

Dimension	Indicator	Metric	Red Light	Yellow Light	Green Light
Economic	Return of Expenses	To be defined within the institution	Low or absent generated value	Acceptable generated value	Optimal generated value
	Provisioning	Quality of Provisioning	High cost per user	Acceptable cost per user	Low cost per user
	Scaling policies	Waste of resources	High waste	Acceptable waste	Low waste
	Vendor synergies	Vendor make use of lock-in practices	Legal/technical restrictions, proprietary standards, etc.	Soft lock-in	Negligible or no soft lock
	Exit costs	Total expenses of exit/migration	High costs	Acceptable costs	Very low costs
Technical	Availability	Uptime (%)	TBD based on the DET		
	Reliability	Error rate (%)	TBD based on the DET		
	Scalability	Scalability support	Little to no support for scalability techniques	Partial support for scalability techniques, with limitations in the long-term	Support scalability techniques
	Adaptability	Degree of integration within university infrastructure and third-party components	No integration	Partial integration (e.g., only SSO)	Full integration (university infrastructure and multiple third-party components)
	Maintainability	Ease of configuration, updates, and upgrades	Difficult to configure/update; poor documentation and support	Moderate ease of installation and updates; limited documentation and support	Easy and efficient installation, configuration, and updates; comprehensive documentation and support
	Repairability	Interventions on software allowed	No interventions allowed	Limited interventions allowed (e.g., only infrastructure)	Full interventions allowed (code and infrastructure)
		Ease of hardware repair (Availability of manuals, ease of disassemble, availability of spare parts, price of spare parts, and artificial barriers)	Score: 1–2 (poor repairability)	Score: 3 (moderate repairability)	Score: 4–5 (high repairability)
Social	Community awareness	Awareness of the community about the DET	No structured communication	Changes are communicated, but not for sustainability purposes	Users are proactively informed about changes, with a clear focus on sustainability
	Involvement in sustainability	Distance to sustainability claim	Sustainability claims are absent or found through distant relations (more than 1 hop)	Sustainability claims are found through direct relations (1 hop)	Sustainability claims are directly attributable (0 hops)
	Inclusion	Compliance with accessibility guidelines	No compliance	Compliance with EAA or WCAG 2.1 AA	Compliance with stricter guidelines (e.g., WCAG 2.1 AAA and 2.2)
	Privacy policy	Protection and ethical use of user data; transparency on data collection and process	Not GDPR compliant; Insufficient readability	GDPR compliant; Readability may be improved	Ethical approach on users’ data; Good readability
	Capacity	Requires internal capacity and knowledge	Not required	Partially required	Required
Pedagogical	Engaged with instructional practices	Engagement in pedagogical research and educational context	Not engaged	Proposed as DET	Proposed as DET and engaged in pedagogical research
	Usability	Usability framework (e.g., Nielsen’s heuristics)	TBD within the institution		
	Impact on education	Learning curve, workflow integration, output quality, and adaptability to the academic context	TDB within the institution		Intuitive and easy to learn; integrates with existing workflows; improves academic outcomes
	Purpose	Potential to solve the problem	No clear problem or DET can’t solve the problem	Potential to partially solve the problem	Potential to completely solve the problem
Environmental	Energy consumption	kilowatt-hours (kWh)	No LCA or environmental assessment	TBD within the institution	
	Raw material consumption	Material footprint (kg - tons per unit)			
	Carbon emissions	Carbon footprint (kg CO2-eq)			
	Sustainability in design	Consideration of sustainability principles	Sustainability is not considered in DETs design and development	Sustainability aspects are considered, but they are not central	Sustainability is a core design principle
	Sustainability through design	Promotion of sustainability practices	No	Not assignable	Yes