

Cooperation Partnership for Digital Higher Education in Integrated Omics for Environmental Sustainability

2023-1-BG01-KA220-HED-000155777

General overview



DigiOmica at a glance

- ✓ **Programme** ERASMUS +
- ✓ **Action type** KA220-HED - Cooperation partnerships in higher education
- ✓ **Call/Round** 2023 / 1
- ✓ **Duration** 24 months: 01.09.2023 – 31.08.2025
- ✓ **Consortium**
 - 5 partners: 3 HEI, 2 R&D Centers
 - 3 countries: Bulgaria, Spain, Türkiye

DigiOmica Priorities & Topics

✓ **Main priority:**

- Addressing digital transformation through development of digital readiness, resilience and capacity

✓ **Additional priorities:**

- Rewarding excellence in learning, teaching and skills development
- Environment and fight against climate change

✓ **Topics**

- Information and communication technologies (ICT)
- Creating new, innovative or joint curricula or courses

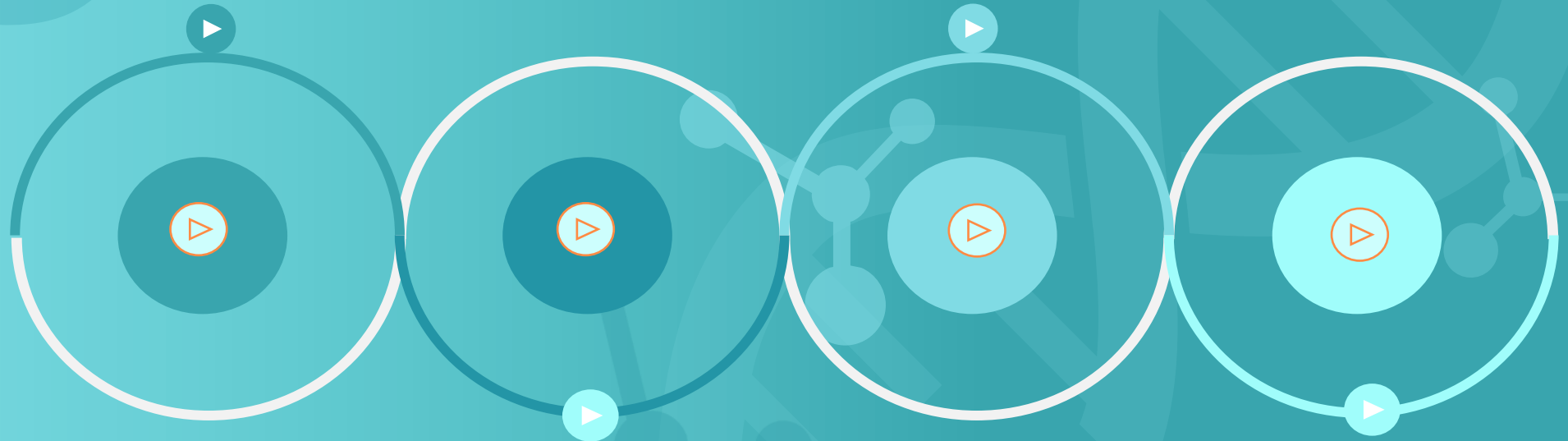
✓ **Main objective:**

To develop an innovative educational curriculum based on:

- **ICT**
- **Molecular life science**
- **EQF/NQF strategic system for organization of an education process**

DigiOmica Objectives

✓ Specific objectives:



✓ - Increasing the activities and practices of project partners institutions

✓ Building capacity of organizations to work trans-nationally and across sectors

✓ Addressing mutual needs and priorities of education and training: improve connections to job opportunities

✓ Enabling transformation and change (at individual, organizational, sectoral level), leading to improvements and new approaches

DigiOmica Innovation Scope

Exchange of good practices and boosting digital competencies

Exchanging information among the partners on the innovative HE learning schemes preparation

Collecting information from the EU Skills Panorama database to show updated and forecasting skills supply and labor market needs to be valued

Using digital design and cloud technology for learning materials production; testing and employing innovative ICT practices in environmental omics education

Implementing innovative approaches for digital databases use – b-learning tools, peer-to-peer learning opportunities and online support, cloud-based digital resources, workshoping on parts of the curriculum, networking

Innovative competencies needed for the HE in the field of DigiOmica

Study the EQF/HE and NQFs (BG, ES, TR) links and apply the EUROPASS and EQF instruments; pilot testing of the learning scheme and indicators application for qualification evaluation

Curricula design and definition of specific occupational profiles through EQF/NQFs and ESCO qualification standards

Building LOs-oriented modular curriculum and definition of competency levels 6, 7, and 8; ensuring transparency and comparability of prior learning

Applying quality management to the new learning content through quality assurance principles; arrangement of a cross-border certification, facilitating student mobility

Innovation Scope

Launching an innovative concept for an educational scheme based on the EQF/NQF/HE principles

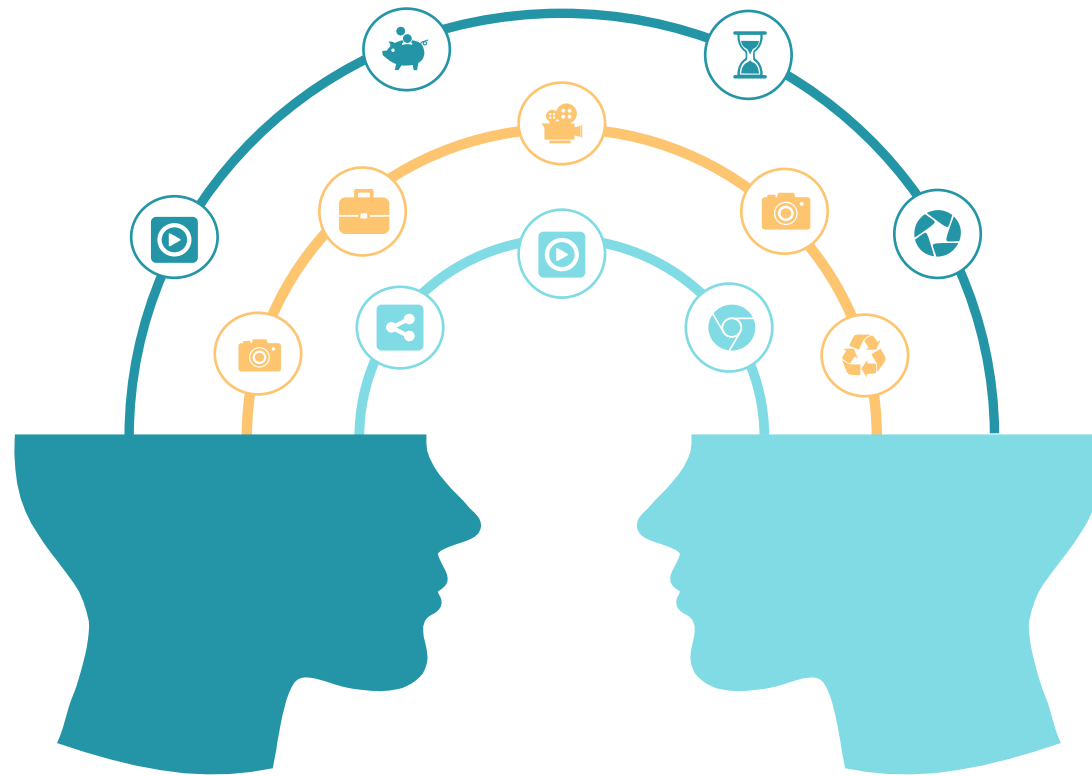
DigiOmics Target Groups

SELECTION:

The needs of innovative education in environmental omics through digital technologies

Academic professionals
Teachers, Mentors, Supervisors

Under/post-graduates
B.Sc., M.Sc., and Ph.D. students



Post-doctoral researchers &
Research associates

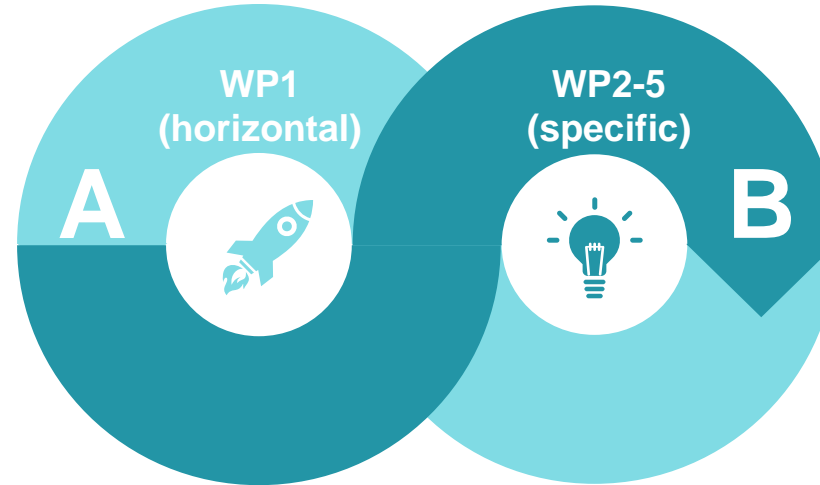
DigiOmica Work Plan

Phase I: Planning (before project start)

➤ Needs definition, objectives specification, project and learning outcomes shaping, activity formats determination

➤ LP: P1

➤ CA: P2-P5



Phase II: Preparation (1-3 M, WP1)

➤ Structuring of project management

➤ LP: P1

➤ CA: P2 - P5; PMS, SPS

Phase III: Implementation (4-18 M, WP2-3)

➤ Development of project results and related deliverables

➤ LP: P2 & P3

➤ CA: P1, P4 & P5; PMS, QAS, SPS

Phase IV: Follow-up (19-24 M, WP4)

➤ Assessment, pilot testing, sharing & use of project's results, project sustainability

➤ LP: P4 & P5

➤ CA: P1 - P3; PMS, QAS, SPS

Phase I: Planning (before project start)

➤ Needs definition, objectives specification, project and learning outcomes shaping, activity formats determination

➤ LP: P1

➤ CA: P2-P5

Phase I: **PLANNING**

Duration: **Before project start**

Activities: Needs definition, objectives specification, project and learning outcomes shaping, activity formats determination

Deliverables: Project idea shaping

DigiOmica Roadmap

Phase II: Preparation (1-3 M, WP1, 2, 5)

➤ Structuring of project management

➤ LP: P1

➤ CA: P2 - P5; PMS, SPS

Phase II: **PREPARATION**

Duration: **1 – 3 Month**

Activities: **WP 1.** Structuring of project management – governing bodies, tasks scheduling and responsibilities assignment, development of shared project ideas and delivery of survey tools; kick-off TPM

WP 2. Digital platform technical registration, basic configuration, and visual identity specification

WP 5. Elaboration of sharing and promoting results strategy; issue of relevant documents; formation of associated partners' net

Deliverables:

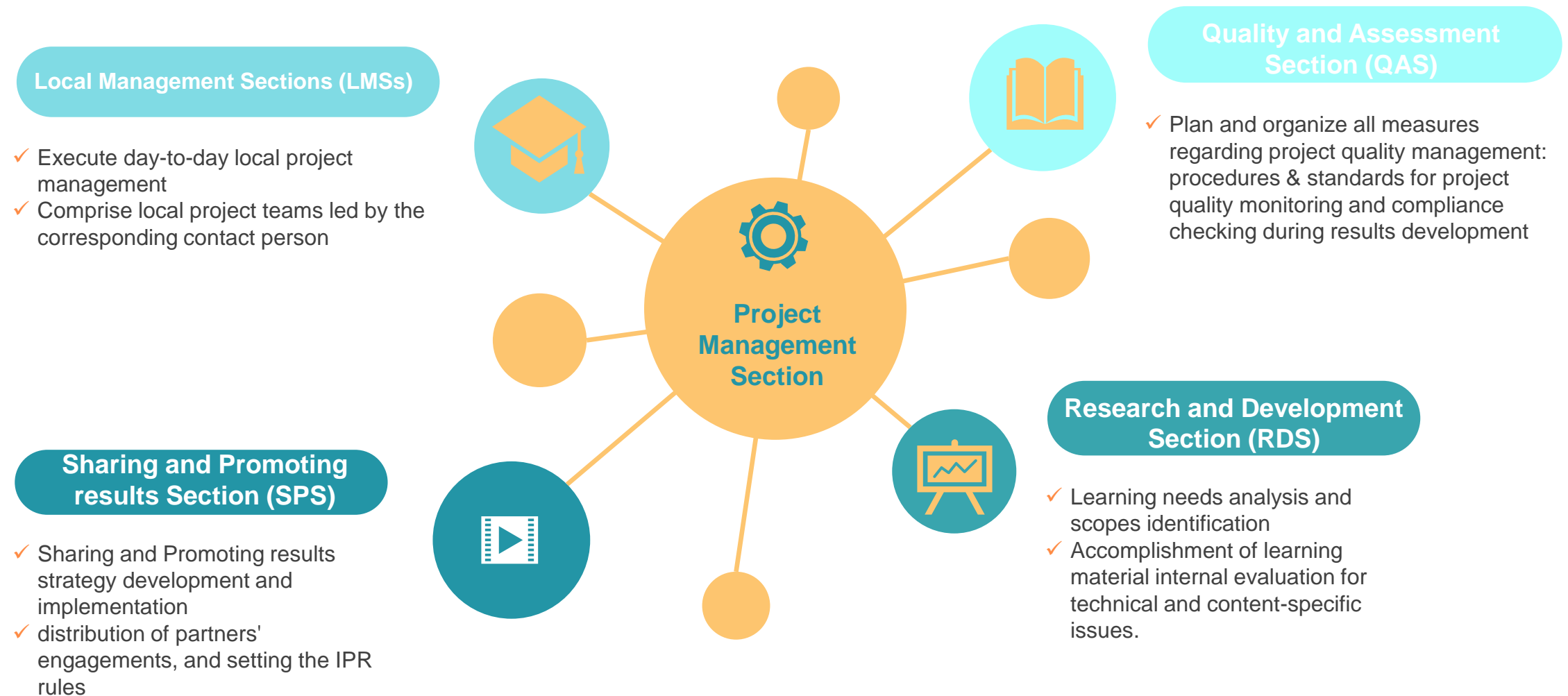
- Project governing bodies: PMS, LMSs, QAS, SPS, and RDS
- Project Admin. & Quality Management Plan
- Project Communication Plan and Risk Management Plan
- Survey tools
- Kick-off TPM

- DigiOmica digital platform establishment
- Basic elements configuration
- DigiOmica logo and branding

- Sharing and promoting results strategy
- IPR agreements
- Basic set of guidelines
- Project support network
- Valorisation checklists

DigiOmica Cooperation Arrangements

PMS: elaborate the project strategy and control its implementation; manage all project activities; distribute the specific tasks among the partners; guide the work of the other sections; prepare the progress /final reports; work with the associated partners



DigiOmica Roadmap

Phase III: **IMPLEMENTATION**

Duration: **4 – 18 Month**

Activities: **WP 1.** Smooth project operation: management, monitoring, control, risks handling

WP 2. Digital platform construction to fit end-users' demands, following developers' assignment; structuring of platform panels; establishment of the multilingual e-learning process; operation on life server; instructions manual for use; project progress monitoring - TPM

WP3. Establishment of Digitally-Based Education (DBE) scheme; design and development of DigiOmica curriculum; elaboration of guiding materials for curriculum exploitation

WP 5. Sharing and promotion of results tools preparation and activities performance

- Deliverables:
- Management procedures, tools, and governing bodies in action
 - Survey analytical report
 - Digital platform development instructions
 - DigiOmica digital platform structured
 - Algorithm for content - interactivity matching
 - Interactive content in BG, EN, ES and TR
 - OMICS index
 - 2nd TPM
 - DBE scheme concept and structure: LOs, ULOs, CLPs, ECTS grading scale and credits
 - Multilingual curriculum 'Integrated Environmental Omics'
 - OMICS index; DigiOmica catalogue & Students Toolkit
 - 3rd TPM
 - Multilingual tools (electronic & printed) for results sharing and promotion
 - Results sharing and promotion channels and events used

Phase III: Implementation (4-18 M, WP2-3, 5)

➤ Development of project results and related deliverables

➤ LP: P2 & P3

➤ CA: P1, P4 & P5; PMS, QAS, SPS

- Activities:
- WP 1.** Smooth project operation: management, monitoring, control, risks handling
- WP 2.** Digital platform operating as a digital asset of the multilingual e-learning process in Integrated Omics for Environmental Sustainability; and sharing and promotion of project results tool; close-up TPM performance
- WP4.** Elaboration of a strategy, guidelines and tools for the results testing; organize and perform project results piloting at a national level; production and issue of national results usability reports and review
- WP 5.** Sharing and promotion of results activities performance; organization and performance of valorisation workshops, feedback data analysis, national reports and review issue; post-project actions planning

- Deliverables:
- Management procedures, tools, and governing bodies in action
 - DigiOmica digital platform in action
 - 4th TPM
 - Strategy for results testing
 - How-to-Do guide and templates for the strategy implementation
 - Testing sessions (partner-specific)
 - Feedback results analyses (partner-specific)
 - Results usability review
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 - Results sharing and promotion channels and events used
 - Valorization workshops (partner-specific)
 - Feedback results analyses (partner-specific)
 - DigiOmica valorization review
 - 4th TPM
 - Sharing and promoting activities at project final stage

DigiOmica Roadmap

Phase IV: Follow-up (19-24 M, WP1, 2, 4, 5)

- Assessment, pilot testing, sharing & use of project's results, project sustainability
- LP: P4 & P5
- CA: P1 - P3; PMS, QAS, SPS

DigiOmica objectives achievement



1 Qualitative indicators

QLI

- Qualifications recognition strategy in the target sector used
- Instructions for e-media utilization stipulated
- DigiOmica learning environment built and arrangement of user-centered HE learning modes
- Establishment of ECTS crediting plan for evaluation
- Provision of DigiOmica pilot learning
- Approbation and evaluation/validation of project results
- Establishment of a sectoral network and embedding of project results in related sectors
- Organization of DigiOmica national workshops
- Cluster activity for further development/application of e-education modes
- Multilingual promotional materials production

Quantitative indicators 2

QNI

- Review and implementation of 15 good practices for DigiOmica curriculum elaboration
- Multilingual digital platform operation checked, and its functioning approbated
- Digital platform operational guide issued
- Curriculum preparation through online/offline learning methods
- Arrangement of 11 Learning Outcomes
- 5 piloting events at the sectoral level organized
- 100 - 120 trainees from BG, ES, and TR tested
- 5 workshops with the participation of direct and indirect target groups performed
- Issue of a brochure, 2 leaflets, 2 flyers, a placard, 2 newsletters, 2 ppt presentations, and other promotional materials

DigiOmica contribution to partners long-term development

- Modernization of the educational curricula with new knowledge and skillsets in the environmental omics area and ICT assisted teaching and learning modes
- Exploiting the full capability of the digital platform and its auxiliary tools assisting in the b-learning process establishment
- Continuous access to the project knowledge content database

Results to be used after the project end

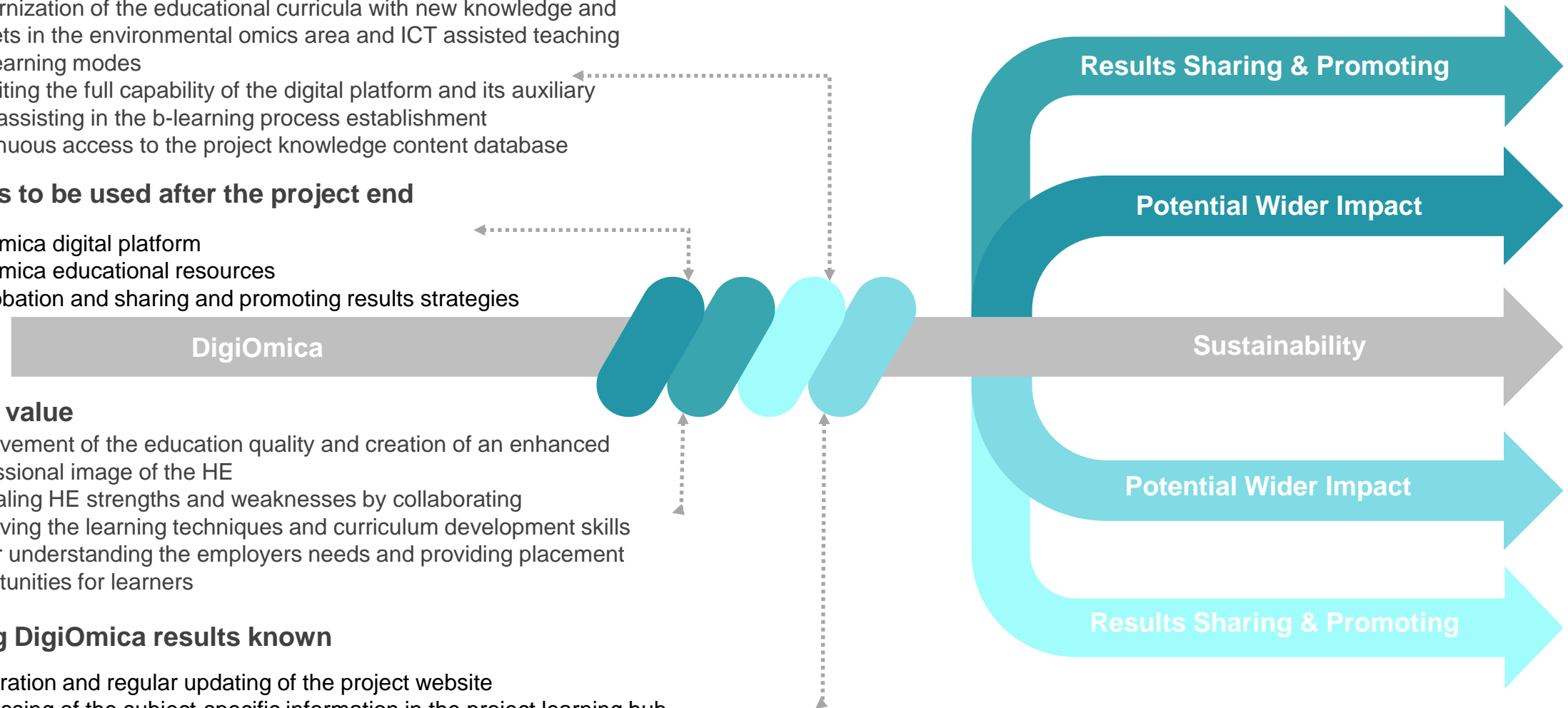
- DigiOmica digital platform
- DigiOmica educational resources
- Approbation and sharing and promoting results strategies

Added value

- Improvement of the education quality and creation of an enhanced professional image of the HE
- Revealing HE strengths and weaknesses by collaborating
- Improving the learning techniques and curriculum development skills
- Better understanding the employers needs and providing placement opportunities for learners

Making DigiOmica results known

- Elaboration and regular updating of the project website
- Processing of the subject-specific information in the project learning hub
- Presence in social media



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Erasmus+

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