Project Overview
Digital Credentials for Higher Education Institutions – DiBiHo

1st International Stakeholder Dialogue, June 16th 2021
Hans Pongratz & Matthias Gottlieb
Goals & Partner

Exploration of a trusted, distributed, and internationally interoperable infrastructure standard for issuing, storing, presenting, and verifying digital academic credentials in a national and international context for German Higher Education Institutions.

Technical University of Munich (TUM)
Hasso Plattner Institute for Digital Engineering (HPI)
German Academic Exchange Service (DAAD)

Photos: Andreas Heddergott/TUM; HPI; DAAD.
Digital Credentials Consortium

**Founding Members**
- Delft University of Technology (The Netherlands)
- Georgia Tech (USA)
- Harvard University (USA)
- Hasso Plattner Institute, University of Potsdam (Germany)
- Massachusetts Institute of Technology (USA)
- McMaster University (Canada)
- Tecnologico De Monterrey (Mexico)
- Technical University of Munich (Germany)
- UC Berkeley (USA)
- UC Irvine (USA)
- University of Milano-Bicocca (Italy)
- University of Toronto (Canada)

**Learner-centred**

**Standards-based**

**Use Case driven**
Necessity of Digitalization: Saving Time and HR Power

State-of-the-Art
- Manual
- Digital

Future
- Digital
- Manual

DiBiHo Project Overview - June 16th 2021
Setting Priorities

Exploring a trustworthy, distributed and internationally interoperable infrastructure standard for issuing, storing, presenting and verifying digital academic credentials.

- International perspective
- Analyze, compare and further develop existing approaches in a national, European and international context
- Describe requirements and necessary functionalities
- Develop prototypes and proofs-of-concept for several use cases
- Make recommendations for future operator and support models
The European Context

- Europass
- DG Emp
- EBSI CEF Digital
- EMREX Project Erasmus+
- European Student Card Initiative Erasmus+
- Erasmus Without Paper (EWP) Erasmus+
- MyAcademicID CEF Telecom
- eID4U CEF Telecom
- ESMO CEF Telecom
- SEAL CEF Telecom
- Olympus Project Horizon 2020
- European Digital Student Service Infrastructure
The European Context – EDSSI

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Goal: Standard for the Digital Credential Life Cycle

Envelope (meta level) + Data Object → Digital Credential

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Deep Dive: Stakeholder Model

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Building Competencies along the Learner Journey

<table>
<thead>
<tr>
<th>National</th>
<th>European</th>
<th>Global</th>
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<tbody>
<tr>
<td>Study orientation</td>
<td>German University Entrance Qualification (HZB)</td>
<td>Application for a study abroad</td>
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<tr>
<td>Propaedeutics Language test</td>
<td>Application</td>
<td>Programs</td>
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<td>Recognition of credits earned abroad</td>
<td>Additional certificates</td>
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<td>External achievements, such as MOOCs, Modules &amp; Micro Degrees</td>
<td>Final diploma</td>
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<td>Continuous Education</td>
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<td>Life-long learning</td>
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</tbody>
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Icon: Freepik
The Bigger Picture – Student Mobility Flows

- What about digital mobility?
- Machine readability?
- Seamless networking?

Interoperability & Quality Assurance are necessary for success!

Next Steps

**Jun 2021**
1st International Stakeholder Dialogue

**Fall 2021**
2nd International Stakeholder Dialogue

**Sep 2021**
Requirements Analysis
State-of-the-Art Analyses (Wallets, IDM, SSI)

**Winter 2021**
IT-Security and GDPR Concept

**Spring 2022**
Prototypes

**Fall 2022**
Operating, Provider, and Support Concept

**Dec 2022**
Final report

DiBiHo Project Overview - June 16th 2021
Keep in Touch!

Join our mailing list:

https://lists.lrz.de/mailman/listinfo/dibiho-info

Next Event
Fall 2021
Stakeholder Dialogue on our technological overview and reference architectures

Further Information
www.dibiho.de
DiBiHo Facts

Consortium

TUM  HPI Hassel Platner Institut  DAAD

Project Goal

Exploration of a trusted, distributed, and internationally interoperable infrastructure standard for issuing, storing, presenting, and verifying digital academic credentials in a national and international context for German Higher Education Institutions.

Project Period

11/2020 – 12/2022

Funding

Federal Ministry of Education and Research

Contact

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Kathleen Clancy (lead DAAD team)

Links

www.dibiho.de