UNIVERSITY OF TWENTE.

Digitalisation Roadmap

The digitalisation agenda's summarize the planning of the main initiatives per domain.
The agenda's are the most dynamic elements in this document. Progessive insights, new trends and technological developments will bring new initiatives to these agenda's. They need to be updated on at least a yearly basis.

Research

Education

Operations

Infrastructure

06-2-2022

Purpose of the roadmaps
A yearly process of IT-portfolio management has already been in place for many years. The content of the IT-portfolio however has always been very much determined by projects requested by the service departments for the support processes of the whole UT community. The purpose of this roadmap is to take the broader perspective of the digitalisation vision. This broader focus also includes demands from faculties with respect to the ever increasing importance of digitalisation as an enabler of the primary processes. Another objective of this roadmap is to give more priority to projects derived from our strategy next to the projects from an operational and tactical perspective. These initiatives are summarized in this roadmap in the category “must do”.

The roadmap is a living document
The roadmap will be updated yearly with new insights and new priorities. The initiatives in the roadmap often start with experiments, which after they have proved to be a success will be implemented. Initiatives can consist of a collection of smaller projects al geared towards an objective of business outcome.

Top 3 priorities
Considering the amount of initiatives already running, we should be careful with starting additional activities. It is therefore recommended for next year to focus on only 3 new initiatives. It is still to be decide which ones will be selected. The SEG digitalsation will make a suggestion for the top 3 new initiatives.

The UT has a good starting position because of steps already taken in all domains

Education

Significant steps have been made in the past year with Education innovation with IT. The TELT-team (Technology Enhanced Learing and Teaching) played an important role in facilitating this process.

The UT is actively involved is the “Versnellingsplan Onderwijs innovatie met ICT”, in the “Docent professionalising” initiative.

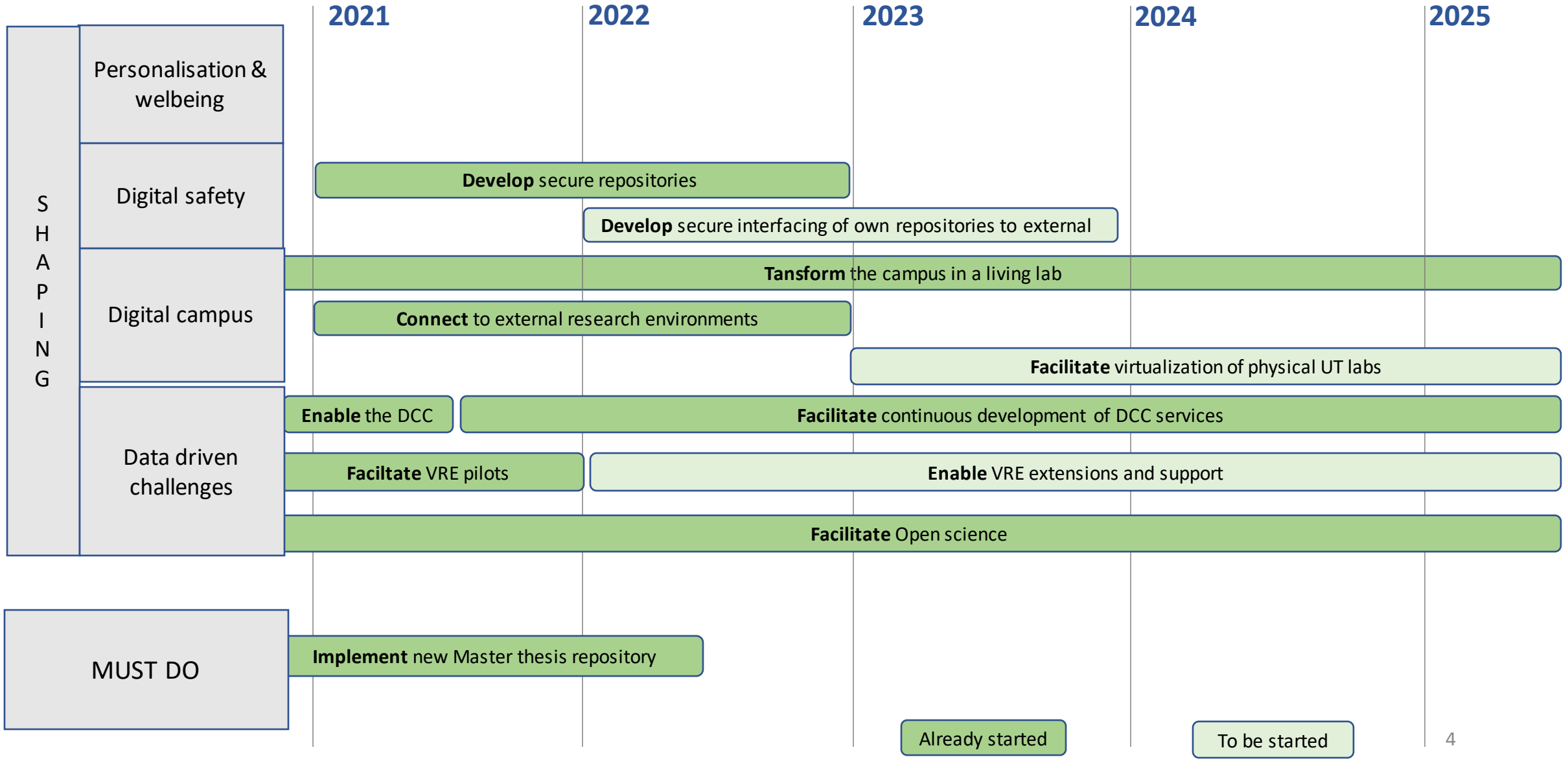
Canvas is an open LMS and provides a good platform for continuous improvement and enrichment of the Education tool stes and IT-landscape.

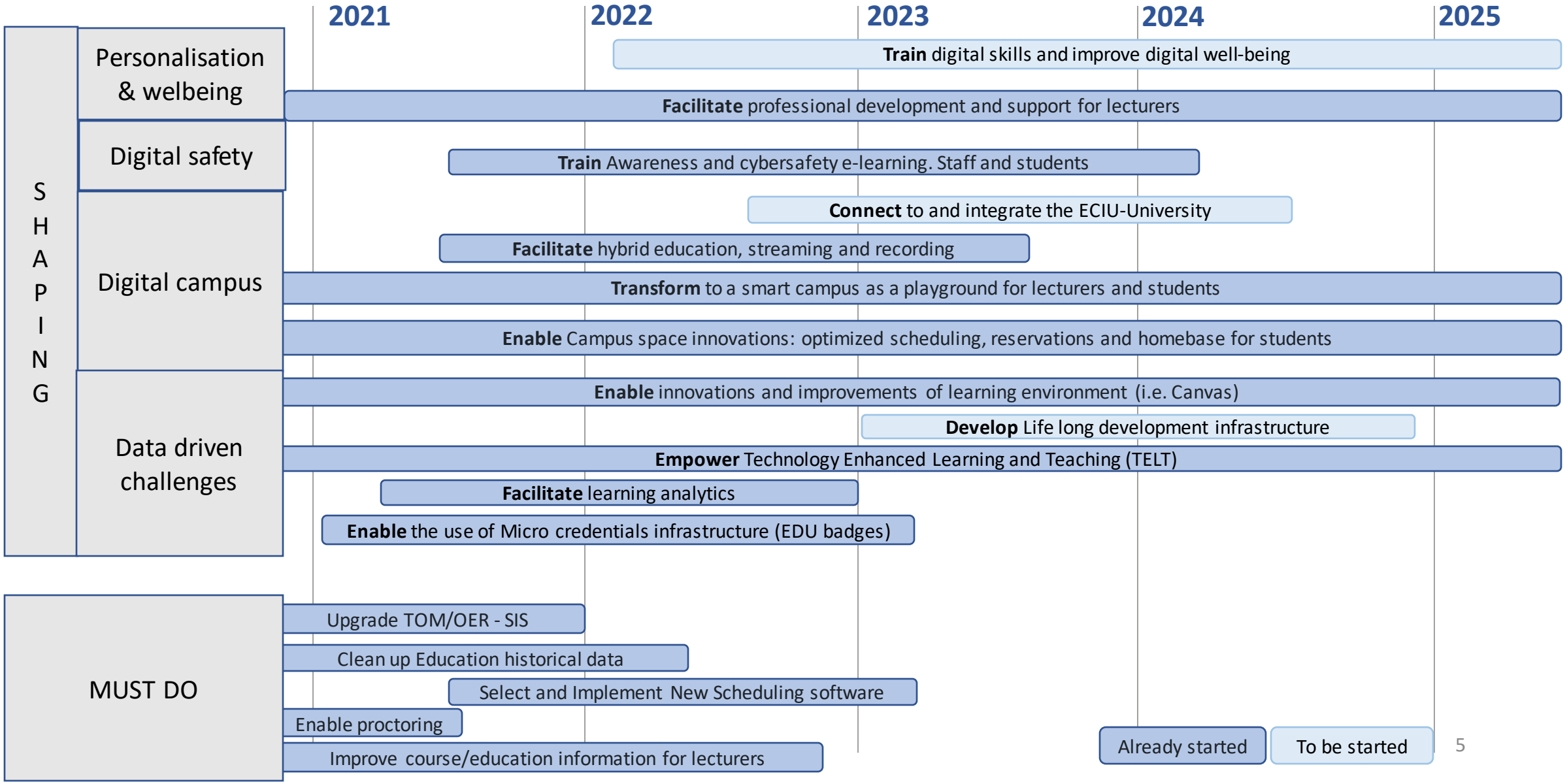
Research

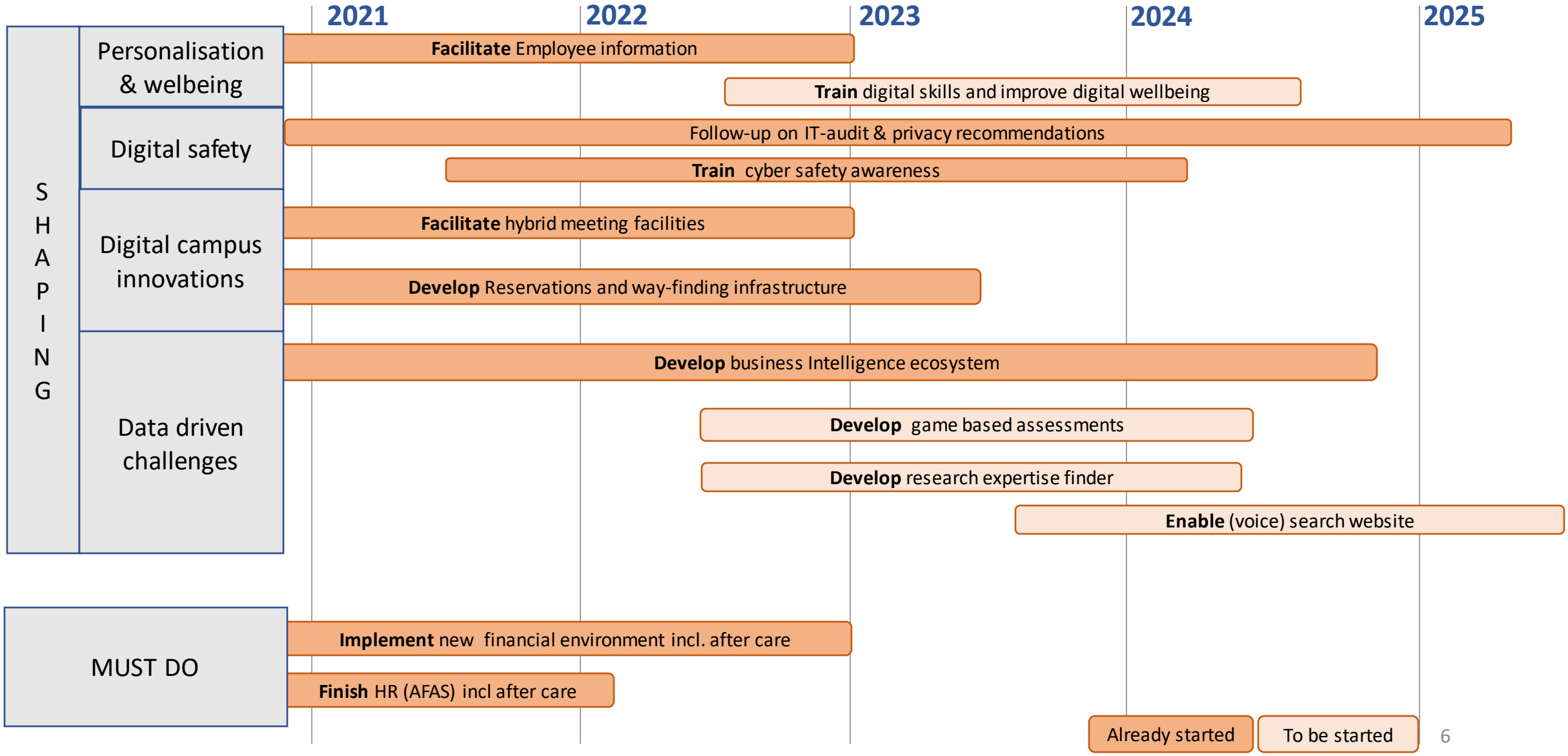
The Digital Competence Centre (DCC) for Research Support started last year and is fully up and running, working embedded in the faculties with central coordination and information sharing. Several pilots and experiments are already started to explore and develop IT-facillties for the digitalisation of research.

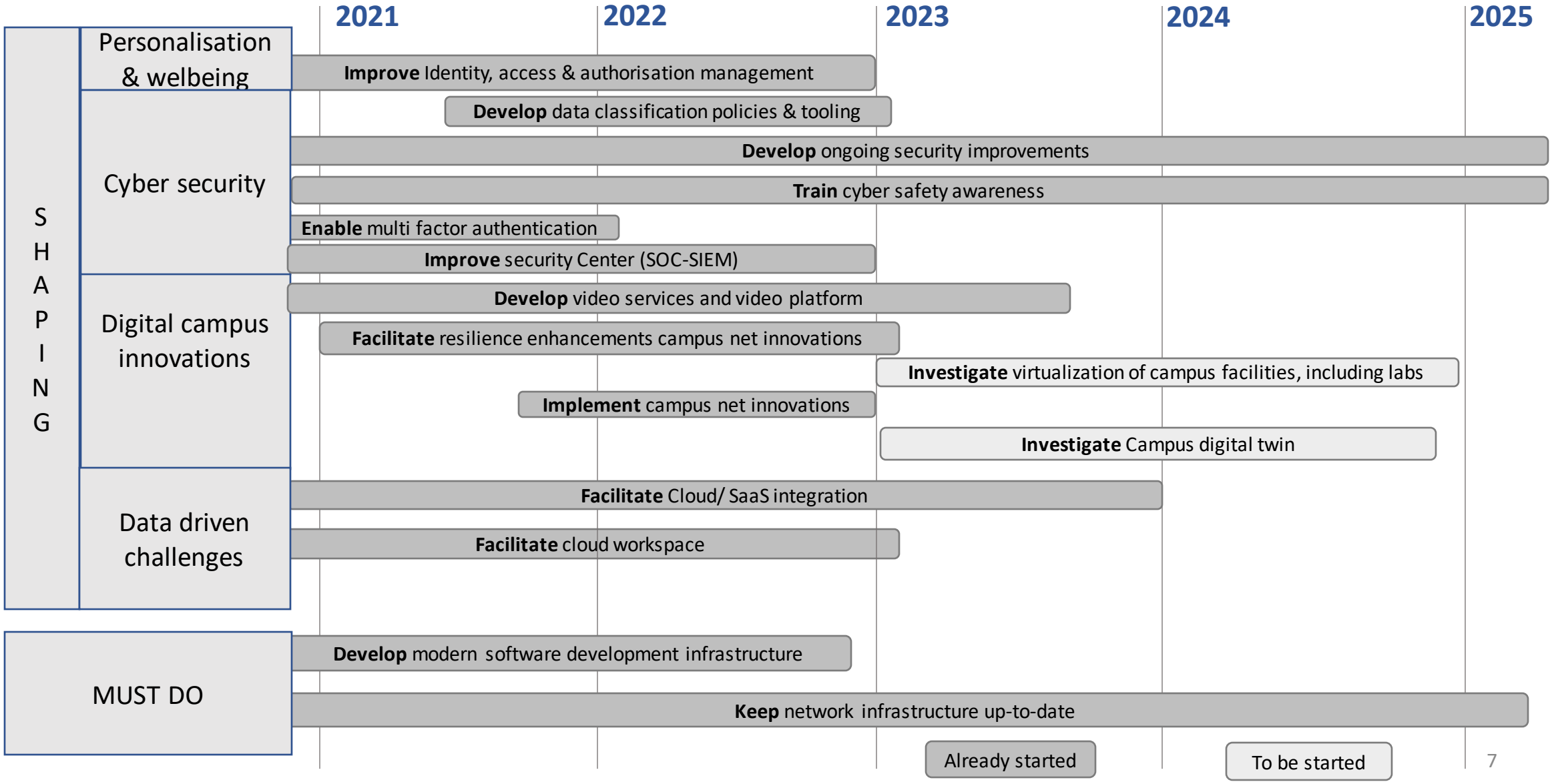
Operations and Infrastructure

With he replacement of core systems for HR and Finance the basis laid for a future proof It-landscape for Operations. The IT-infrastructure is continuously being updated. The UT is well ahead of peers with a safe and reliable IT-infrastructure. This is reflected by yearly IT-audits, benchmarks, certified data storage and yearly security penetration) tests


2021
2022
2023
2024
2025
SHAPING
Personalisation & welbeing
Digital safety
Digital campus
Data driven challenges
Develop secure repositories
Develop secure interfacing of own repositories to external
Tansform the campus in a living lab
Connect to external research environments
Facilitate virtualization of physical UT labs
Enable the DCC
Facilitate continuous development of DCC services
Faciltate VRE pilots
Enable VRE extensions and support
Facilitate Open science
MUST DO
Implement new Master thesis repository
Already started
To be started


2021
2022
2023
2024
2025
SHAPING
Personalisation & welbeing
Digital safety
Digital campus
Data driven challenges
Train digital skills and improve digital well-being
Facilitate professional development and support for lecturers
Train Awareness and cybersafety e-learning. Staff and students
Connect to and integrate the ECIU-University
Facilitate hybrid education, streaming and recording
Transform to a smart campus as a playground for lecturers and students
Enable Campus space innovations: optimized scheduling, reservations and homebase for students
Enable innovations and improvements of learning environment (i.e. Canvas)
Develop Life long development infrastructure
Empower Technology Enhanced Learning and Teaching (TELT)
Facilitate learning analytics
Enable the use of Micro credentials infrastructure (EDU badges)
MUST DO
Upgrade TOM/OER - SIS
Clean up Education historical data
Select and Implement New Scheduling software
Enable proctoring
Improve course/education information for lecturers
Already started
To be started


2021
2022
2023
2024
2025
SHAPING
Personalisation & welbeing
Digital safety
Digital campus innovations
Data driven challenges
Facilitate Employee information
Train digital skills and improve digital wellbeing
Follow-up on IT-audit & privacy recommendations
Train cyber safety awareness
Facilitate hybrid meeting facilities
Develop Reservations and way-finding infrastructure
Develop business Intelligence ecosystem
Develop game based assessments
Develop research expertise finder
Enable (voice) search website
MUST DO
Implement new financial environment incl. after care
Finish HR (AFAS) incl after care
Already started
To be started


2021
2022
2023
2024
2025
SHAPING
Personalisation & welbeing
Cyber security
Digital campus innovations
Data driven challenges
MUST DO
Improve Identity, access & authorisation management
Develop data classification policies & tooling
Develop ongoing security improvements
Train cyber safety awareness
Enable multi factor authentication
Improve security Center (SOC-SIEM)
Develop video services and video platform
Facilitate resilience enhancements campus net innovations
Investigate virtualization of campus facilities, including labs
Implement campus net innovations
Investigate Campus digital twin
Facilitate Cloud/ SaaS integration
Facilitate cloud workspace
Develop modern software development infrastructure
Keep network infrastructure up-to-date
Already started
To be started