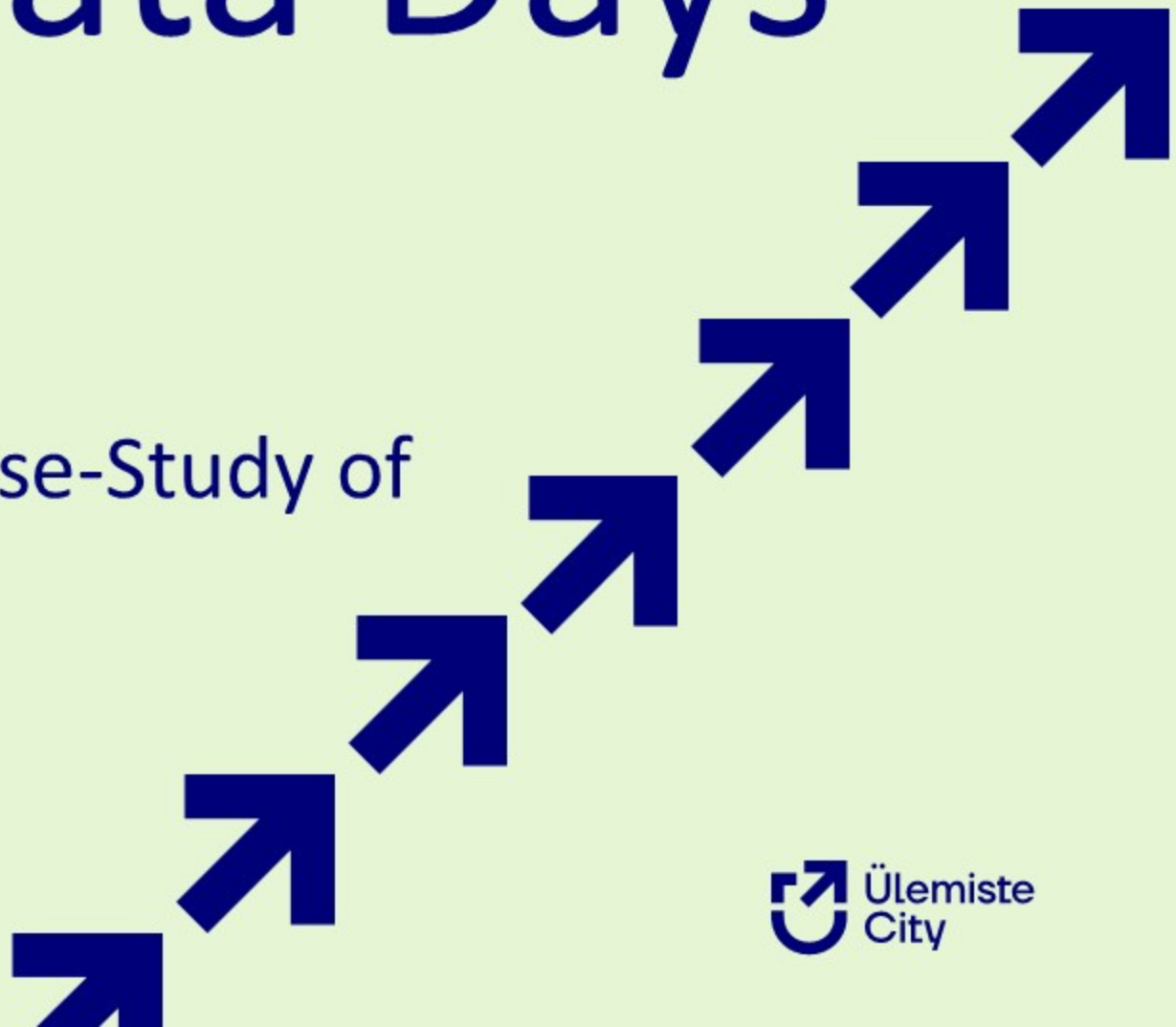




Ülemiste  
City

# EU Open Data Days 2025

Data Reuse & Impact on a Case-Study of  
Green City Web Service



# Smart City



Forward-thinking & diverse ecosystem, using technological and data-based solutions, leading to economic and social well-being of the Citizens and Talents.

# Smart City RADAR

Analytical and data-driven holistic model—**RADAR**: quantitative management Tool to assess a Smart City performance, thus enabling and supporting the interpretation of outcomes, as well as the decision making.



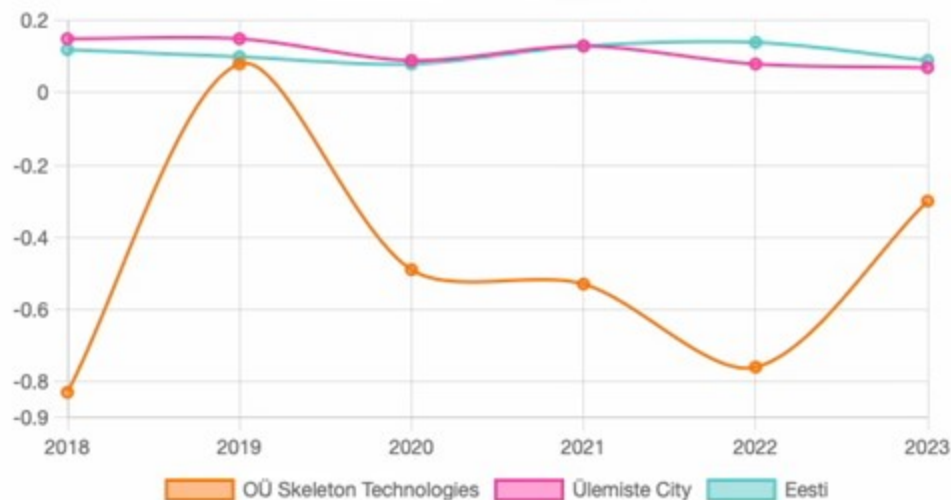
Assets and equity

Sales volumes

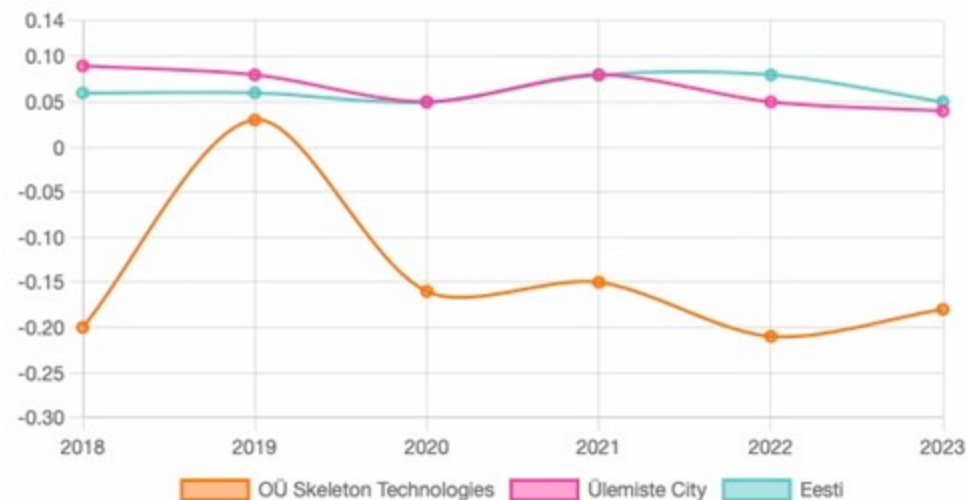
Efficiency

Labour force

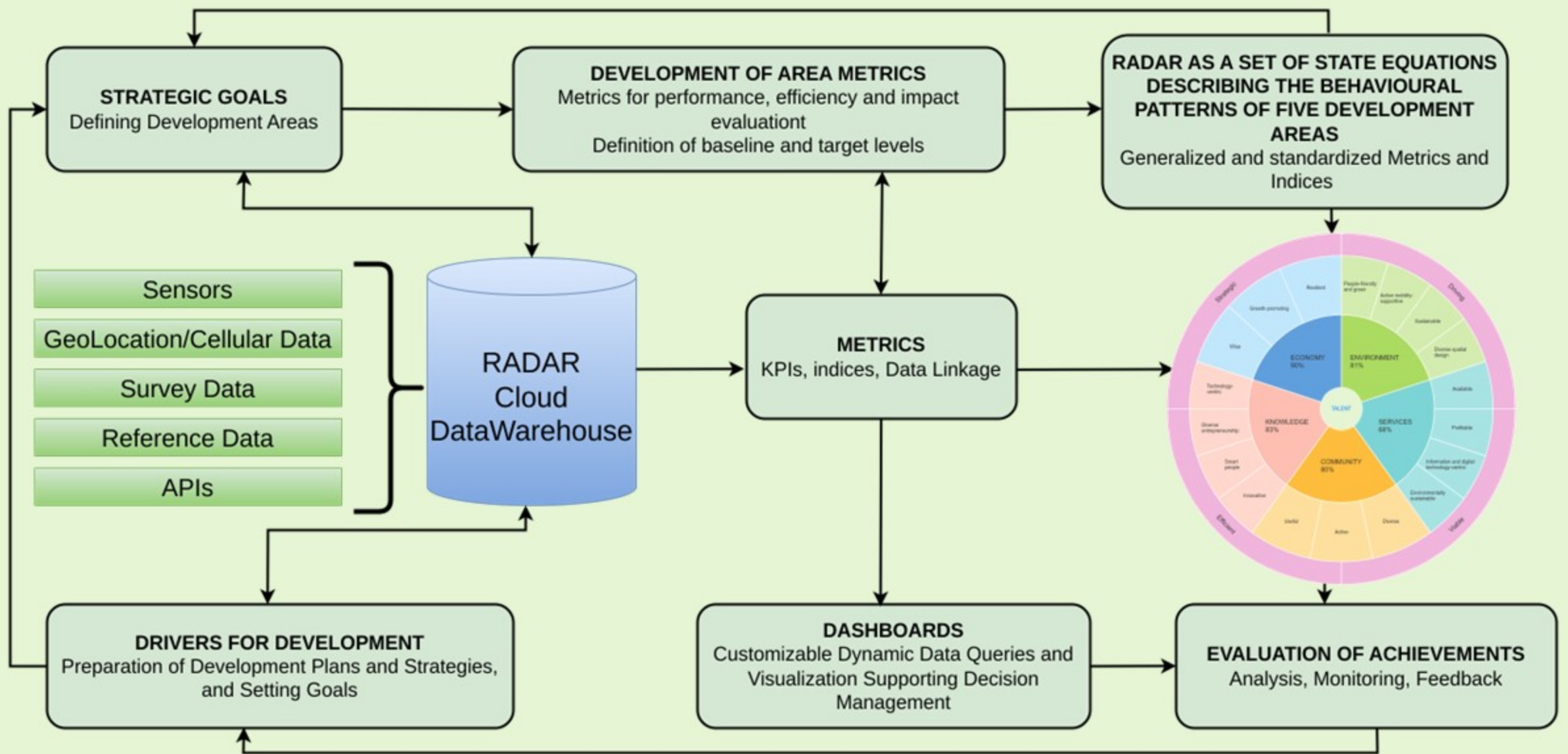
Return on equity (net profit/equity)



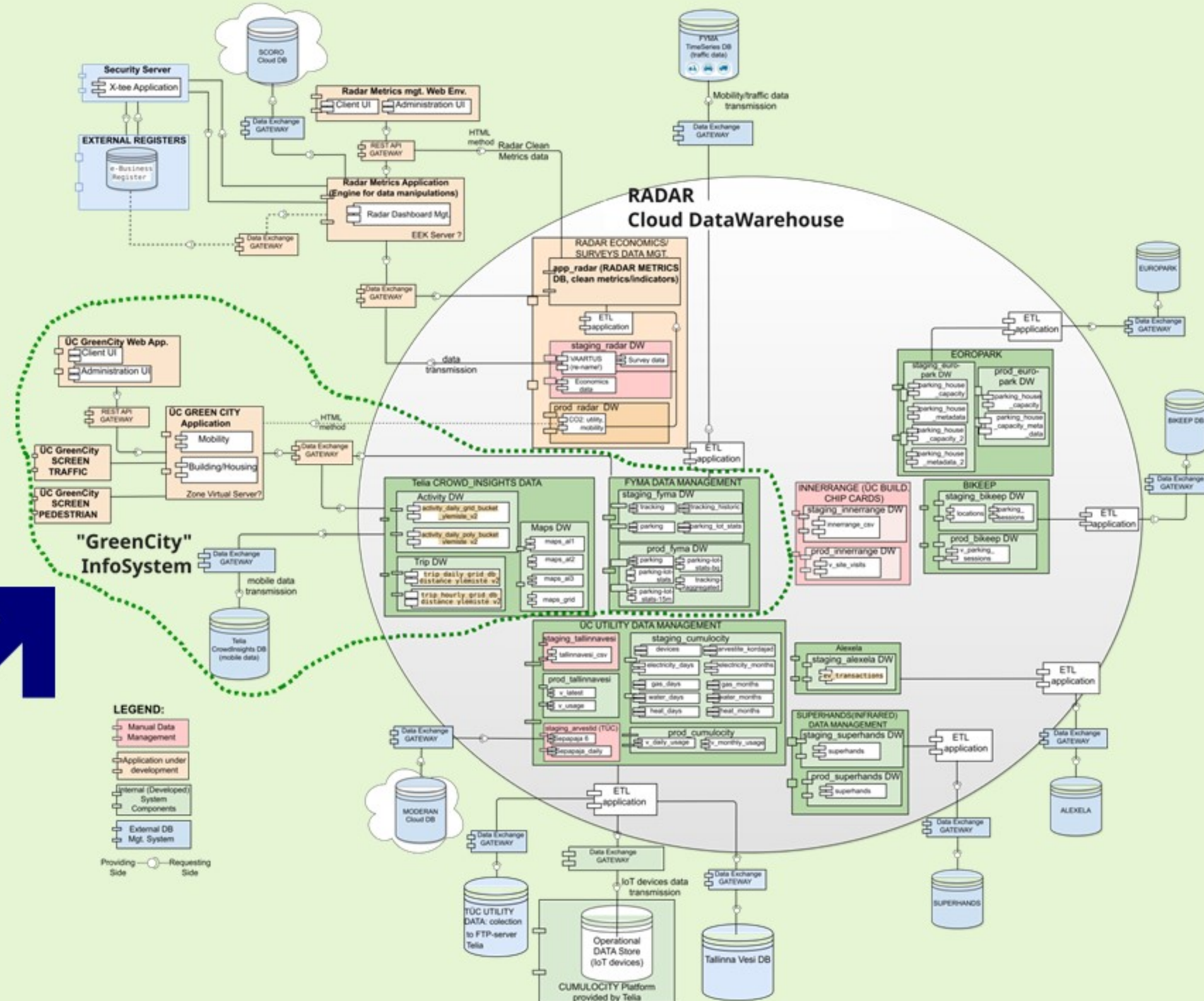
Return on assets (net profit/assets)



<b>OÜ Skeleton Technologies</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>
<u>Number of employees</u>	55	39	53	71	98	119
<u>Number of employees in ÜC</u>	0/55	0/39	0/53	0/71	0/98	0/119
<u>Number of foreign employees</u>	0/55	0/39	0/53	0/71	0/98	0/119
<u>Assets</u>	13,1 milj. €	14,8 milj. €	13,4 milj. €	19,3 milj. €	21,8 milj. €	19,4 milj. €
<u>Equity</u>	3,1 milj. €	4,6 milj. €	4,3 milj. €	5,3 milj. €	5,9 milj. €	11,5 milj. €



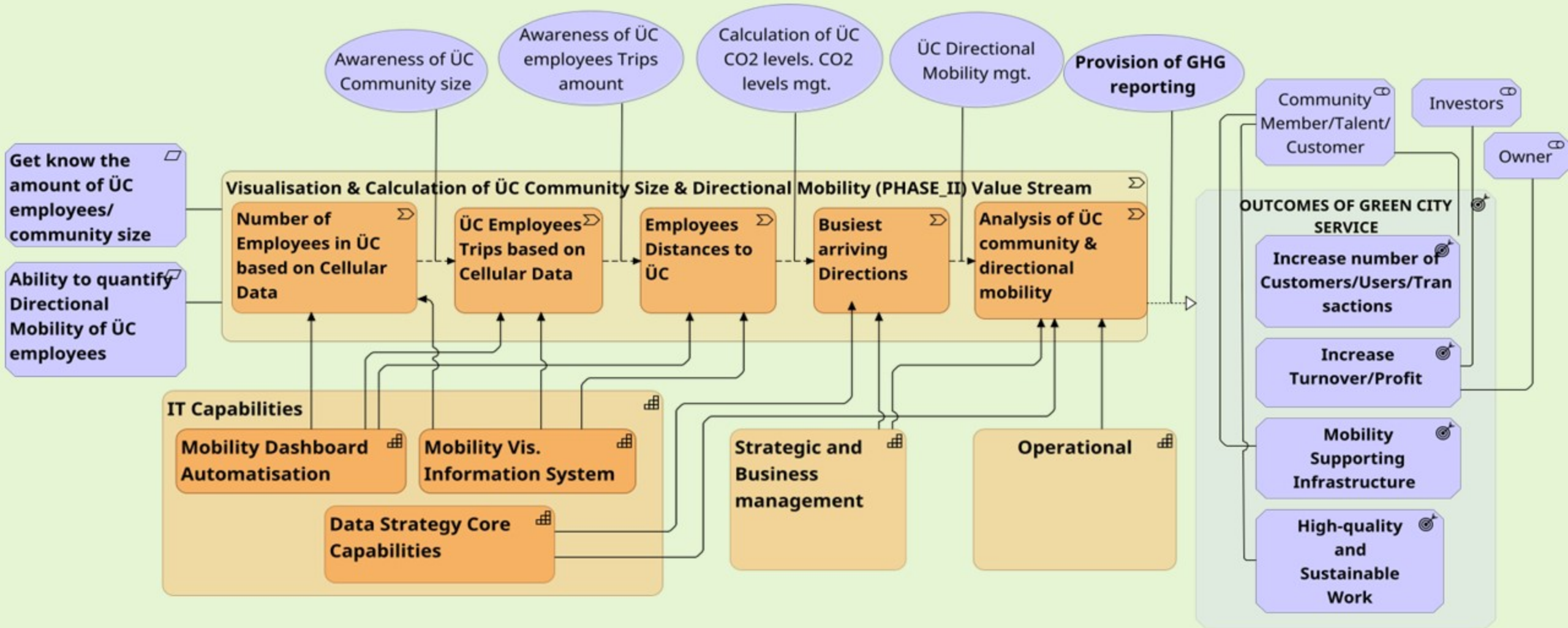
# Green City Infosystem IT-Architecture in context of RADAR Cloud DW



**LEGEND:**

- Manual Data Management
- Application under development
- Internal (Developed) System Components
- External DB Mgt. System
- Providing Side
- Requesting Side

# Green City Value Stream: Alignment of Business Strategy & Infotechnology





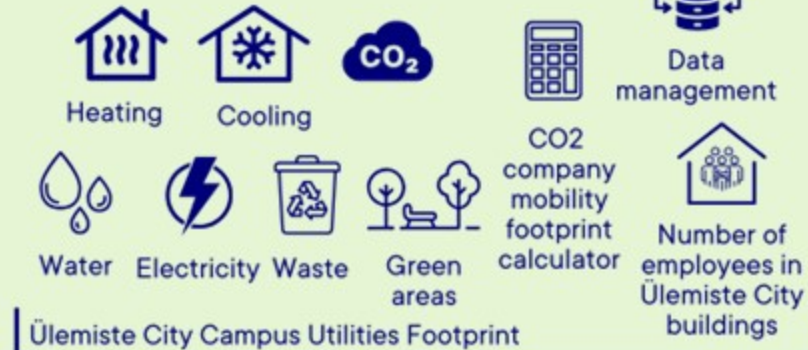
# Green City Web Application Functionality



Ülemiste City Campus Utilities Footprint

Traffic Data

Application Users



Ülemiste City Campus Utilities Footprint

Ülemiste City Campus Visitor

Agreement Users

# Ülemiste City

Campus raport

## Green goals

Reduction of total energy use (-375 MWh)

Travels by public transport, walking or cycling

Waste separate collection (55%)

- People
- Movement
- Traffic
- Parking
- CO<sub>2</sub> (transport)

## Sign in

to see your company data and learn how to become more sustainable.

Email

Password

Create account

Log in

Electricity Heating Water Waste CO<sub>2</sub> | Mobility

## Waste produced

2023 2024

Bio Mixed Packaging Paper & Cardboard Total

60 t

Compared to last month

-2 t

Difference: -4%

# Experience Gained

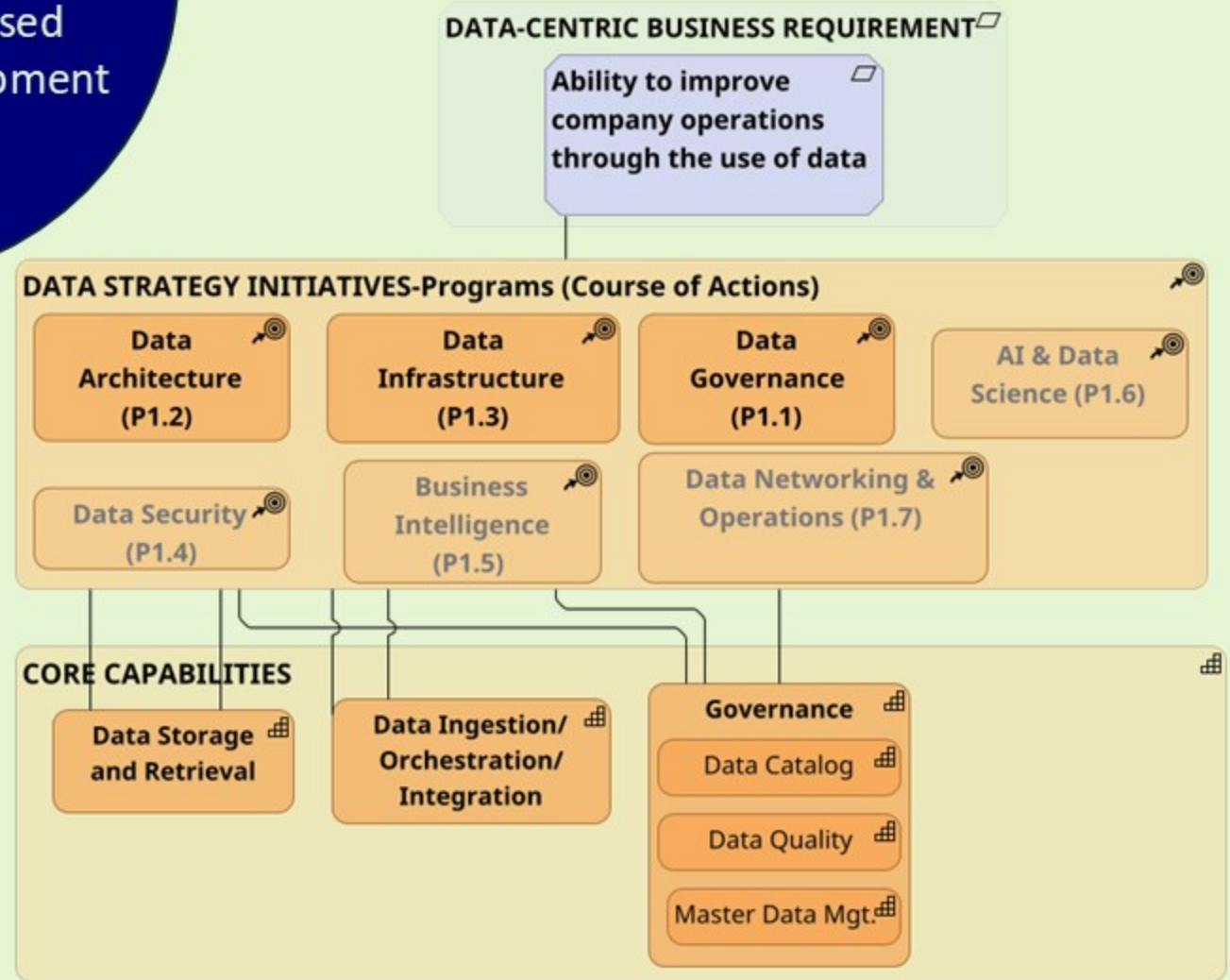
→ Innovation is based on agile development & testing.

## Data Governance:

- Master Data Mgt.: underestimated importance of SLA
- Data Catalog: lack of standardized naming

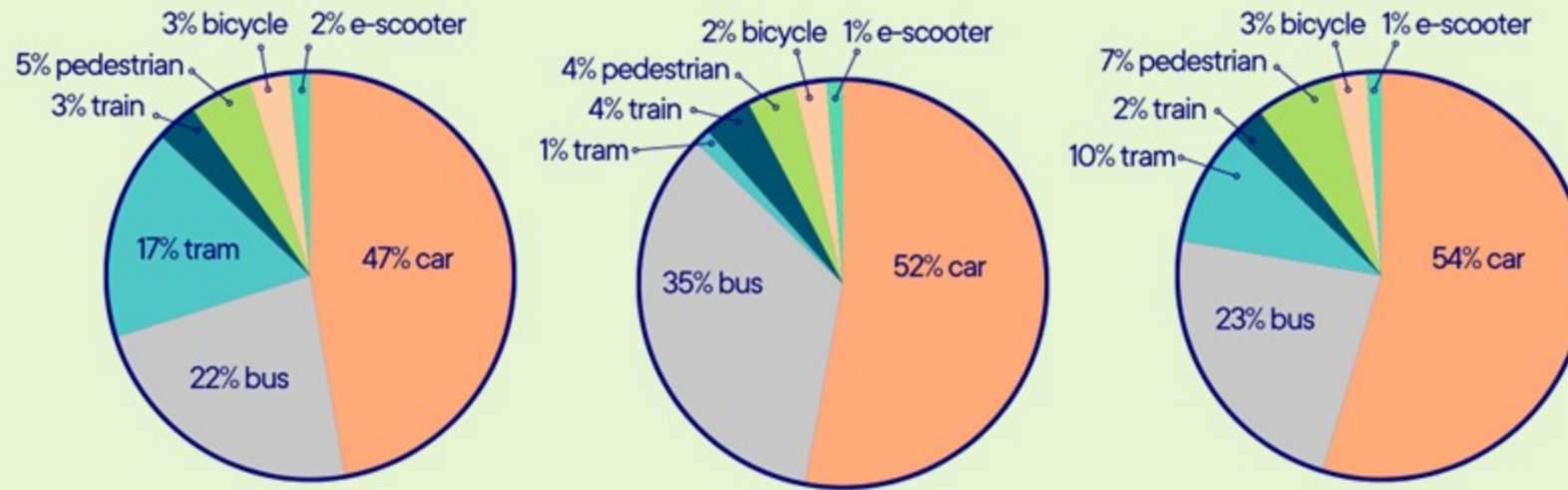
## Data Architecture & Infrastructure:

- Physical/Logical Dbs: non-optimised Queries



# Results

Awareness of Ülemiste City community members of the number of cars on Campus during the current day, as well as the trend compared to the previous day.



## Target Expectations by 2030

Decrease the share of private cars by 10%

Increase the number of sustainable transport modes incl. Cyclists by 10%.

# ➤ Thank You!

The research was supported by Programme for applied research (RUP) grant number RE.5.04.22-0141, Project manager/applicant: Mainor AS.

University of Tartu as a Partner is gratefully acknowledged.

