

# **Digi Ready+**: Implementing a data-driven framework for measuring digital readiness across European universities

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# Digital landscape

In an ever-evolving digital landscape, Higher Education Institutions (HEIs) must be "equipped" to meet the demands of our digital society.

It is very crucial for HEIs to acquire a better mechanism to evaluate their existing digital readiness levels, identify possible challenges, and establish plans for transitioning to digitally enhanced policies.







# Digital Readiness in European Higher Education Institutions

a data-driven framework guided by Institutional and Instructional Analytics

Duration: Feb. 2022 – Jan. 2025

Funding: Programme: EU Erasmus+ Cooperation partnerships in higher education

The aim of DigiReady+ is to define a **framework** and develop a **prototype**, in the form of a web tool, to measure **Digital Readiness** in **Higher Education**Institutions based on Institutional and Instructional Data Analytics.

















"Digital Readiness (DR) in Higher Education
Institutions is defined as a measure of the
inclination and willingness to adopt digital
technologies and facilitate digital opportunities
to achieve goals
faster and with better results."

DR requires a **culture of innovation and collaboration** and can **improve the quality** of education and support the needs of students, faculty, and staff.







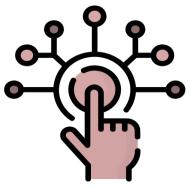
## DigiReady+ Approach

- Digital Readiness Definition
- DigiReady+ Framework
  - DigiReady+ Dimensions (7 Dimensions)
     Through participatory workshops and literature survey
  - DigiReady+ Indicators (3-10 Indicators per Dimension)
     Analysis and Evaluation, 1-3 Questions per Indicator
- DigiReady+ Toolkit and API
  - DigiReady+ API and Data Sources
  - DigiReady+ Dashboard and Reports
  - DigiReady+ Score Pyramid 4 Levels of DR + Intermediate sub-Levels
  - DigiReady+ Recommendations for Level Up
- DigiReady+ Guidelines
   Methodology, Data Sources, Glossary, Terms & Conditions





### DR+ Dimensions





### **D1 Digital Leadership**Academic leaders guiding and

Academic leaders guiding and supporting the digital transformation in education



#### **D2** Policies and Strategies

Procedures needed to ensure the successful implementation of digital transformation in education



#### **D3** Teaching and Learning

Use of digital technologies to enhance the teaching and learning experience



#### **D4 Digital Content and Skills**

Digital literacy assessments, materials used by learners, and modifications of curricula



#### **D5 Digital Training and Support**

on faculty and staff on the use of digital tools and resources



#### **D6 Digital Infrastructure**

The physical and technological resources needed to support digital learning



**D7 Research, Networks, and Alliances** are important aspects of digital readiness

- The DigiReady+ SMART Framework is focusing on seven (7)
   Dimensions for measuring the Digital Readiness of an HEI
- Defined through participatory workshops in 3 universities and literature survey.







### DR+ Indicators

The DR+ SMART Framework is based on DR+ Indicators.

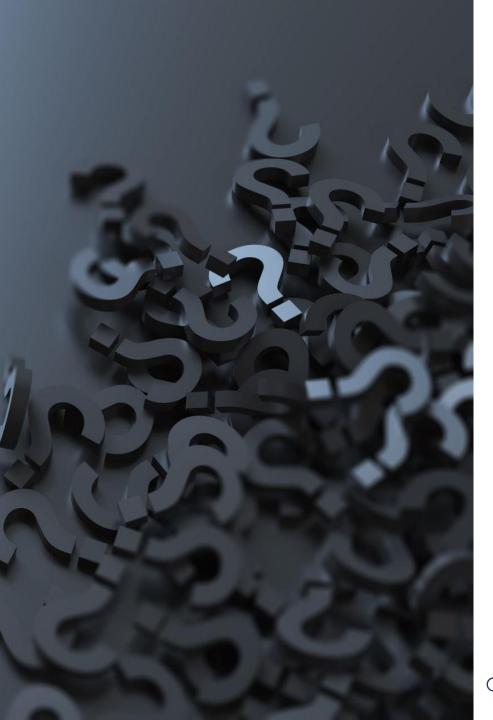
The **DR+ Indicators are SMART** - Specific, Measurable, Achievable, Relevant and Time-bound

- Specific, means that the indicator needs to be narrow and accurately describe what needs to be measured.
- **Measurable** means that regardless of who uses the indicator it would be measured in the same way.
- Achievable means that collecting the data should be straightforward and cost-effective.
- **Relevant** requires that the indicator be closely linked to the relevant outcome.
- **Time-bound** means that there should be a timeframe linked to the indicator.









### DR+ Data Sources

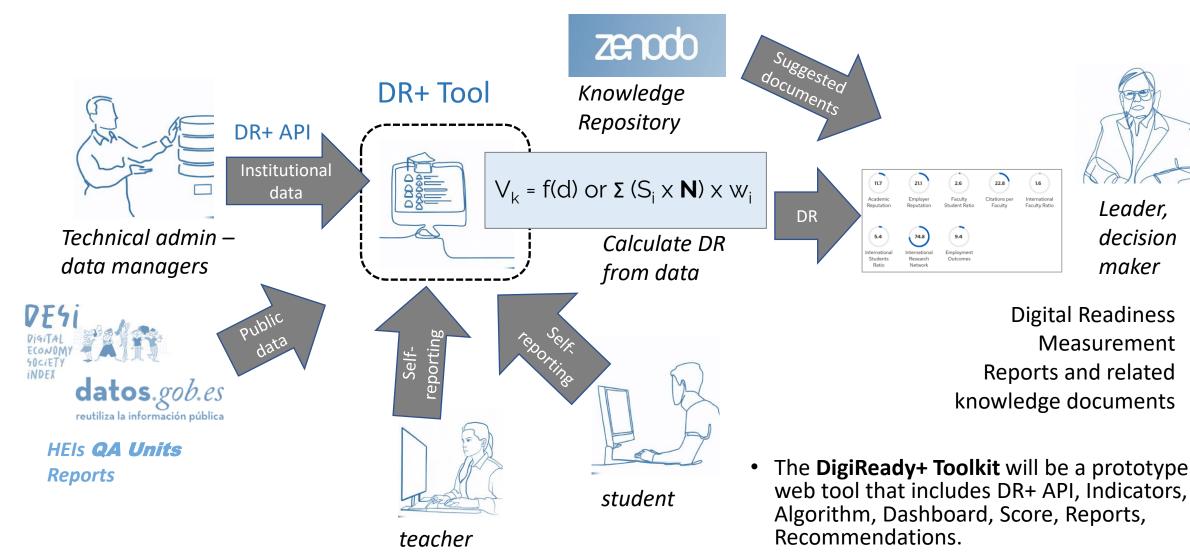
Higher Education Institutions have several common information systems that can be used as data sources for the DigiReady+ Framework Indicators.

- IS1. Learning Management System (LMS)
- IS2. Student Information System (SIS)
- IS3. Institutional Directory Service (IDS)
- IS4. Digital Governance Centre Web Site (DGWS)
- IS5. Institutional Web Site (IWS)
- IS6. Curicula Registry Information System (CRIS)
- IS7. Quality Assurance Information System (QAIS)
- Other (to be identified)





## DR+ Toolkit and API



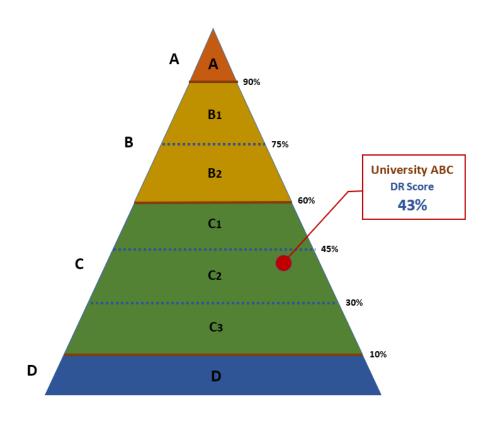




## DR+ Pyramid

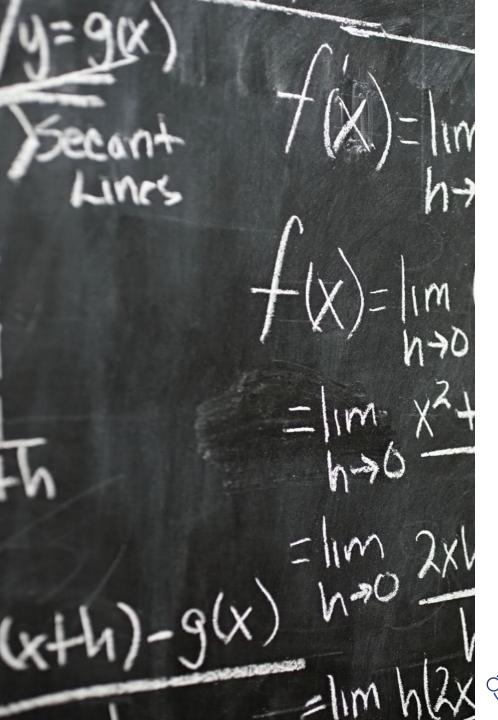
The DR+ Score Pyramid visualizes the different scores/areas of HEI's Digital Readiness.

- **DR-A (score 90-100)** is the top of the pyramid and includes HEIs that have fully implemented digital strategy which is constantly updated based on metrics, analytics, and business intelligence.
- DR-B (B1 score 75-90, B2 score 60-75) includes HEIs that have implemented digital strategy and they have adequate capacity of digital readiness, but there is room for improvements in specific areas.
- DR-C (C1 scores 10-30, C2 scores 30-45, C3 scores 45-60) includes HEIs that have digital services in all dimensions, but no clear digital strategy and they need to improve in terms of policies, interoperability, and process re-engineering.
- DR-D (score 0-10) includes HEIs that have no or limited digital services and no digital strategy









### DR+ Recommendations

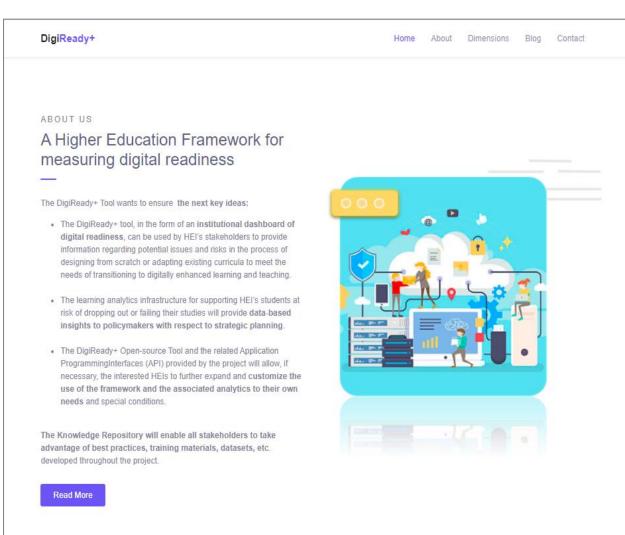
The DR+ Recommendations will **provide actionable insights** to HEIs both <u>horizontally</u> (general recommendations) and <u>vertically</u> (recommendations per dimension) and include <u>specific action</u> <u>plans</u> to help HEIs improve their digital readiness.

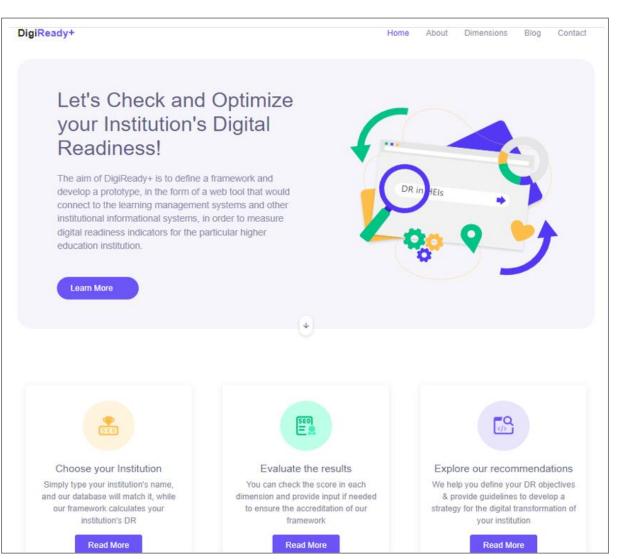
- **General recommendations** based on the HEI's profile and the overall digital readiness score to up-scale. (ex. Level C3 → C2, C1, B1)
- **Vertical recommendations** per DR+ dimension based on dimension's score and weak points.
- Targeted recommendations based on answers in specific DR+ Indicators in order to identify weak points and give suggestions for improvements.





# DigiReady+ Tool UI Design

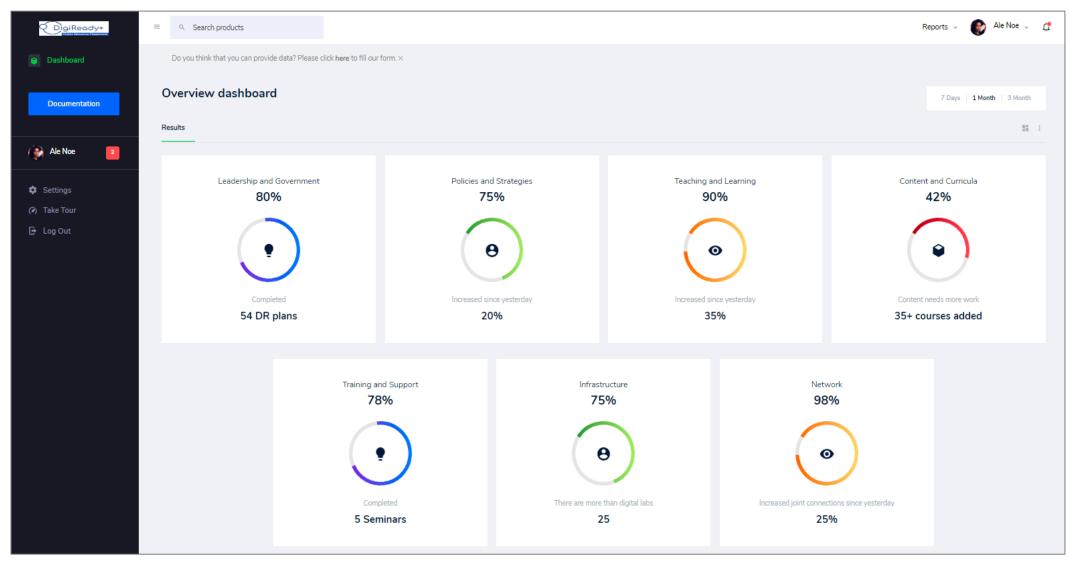








# DigiReady+ Tool UI Design









HEIs need to **remain competitive** in the rapidly evolving digital landscape.

This requires having a **strong online presence** and ensuring that **digital technologies are integrated seamlessly** into all aspects of the <u>institution's</u> operations, including <u>teaching and learning</u>, research, administration, and <u>communication</u>.

HEIs need to develop a **comprehensive digital strategy** that aligns with their <u>overall mission and vision</u>, and invest in the necessary <u>infrastructure</u>, <u>tools</u>, and <u>skills</u> aiming at improving digital readiness.

Digital Readiness requires a culture of innovation and collaboration.







# Thank you for your attention!

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