Issuing Digital and Micro-Credentials From VLE and *Europass*. Digitally Competent Teacher Solutions For Learning Design.
SMART Research Project Experiment as Best Practice Example

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Research project
„Digital Micro-credentials in Higher Education"

The aim of the project is to describe and create the process of issuing micro-credentials in higher education.

Project Team:
Assoc. prof. dr. Elena Trepulė (Leader)
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Dr. Daiva Urmonienė
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and others

European Commission

1 Results:

Research paper "Exploring the Potential of Micro-Credentials: A Systematic Literature Review"

Aim of the paper - to investigate from an integrative perspective the potential of micro-credentials to foster social, economic, and higher education innovations.

Tamoliune, G., Greenspon, R., Volungeviciene, A., Tereseviciene, M., Trepule, E., Dauksiene, E. (2023). Exploring the potential of micro-credentials: A systematic literature review. *Frontiers in Education.*
https://doi.org/10.3389/feduc.2022.1006811

2. Results: Content and technical specification of the process of micro-credentialization.

The technical specification of the process of micro-credentialization includes:

- a template model of the digital and micro-credential and its meta-data fields;
- a template of open learning opportunity (course) description that is harmonized with and meta-data fields;
- both are matched with the European union digital infrastructure for micro-credentials.

3 Results: Compilation of documents for the open learning environment ready for the process of micro-credentialization.

Open learning environment technically adapted and prepared to issue micro-credentials:

- adapting learning opportunity description form following content and technical specification,
- preparing a prototype of university micro-credential.

4. Results: The piloting record of digital and micro-credentials issuing process.

- registering the descriptions of learning opportunities (courses) in the *Europass*,
- piloting the issuing of micro-credential for at least 5 courses as open learning opportunities.

6 stages of institutional readiness to offer micro-credentials

1
- Strategic decisions

2
- Transparent internal procedures

3
- Academic and administrative staff competence development

4
- Digital metadata template

5
- Virtual learning environment (VLE)

6
- Updated learning opportunity descriptions
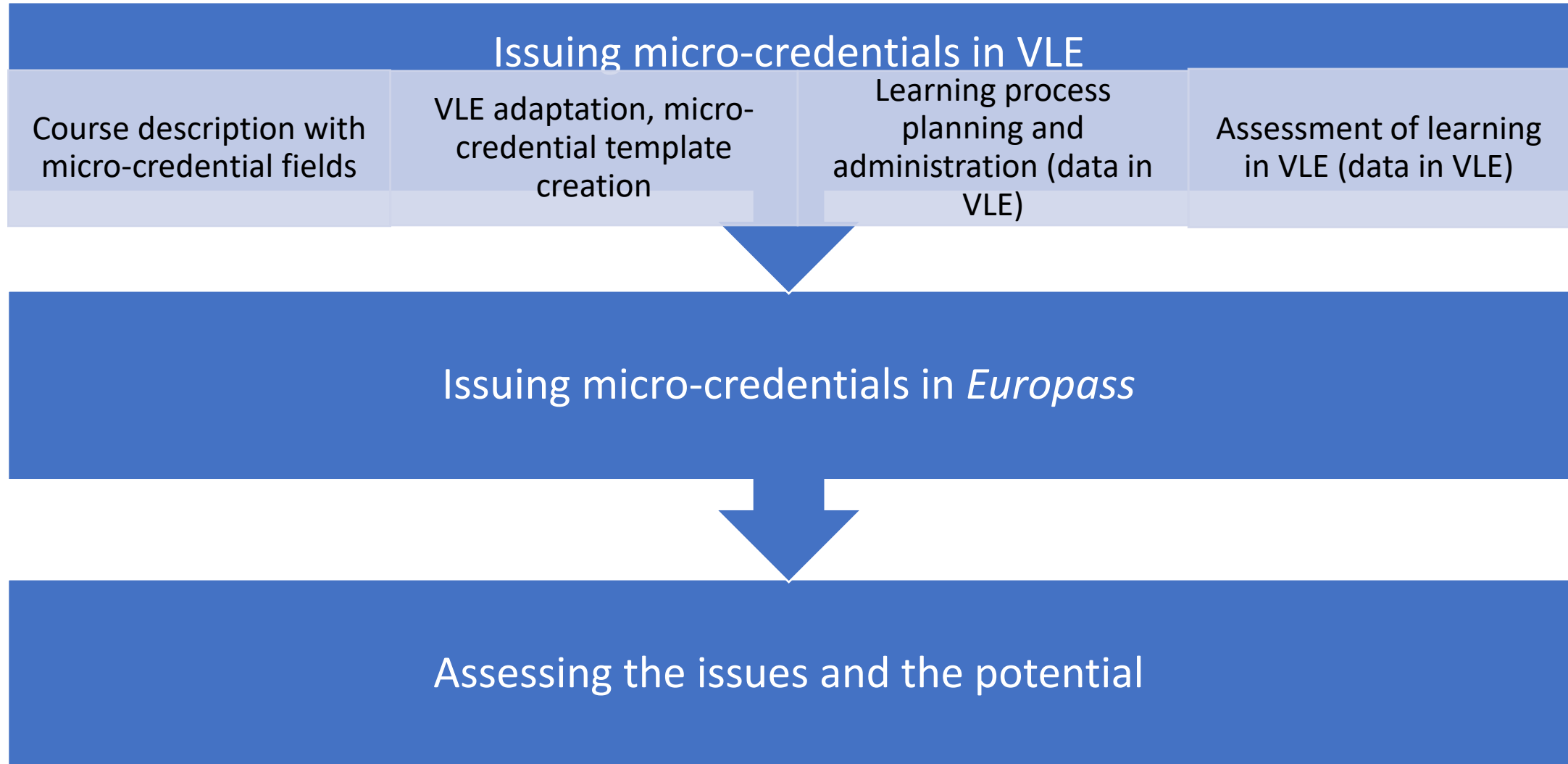
DigiProf

Transparent Assessment for Online Learning by Digitally Competent Professors

2021-1-LT01-KA220-HED-000031154

- Training materials "Ensuring digital and micro-credentialization of learning"

- The Guidelines for HE Institutions to Implement Transparent Assessment of Learning Outcomes for Online and Blended Learning Leading to Digital and Micro-credentials

Digital metadata template and micro-credentials in VLE

Issuing micro-credentials in VLE

| Course description with micro-credential fields | VLE adaptation, micro-credential template creation | Learning process planning and administration (data in VLE) | Assessment of learning in VLE (data in VLE) |

Issuing micro-credentials in *Europass*

Assessing the issues and the potential

Piloting micro-credentials

This microcredential is evidence that

> **Name Surname**

Successfully completed a subject

Diversity of digital assessment strategies

Volume of learning in ECTS:	1		
Volume of learning in hours:	25	Of which by contact:	6

Mode of learning: Online
Form of learning: Non-formal
Learning language: English
Grade: passed

Learning outcomes:
   Adapt a variety of assessment strategies using digital technology tools, justifying their relevance and usefulness in promoting student learning.

Micro-credential from Moodle

Vytautas Magnus University Rector

Prof. dr. Juozas Augutis

Date and place of issue   May 8, 2023   Ka

```
{} JSON
    id : "3"
    firstname : "User"
    lastname : "User"
    email : "user@user.user"
    institution : ""
    department : ""
    courseid : 2
    coursename : "Bendradarbiavimas"
    coursesummary : ""
    [] activities
        {} 0
            activity_name : "Testas 1"
            activity_module : "quiz"
            activity_grade : "10.00"
            activity_grade_long : "10.00 / 10.00"
            [] outcomes
        {} 1
            activity_name : "Assignment #1"
            activity_module : "assign"
            activity_grade : "100.00"
            activity_grade_long : "100.00 / 100.00"
            [] outcomes
                {} 0
                    outcome_name : "Vertinimo Schema"
                    outcome_grade : "Separate and connected"
                    outcome_feedback : ""
```

Digital data container

CUSTOM CERTIFICATE
Microcredential

🔒 Not available unless: The activity **TEST** is complete and passed

🔒 Not available unless: The activity **TEST** is complete and passed
Download...

Examples of MC issued via *Europass*:

Email

MC in ECDI viewer

Issues and challenges defined

- Institutional perspective:
  - Institutional procedures to be prepared and agreed
  - Teacher proper use of virtual learning environment (VLE)
  - The institutional registry of MC issued to be created
  - The use of VLE leads to huge data constant increase
- As national innovation – issues in getting and using the eSeal
- As international innovation
  - Different understanding of the micro-credential
  - *Europass* updates – issues and challenges in
    - Finding the proper page to issue
    - Keep up to date to constant platform updates
    - Program/credential description updates
    - Search for help

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Project website

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