



LZP Lietišķais pētījums

"Transformatīvas digitālās mācīšanās ieviešana pedagogijas zinātnes doktora programmā Latvijā" (DocTDLL) lzp-2018/2-0180

*Implementation of Transformative Digital Learning  
in Doctoral Program of Pedagogical Science in Latvia  
(DocTDLL) lzp-2018/2-0180*

# *Aims, objectives, planned findings and results of the project*

Project manager  
Prof., Dr.paed. Velta Ļubkina

Rezekne Academy of Technologies, 11.01.2019.

# DocTDLL implements

---

## ◉ Rezekne Academy of Technologies

### In cooperation with principle performers:

- *Professor Emeritus Irēna Žogla, University of Latvia*
- *Todd Blayone - Canada, Ontario University*
- *Ilga Prudņikova – State content and examinationa centre, dep.directors of the dpt.of special education*

### *Foreign performer:*

*Olena Mykhailenko (Canada/Ukraine)*

# The goal of the project:

---

- **is to create new pedagogical knowledge and technological know-how in the field of transformative digital learning (TDL) in higher education in Latvia based on Canadian experience and to ensure transfer of knowledge and skills in the further development of the doctoral study program "Pedagogy", as well as the development of scientific, academic and practical capacity of researchers and educators.**

# **The specific objectives** *of the research meet the main*

*challenges and priorities of the project, originality and novelty :*

---

- **1. *Implementation of interdisciplinary research***, capacity building and the creation of a new knowledge base by studying the situation and transferring innovation to implement TDL in doctoral studies. (*Pedagogy: Information technologies: social rehabilitation technologies*)
- **2. *Development of new prototypes: e-platform, innovative methodologies (approaches, methods, techniques)*** for completing experiments, approbation, implementation and provision of new services in the context of higher education, which will provide world-wide recognized knowledge transfer in the development of innovative and advanced didactic materials

# Research questions:

- *1. the understanding of Latvian educators and doctoral students about inquiry-based transformative digital learning and practicing this type of learning in the formal education system in Latvia and continuous lifelong learning, their role and cooperation, as well as the value and processing of significant amounts of data which is generated by technologies and function as a key driver for the uptake of these technologies;*
- *2. transformative digital learning informed by exploration of the experience in digital learning and maintaining research at the University of Ontario, Institute of Technology, Canada (EILAB) which is appropriate for implementation in higher education of Latvia and help to develop theoretical basis and practices of tertiary pedagogy;*
- *3. ways of designing appropriate settings of teaching-learning and of transferring traditional teaching methods into collaboratively organized transformative digital learning towards synergies and doctor students' research and academic achievements;*
- 4. educator conceptual understanding how the technologies change doctoral study and research process, their role and cooperation with learners, as well as the value and processing of significant amounts of data which is generated by technologies in their functioning as a key driver for the uptake of these technologies;
- 5. usage of digital technology tools as a means of transforming learners' understanding of transformative inquiry-based digital learning and tendencies of educational developments in general.

# The objectives of the project:

- ① **1. to promote RTA's scientific efficiency and capacity building by involving young scientists and students in research**, examine the extent to which doctor students adopt the TDL as a learning mode captivated by its usage, use technologies in research and also in their role of pedagogical tools, and return to its usage on regular basis;
- ② **2. to conduct interdisciplinary scientific research** on topical issues of educational developments based on world-recognized knowledge and related to education regularities, introducing the TDL in doctoral study program, transferring theoretical research and innovation to the whole area of higher education in Latvia;

# The objectives of the project:

- 3. to investigate evidences if the learning that is achieved through the implementation of the TDL is retained by the doctoral students and if they are able to apply this learning to other theoretical and practical contexts in order ***to develop scientific competence of the employees in the field of pedagogy and ICT; by achieving synergy and creating new competitive approaches foster integration of the physical and virtual world; by developing and testing in practice the digital learning modules of an effective doctoral program prepare the created products for wide usage and accessibility in today's web environment; provide access to innovative materials and e-services for any willing to learn person;***
- 4. ***to develop recommendations for the long-term provision and implementation of the project results in other modules of doctoral study programs and those of higher education in Latvia;*** to implementation of interactive educational measures and public information in cooperation with Latvian higher education institutions, economic sectors (education) and local government partners that serve for promoting cooperation between science, practice and society; by doing so these will contribute to creation of sustainable development of the European area.

# Work plan

Start date is 12/2018; project duration 24 months

- 1. *Adaptation of the "Personal-Cultural Orientations Scale" and "Digital Competency Profiler" to the Latvian conditions and cultural environment (responsible - principal performers I.Žogla un T.Blayne).*
- 2. *Conducting and surveying data processing in the doctoral study program "Pedagogy" in Latvia and preparation of a statistical report with the purpose of creating new knowledge in the field of digital learning (responsible - principal performer I.Žogla with the group of scientists, including students).*
- 3. *Two work-places will be equipped for the group of scientists, including students, with 2 stationary computer kits, 2 laptops and 1 IBM® SPSS® Statistics software for data processing and statistical reporting;*
- 4. *Development of two 10 credit point (15 ECTS) modules for the doctoral study program 'Pedagogy', involving doctoral students in pedagogical activities of approbation and implementation of study materials in RTA doctoral study program 'Pedagogy' (responsible - principal performer I.Prudņikova with the group of scientists, including students).*
- 5. *During the first year of the project there will be provided an opportunity for 4 scientists, including students, to participate at Experiencing workshops in Canada - Visit to the Ontario University Laboratories and meetings with Developers of technologies for digital learning.*
- 6. *Improvement of the capacity of the scientific group and the scientific competence in the field of pedagogical science and ICT synergy for the transfer of innovation and interdisciplinarity by organizing a kick-off meeting, exchange visits for on-campus seminars (1), summer schools (2) and regular face to face and online work and outcomes evaluation workshops; (responsible - project manager, prof. V.Lubkina and the group of scientists, incl. students); Summer schools/seminars will be organised for scientific staff in cooperation with doctoral students 2x during the project period.*

- 7. Improvement of the study environment: video premises for distance digital learning, creating a project website, ensuring accessibility of innovative materials in the e-environment, providing e-services and their efficient use (*responsible - project manager, prof. V.Lubkina and the group of scientists, incl. students*); *Web conferencing equipment (1 set) for transformative digital learning, for approbation and implementation of the developed modules.*
- 8. Consolidation of the scientific results of the project by preparing the draft of monograph, reports at conferences and seminars, implementation of measures in cooperation with the University of Latvia; Daugavpils University and Liepaja University and local partners (*responsible - project manager, prof. V.Lubkina and the group of scientists, incl. students*);
- 9. Dissemination and exploitation activities in Latvia and world-wide, publicity of the results
- 10. Recommendations for the long-term provision and implementation of the project results in the doctoral study programs of higher education in Latvia (*responsible - principal performers I.Žogla and T.Blayne*).

# 2 directions of our research

---

1. **Transformative digital learning: research methodology development and transfer of innovations of Canada, modification for PHD studies in Latvia**

**Principle performers: Dr.habil.paed.,prof. I.Žogla and Todd Blayone (Canada)**

*Performers:*

*Dr.Olena Mykhailenko (Canada/Ukraine)*

*Dr. Svetlana Ušča- data processing*

○ *PHD student Mihails Kijaško*

○ *Master student Anda Abuže - master research and provision of e-environment for the project*

2. Findings from the teoretical research and data analysis will be used for a **research-based modernization of the doctoral study program 'Pedagogy' by preparing 2 modules for fully digital learning with the total amount of 10 LV CP or 15 ECTS for the implementation of TDL,**

**Principle performer Dr. I.Prudņikova**

**Performers:**

- **Dr. Aivars Kaupužs** – rehabilitation technologies
- **Dr. Ēriks Kalvāns** – Social psychology and social work
- **Dr. Svetlana Ušča**- special education, data processing
- **Dr. Līga Danilāne** – ESEC project reserch - parent involvement analysis
- **PHD student Līga Rundāne**
- **Master student Sandra Stafecka** - investigation of social work
- **X- Master student** - investigation in special education

# Clarification

---

- ◉ A joined program in pedagogy for doctoral studies is being developed in Latvia
- ◉ RTA works out the module «Special education and social work»
- ◉ This denotes the specific target of the project being a 10-creditpoint research-based module related to special education and social work.

# IMPACT

---

- The new theoretical knowledge and skills in the field of transformative digital tertiary learning will be created in the project, as well as the experience of Canada, will be transferred to the RTA
- Already during the project two modules 10 CP/ 15 ECTS will be worked out, approbated and implemented within the framework of the doctoral program 'Pedagogy'.

# IMPACT

---

- Within the framework of the project, a new knowledge base, methods and e-technologies will be created, which will be used not only for the implementation of doctoral programs as a pattern of appropriately prepared modules **in the Latvian language and English**, but also will be used to improve the master's and bachelor's programs in the field of education sciences.
- New prototypes will be created: e-platform, introduction of innovative methodologies (approaches, methods, techniques) for implementation of the digital learning technologies in the transformative study process,
- will be prepared recommendations;
- organized result dissemination workshops in cooperation with Latvian universities/institutions of higher education, local governments and school representatives will serve for implementation of the project outcomes in higher education of Latvia.



Lai sniegiem bagāta un skaista ziema, lai panākumiem bagāts Jaunais gads!  
May this winter is snowy, white and beautiful; may this new year is successful!

DocTDLL manager: Velta Ļubkina