

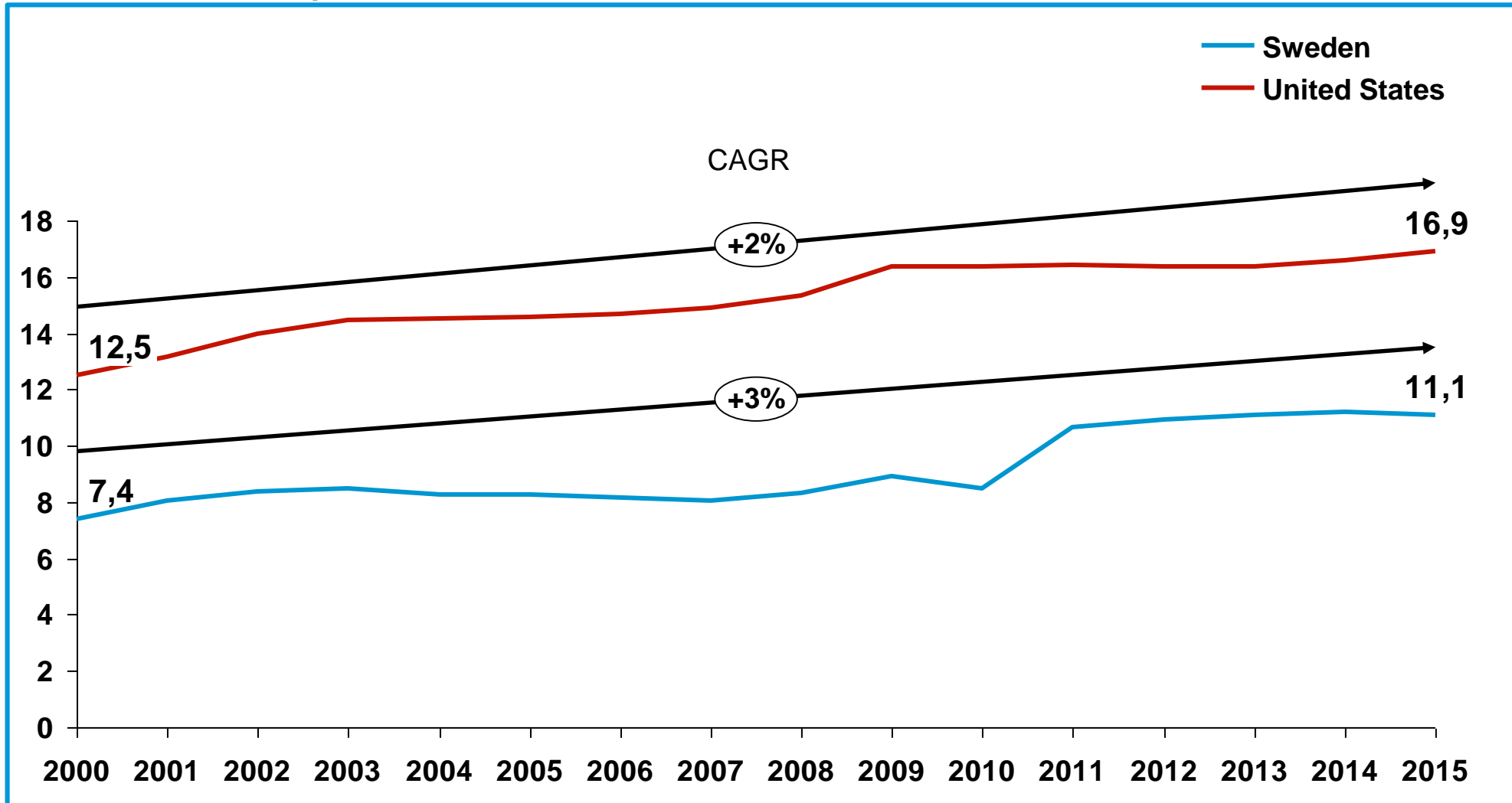
Introduction to the Karolinska journey: Building value around the patient pathway

Claes Ruth
Head of Corporate Control
Karolinska University Hospital

Michael Melin, MD
Manager of the Patient Flow for Heart Failure
Karolinska University Hospital

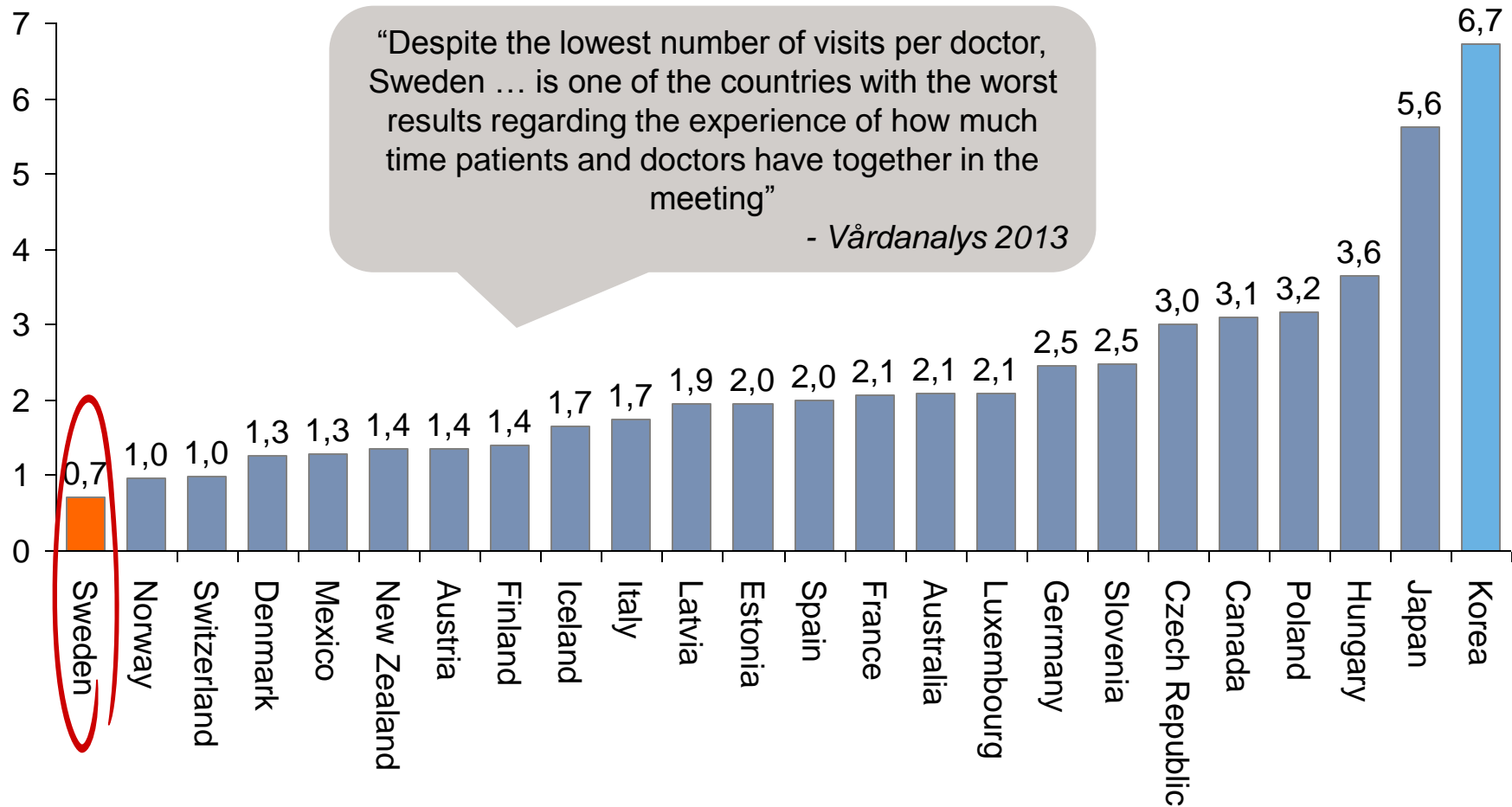
Health care spend is increasing at a high rate in Sweden

Health care spend as % of GDP



Swedish doctors see the fewest patients in all of OECD, yet, doctor visits “feel rushed”

'000 Patient visits per active doctor¹



Why do we need to change?

We need to solve our challenges

Fragmentation and lack of holistic overview

Big differences in treatment method and care outcomes

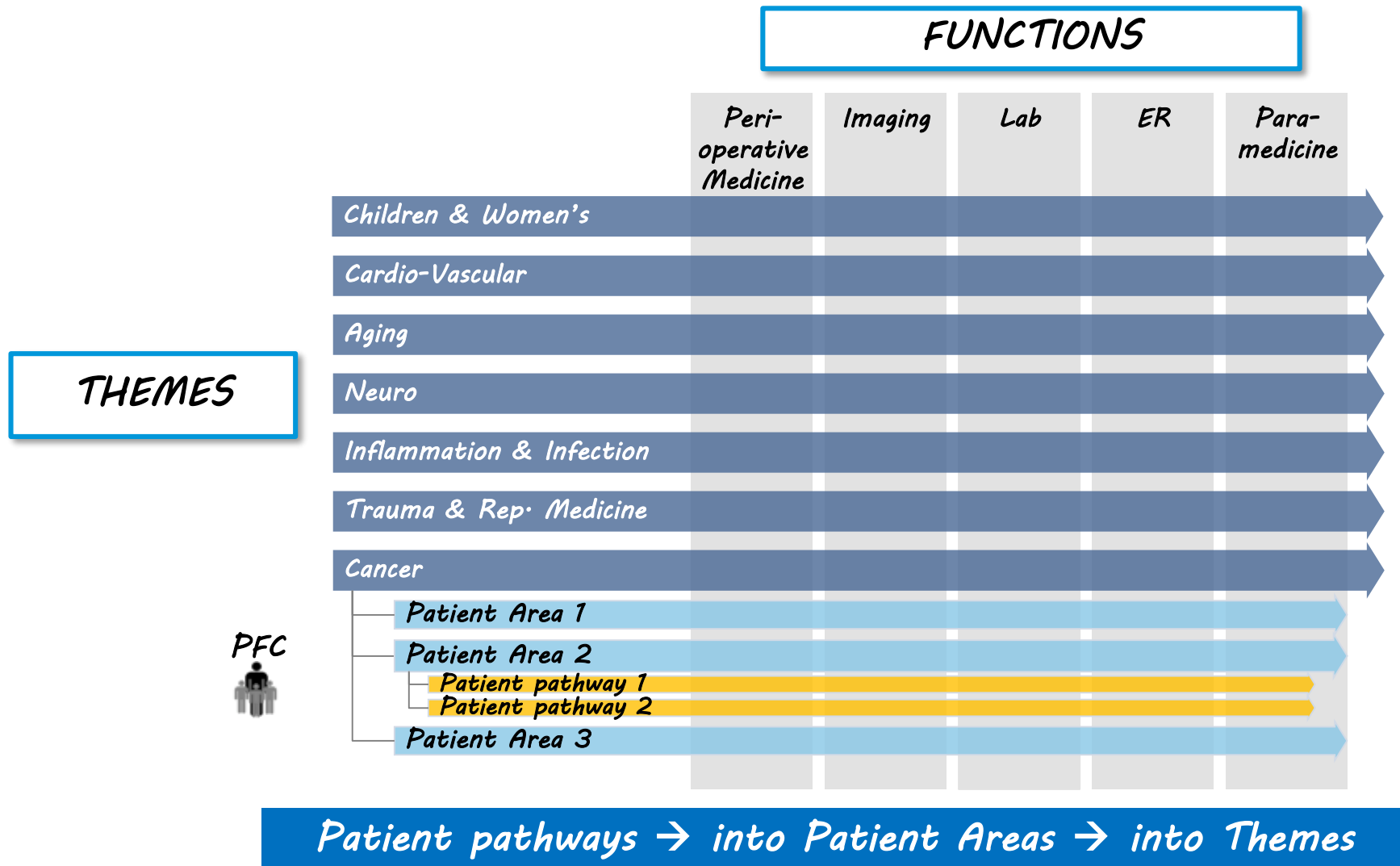
Continuous/cyclical economic challenges

We want to deliver the best care

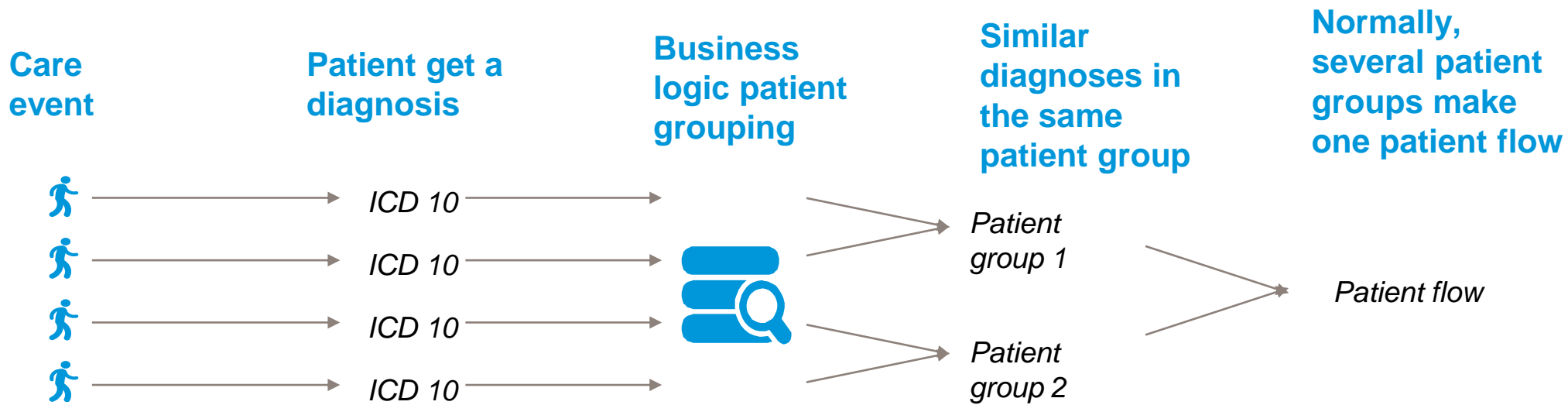
$$\frac{\text{Outcomes that matter to patients}}{\text{Cost of achieving the outcomes}} = \text{VALUE}$$


We have to organize along the patients journey through the system

A new operating model centered around patient pathways enables patient centered optimization of flows and outcomes



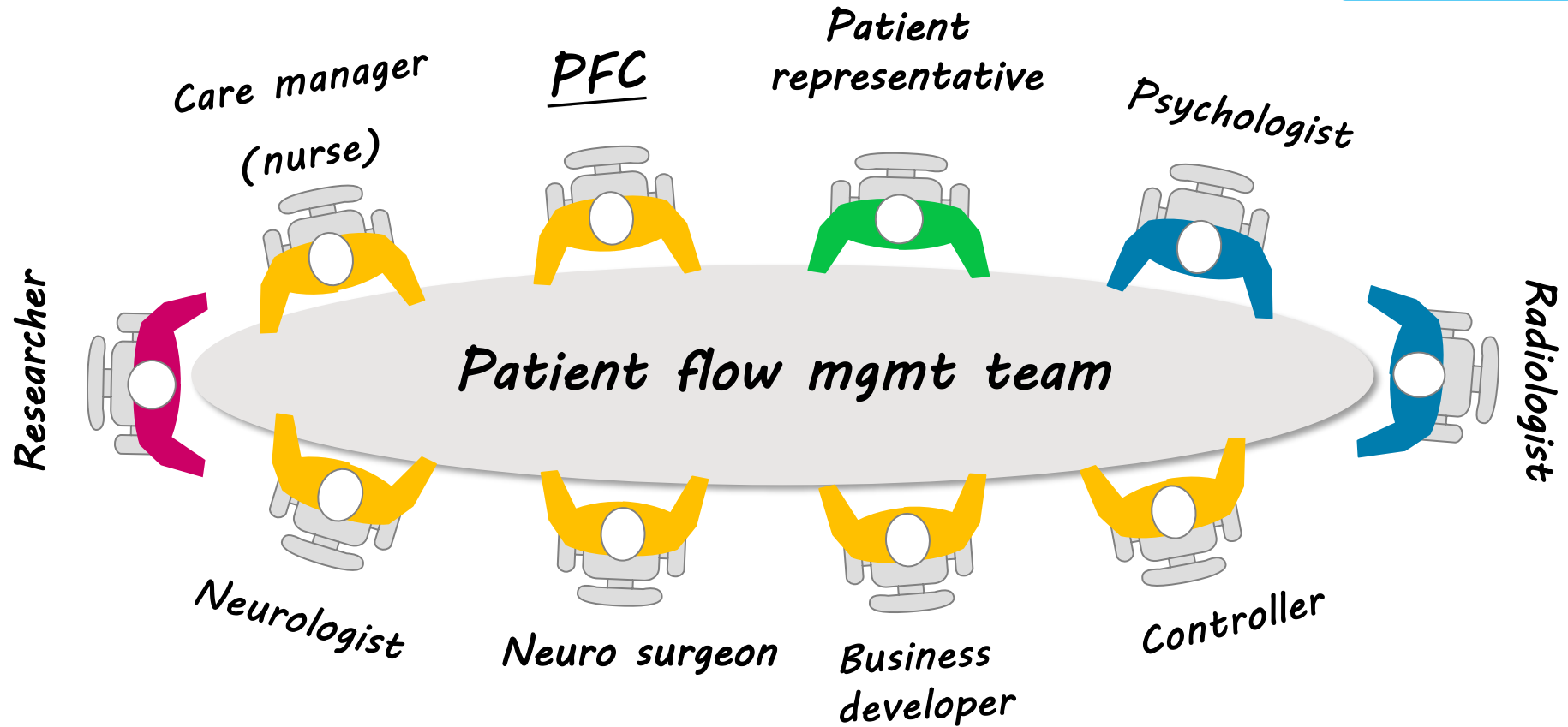
Patient groups are defined from similar diagnoses while patient flows are at an organizational level



- Patient groups and patient flows are not in a 1:1 relationship
- Patients who never get a diagnosis will not be part of a patient group but will be part of a patient flow through registration with economical attributes

Interdisciplinary teams lead the work within each patient flow with joint responsibility for outcomes and costs

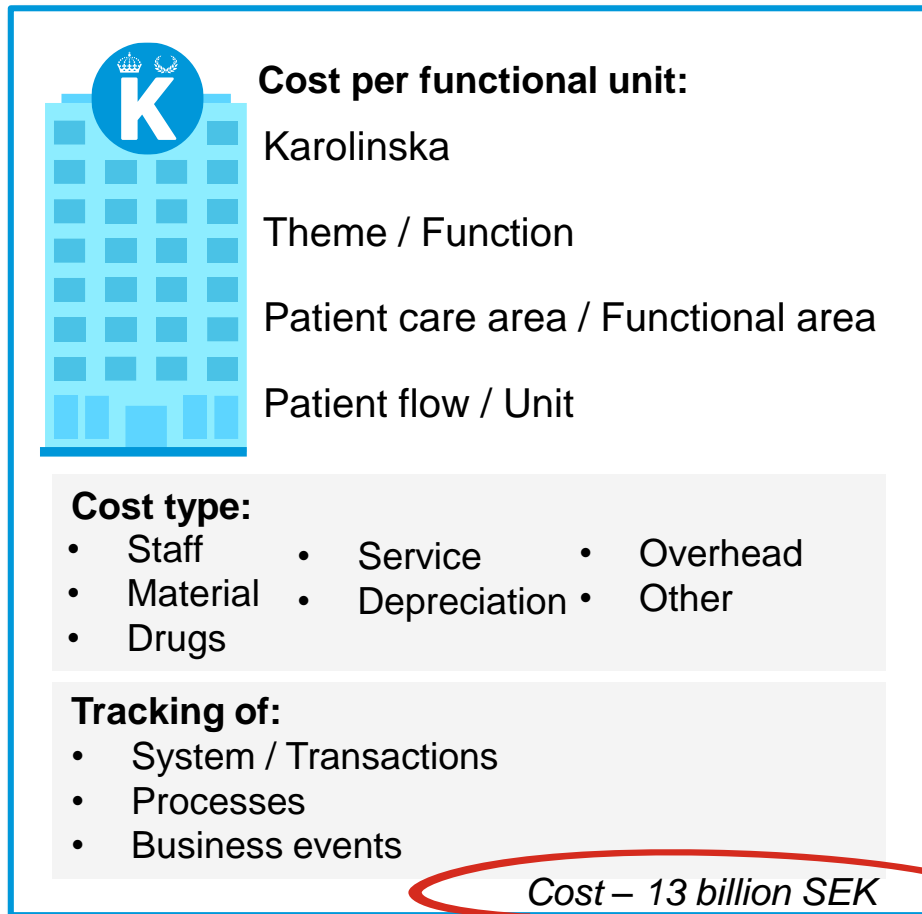
ILLUSTRATIVE



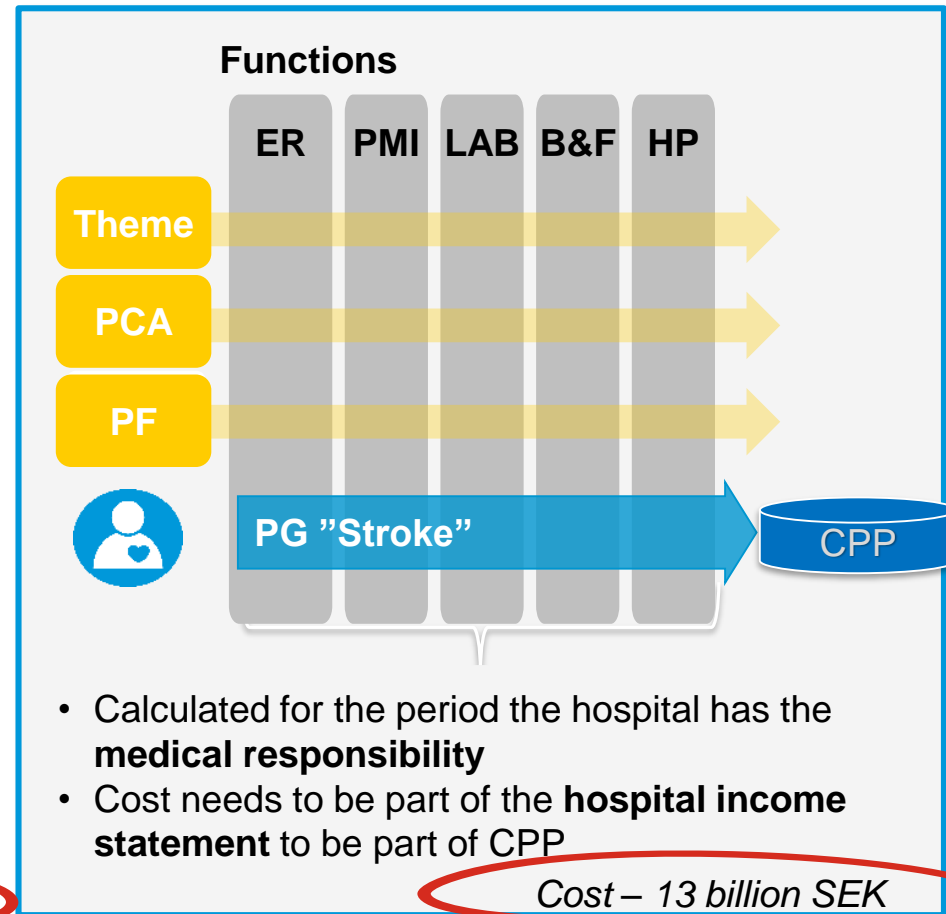
We need to be able to view cost in two different ways: Financial Statement and Cost per patient

Details on following page

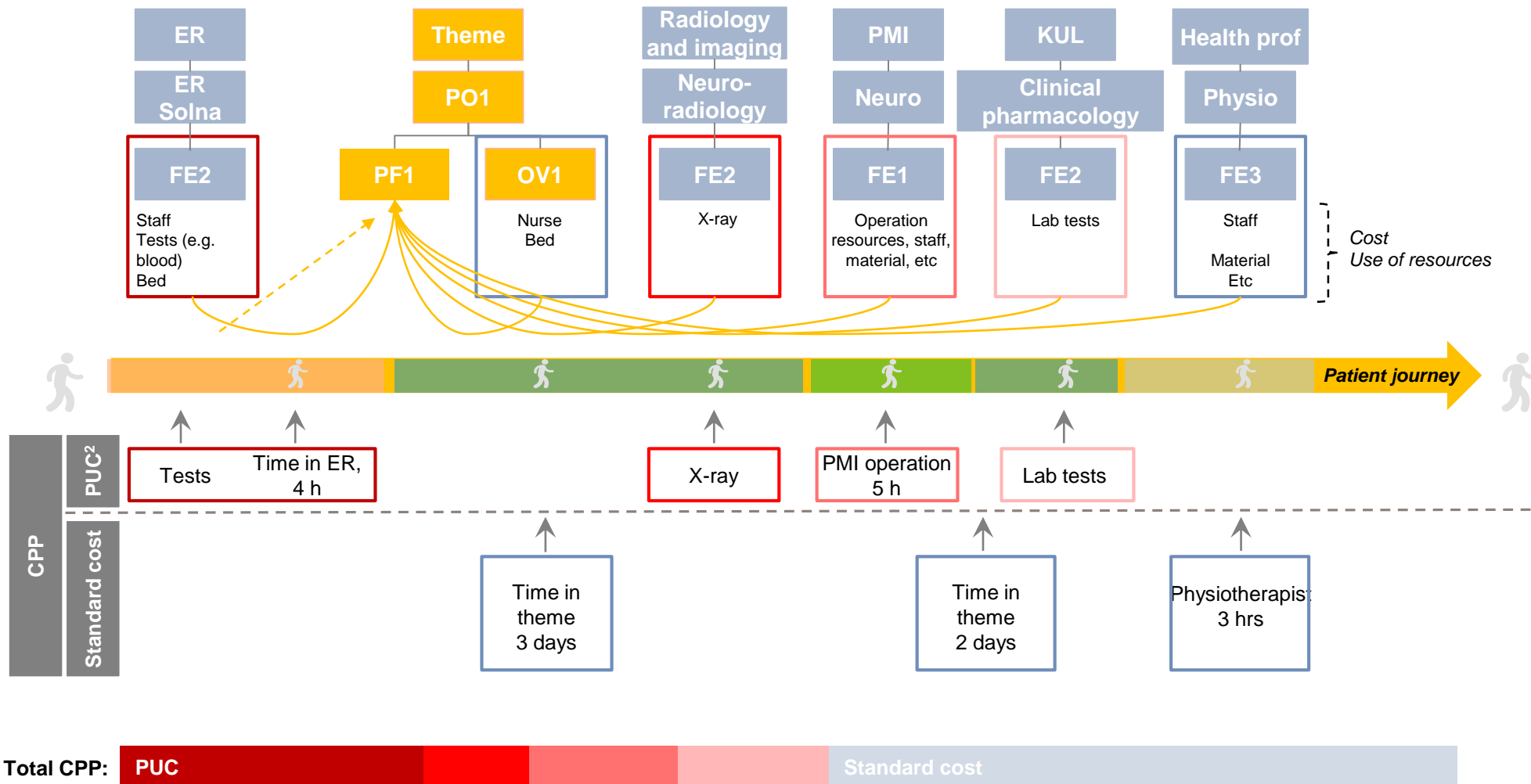
Financial statement



Cost per patient



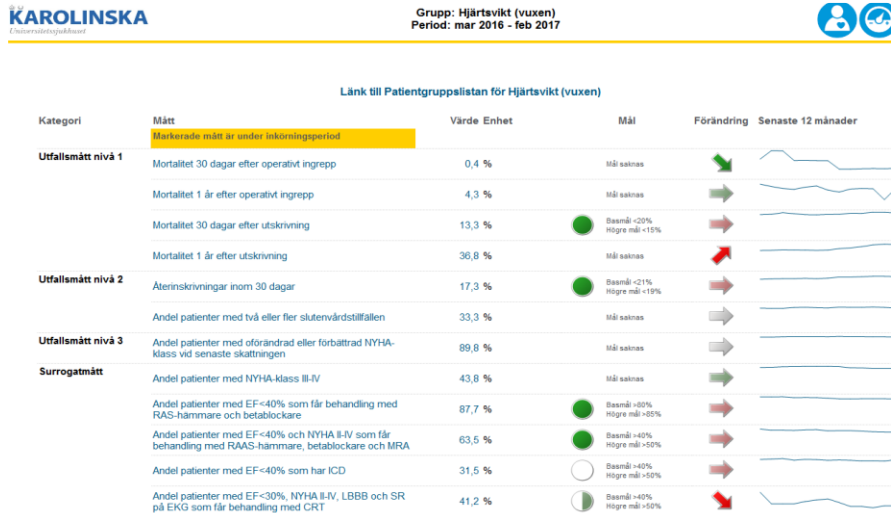
CPP¹ is an important enabler – connecting the patients journey to care events and cost structure



1 Cost per patient
2 Patient Unique Cost

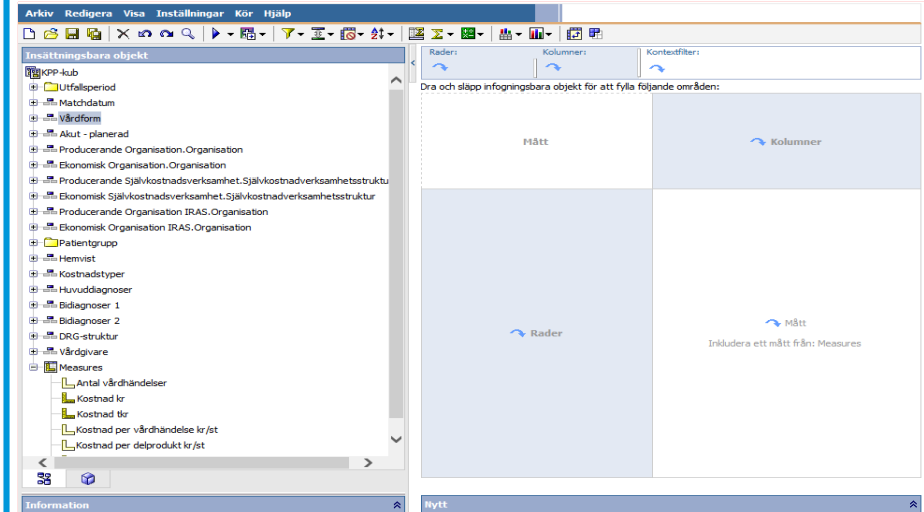
Two additional tools will enable tracking and follow-up on patient group level

1 Digital scorecards



- Automated collection of “value to patient” data
- Enables data driven improvement work

2 Insight reports

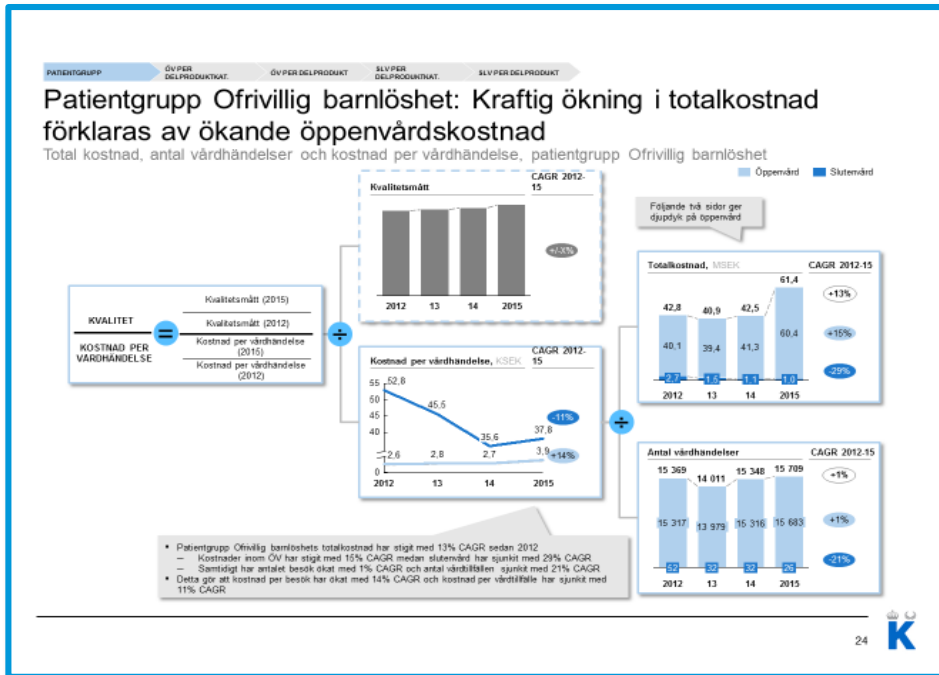


- In-depth analysis
- Used to understand development and make an action plan

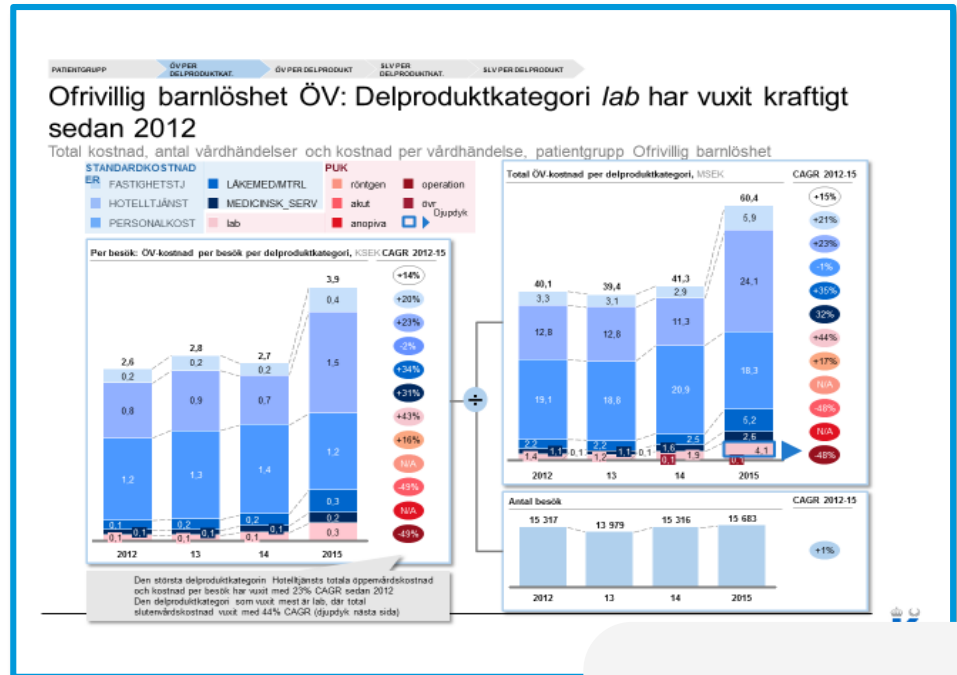
2

Insight reports are produced for each organizational level, enabling follow-up for specific responsibilities

High level reports



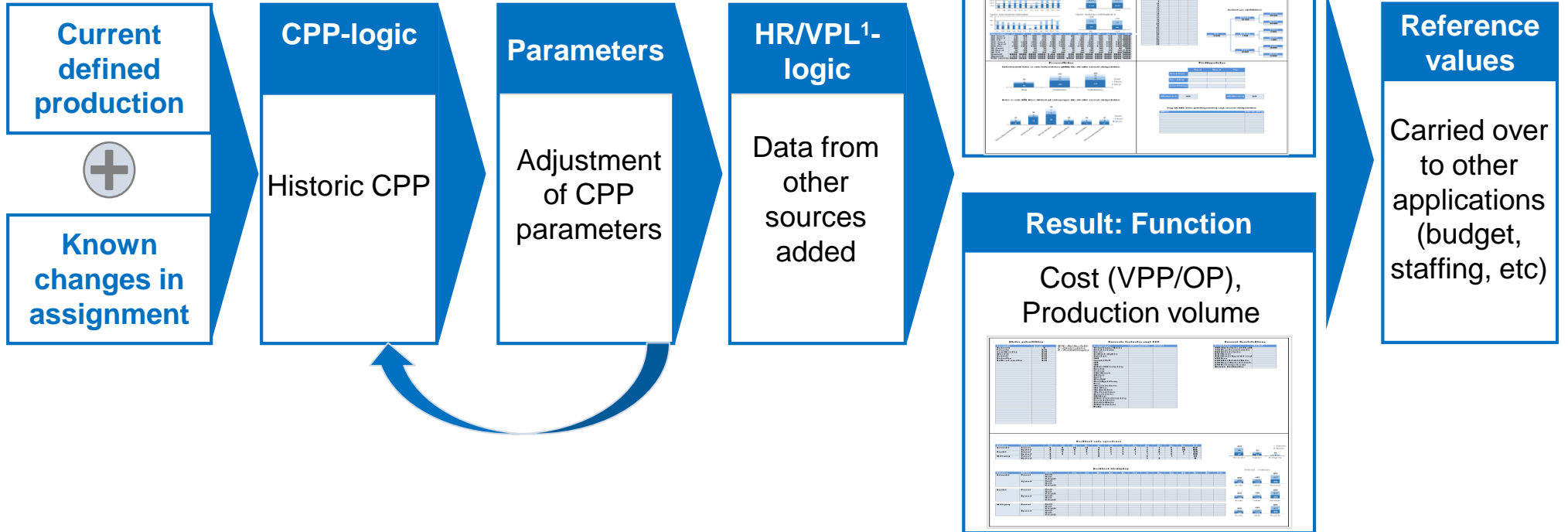
Breakdown of data to find the cause



How is my patient group developing?
 What do I need to focus on to develop?

A Multi Resource Planning tool enables integrated and iterative planning of volumes, resources and finances

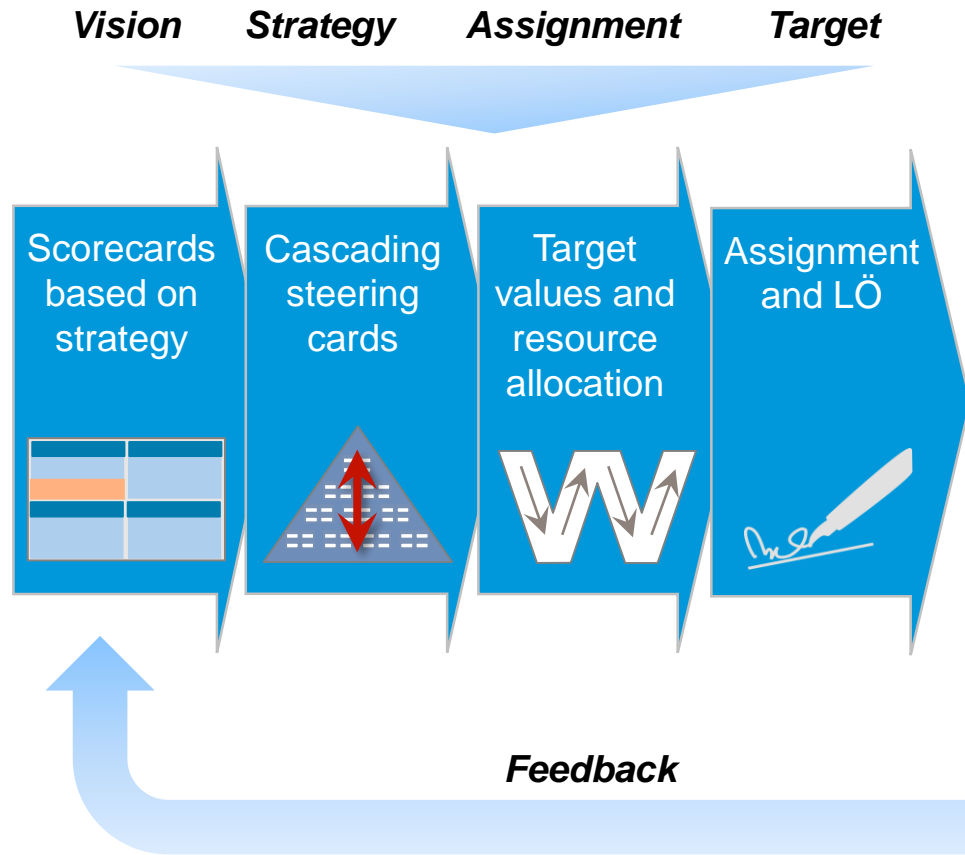
Possibility to do simulations for a workflow



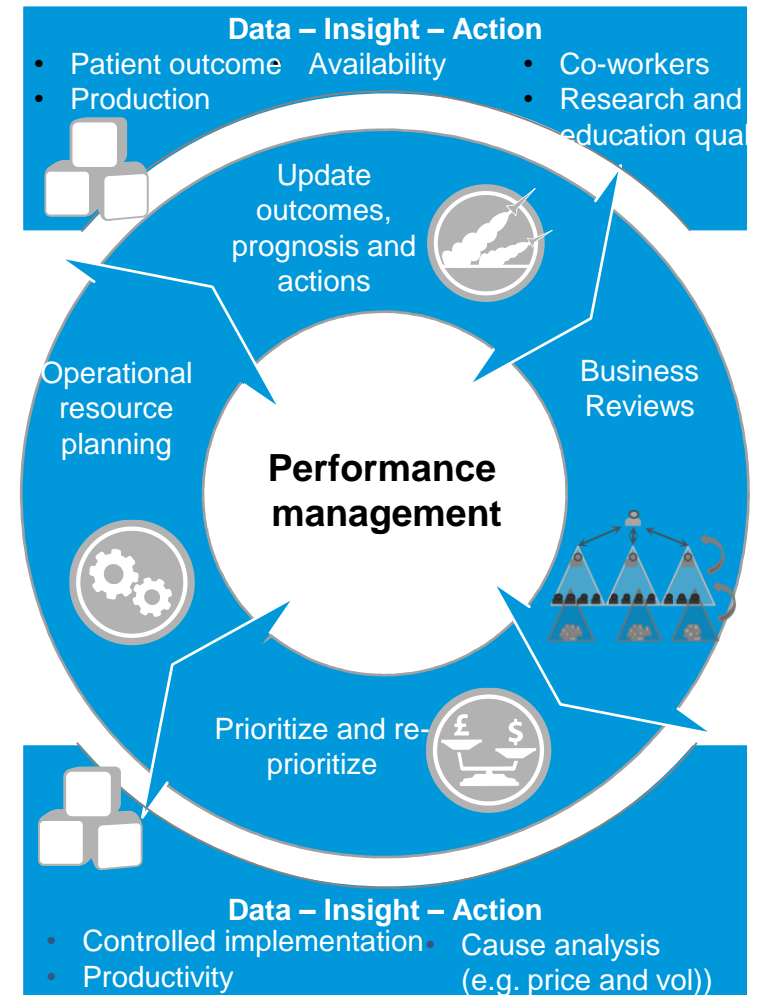
1 VPL = organizational planning

Ambition for organizational planning and performance management at Karolinska University Hospital

“One” planning process



Data – Insight – Action loop

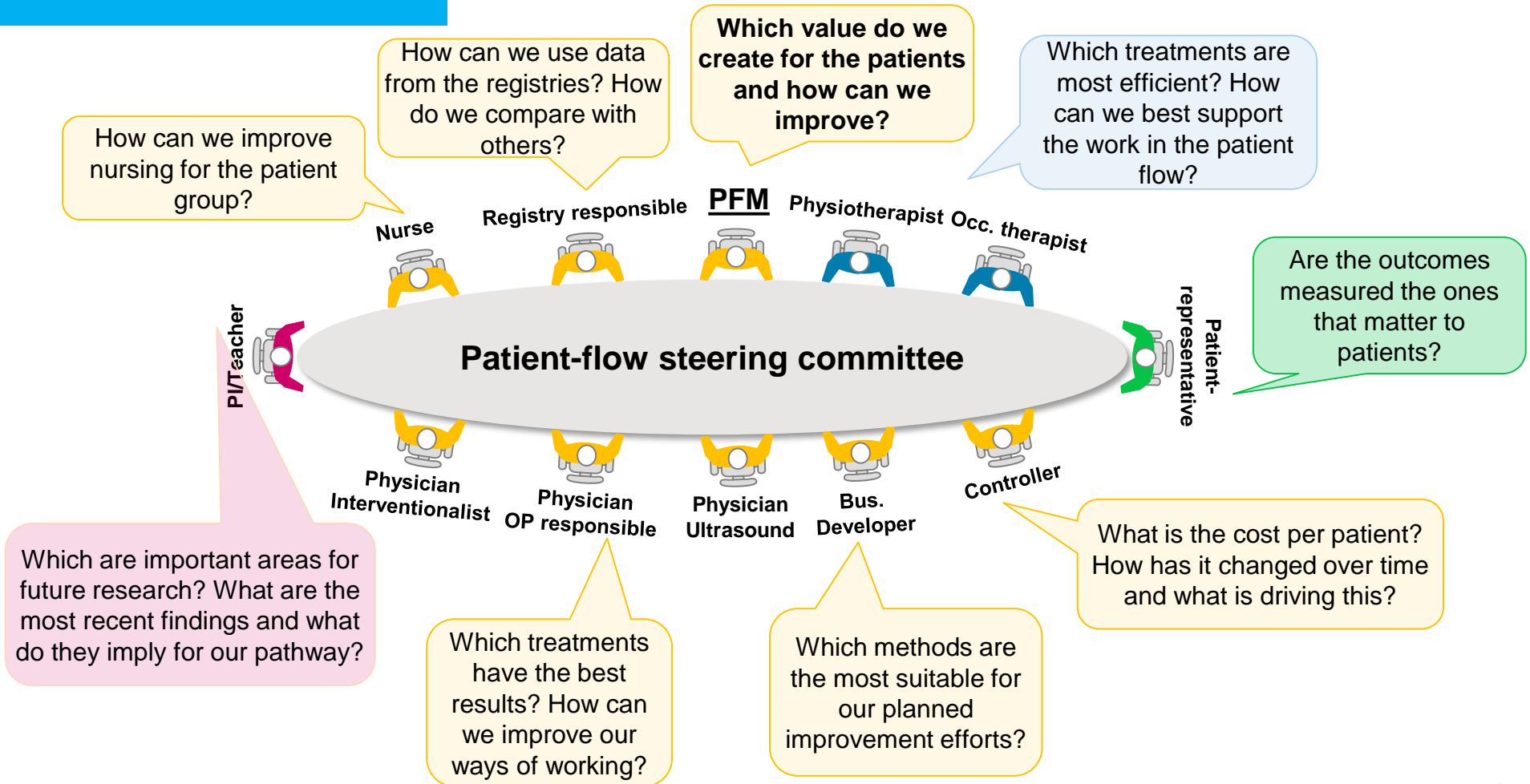


Quote from a nurse:

'For the first time the head of the department/patient area focuses on the outcomes for the patient with heart failure. That didn't happen before.'

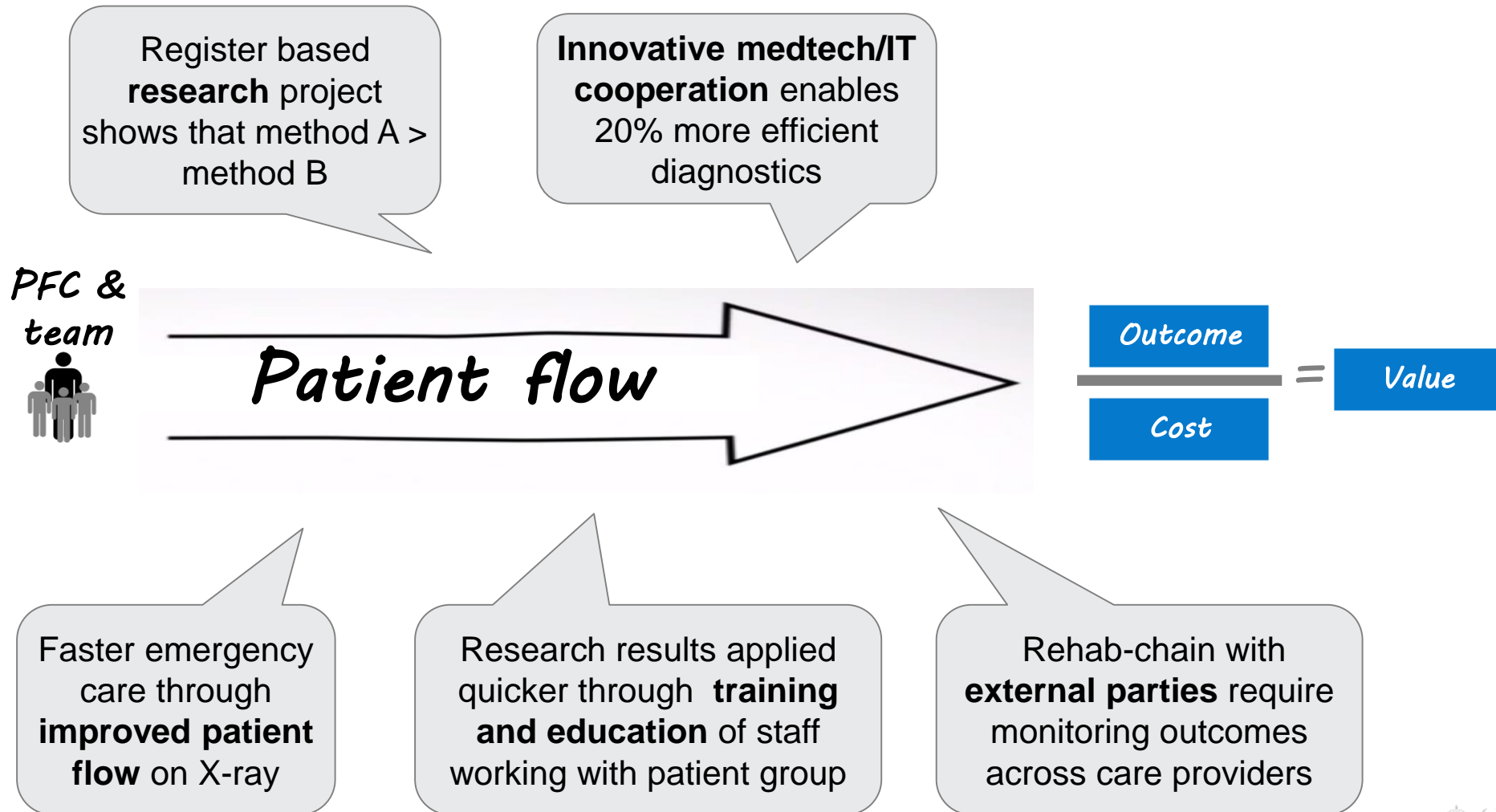
Patient Flow Manager convenes Steering Committee with broad representation from the flow, including patient representation

Heart Failure








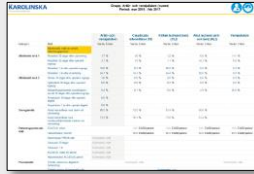



Note: PI, principal investigator; OP, out-patient

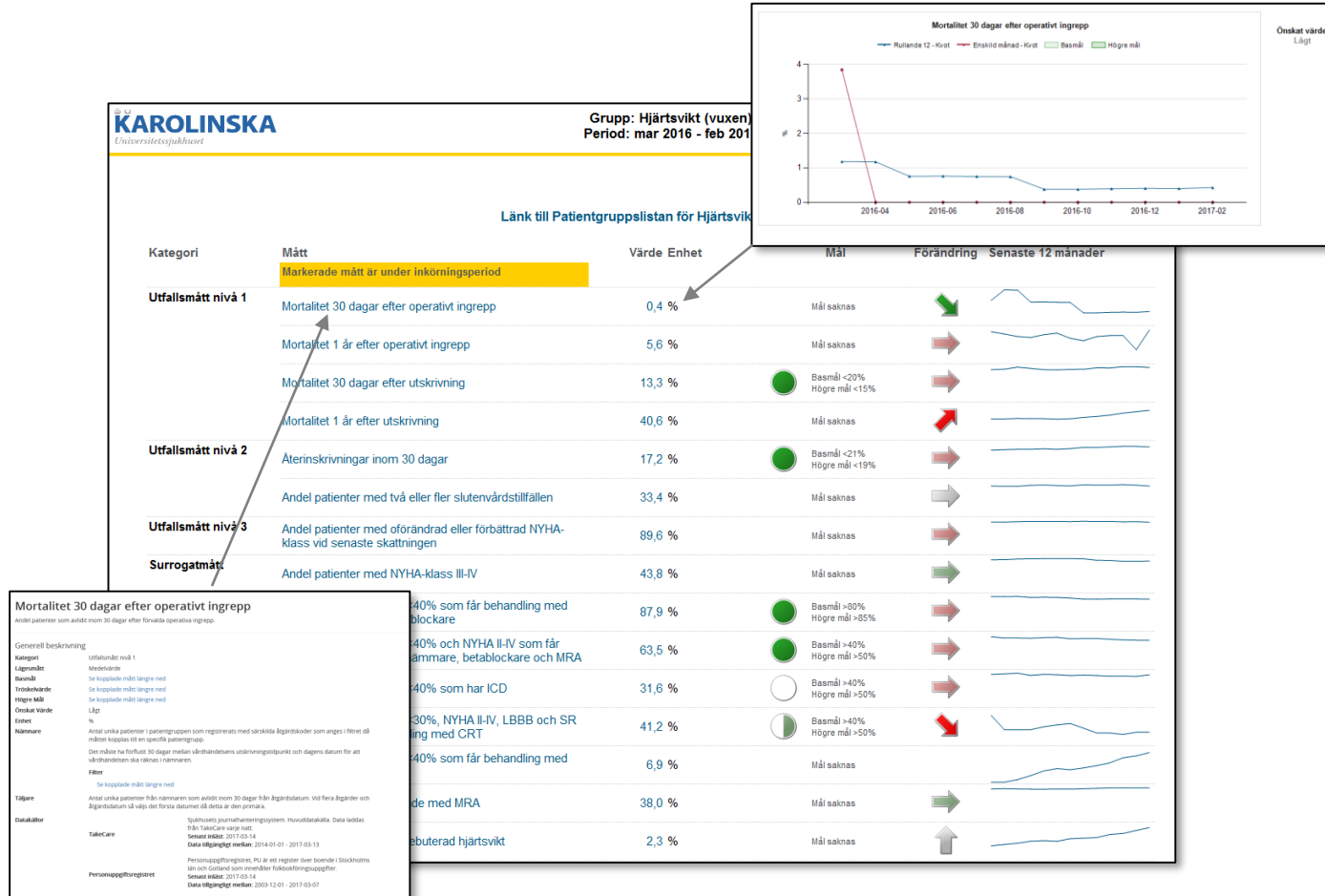
A new role – the Head of the Patient Flow (PFC)



9 digital scorecards

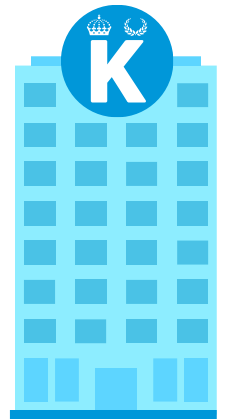
Patientområde Hjärtsvikt och Medfödda Hjärtfel	Patientområde Kranskärls- och hjärtklaffsjukdom	Patientområde Arytmi	Patientområde Kärlsjukdom
			
Hjärtsvikt	Aortaklaff	Bradyarytmi	Aortasjukdom
			
Medfödda hjärtfel - GUCH	Kranskärslsjukdom	Takyarytmi	Artär & vensjukdom
			
	Mitralisklaff		

Heart Failure: The score board allows for monitoring of the patient in a whole new way

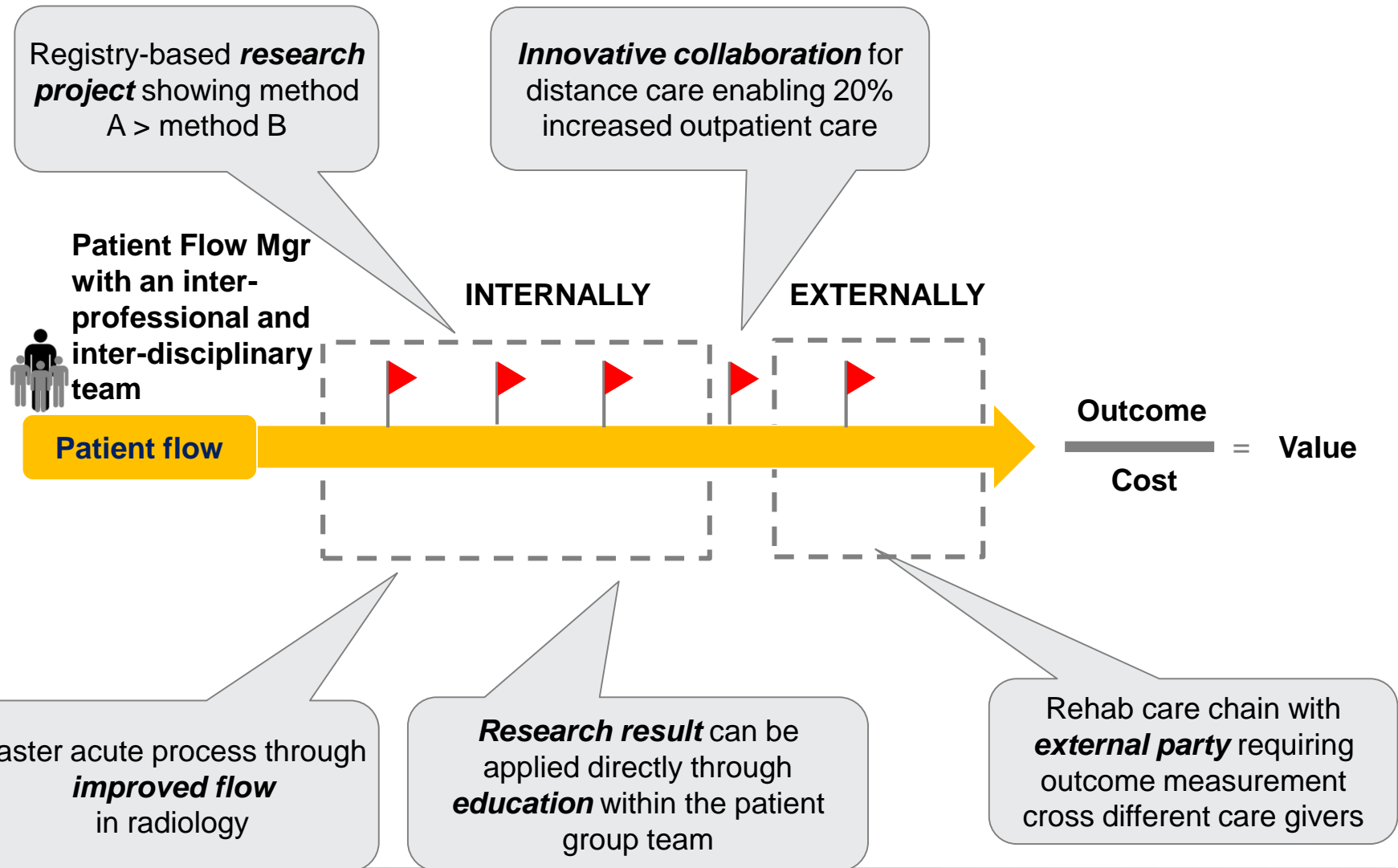


Digital scorecards: Outcomes, resources, research and working environment

- Digital scorecards was developed in cooperation with SwedeHF (Swedish Registry For Heart Failure)
- Data is extracted daily from medical records
- Follow-up and analyze results at each steering committee
- Appropriate measures to improve results
- Scorecards shall include metrics for
 - outcomes for patient
 - economy
 - research and education
 - working environment



The breadth of competence and accountability in the team supports improvement work along the full patient pathway



The two main objectives of Karolinska's new organizational setup

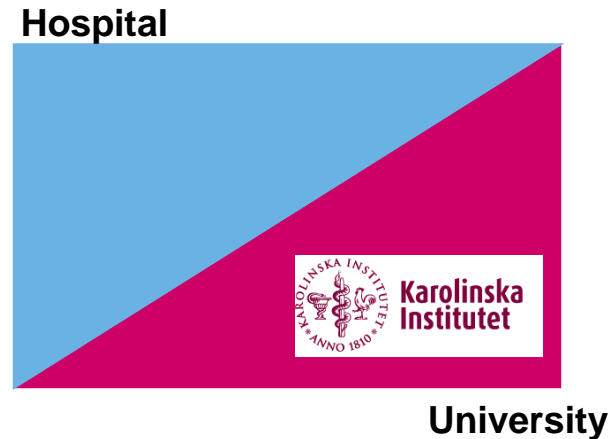
Creating patient centered care by organizing ourselves in teams around the patient flow...



$$\frac{\text{Outcome}}{\text{Cost}} = \text{Value}$$

Centralizing the organization around the patient is a prerequisite for value-based health care

...to shape a new kind of university hospital organization



Enabling a high level of integration between care, research and education

Thank you!



claes.ruth@sll.se

michael.melin@sll.se