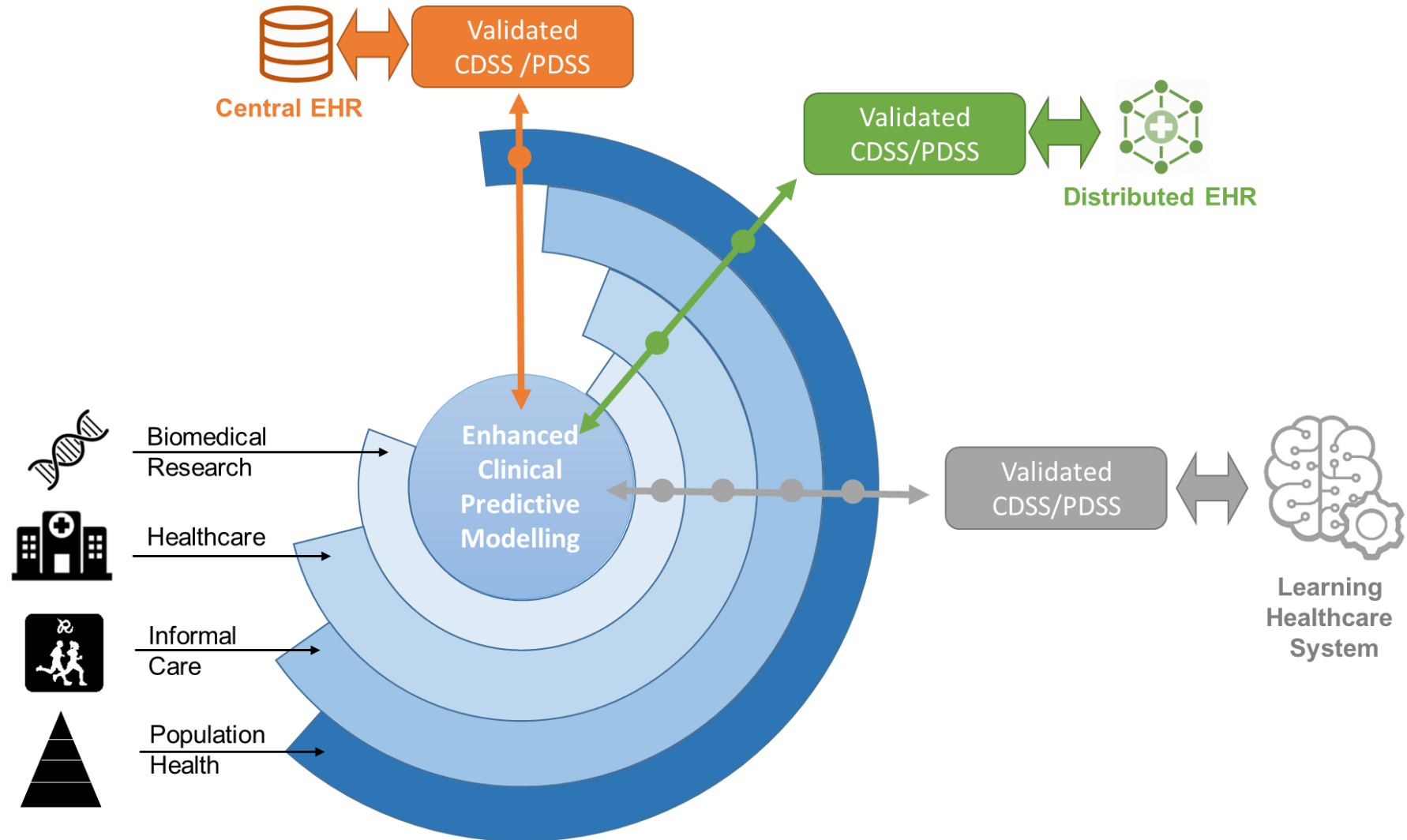
GRAPHICAL ABSTRACT (2016-2019)





A1 – Prediction of Clinical Risk and stratification

Health risk prediction and service selection



All cases with COPD diagnosis in Catalonia

264,830 patients

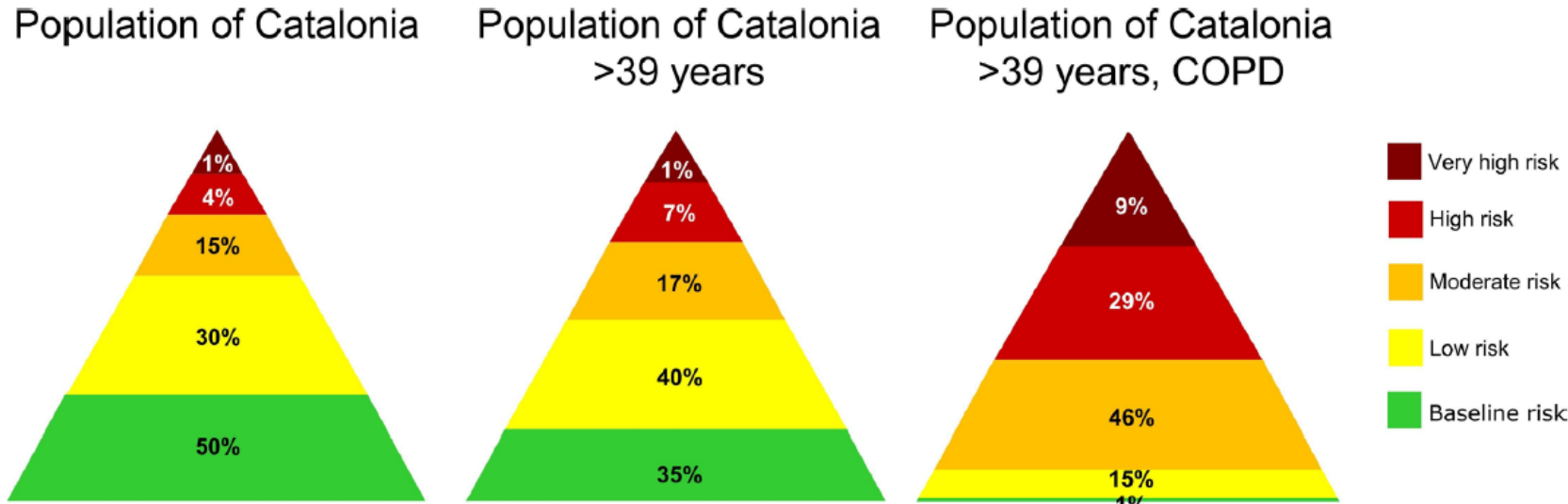
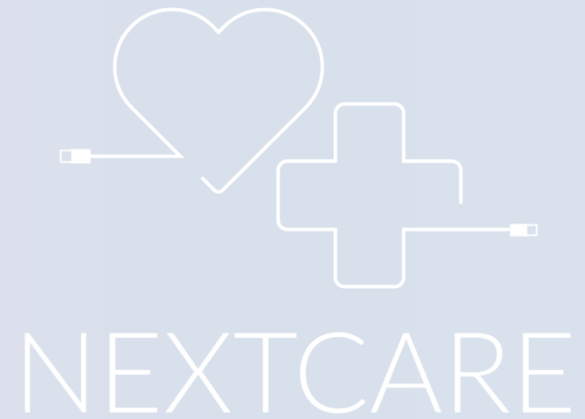


Table 2 Summary description of the six predictive models

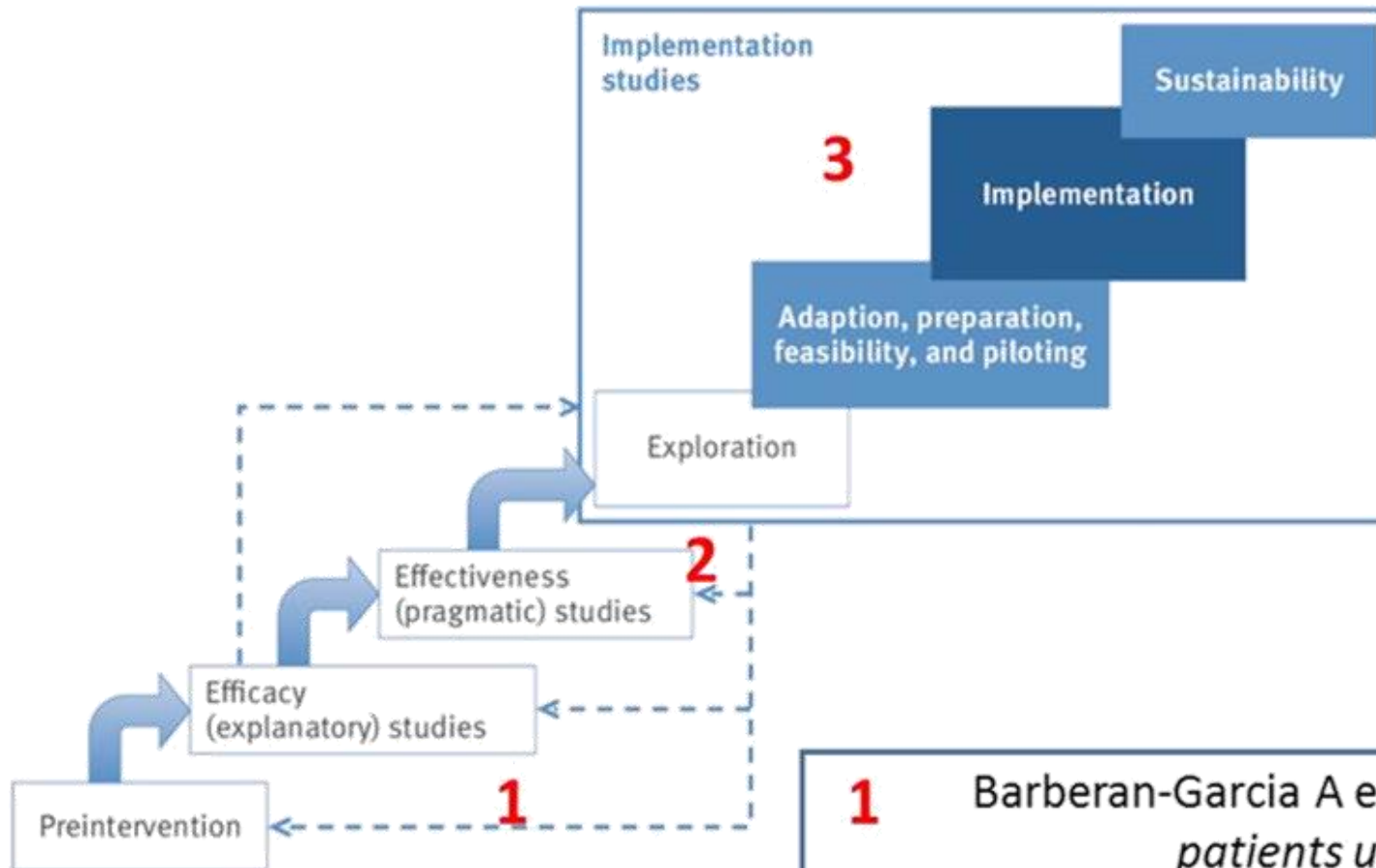
	Mortality	Hospitalisations		Multiple hospitalisations		Users with high healthcare costs (PCT85)
		All causes	COPD related	All causes	COPD related	
C-statistics (AUC)	0.829	0.766	0.807	0.803	0.865	0.763





A2 – Self-management and promotion of healthy lifestyles

Prehabilitation

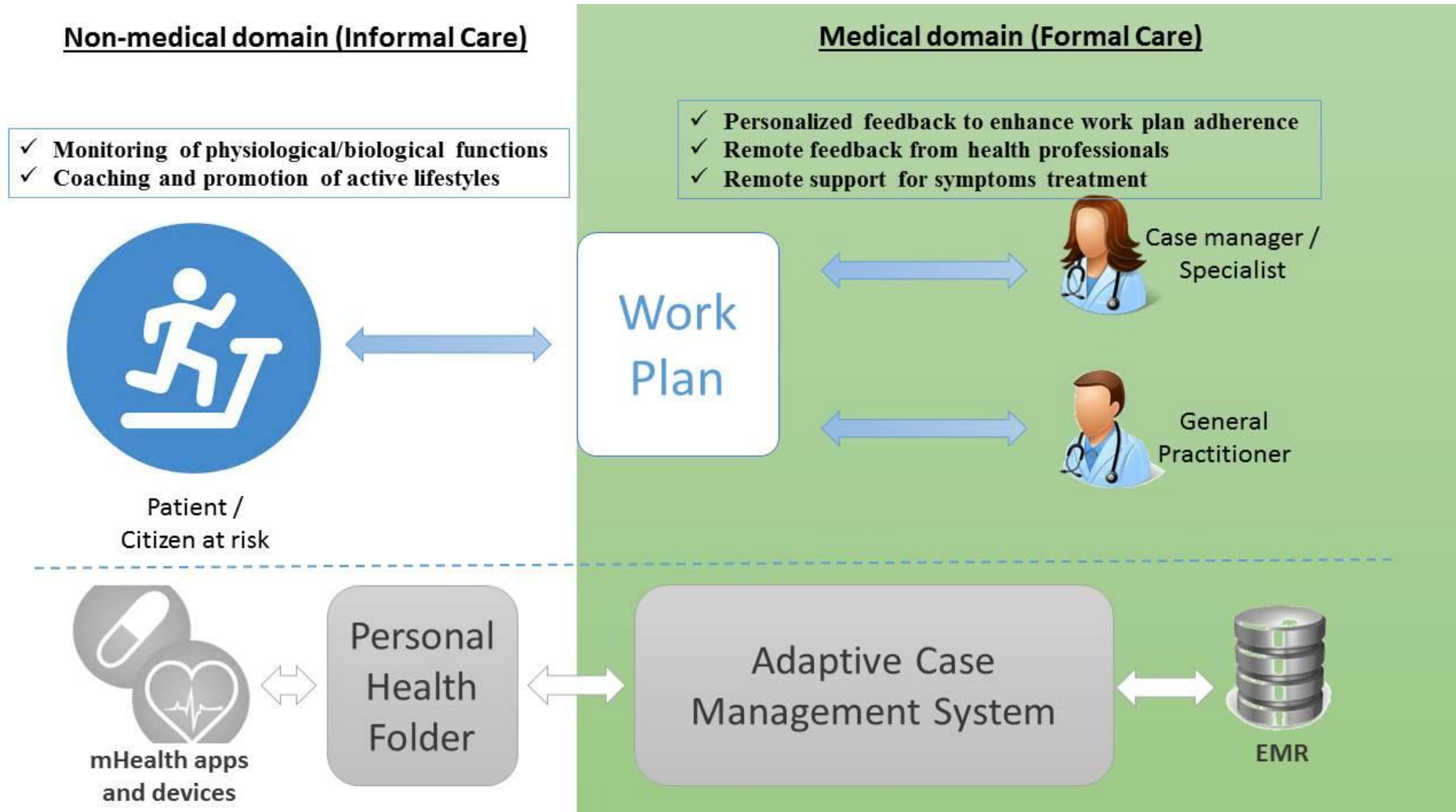


3 Barberan-Garcia A et al. Protocol for regional implementation of collaborative self-management services to promote physical activity *BMC Health Services Research* (submitted 2017)



1 Barberan-Garcia A et al. *Personalized Prehabilitation in High-risk patients undergoing elective major abdominal surgery* *Ann Surg.* 2017 May 9. doi: 10.1097

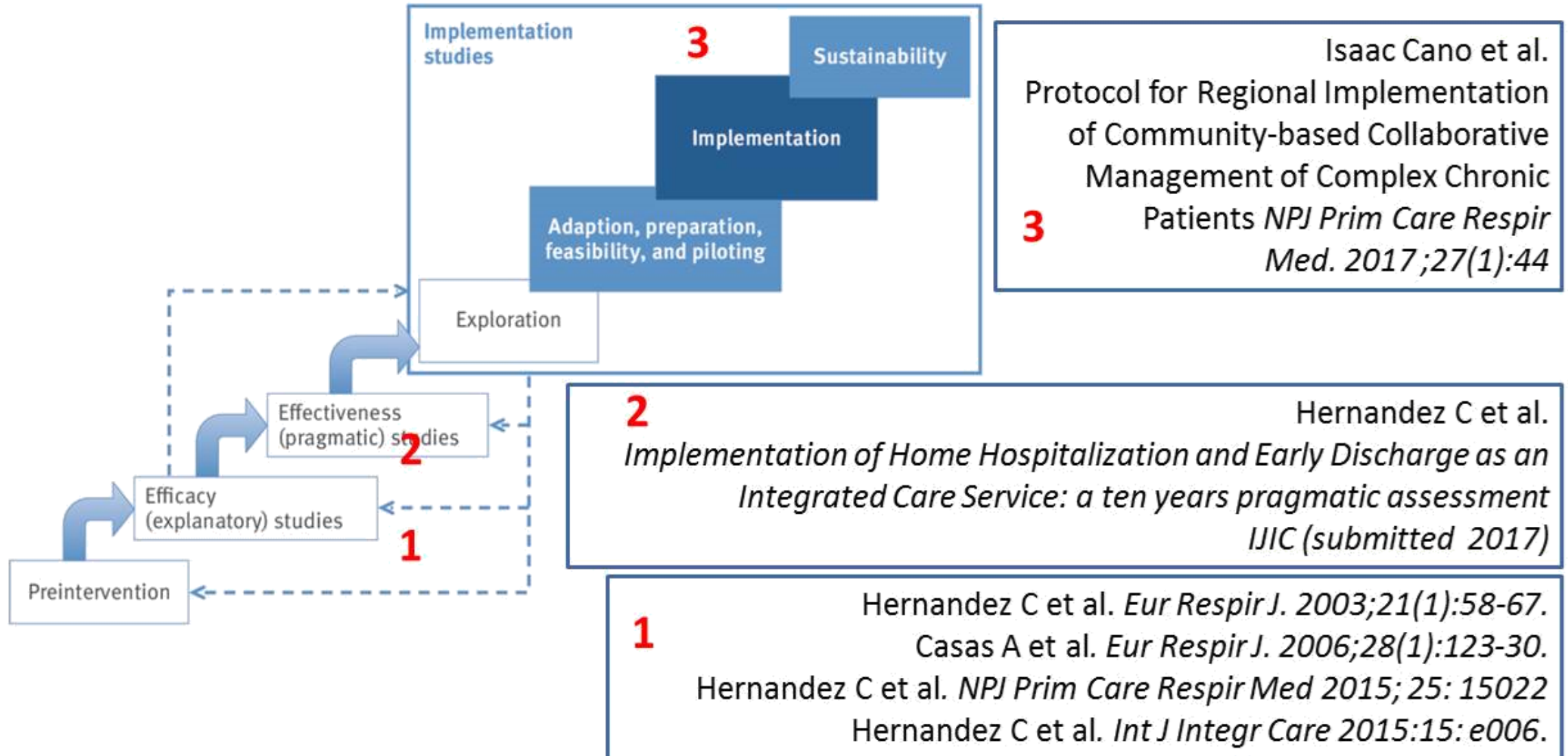
Promotion of physical activity in chronic cases





A3 – Management of Complex Chronic Patients and prevention of exacerbations

Home hospitalization & Transitional care





A4 – Transfer of diagnostic tools to Primary Care: Forced Spirometry as use case

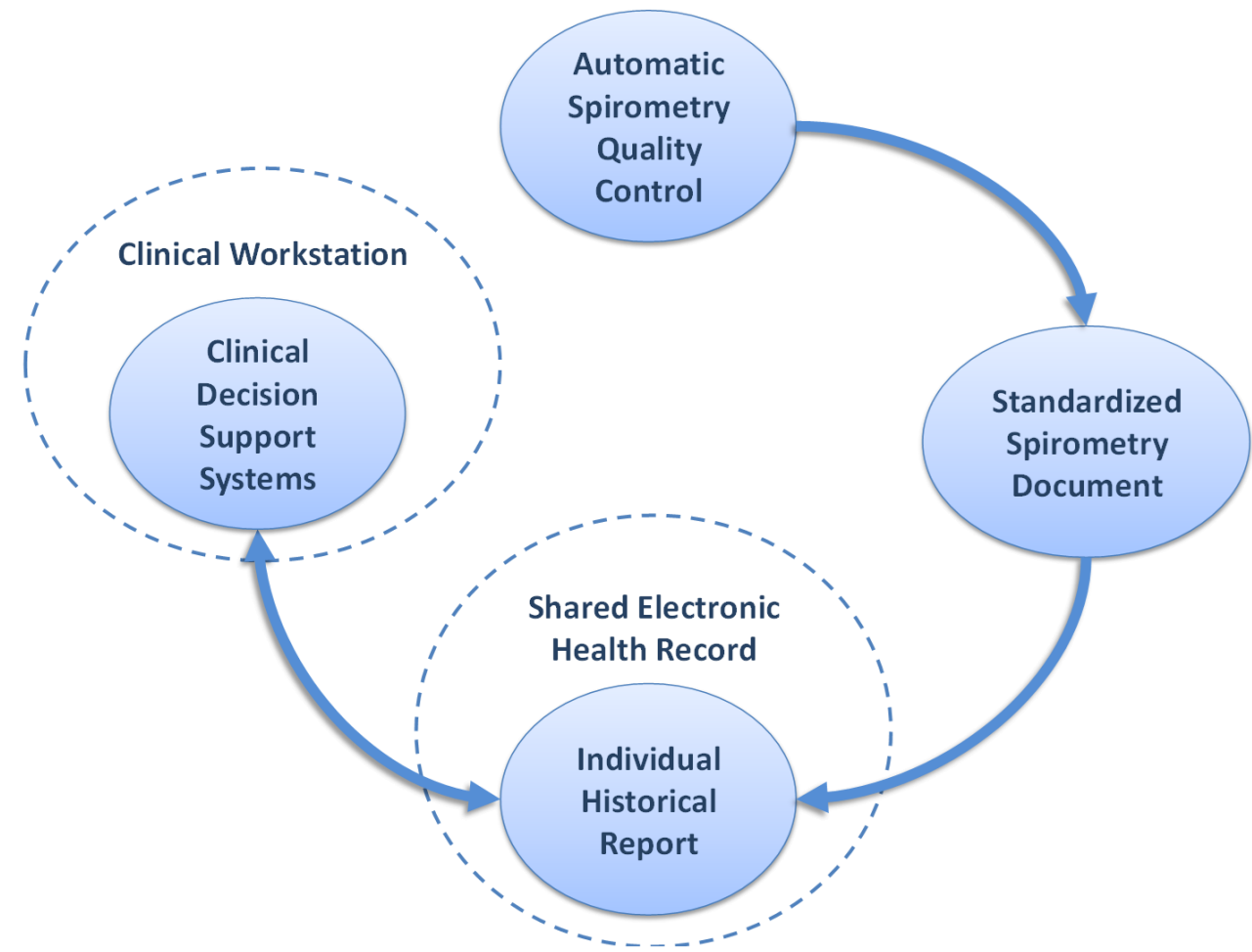
A4 – TRANSFER OF DIAGNOSTIC TOOLS TO PRIMARY CARE

The Forced Spirometry Program

Aim: access to forced spirometry testing (raw data, clinical results, quality control and historical data) from any clinical work-station of any healthcare provider.

After the first year, transferability of the model to other healthcare environments and other diagnostic techniques will be analyzed.

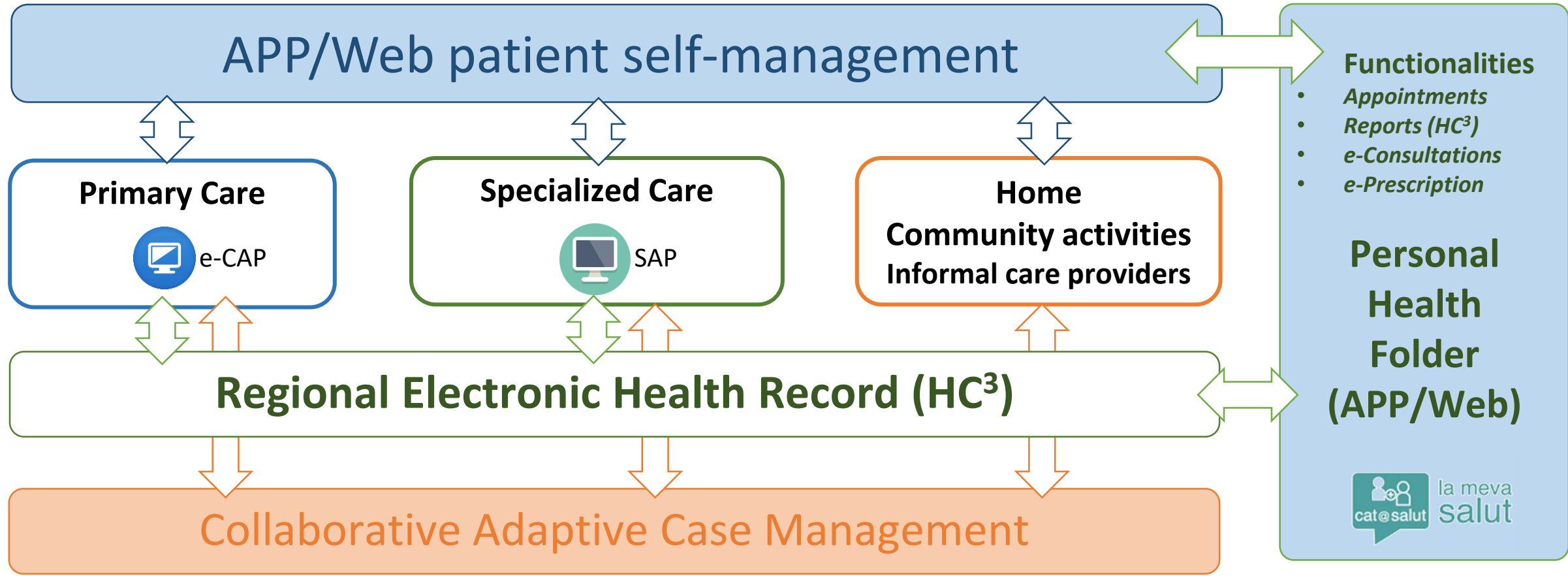
The new system will allow the future implementation of "data analytics" with impact on case management.





A5 – Digital Health Framework for Interoperability at Catalan level

A5 –INTEROPERABILITY – DIGITAL HEALTH FRAMEWORK



ICT – supported health services

Biomedical knowledge *(healthy life styles-chronicity-rehabilitation)*

Enhanced health risk assessment *(predictive modelling – CDSS/PDSS)*

Cloud-based computing – data analytics

Business-friendly ecosystem *(with Cataloniabio&Health tech)*

Thanks Graciès

Isaac Cano- iscano@clinic.cat

