



# KTH Vintergata + HERM 3.0

Johan Flid Fridell, EA Verksamhetsarkitekt, KTH



# Verksamhetsarkitektur

- Vi avser att skapa förståelse
- Vi jobbar för att möjliggöra förflyttningar
  
- Till vår hjälp använder vi metoder, modeller och kartor
  - Processkartor
  - Informationsmodeller
  - Förmågekartor
  - Målarkitektur
  - och mycket mycket mer...
  
- Det avgörande är **vem** vi talar med och **vad** vi vill kommunicera. Vilken modell/metod vi använder är alltid sekundärt.
- Detta gör att vi ibland behöver testa olika metoder, modeller och kartor för att träffa rätt.



# Higher Education Reference Model 3.0 (HERM)

- Internationell förmågekarta för högskolor och universitet
- Svensk version utvecklas nu inom ATI-nätverket
  - I arbetsgruppen ingår LU, SU, GU, BTH, KI, ORU, UU, UMU, JU, HHS och KTH.
  - Första versionen av HURM (svenskt arbetsnamn) är troligen klar tidigt 2025
- Inom HERM beskriver man en förmåga som sammansatt av
  - Personer
  - Processer
  - Information
  - Systemstöd



# HIGHER EDUCATION BUSINESS CAPABILITY MODEL

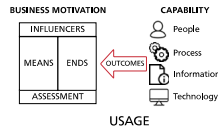


## DESCRIPTION

The Higher Education Business Capability Model describes a standard set of Business Architecture elements relevant to Higher Education. It can be used as a reference for Business Stakeholders, Enterprise Architects, and Technology Strategists to engage in discussion regarding business effectiveness, needs, and challenges. Standing alongside the accompanying Business Model Canvas, the Business Capability Model elaborates the core value chains for higher education and their underlying business capabilities.

## UNDERSTANDING BUSINESS CAPABILITIES

A capability model supports the development of strategies by viewing the business as a collection of capabilities that can be adjusted in response to the demands of the business environment. This model WHAT the organisation is capable of doing. It presents the business capabilities within the wider business context of WHO it serves, relies on, and answers to, extending beyond organisational boundaries. A Business Capability is a particular logical combination of People, Process, Information, and Technology necessary to deliver a discrete required outcome to achieve a specific business objective. The capabilities support the realisation of an institution's strategies.



The Business Capability Model serves as an anchor for assessing perspectives such as strategic importance, maturity, business operational pain points, capital investment, and organisational structure. It presents a view of the organisation with traceability from business objectives through to the information, technology, and other resources required to support them.

## MAJOR CONCEPTS

Typically an **ORGANISATIONAL STRUCTURE** would be included to provide context for the scope of the model.

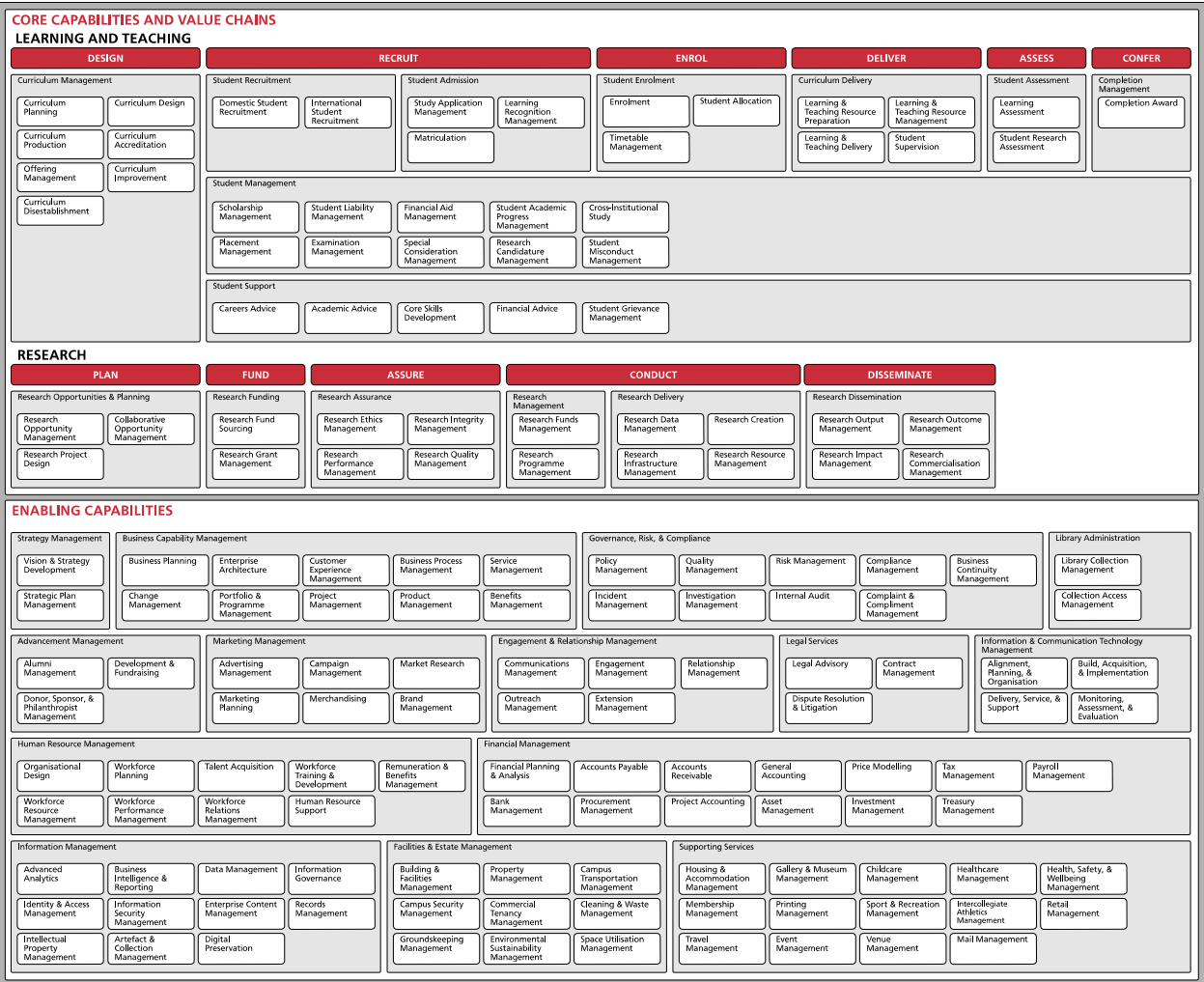
**VALUE CHAINS** capture how the institution generates value through Learning & Teaching and Research.

**CORE CAPABILITIES** that directly support the Value Chains are organised under the relevant Value Chain Segment.

**ENABLING CAPABILITIES** support the core capabilities across the value chains and keep the institution running.

## BUSINESS CAPABILITY CATALOGUE

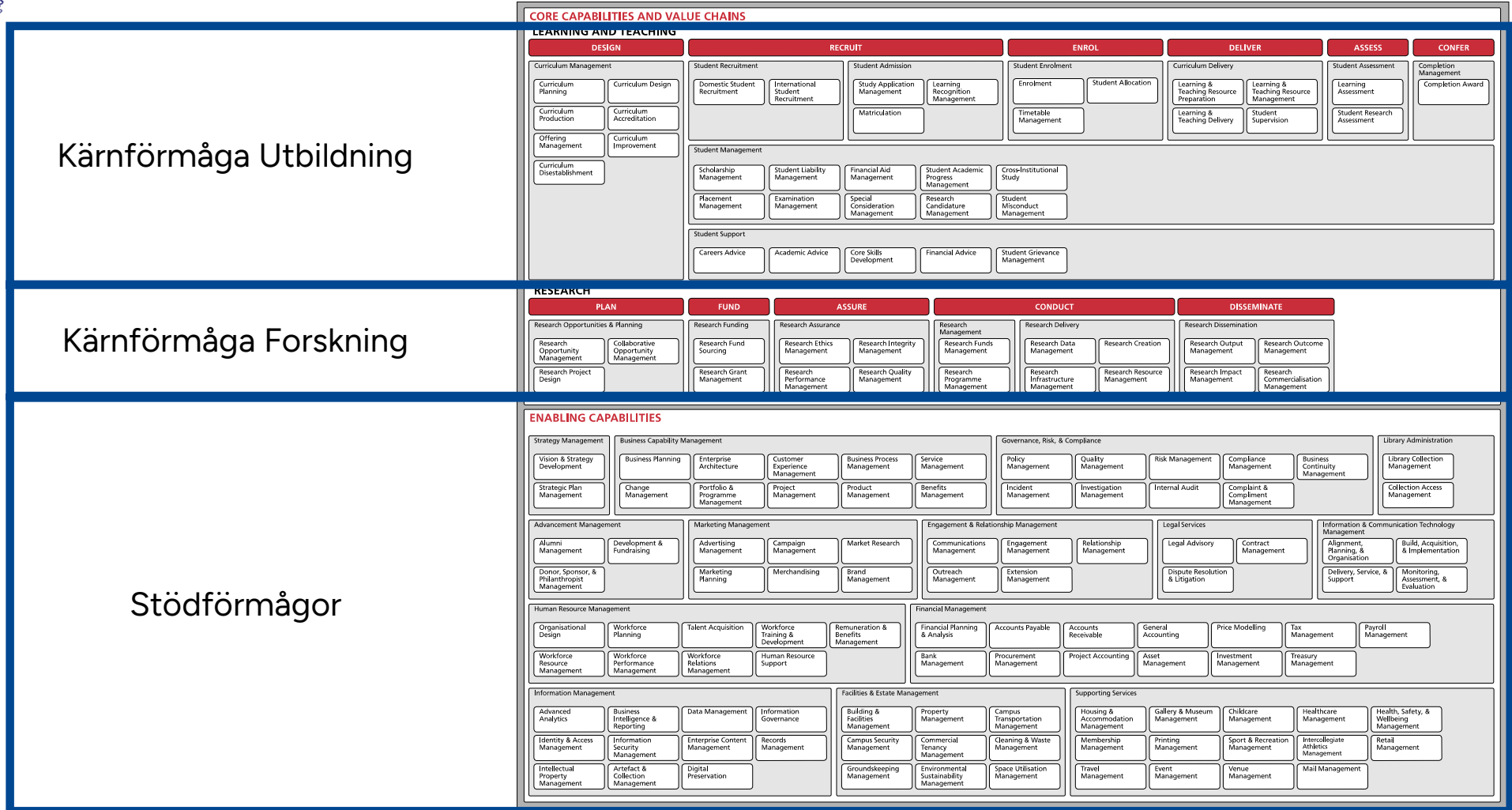
The accompanying business capability catalogue provides definitions and supporting information for each element in the model.



Version 3.0.0, © 2024 CAUDIT; The Higher Education Reference Model is maintained by the CAUDIT Enterprise Architecture Community of Practice. The model is offered under the Creative Commons 4.0 CC BY-NC-SA license, and may be used freely by educational institutions but may not be bundled, sublicensed, or used for commercial purpose. Extensions to the reference model must be shared with CAUDIT to enable ongoing evolution and to maximise benefit to the wider community. Elements of this model have alignment with the APQC open standard. CAUDIT acknowledges warmly the generous contribution of FromHereOn Pty Ltd to the Higher Education Reference Model. Please visit <https://caudit.edu.au> for more information, and email [herm-feedback@googlegroups.com](mailto:herm-feedback@googlegroups.com) with any feedback, suggestions, questions, and share-alike submissions.

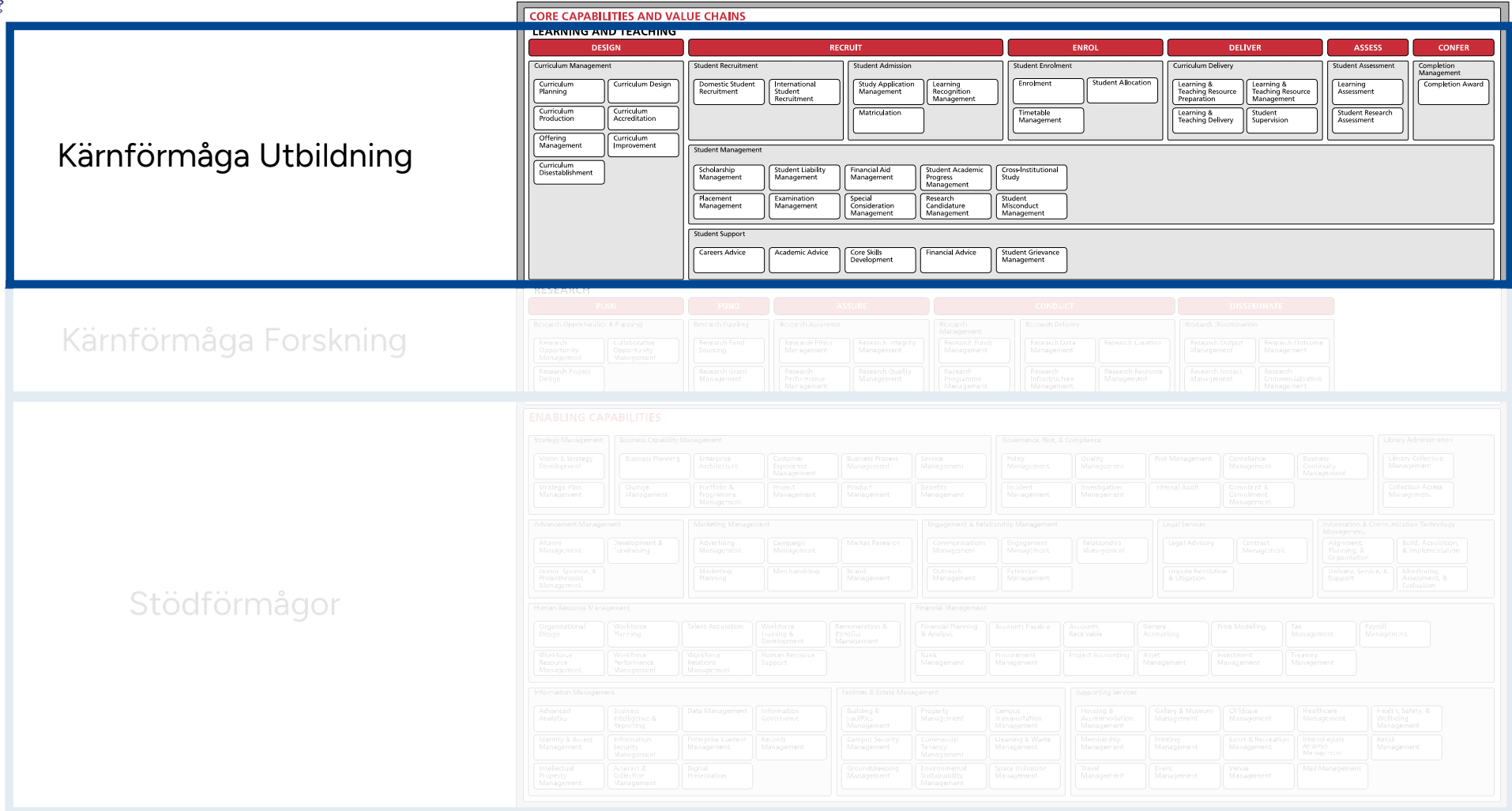


# HIGHER EDUCATION BUSINESS CAPABILITY MODEL



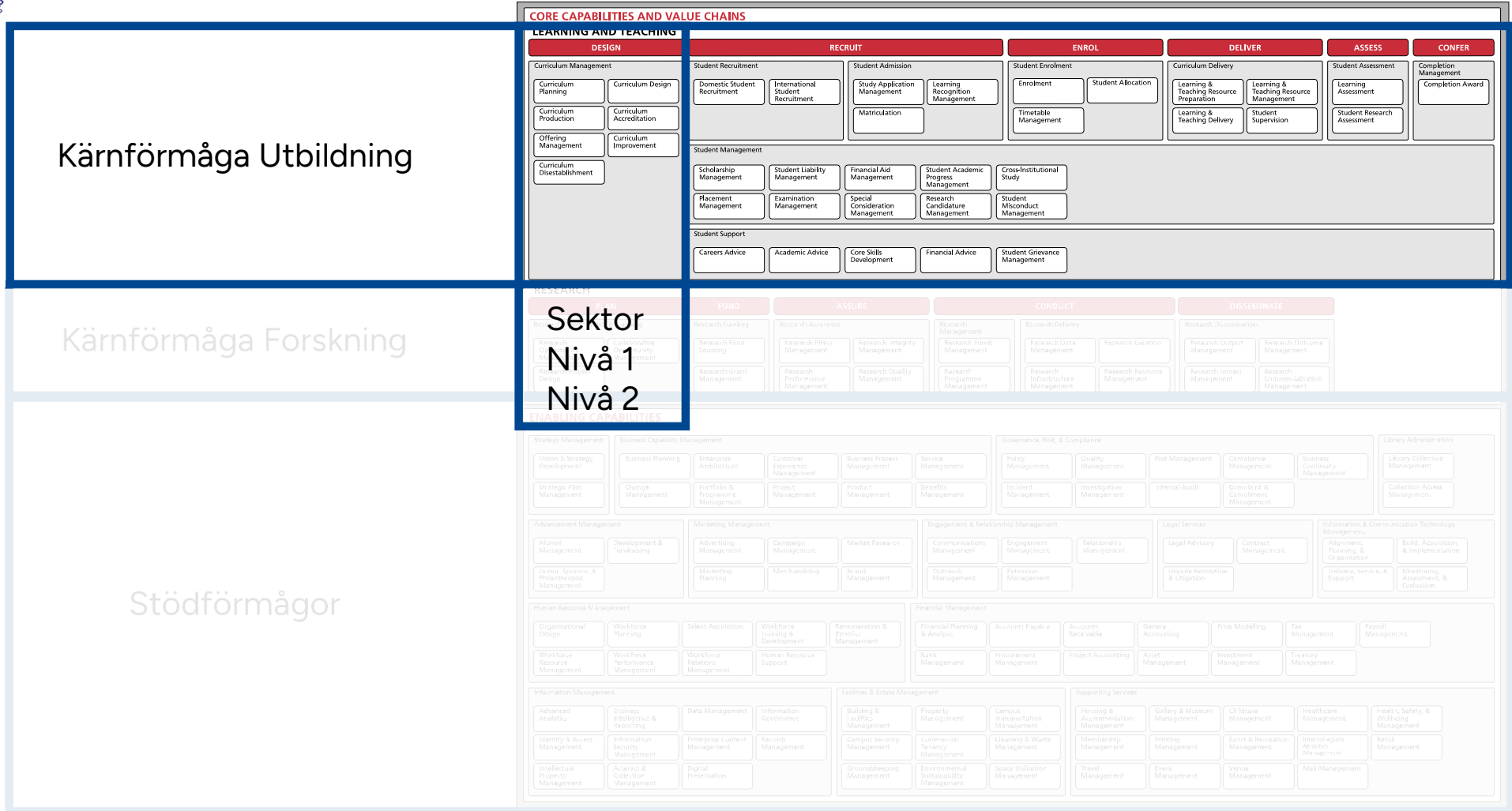


# HIGHER EDUCATION BUSINESS CAPABILITY MODEL





# HIGHER EDUCATION BUSINESS CAPABILITY MODEL

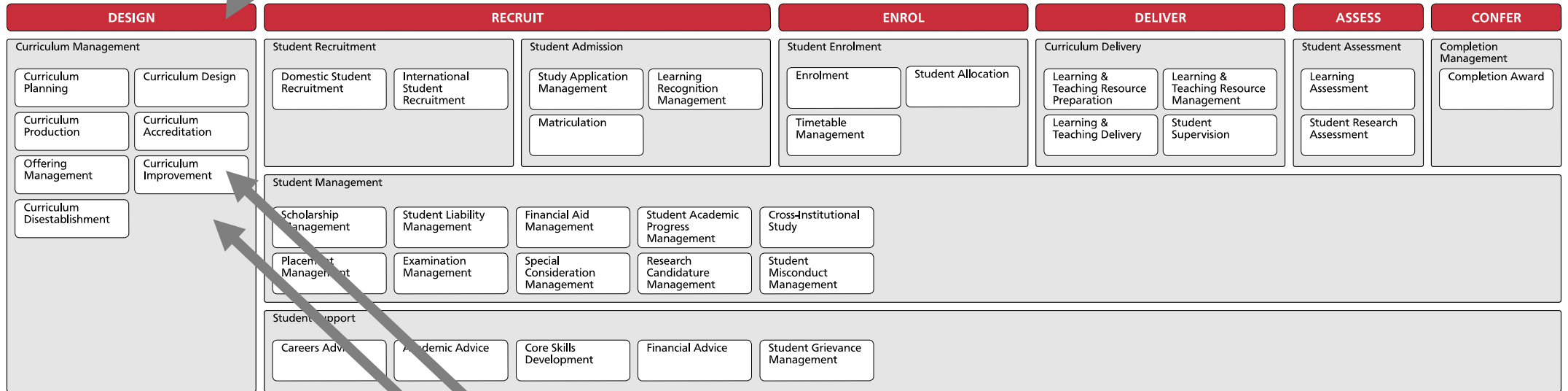




# Kärnförmåga Utbildning

Värdeflöde

## LEARNING AND TEACHING



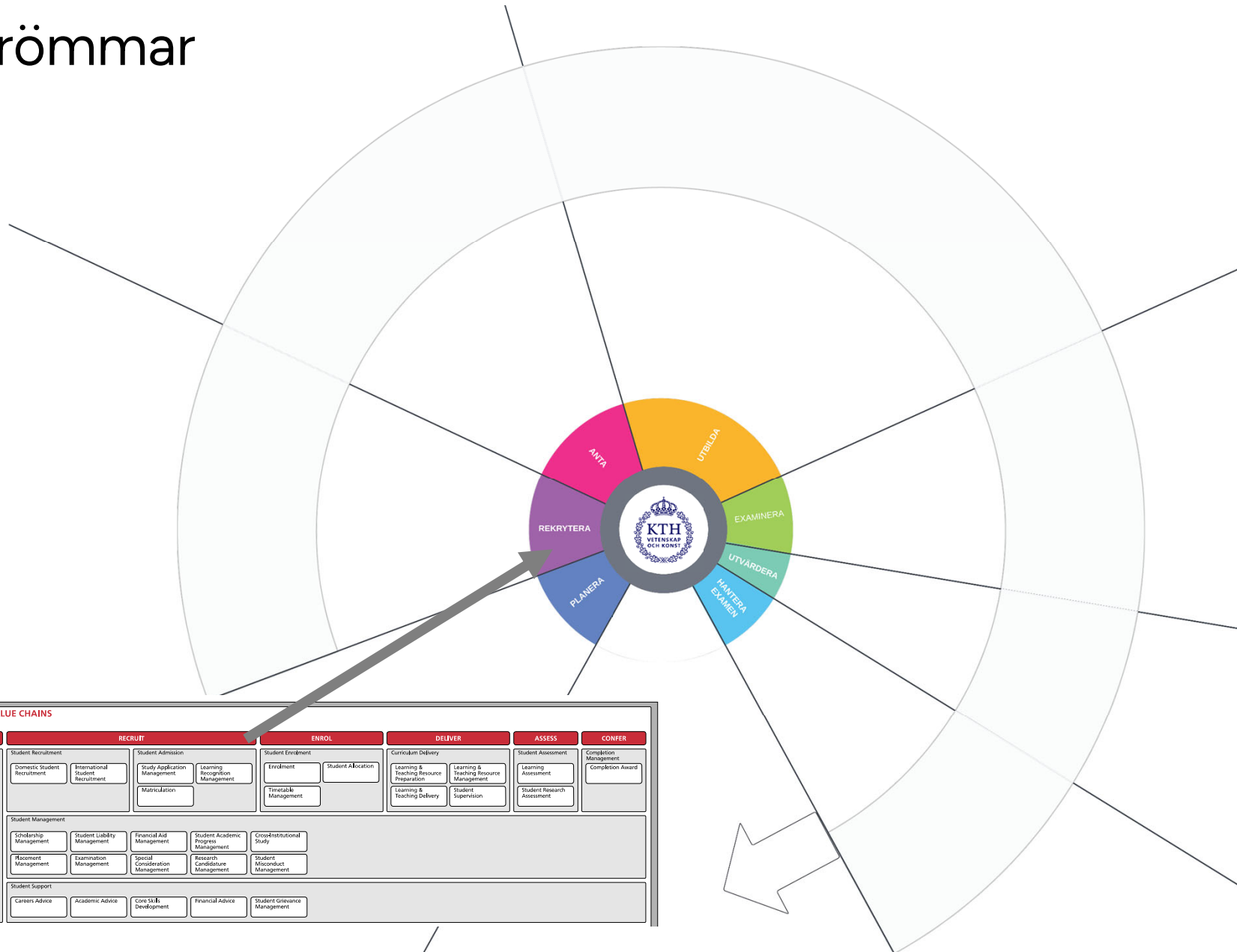
Nivå 1 Förmåga: Studentrekrytering

Nivå 2 Förmåga: Nationell studentrekrytering



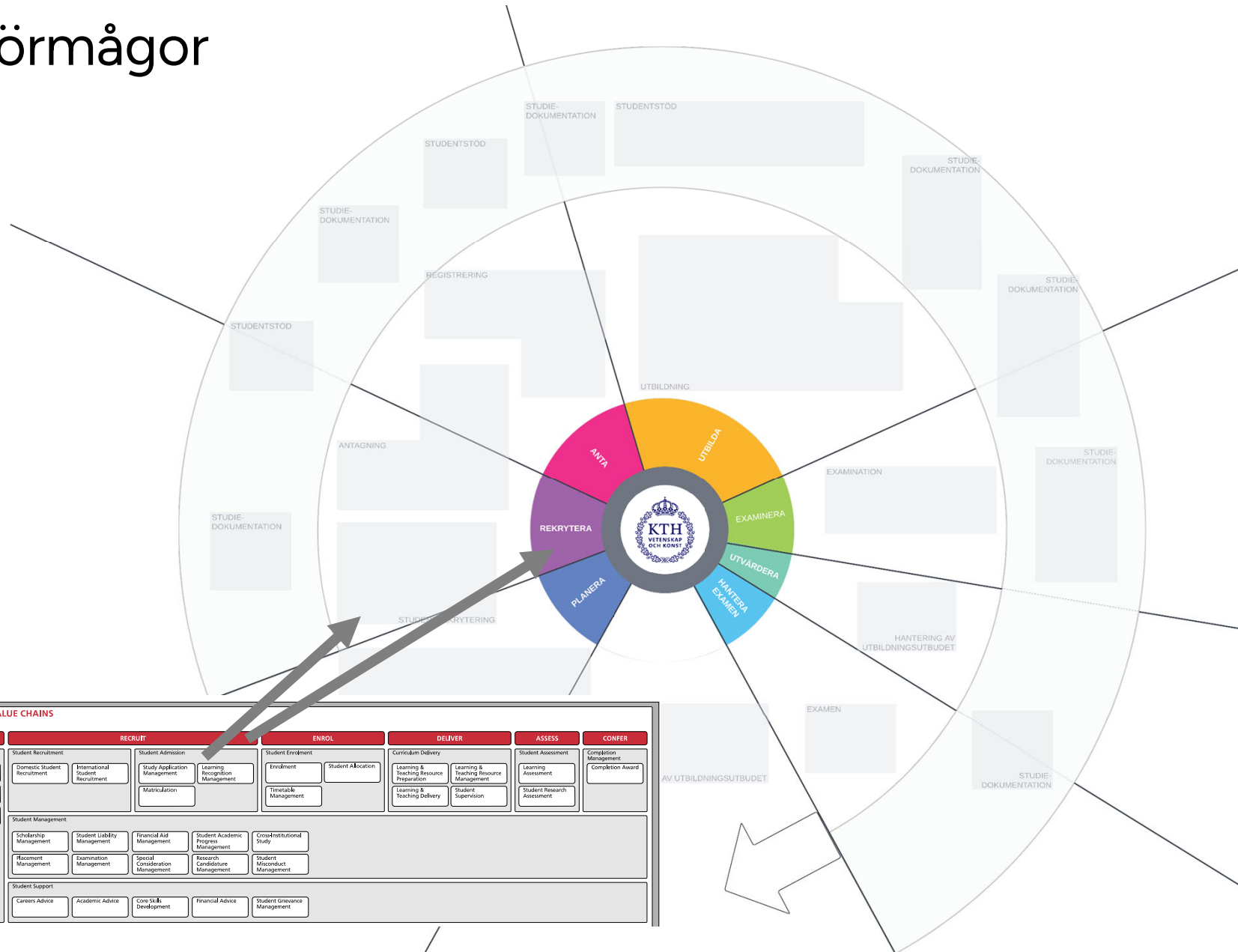


# Värdeströmmar



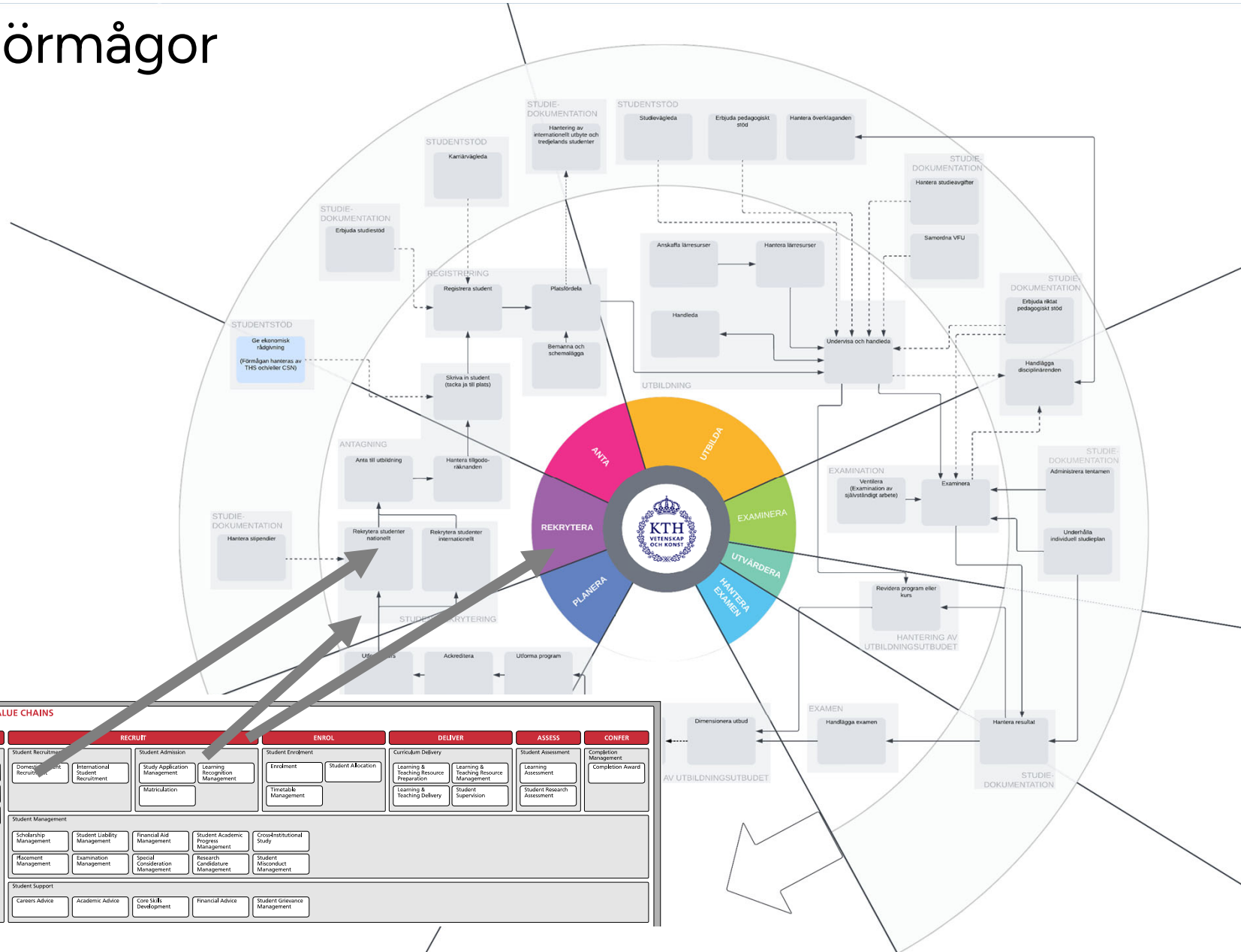
CORE CAPABILITIES AND VALUE CHAINS						
LEARNING AND TEACHING						
DESIGN	RECRUIT		ENROL	DELIVER	ASSESS	CONFER
Curriculum Management	Student Recruitment	Student Admission	Student Enrolment	Curriculum Delivery	Student Assessment	Completion Management
Curriculum Planning	Domestic Student Recruitment	Study Application Management	Enrolment	Learning & Teaching Resource Preparation	Learning Assessment	Completion Award
Curriculum Production	International Student Recruitment	Learning Recognition Management	Student Allocation	Learning & Teaching Resource Management	Student Research Assessment	
Curriculum Accreditation		Matriculation	Timetable Management	Learning & Teaching Delivery	Student Supervision	
Offering Management						
Curriculum Improvement						
Curriculum Disestablishment						
	Student Management					
	Scholarship Management	Student Liability Management	Financial Aid Management	Student Academic Progress Management	Cross-Institutional Study	
	Placement Management	Examination Management	Social Consideration Management	Research Candidature Management	Student Misconduct Management	
	Student Support					
	Careers Advice	Academic Advice	Core Skills Development	Financial Advice	Student Grievance Management	

# Nivå 1 Förmågor



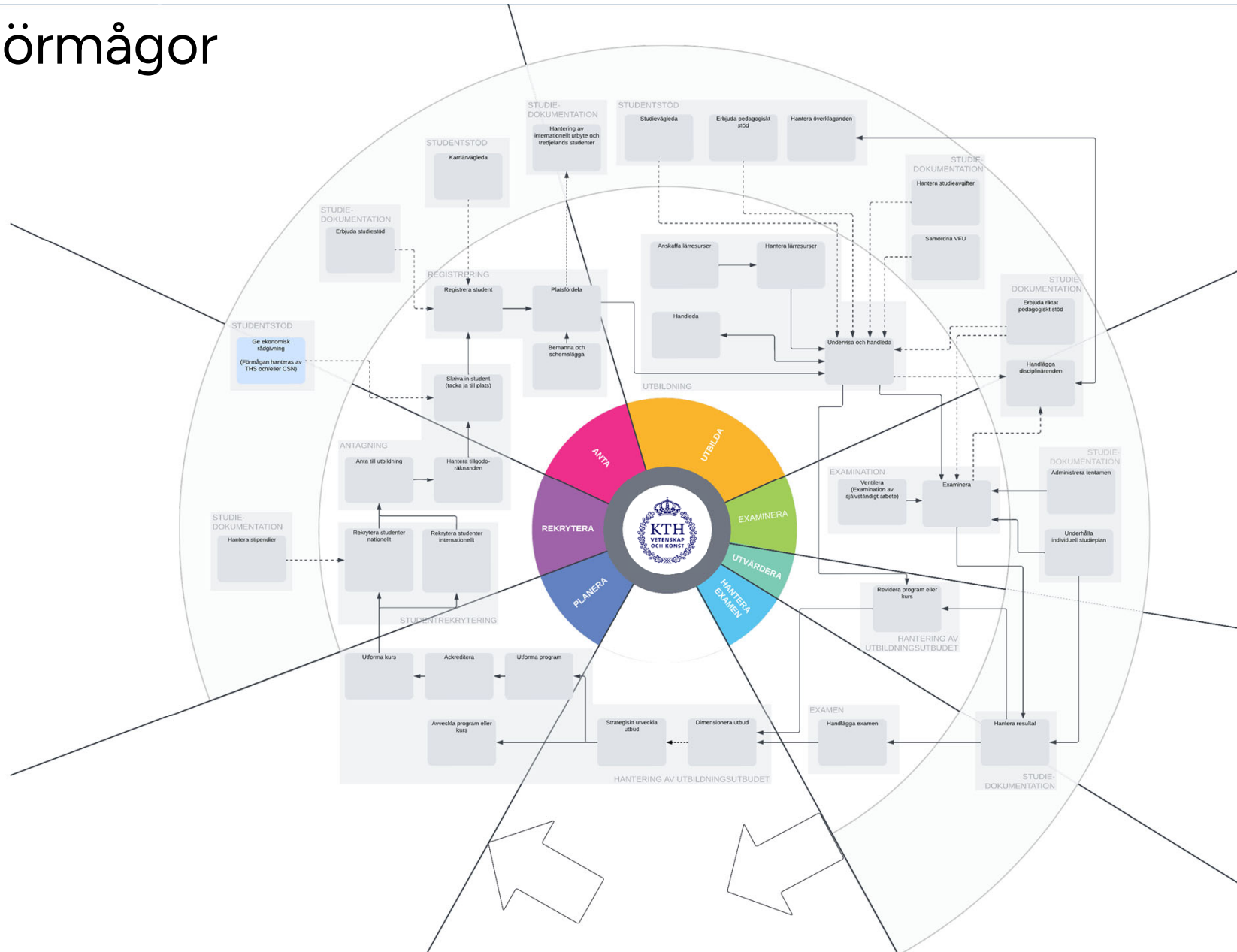
CORE CAPABILITIES AND VALUE CHAINS						
LEARNING AND TEACHING						
DESIGN	RECRUIT		ENROL	DELIVER	ASSESS	CONFER
Curriculum Management	Student Recruitment	Student Admission	Student Enrolment	Curriculum Delivery	Student Assessment	Completion Management
Curriculum Planning	Domestic Student Recruitment	Study Application Management	Enrolment	Learning & Teaching Resource Preparation	Learning Assessment	Completion Award
Curriculum Production	International Student Recruitment	Learning Recognition Management	Student Allocation	Learning & Teaching Resource Management	Student Research Assessment	
Curriculum Accreditation		Matriculation	Timetable Management	Learning & Teaching Delivery	Student Supervision	
Offering Management						
Curriculum Improvement						
Curriculum Disestablishment						
	Student Management					
	Scholarship Management	Student Liability Management	Financial Aid Management	Student Academic Progress Management	Cross-Institutional Study	
	Placement Management	Examination Management	Social Consideration Management	Research Candidature Management	Student Misconduct Management	
	Student Support					
	Careers Advice	Academic Advice	Core Skills Development	Financial Advice	Student Grievance Management	

# Nivå 2 Förmågor



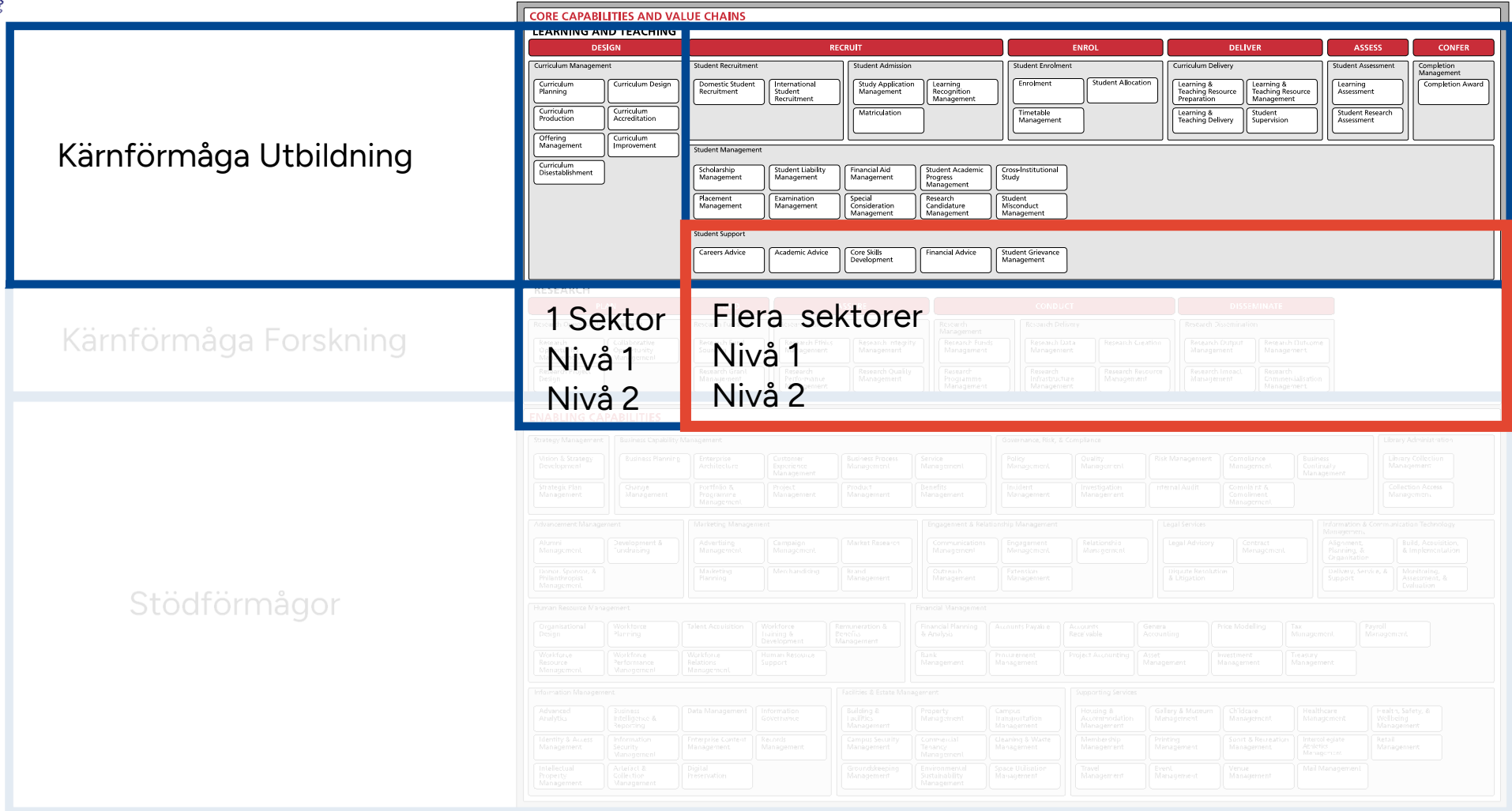
CORE CAPABILITIES AND VALUE CHAINS						
LEARNING AND TEACHING						
DESIGN	RECRUIT		ENROL	DELIVER	ASSESS	CONFER
Curriculum Management	Student Recruitment	Student Admission	Student Enrollment	Curriculum Delivery	Student Assessment	Completion Management
Curriculum Planning	Domestic Student Recruitment	Study Application Management	Enrollment	Learning & Teaching Resource Preparation	Learning Assessment	Completion Award
Curriculum Production	International Student Recruitment	Learning Recognition Management	Student Allocation	Learning & Teaching Resource Management	Student Research Assessment	
Curriculum Accreditation		Matriculation	Timetable Management	Learning & Teaching Delivery	Student Supervision	
Offering Management	Student Management					
Curriculum Improvement	Scholarship Management	Student Liability Management				
Curriculum Disestablishment	Placement Management	Financial Aid Management				
	Examination Management	Student Academic Progress Management				
	Social Consideration Management	Research Candidature Management				
	Student Support	Student Misconduct Management				
	Careers Advice	Academic Advice	Core Skills Development	Financial Advice	Student Grievance Management	

# Nivå 2 Förmågor



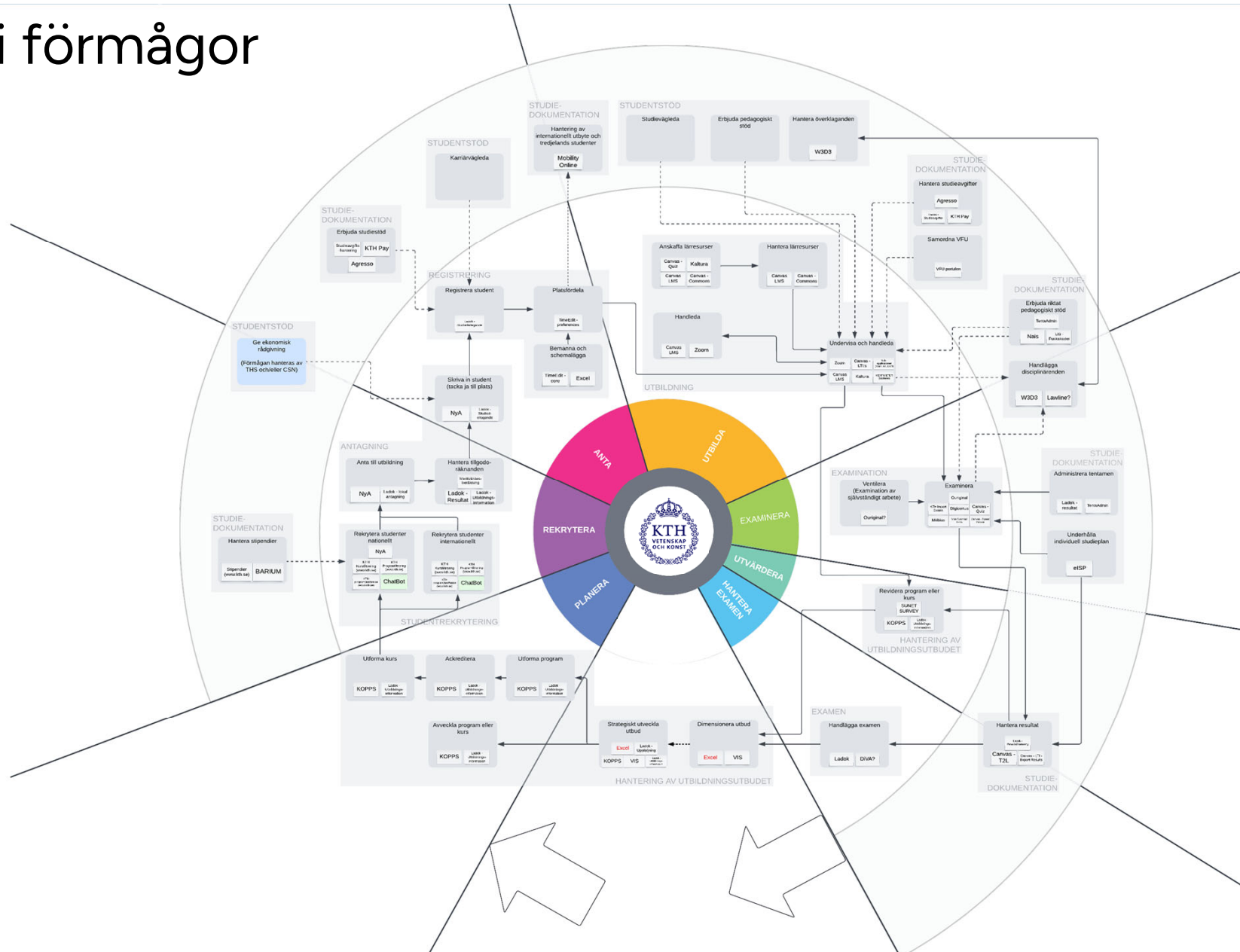


# HIGHER EDUCATION BUSINESS CAPABILITY MODEL





# IT-stöd i förmågor







# Metod för att bygga Vintergatan

Johan Flid Fridell, Verksamhetsarkitekt

# Metod

- Jag byggde en enkel grundmall i LucidChart (digital whiteboard)
- Jag frågar värdeströmmarna och använde dessa som sektorer (men adderade **utvärdering**)
- Jag använde en **hypotetisk studentresa** för att placera ut **nivå 1** och **nivå 2**-förmågor samt **relationer** (heldragen linje) mellan förmågorna där de utbyter information för att stödja studentresan.
- Genomförde ett antal iterationer för att få ut förmågorna i en relativt logisk följd. Mycket dra och släppa förmågor för att få till det.
- Lade till ett "sektorsövebyggande" fält för förmågor som inte tydligt hör hemma i en viss sektor
- Mappade **primära IT-system** som ingår i de olika förmågorna
- Lade till **lösa relationer** (punktstreckad linje) för de förmågor som bara är aktuella "ibland"

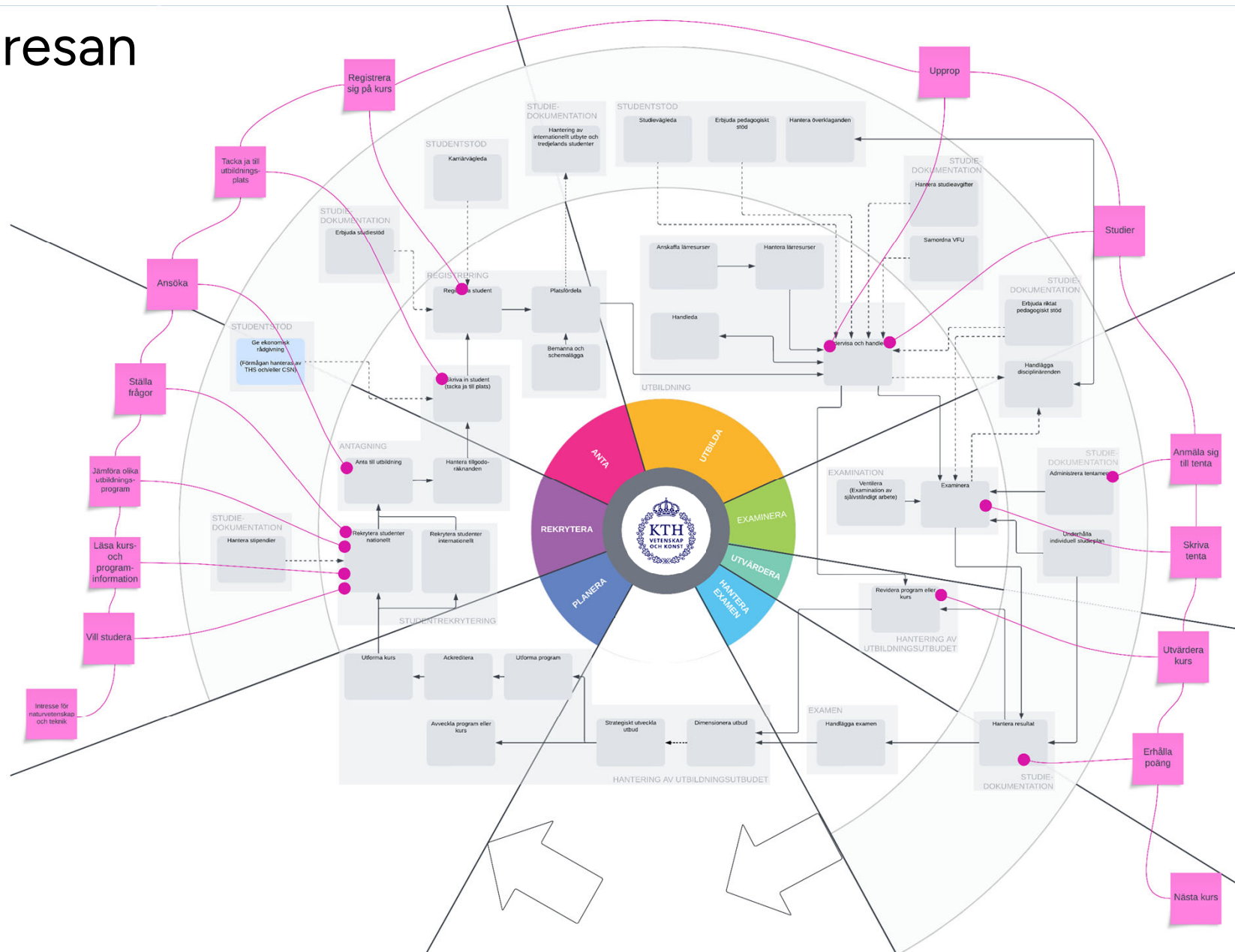
Detta är fortfarande en tidig skiss som kommer utvecklas ytterligare, inte sett till relationer mellan förmågor och vilka IT-system som bygger förmågor



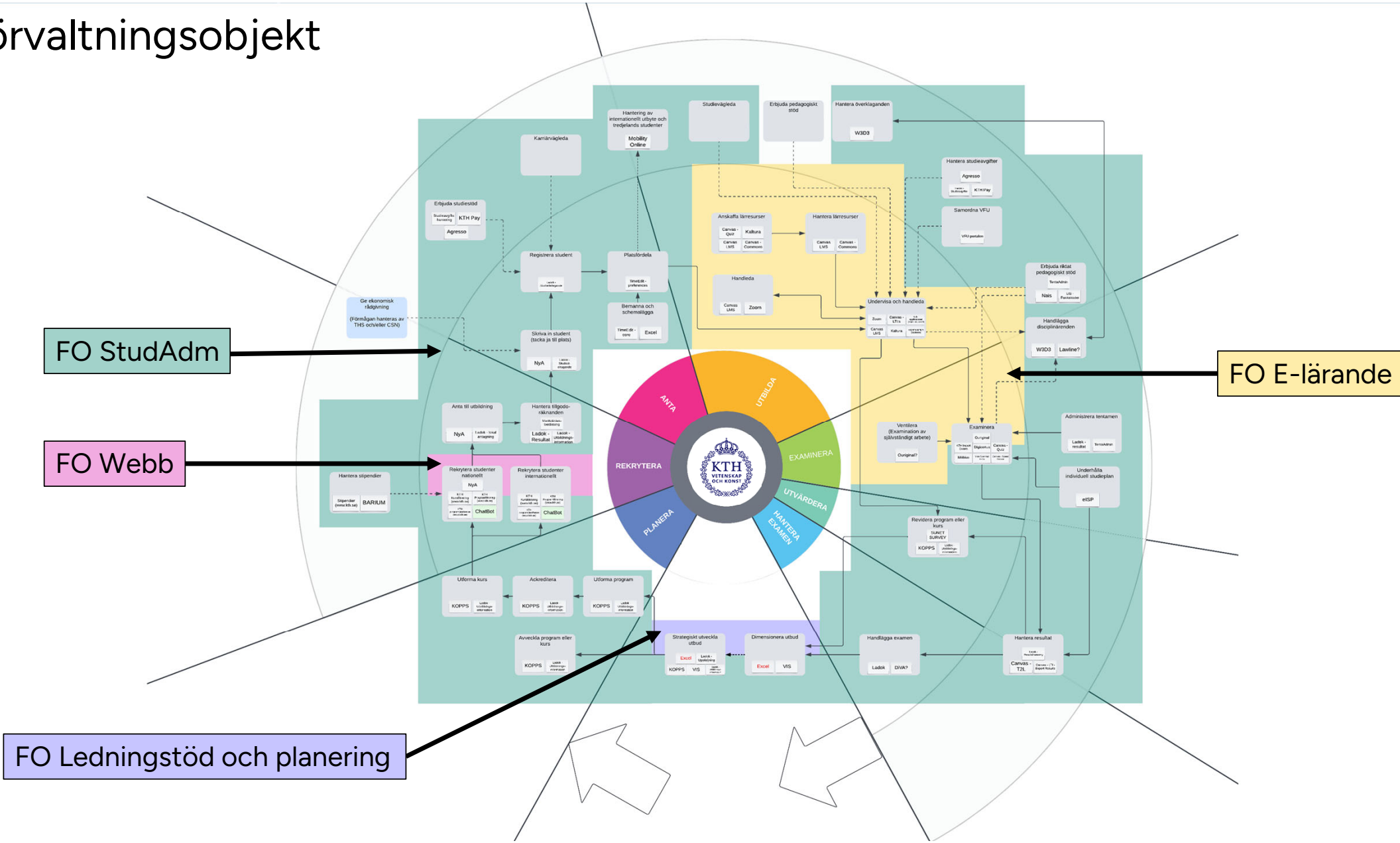
# Vyer + Vintergatan

Johan Flid Fridell, Verksamhetsarkitekt

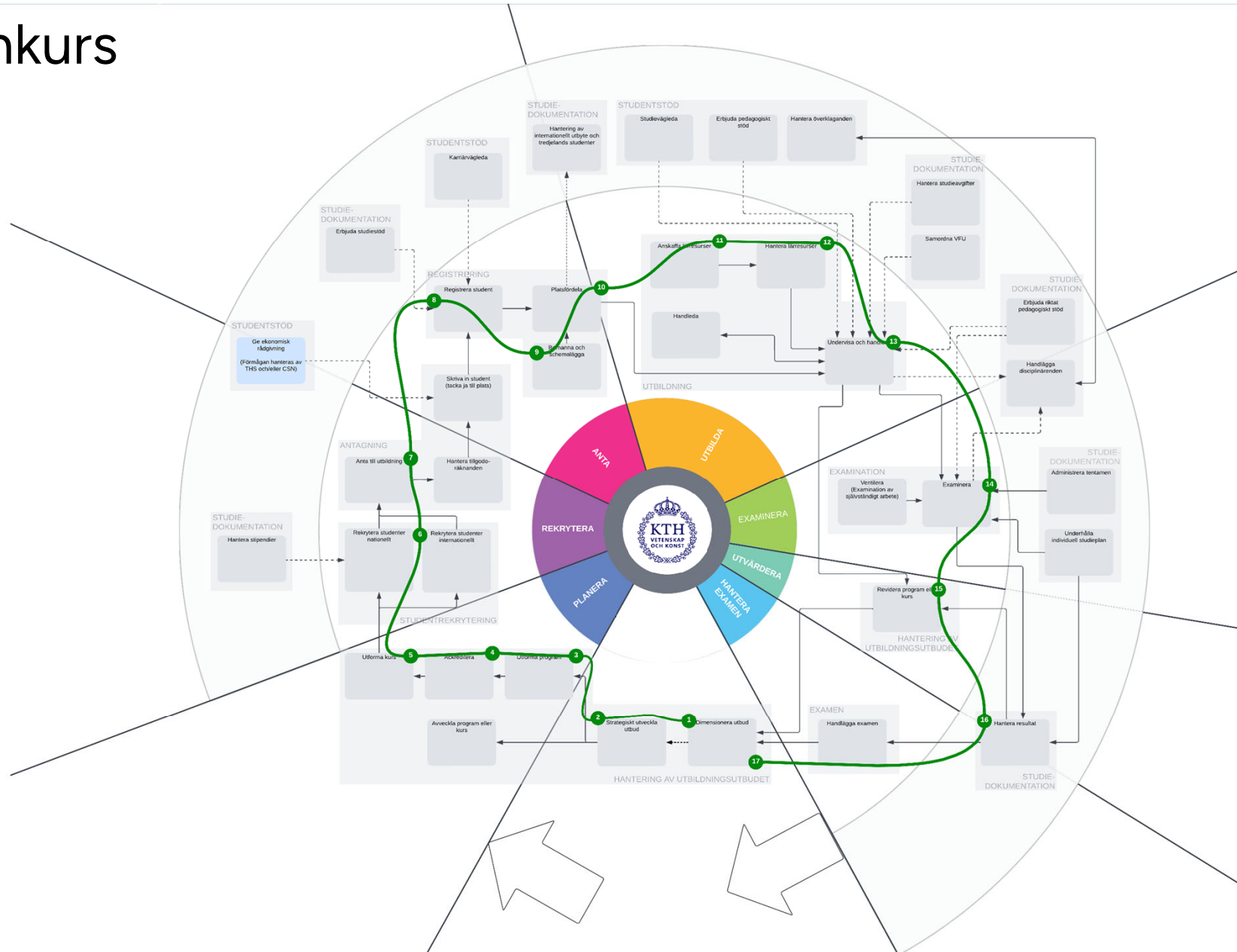
# Studentresan



# Förvaltningsobjekt

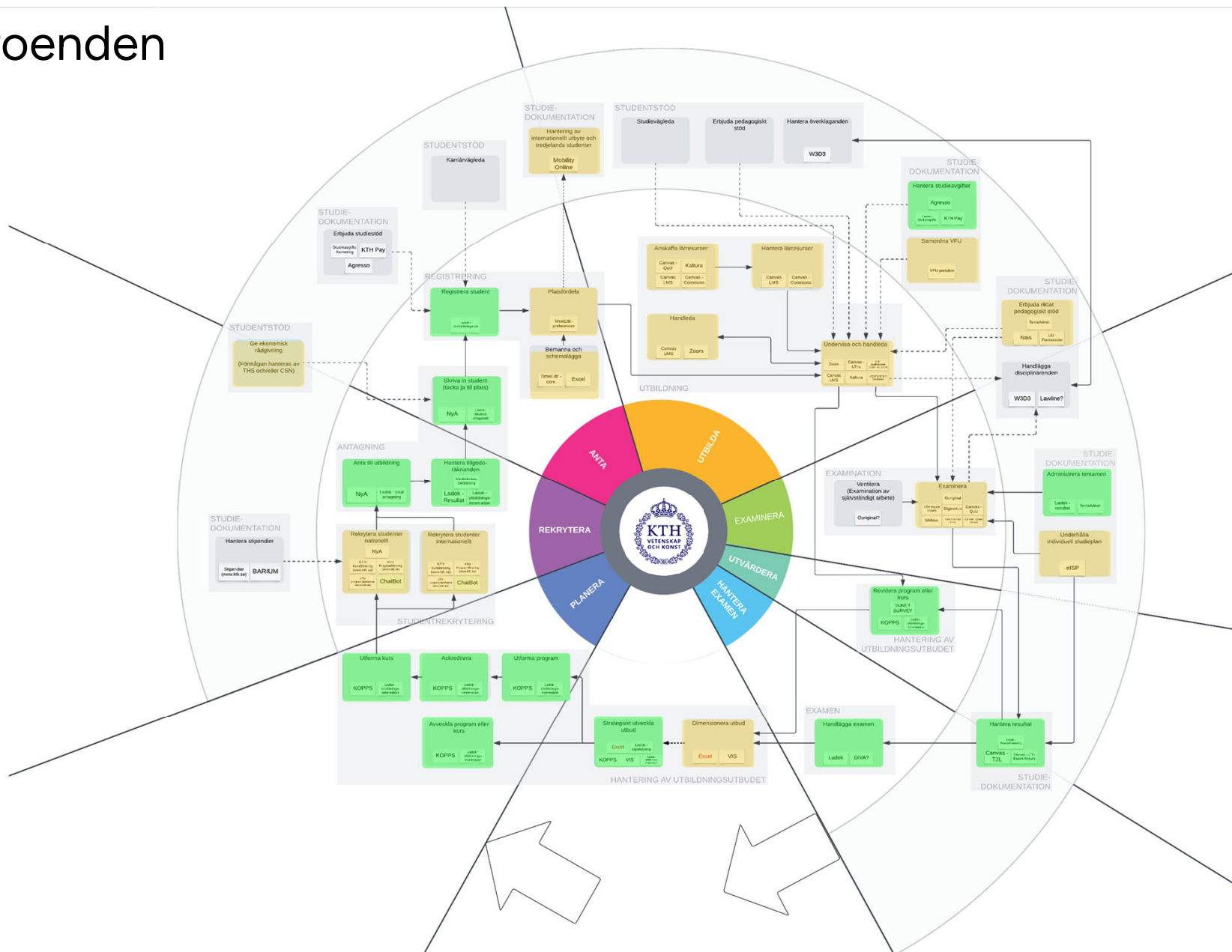


# Programkurs





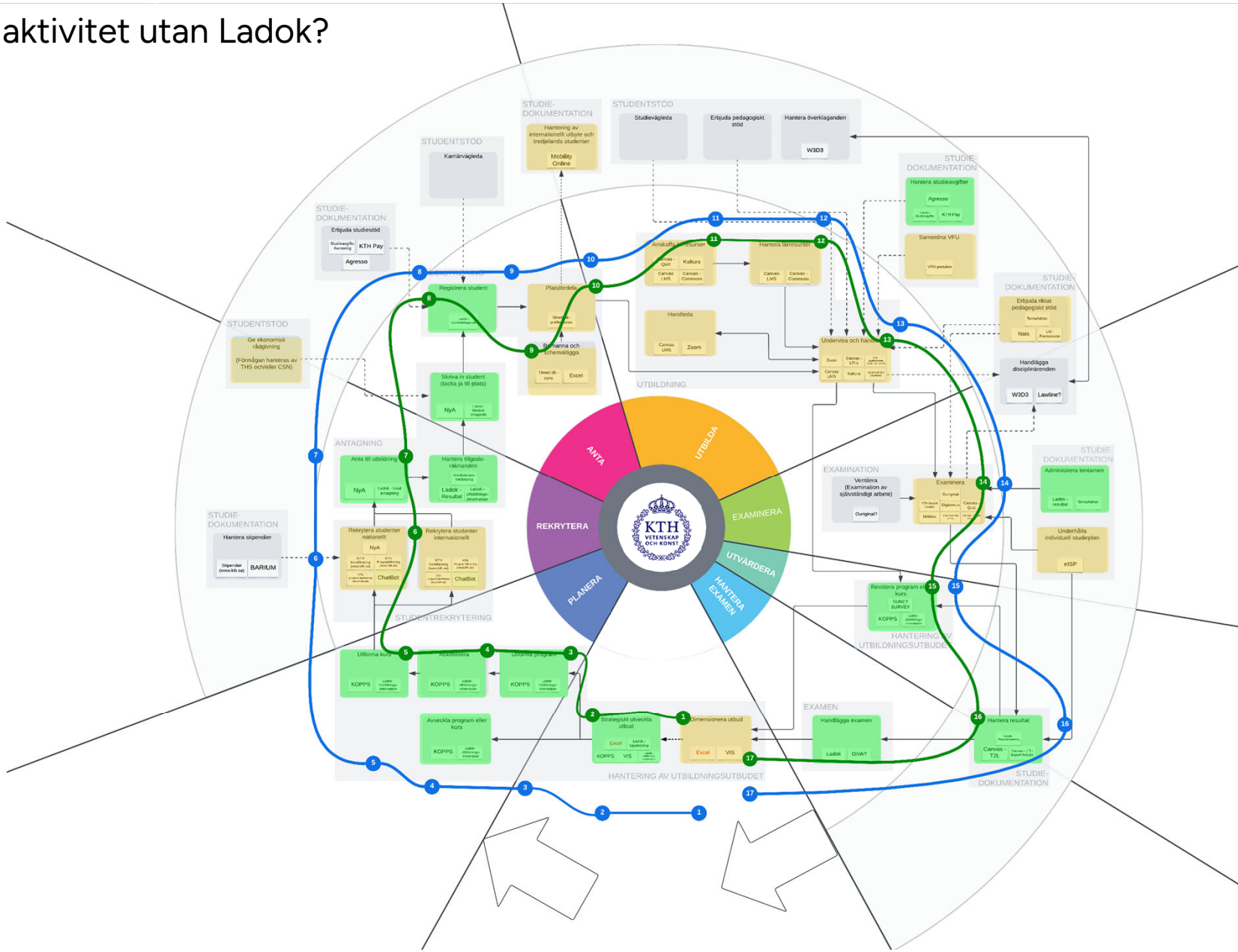
# Ladokberoenden



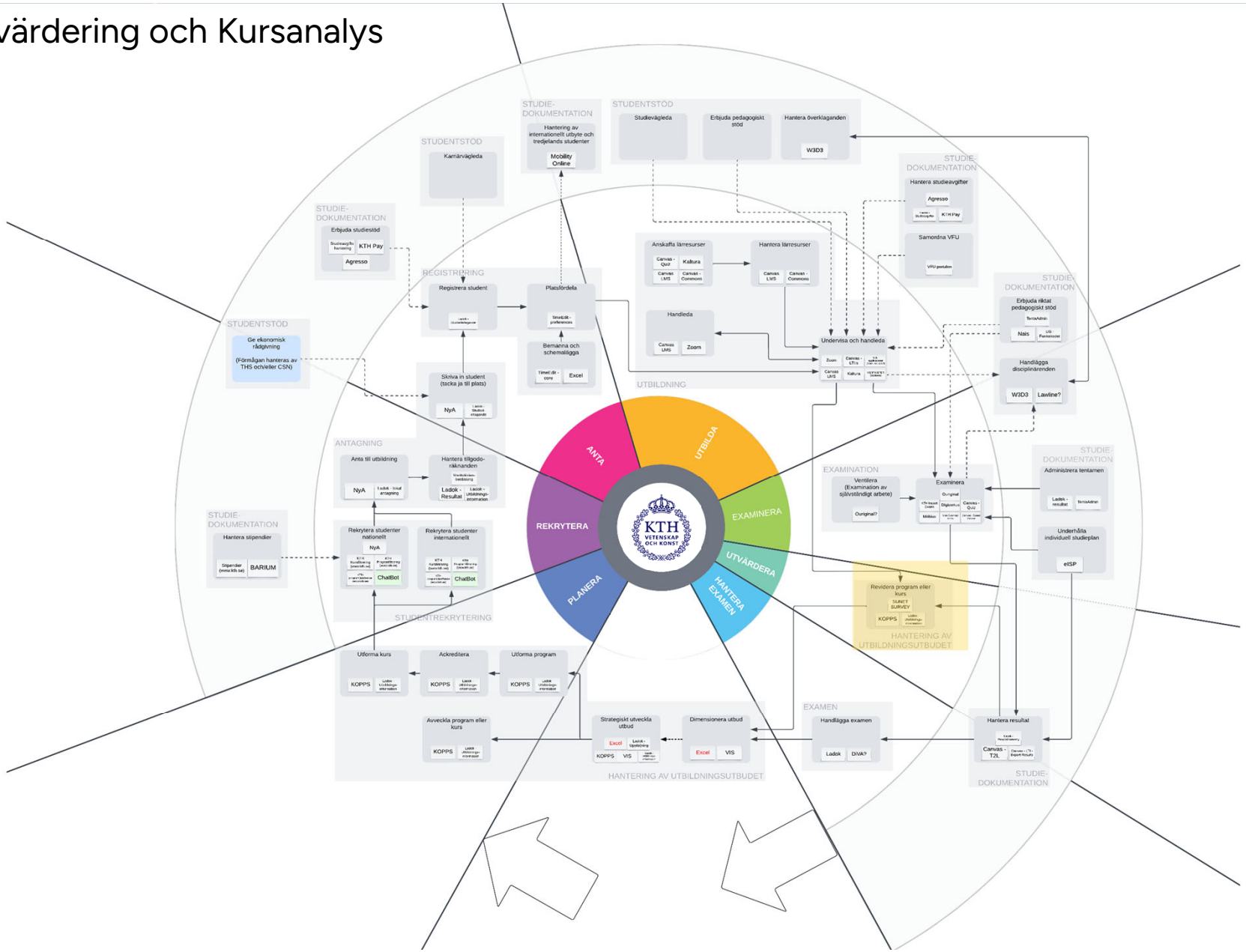




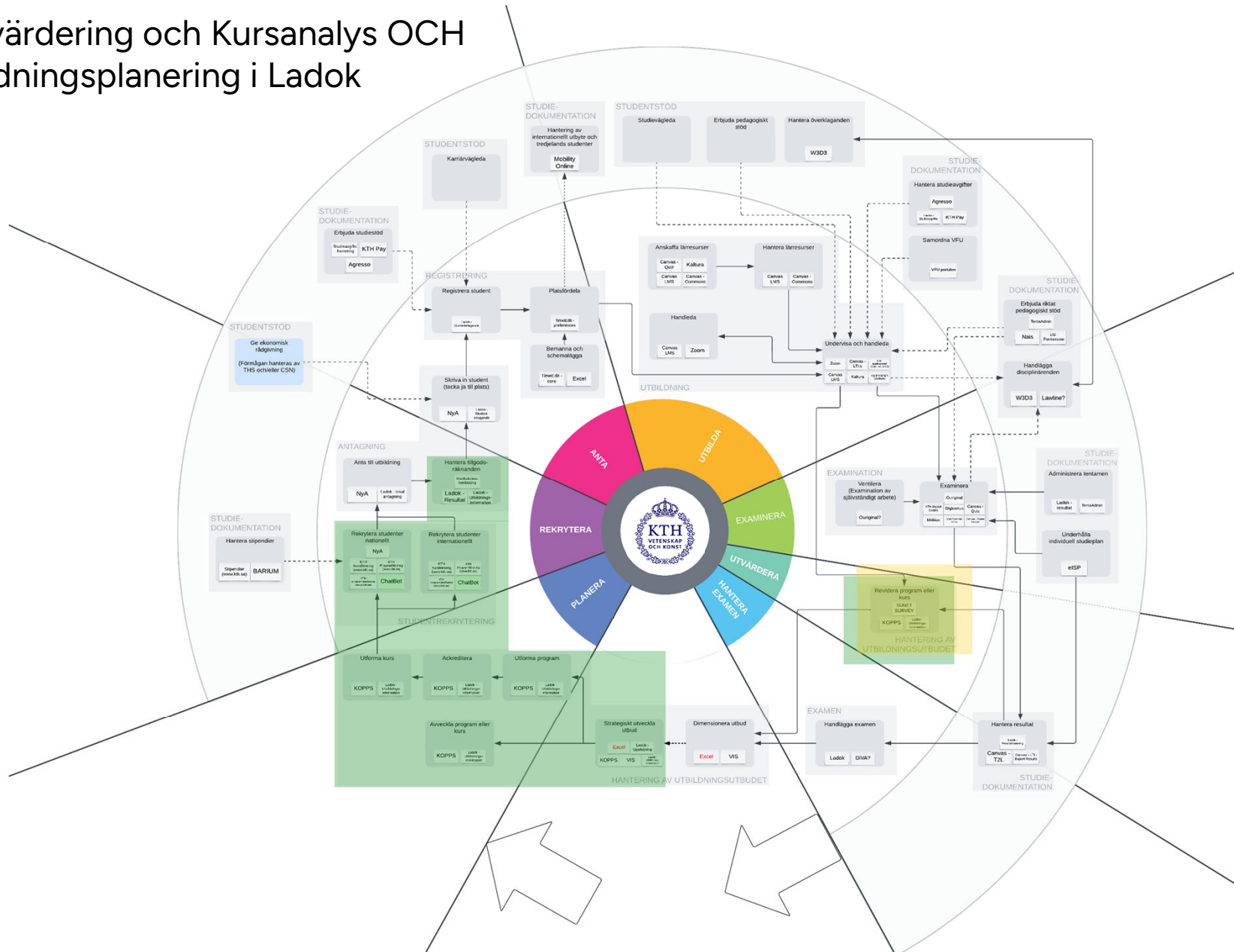
# Kursliknande aktivitet utan Ladok?



# Projekt: Kursvärdering och Kursanalys



# Projekt Kursvärdering och Kursanalys OCH Projekt Utbildningsplanering i Ladok





# Johan Flid Fridell

EA Verksamhetsarkitekt, KTH

[jfridell@kth.se](mailto:jfridell@kth.se)

0709-606860

[in linkedin.com/in/johanfridell/](https://www.linkedin.com/in/johanfridell/)