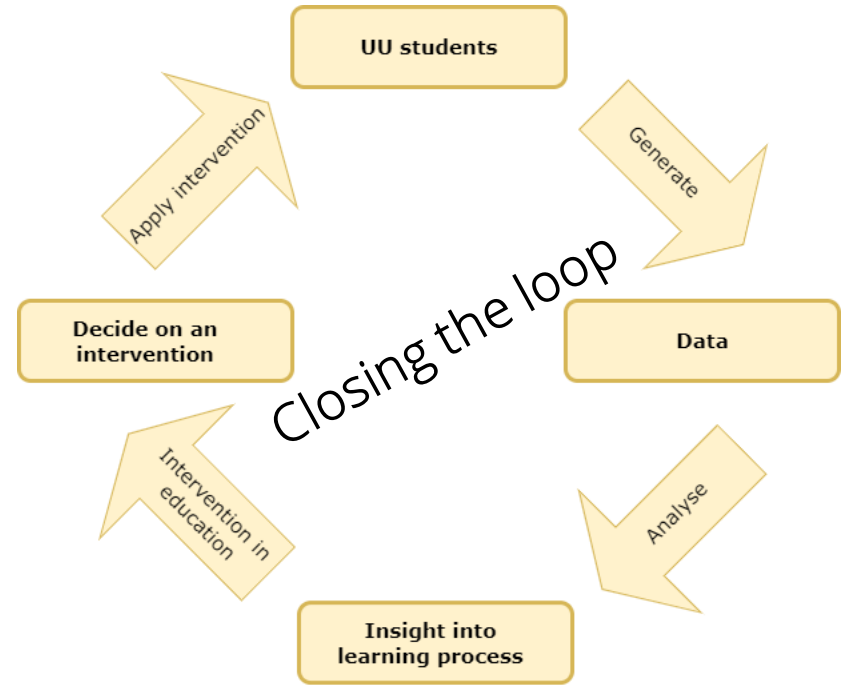


# *Roadmap for learning analytics*

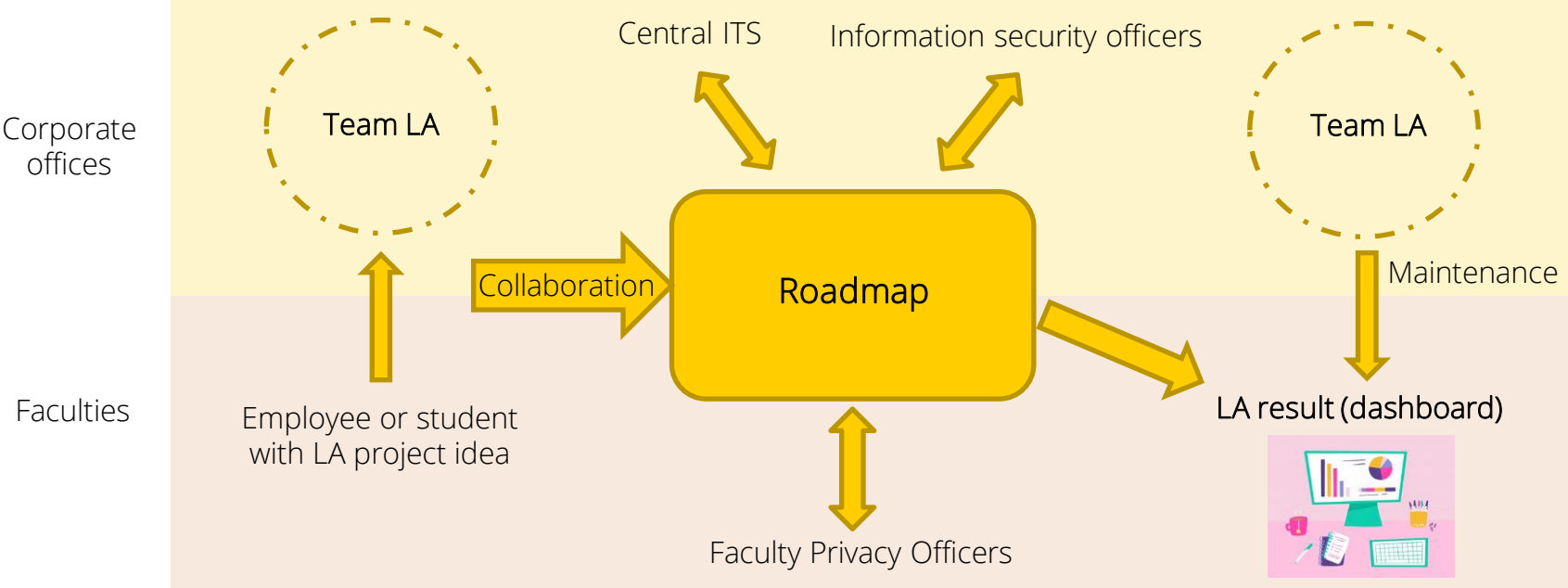
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# What is learning analytics

“The measurement, collection, analysis, and reporting of data about learners and their contexts, for purposes of understanding and optimizing learning and the environments in which it occurs.”



# The roadmap

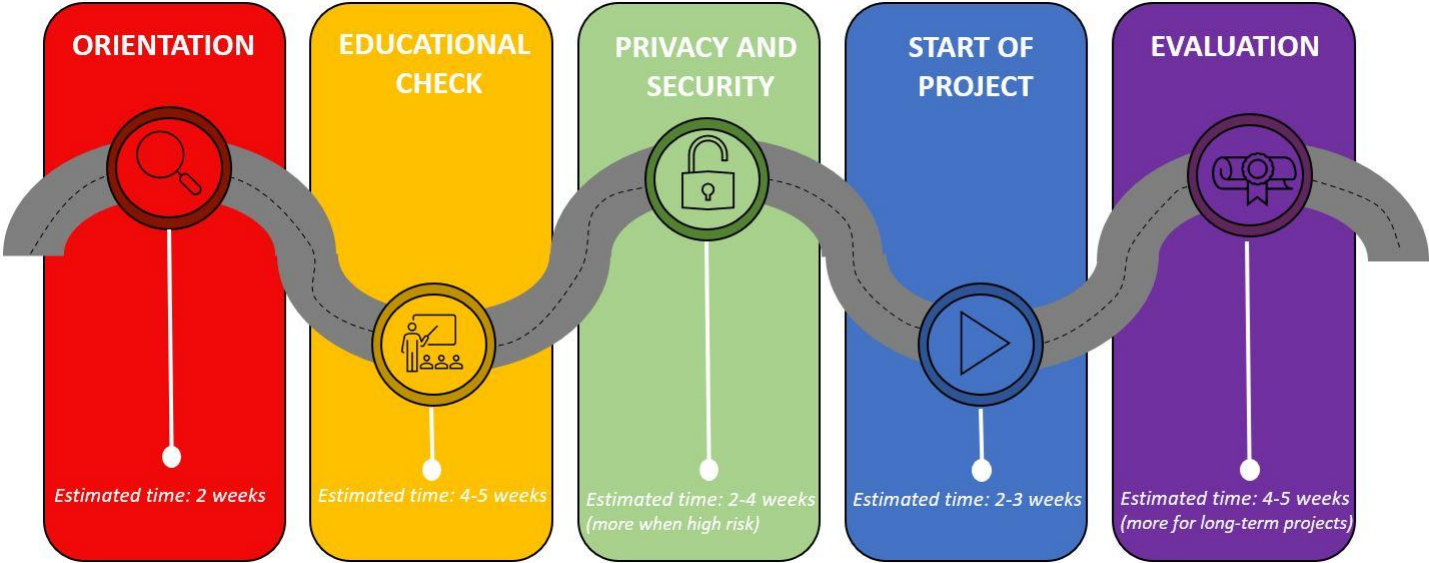


## The roadmap

The Roadmap was constructed based on literature, policy, and our own practitioner experience and specific context.

- Combination of top-down and bottom-up approach (Perez-Sanagustin et al., 2022).
- Iterative approach with a focus on user input and evaluation of results (Gasevic et al., 2019; Van Leeuwen et al., 2024)
- Shares characteristics with the SPARK framework (Pardo & Dawson) and design-based research (DBR collective, 2003).

# The roadmap



Before the roadmap could be developed, we had to fulfill two other requirements: a learning analytics policy and a technical infrastructure on which we could run our LA projects: the LA data platform

# Orientation



- Does the project involve LA?
- Does the project fit with the LA policy?
- Schedule a meeting with team LA
  - Determine mutual expectations
  - Refine project idea
  - Estimation of feasibility of the project
- Team LA will explore possibilities with privacy officer and data engineer
- Project leader will inform faculty privacy officer

# Educational check



- Project leader fills in form
- Evaluation project idea by multidisciplinary committee
- Will the project have a positive impact on education?

## Educational form content

- Purpose and urgency
  - What problem will the project solve?
  - Why is this solution chosen?
  - Was the project discussed with the stakeholders?
- Project in a broader context
  - Does the project adhere to the LA policy
  - How does this project relate to other projects?
- Results and evaluation
  - What is the expected outcome
  - How will the project be evaluated?

## Committee members

- UU student
- Prof. With focus on education
- Prof with focus on research
- Educational advisor
- Policy advisor education
- Advisor innovation in education

# Privacy & security



- Does the project involve research
  - The ethical committee of the involved faculty needs to be involved
- Does it involve an implementation project?
  - Team LA will develop a prototype
  - Information security officer will determine security measures
  - Do privacy scan with faculty and LA privacy officers
  - In case of high risk, perform a DPIA.
- In all cases, ensure transparency by describing the project in the processing register and share a privacy statement with those involved



# Start of the project



- All checks and results are collected
- Data owner (often the head of education) is asked permission to use the data for the project
- After approval, the technical realization of the project will start

# Evaluation



- Execution of the evaluation plan (as drafted for the educational check)
- The outcomes of each project will be posted on the LA website
- When it involved the implementation:
  - Evaluation by the educational committee at the end of the project
  - When the project is continued, team LA will do the maintenance of the application for now, but this could be transferred to ITS in the future

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