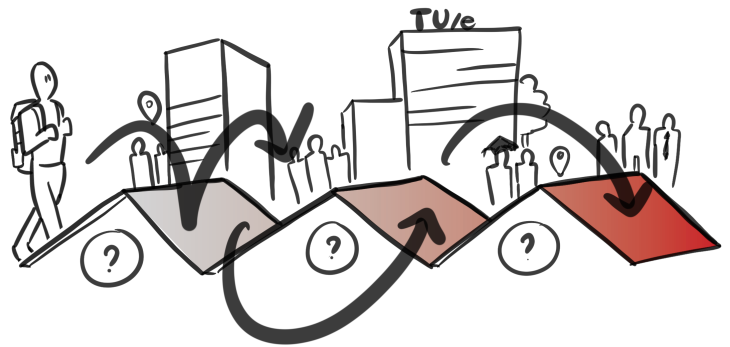


The scenario: The University of 2050

The University of 2050 is a forward-thinking institute that fosters collaboration across disciplines and borders. Its adaptive curriculum promotes flexible learning, personalized guidance, and impactful research within a collaborative ecosystem. Key elements of the University of 2050 are:

- **Adaptive Curriculum:** It continuously develops and adapts its offerings to drive personal and professional growth for all stakeholders.
- **Flexible Learning:** The curriculum promotes modular and flexible learning, unbound by traditional constraints.
- **Guidance System:** Learners receive guidance through digital tools and a travel companion, ensuring a personalized educational journey.
- **Collaborative Alliances:** The University collaborates with alliances to co-design learning experiences and tackle challenges from different perspectives.
- **Progressive Institute:** The University of 2050 facilitates transdisciplinary and international collaboration while maintaining strong local roots.
- **Co-learning:** All stakeholders connected to the ecosystem of the University of 2050 are learners and everyone involved learns together while supporting each other in their development throughout all stages of life.

The adaptive curriculum of the University of 2050 is a dynamic, open engineering framework that promotes modular and flexible learning, unbound by traditional constraints of time or location. Learners go beyond traditional academic and disciplinary boundaries to develop transdisciplinary knowledge and competencies of relevance for solving global challenges. Learners take the lead in shaping their curriculum encouraging deep, unique learning experiences, with extensive support from the University and the outside world.



With diverse backgrounds, learners start with an orientation process to uncover their distinct capabilities and shape their learning path including the desired support and flexibility. Learners tailor their paths based on needs, interests, and contextual factors supported and challenged to dive deep within their disciplines while also engaging in transdisciplinary learning. Risk-taking and failures are recognized and encouraged as learning opportunities, fostering curiosity and open-mindedness.



Physical learning environments play a crucial role in fostering social connections between learners and learning facilitators. The spaces are thoughtfully designed to blend individual working spaces with collaborative areas, creating a dynamic setting that supports a variety of learning activities. Integrated digital and physical environments foster interactions that drive innovation.

Digital learning environments extend educational resources and community connections. Digital tools and remote labs make content and facilities globally accessible.

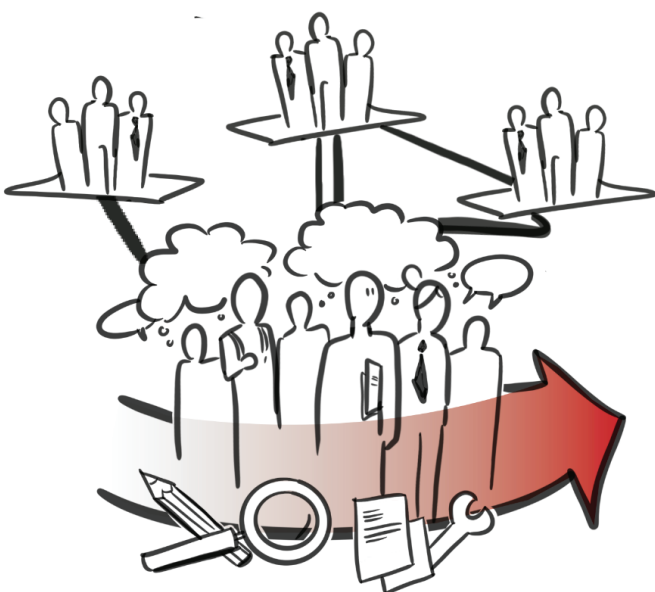
Advanced technologies, such as AI-driven guidance systems, support learners in navigating this rich educational landscape, complemented by a robust **network of mentors and facilitators**. This integrated framework caters to various schedules and preferences, enhancing authentic learning experiences while nurturing a strong sense of community, fostering deep connections, and a genuine sense of belonging.

The University of 2050 has a **development-driven approach**, meaning **validation** is focused on the learner's overall development as well as their (societal) impact. Validation of learning is personalized throughout the academic career, including critical reflection points and decision-making crossroads. Validation is a tool for learning to become self-aware and intentional about their educational journey, making informed decisions based on insights from themselves and others. Learners' needs drive the validation, and the learners are owners of the validation process, being responsible for co-defining with the University when and by whom their learning is validated. This process requires high intrinsic motivation and confidence, developed through supportive learning environments.



Learners initiate portfolio validation by the University, leading to overarching quality certification for the outside world. Micro-credentials, together with self-assessment, reflection, and continuous feedback loops, support flexibility in growth and learning development. While learning is dynamic and open, validation is focused and carried out by experts in specific knowledge areas.

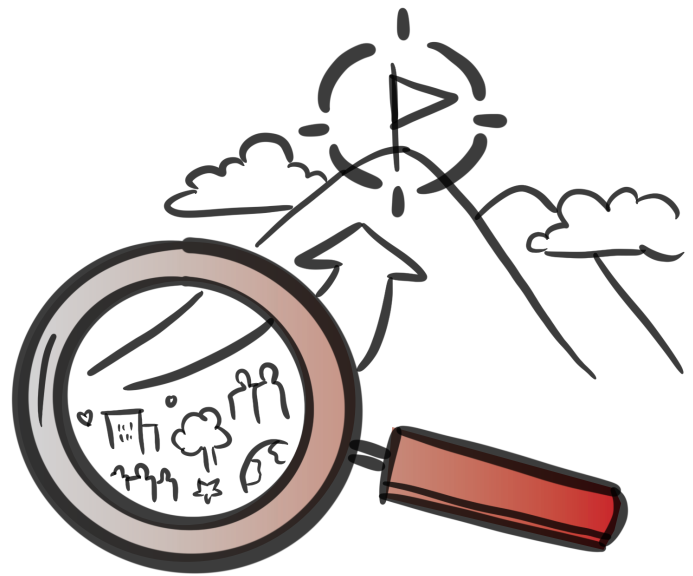
Learners' developed proficiency in reflection enables systematic thinking about their growth, understanding personal and professional interests, and connecting these to their varied experiences both inside and outside the University. Knowledge assessment is available for learners when appropriate, but new validating methods are emerging. Life-long personal portfolios play an important role in collecting and showcasing evidence (i.e., certificates) of learning and helping others, such as employers, understand the profiles of diverse individuals.



Learning is thus all encompassing, and partnerships with sister institutions, industry, and society at large becomes central in how the University facilitates co-learning. By contributing to regional and international **collaboration hubs**, the University supports and promotes co-learning, leveraging its robust academic foundation and fostering innovation through constant interaction with the ecosystem. In these hubs, vibrant transdisciplinary **learning communities** are connected through shared drivers motivated by the global socio-technical challenges, facilitating deep engagement with external collaborators such as citizens and industry partners.

Traditional distinctions between learners, teachers and collaborators blur, enabling a collaborative approach to the ever-changing and multifaceted nature of socio-technical challenges, and creating an inclusive community where everyone learns from each other. In this environment, learning facilitators and their didactic skills play a crucial role in ensuring that co-learning takes place. Building on this foundation of transdisciplinary collaboration and regional impact, the University of 2050 extends its impact globally, engaging with international partners to address global challenges. Hubs attract thought leaders and experts worldwide, offering learners the opportunity to collaborate on projects with global reach and gain international experience. Each small-scale collaboration hub centers around a specific socio-technical theme relevant to its regional context, such as engineering hubs focused on health near hospitals. These hubs form **thematic communities** that overlap and interconnect with larger networks, blending diverse expertise to tackle complex challenges.

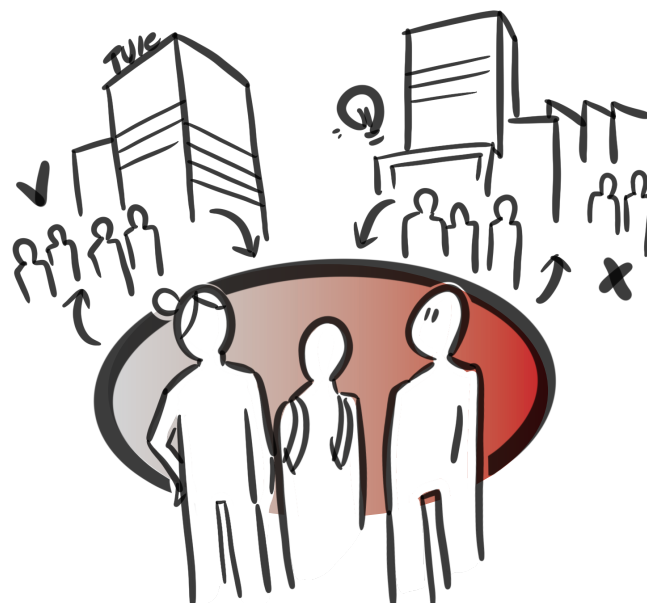
The University stands for **research that is relevant for society (mission-driven)**. This means most researchers at the University of 2050 are part of one or more thematic communities, creating a vibrant environment that supports mission-driven research alongside fundamental research. Defining the missions that are central within the University is a multistakeholder effort. Research channels the energy and motivation of both researchers and junior researchers (learners) since it is initiated from personal motivations (purpose-driven) and societal challenges (mission-driven). This means not all research is planned out and strategized. The career paths of academics are not based on academic impact only but on impact embedded in societal context as well as personal and academic development.



Learners actively participate in mission-driven research, contributing to the creation of new knowledge. Through hands-on experiences and research-driven projects, they gain practical insights and skills, enhancing their academic understanding and building personal bonds within the (research) community. Researchers involve learners in their inquiries, enabling them to contribute to the research process and gain valuable experience and knowledge.

The University is part of **alliances** that co-design learning experiences, allocate resources strategically, and leverage universities' unique profiles to tackle challenges from different perspectives. Within these alliances, knowledge ownership rests collectively, empowering members to shape the educational landscape and allocate resources based on expertise. All basic knowledge within the alliance is openly accessible to all learners, free of charge. The global scope of these alliances positions the University as a leader in shaping the future of education, industry, and policy worldwide.

The organizational structure of the University of 2050 embraces the concept of "University as a Service". All learners are clients, with their educational journey tailored to meet their individual motivation, needs and aspirations. The University fosters a supportive environment where exploration, experimentation, and learning from both successes and failures are encouraged. All learners get access to an elaborate guidance system, consisting of both digital tools and a travel companion - a facilitator guiding learners through their life long educational journey.



At its core, the University aligns individuals with roles that resonate with their aspirations and expertise, ensuring that every individual's unique value is recognized and empowered to reach the broader goals of the University and society.

Some prominent roles and features within the organizational structure connected to this ambition are:

- Co-learning and co-creation, rooted in a multi-stakeholder perspective, are at the core of each collaboration.
- All actors in the learning process are learning facilitators, engaging in a reflective process that deepens the validation of learning ensuring all perspectives are considered in shaping a cohesive learning experience and evidencing the development of competences.
- Every learner has a counselor who is your link to the University, and who you can connect to as a young learner or professional. This is the link to the University's "home base".
- Collaborations are transparent and knowledge-based, reducing reliance on strict resource-based contracts.
- A 'Society Inspiration Board' with stakeholders from society contributes to the University's long-term strategy.
- "Champions" are visionary leaders who inspire and attract new talent.
- "Boundary spanners" act as knowledge brokers, bridging disciplines and facilitating information flow. These roles are crucial for integrating various stakeholders and disciplines, enhancing community connectivity.
- Part of a researcher's profile is that they are boundary spanners as well (for the organization part), connecting to other research groups.
- Transdisciplinary (mission-driven) research is always guided by multiple researchers.
- Several AI systems are in place: AI counselor, AI Exam committee, and AI personal development. The latter is detached from the University and helps gather learners' data/information from an early age.
- The University of the future has a shared validation system in the Netherlands that allows for flexibilization of learning.
- The exam committee is there for special cases, such as when a learner comes by with learning activities or has learning gains that are not part of the artificial intelligence system.
- Each University offers unique expertise and facilities and addresses local themes and challenges, enabling learners to learn at institutions that align with their learning objectives.
- To be continued...