Cooperation between Central Asian and Baltic countries in higher education: priority areas

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NEO Coordinator in Kazakhstan
Tallinn, November 2014
Some history

- Tempus operational in Kazakhstan since 1995.
- National Tempus Office set up as a separate unit in June 2005.
- Since 2014 – NEO
Brief information about Kazakhstan

- Capital – Astana
- Population – 17+ mln
- Territory – 2 724,9 thousand square km
- Length of borders – 12 187 km
- Highest mountain – Khan Tengri (6995 m)
- Biggest lakes – Caspian sea, Aral sea, Lake Balkhash
- Longest rivers – Yertis (4248 km), Yesil (2450 km), Zhaiyik (2428 km), Syr Dariya (2219 km).
Number of students in HEIs in Kazakhstan
Number of higher education institutions in Kazakhstan (1996-2014).

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</table>

![Graph showing the number of higher education institutions in Kazakhstan from 1995 to 2015.](image)
Statistics

- During 1995-2013 76 projects financed, (23 national, 53 regional,)
- 57 JEP/JP, 19 SCM/SM)
- Amount allocated by EC – € 54+ mln.
- At present - 26 ongoing Tempus projects.
## Statistics (cont.)

<table>
<thead>
<tr>
<th>Stages</th>
<th>Year</th>
<th>JEP/JP</th>
<th>SCM/SM</th>
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<td>(2007 – 2013)</td>
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<tr>
<td><strong>Total Tempus II - IV</strong></td>
<td>1995-2013</td>
<td>57</td>
<td>19</td>
<td>17</td>
<td>93</td>
</tr>
</tbody>
</table>
Projects with the involvement of LV, LT, FI, EE universities (ongoing)

CM-SCM-T002B05-2005 “Implementing of ECTS an Kazakhstani universities”

Partners: Central Ostrobothnia Politechnic – Kokkola, Fl; Kazakh National Pedagogical University named after Abai, Kostanai State University named after A. Baitursynov, KZ

CD-JEP-27063-2006 “Strategic integrative international management for small and medium enterprises. Curriculum development and implementation in Kostanai state university (KSU) and Rudnyi industrial institute (RII), Republic of Kazakhstan”

Partners: Seinaejoki university of applied sciences – Kauhafa, Fl; Kostanai State University named after A. Baitursynov, Rudny Industrial Institute, KZ
Projects with the involvement of LV, LT, FI, EE universities


**Partners:** Riga Technical University, LV; Kazakh Academy of Transport and Communication named after M. Tynyshpaev, KZ

144747-TEMPUS-1-2008-1-FR-TEMPUS-JPCR “Masters Ingenieurs Economistes de l’Energie et du Development Durable

**Partners:** Savonia University of applied Sciences, FI; Kazakh National Technical University named after K. Satpayev, Almaty Institute of Energy and Communication, Kazakh Economical University named after T. Ryskulov, KZ

145171-2008-ES-TEMPUS-SMHES “Plan to Establish Research-Science_Enterprise oriented Universities for the benefit of Society”

**Partners:** Lapin Yliopisto /University of Laplands, Fl; Vilnius University, LT; Kazakh National University named after Al-Farabi, Almaty Technological University, Karaganda Economical University Kazpotrebsoyuz, West-Kazakhstan State University named after M. Utemisov, South-Kazakhstan State University named after M. Auezov, KZ
Projects with the involvement of LV, LT, FI, EE universities

159025-TEMPUS-1-2009-1-FR-TEMPUS-JPCR “Network Europe – Russia – Asia of Masters in Informatics as a Second competence” (ERAMIS)

Partners: Savonia University of applied Sciences, FI; Kazakh National University named after Al-Farabi, Innovative University of Eurasia, Karaganda State Technical University, KZ

511347-TEMPUS-1-2010-1-DE-TEMPUS-JPCR “Establishment of Blended Learning based study program Energy Management in Kazakhstan and Turkmenistan”

Partners: Technological University Kaunas, LT; Kazakh Agro Technical University named after S. Seifullin, Kostanay Engineering Economic University named after M. Dulatov, KZ
Projects with the involvement of LV, LT, FI, EE universities

516802-TEMPUS-1-2011-1-KZ-TEMPUS-SMGR STUDents self-governance & Democratic Involvement in Kazakhstan -STUDIK

Partners: Lithuanian University of Agriculture, Students’ Representation of Lithuanian University of Agriculture, LT; Information Systems Management Institute, Students Self Government of ISMA, LV; Eurasian National University named after L.N. Gumilyov, Kazakh University of International Relations and World Languages named after Ablai Khan, Taraz Innovative Humanitarian University, West-Kazakhstan Agrotechnical University named after Zhangir Khan, Kostanay State University named after A. Baitursynov, Caspian State University of Technologies and Engineering named after Sh. Yessenov, Kyzyl-Orda State University named after Korkyt Ata, East-Kazakhstan State Technical University named after D. Serikbayev, Kazakh Financial-Economic Academy, Arkalyk State Pedagogical Institute named after Altynsarin, South-Kazakhstan State University named after Auezov, KZ
Projects with the involvement of LV, LT, FI, EE universities

517170-TEMPUS-1-2011-1-DE-TEMPUS-JPCR Development and implementation of the Master Programme - “Eco-Engineering – environmental processing and sustainable use of renewable resources and bio-waste”

Partners: Riga Technical University, LV; Tallin University of Technology, EE; Karaganda State Technical University, Kostanai State University named after A. Baitursynov, Rudnyi Industrial Institute, KZ

517313-TEMPUS-1-2011-1-IT-TEMPUS-JPCR Environment protection through development and application of sustainable Agriculture Technologies

Partners: Eesti Maaülikool, EE; Innovative University of Eurasia, Kokshetau State University named after S. Ualikhanov, Kazakh Agro Technical University named after S. Seifullin, KZ

517361-TEMPUS-1-2011-1-IT-TEMPUS-JPHES “Technical Education on Resource Saving for Industrial Development (TERSID)”

Partners: JSC “Transportas un Sakaru Institūts”, LV; Kazakh National Technical University named after K. Satpayev, Karaganda State Technical University, KZ
Projects with the involvement of LV, LT, FI, EE universities

517504-TEMPUS-1-2011-1-ES-TEMPUS-JPCR Modernization and development of curricula on pedagogy and educational management in the Central Asian countries

**Partners:** Vilnius Pedagogical University, LT; Kazakh National Pedagogical University named after Abai, Kyzylorda State University named after Korkyt Ata, Semey State Pedagogical Institute, Karaganda State University named after E.A.Buketov, KZ

530154-TEMPUS-1-2012-11T-JPGR

Student Support and Development Services

**Partners:** Tallina Ulikool, EE; Kazakh National Agrarian University, West Kazakhstan Agrarian Technical University named after Zhangir Khan, Kostanay State University named after A. Baitursynov, KZ

530634-TEMPUS-1-2012-1-KG-TEMPUS-JPHES

Central Asian Network for Education, Research and Innovation in Environmental Health

**Partners:** University of Tartu, EE; Kazakh National Medical University named after S.D. Asfendiyarov, Karaganda State Medical University, KZ
Projects with the involvement of LV,LT,FI,EE universities (ongoing)

530793-TEMPUS-1-2012-1-SE-TEMPUS-JPCR
Master programmes on Renewable Energy and Energy Efficiency in Buildings in Central Asia and Russia

Partners: Tallinn University of Technology, EE; South-Kazakhstan State University named after M.Auezov; Almaty University of Power Engineering and Telecommunication, Kazakh Leading Academy of Architecture and Civil Engineering, KZ

543720-TEMPUS-1-2013-1-DE-TEMPUS-JPCR
Strengthening education in space-based remote sensing for monitoring of eco systems in Israel, Azerbaijan, Kazakhstan

Partners: Tallinn University of Technology, EE; Kazakh National University named after Al-Farabi, Eurasian National University named after L.N. Gumilev, Kyzylorda State University named after Korkyt Ata, KZ

543746-TEMPUS-1-2013-1-ES-TEMPUS-JPHES
«InnoLabs in Central Asia for a sustainable catalyzation of innovation in the Knowledge Triangle» (INOCAST)

Partners: Riga Technical University, LV; Eurasian National University named after L.N. Gumilyov, KIMEP University, Kazakh Academy of Transport and Communications named after M.Tynyshpayev, East Kazakhstan State University named after S.Amanzholov, KZ
Projects with the involvement of LT, LV, FI, EE universities (ongoing)

544319-TEMPUS-1-2013-1-FR-TEMPUS-JPCR
Professional network of Master’s degree in informatics as a Second competence

Partners: Ilmi Solutions Oy, FI; University Savonia des Sciences Appliquees, FI; Technological University of Kaunas, LT; Kazakh National University named after Al-Farabi, Eurasian National University named after L.N. Gumilev (substituting Kazakh-Russian University), KZ

544601-TEMPUS-1-2013-1-DE-TEMPUS-SMGR
«Introduction of a quality management in E-learning system at higher educational institutions of Central Asia»

Partners: Technical University of Kaunas, LT; Kazakh Agro Technical University named after S.Seifullin, Kostanay Engineering Economic University named after M. Dulatov, Kokshetau Humanitarian-Technical Academy, KZ
<table>
<thead>
<tr>
<th>Stages</th>
<th>Year</th>
<th>Total involvement of FI, LT, LV, EE universities as Partners</th>
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<tr>
<td>Tempus III</td>
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<tr>
<td>Total Tempus II - IV</td>
<td>2005-2013</td>
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</table>
Partners in UK involved in projects with KZ universities

- Tallinn University of Technology, EE (3);
- Riga Technical University, LV (3);
- Tallinn Ulikool, EE;
- University of Tartu, EE;
- Eesti Maaülikool, EE;
- Central Ostrobothnia Politechnic – Kokkola, FI;
- Seinaejoki university of applied sciences – Kauhafa, FI;
- Lapin Yliopisto /University of Laplands, FI;
- Savonia University of applied Sciences, FI (3);
- Information Systems Management Institute, LV;
- JSC “Transporta un Sakaru Institūts”, LV;
- Vilnius University, LT;
- Technological University Kaunas, LT (3);
- Lithuanian University of Agriculture, LT
- Students’ Representation of Lithuanian University of Agriculture, LT;
- Vilnius Pedagogical University, LT;
## National priorities

<table>
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<tr>
<th>Subject areas</th>
<th>Kazakhstan</th>
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<tbody>
<tr>
<td>Teacher training and education science; Humanities; Life sciences; Physical sciences; Mathematics and statistics; Engineering and engineering trades; Manufacturing and processing Veterinary; Health; Transport services</td>
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<tr>
<th>Kazakhstan</th>
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<tbody>
<tr>
<td>Teacher training and education science; Humanities; Life sciences; Physical sciences; Mathematics and statistics; Engineering and engineering trades; Manufacturing and processing Veterinary; Health; Transport services</td>
</tr>
</tbody>
</table>

### Modernisation of curriculum by developing new and innovative courses and methodologies

- **CATEGORY A**
  - **Curriculum Development**
  - Improving quality of education and teaching

### Modernisation of governance, management and functioning of higher education

- **CATEGORY B**
  - **Improving management and operation of higher education institutions**

### Strengthening of relations between higher education and the wider economic and social environment

- **CATEGORY C**
  - **Developing the Higher Education sector within society at large**

### Subject areas

- **Bologna process (cycle system, credit transfer, Diploma supplement)**
- **Learning and teaching tools, methodologies and pedagogical approaches including learning outcomes and ICT-based practices (inter alia, flexible learning paths, blended courses, virtual and real mobility, practical placements, etc.)**
- **Multidisciplinarity / Interdisciplinarity**
- **Governance, strategic planning and management of higher education institutions (including human resource and financial management)**
- **University services such as support services, academic affairs, libraries, etc.**
- **Internationalisation of higher education institutions (including recognition mechanisms and mobility, international relations, etc.)**
- **Quality assurance processes and mechanisms (including the provision of higher education to the disadvantaged groups of people and regions)**
- **Development of research and innovative capacities (excluding research activities)**
- **Access to and democratization of higher education (including the disadvantaged groups of people and regions)**
- **Lifelong learning, continuing education**
- **Non-university sector at tertiary education level**
- **University-enterprise cooperation, entrepreneurship and employability of graduates**
- **Qualification frameworks and recognition of qualifications**
- **Knowledge triangle, innovation (linking education, research and business)**
- **New technologies in higher education**
- **Development of the Higher Education sector at regional level (in regions of a given country)**
- **International cooperation at regional level (among countries from the same region) or cross-regional level (among countries from different regions)**
- **Definition, implementation and monitoring of the reform policies**
### Regional priorities

<table>
<thead>
<tr>
<th>Modernisation of curriculum by developing new and innovative courses and methodologies</th>
<th>Modernisation of governance, management and functioning of higher education</th>
<th>Strengthening of relations between higher education and the wider economic and social environment</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CATEGORY A</strong> &lt;br&gt;Curriculum Development</td>
<td><strong>CATEGORY B</strong>&lt;br&gt;Improving quality of education and teaching</td>
<td><strong>CATEGORY C</strong>&lt;br&gt;Improving management and operation of higher education institutions</td>
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<td>Valid ONLY for <strong>JOINT PROJECTS</strong>&lt;br&gt;and <strong>STRUCTURAL PROJECTS</strong></td>
<td>Valid for <strong>JOINT PROJECTS</strong>&lt;br&gt;and <strong>STRUCTURAL PROJECTS</strong></td>
<td>Valid for <strong>JOINT PROJECTS</strong>&lt;br&gt;and <strong>STRUCTURAL PROJECTS</strong></td>
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<td><strong>CATEGORY D</strong>&lt;br&gt;Developing the Higher Education sector within society at large</td>
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### Subject areas

- Bologna process type reforms
- Learning and teaching tools, methodologies and IT-based courses (virtual and real mobility, blended courses, etc.)
- Multidisciplinarity / Interdisciplinarity
- Governance, strategic planning and management of higher education institutions (including human resource and financial management)
- University services such as support services for student and staff mobility, including career services, social services, etc.
- Internationalisation of higher education institutions (including recognition mechanisms and mobility)
- Quality assurance processes and mechanisms
- Access to and democratisation of higher education (including the disadvantaged groups of people and regions)
- Development of research and innovative capacities (excluding research activities)
- Lifelong learning, continuing education
- Non-University sector at tertiary education level
- Development of school and vocational education at post-secondary non-tertiary education level (including in-service training for teachers and reforms to the teaching profession)
- University-enterprise cooperation, entrepreneurship and employability of graduates
- Qualification frameworks and recognition of qualifications
- Knowledge triangle, innovation (reinforcing links between education, research and business)
- New technologies in higher education
- Development of the higher education sector at regional level (within a country or region)
- International cooperation at regional level (among countries from different regions)
- Definition, implementation and monitoring of the reform policies

### REGIONS

<table>
<thead>
<tr>
<th>REGION 7</th>
<th>Central Asia</th>
<th>Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teacher training and education science</td>
<td>Social and behavioural sciences</td>
<td>Business administration</td>
</tr>
<tr>
<td>Law</td>
<td>Physical sciences</td>
<td>Agriculture, forestry and fishery</td>
</tr>
<tr>
<td>Health</td>
<td>Environmental protection</td>
<td>Security services</td>
</tr>
</tbody>
</table>

| X | X | X | X | X | X | X | X | X |
Strengths

- High motivation and commitment
- Readiness to be applicant organisation
- Simple visa procedure
- Variety of communication means
- Policy support from HEIs management
- Autonomy in establishing international relations
- Good connections with CA partners
Challenges

- Insufficient level of English in regional HEIs
- Geographical distribution & territory
- Difficulties with VAT & customs clearance
- Around 32% of HEIs involved in Tempus projects
Our contacts

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 www.erasmusplus.kz

Thank you for your attention.