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CLOUD COMPUTING – EFFICIENT INSTRUMENT TO ENHANCE CROSS-BORDER INNOVATION NETWORK

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Project

“Promotion of socioeconomic development and encouragement of entrepreneurship by developing Cross-border R&D and Innovation Network in Cloud Computing Area”

LT-BY Cloud



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The action aims to enhance IT Research & Development (R&D)/innovation cross-border networks, resulting to cross-border CC cluster initiative:

1. better linkage to enterprises to promote the exchange of know-how with the special focus to the most advanced Cloud Computing
2. hardware & software delivered as a service over a network
3. cooperation activity model will be developed & practically applied to IT infrastructure, uniting 2 countries through the latest grid & CC technologies



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CC opportunity for public sector

1. Public sector remains owner of State information systems
2. CC is a business plan for maintenance of State information systems
3. IT specialists in public sector becomes IT managers
4. No competition between public and private sectors in IT
5. Territory and technologies restrictions
6. Synergy between public and private sectors
7. Necessity for a new legislation (risk management)



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The action aims to address the following cross border problems:

1. lack of CC related R&D results introduced into businesses;
2. weak cross-border links between enterprises and R&D institutions for the development of new products/services;
3. lack of CC professionals (esp. programmers).



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Partners of the Project:

1. Vilnius University (Beneficiary)
2. Lithuanian Innovation and Technology Institute
3. Yanka Kupala State University of Grodno
4. Scientific Technological Association INFOPARK

Project budget: 1 112 682 EUR (totally), 90% financing from EU



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1. VU specializes in IT infrastructure developing and is responsible for the related activities (it will develop and prepare all infrastructure necessary for implementing practical project activities)
2. YKSUG is responsible for preparation of training and dissemination of programming knowledge as it has a competitive advantage in the area
3. INFOPARK and LITI are involved in Project activities as disposing information and networks necessary for cooperation with business enterprises



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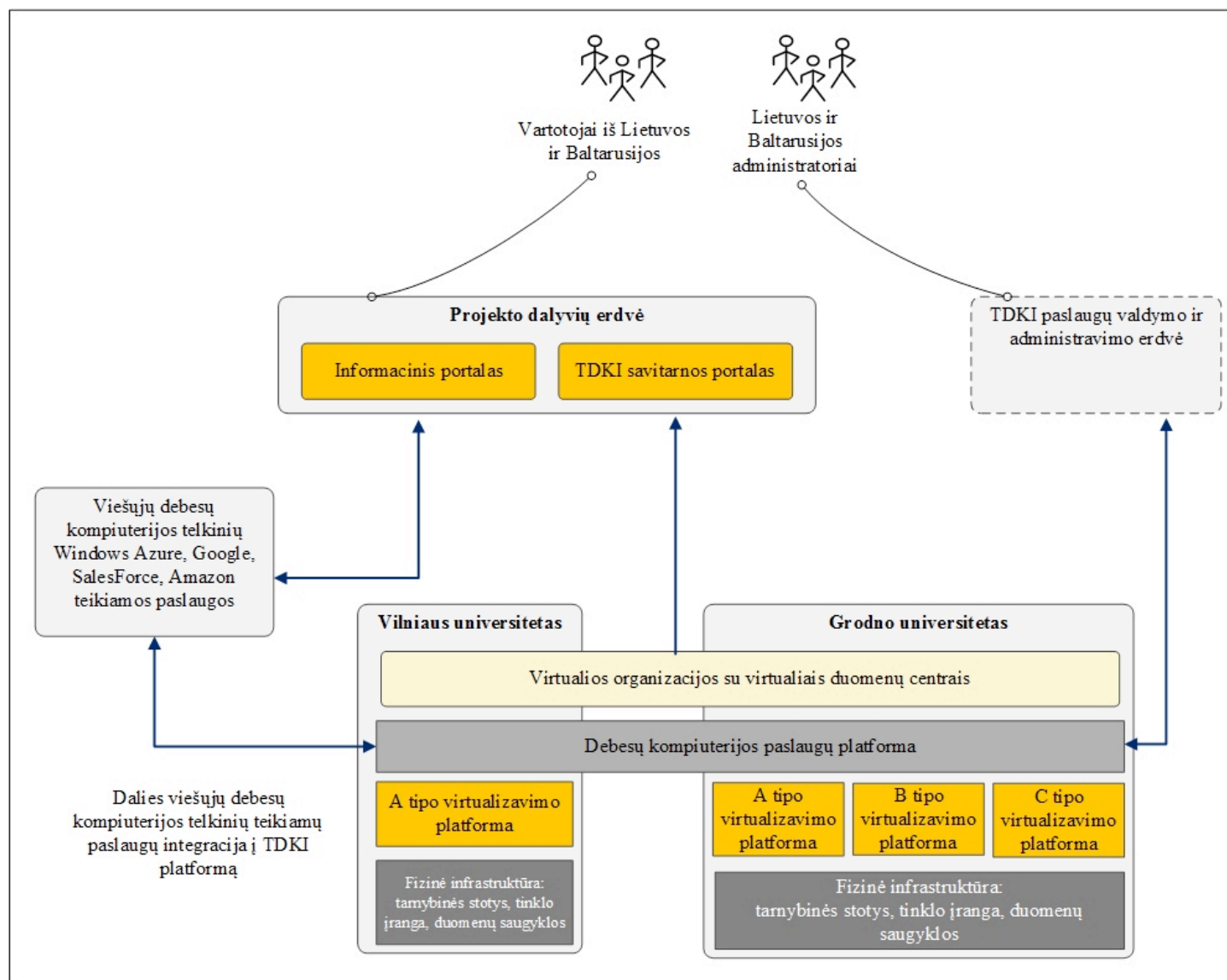


What is Cloud Computing?

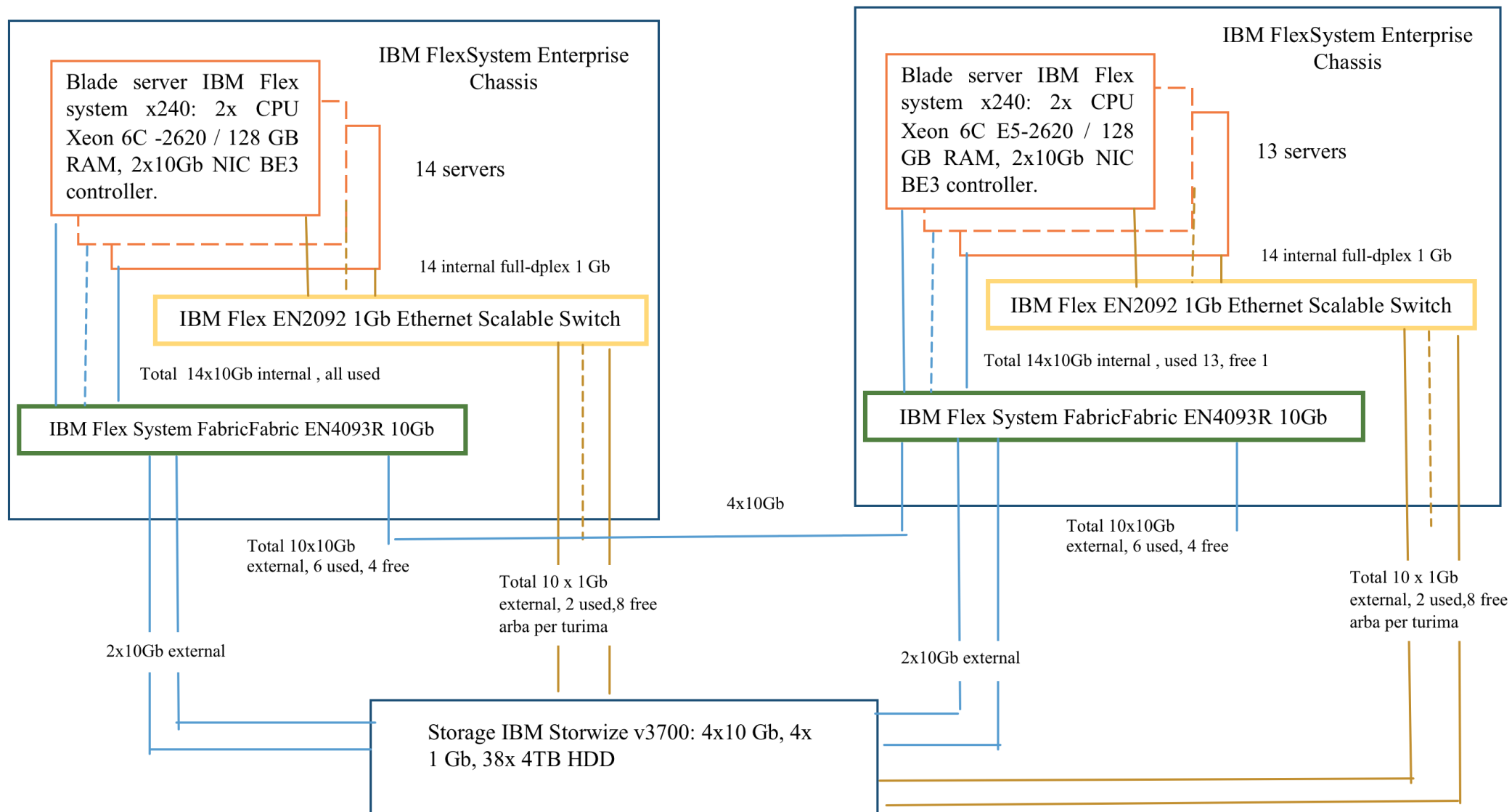
Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.

National Institute of Standards and Technology

Cloud Computing Platform for VU and YKSUG



Cloud Computing Platform for VU and YKSUG

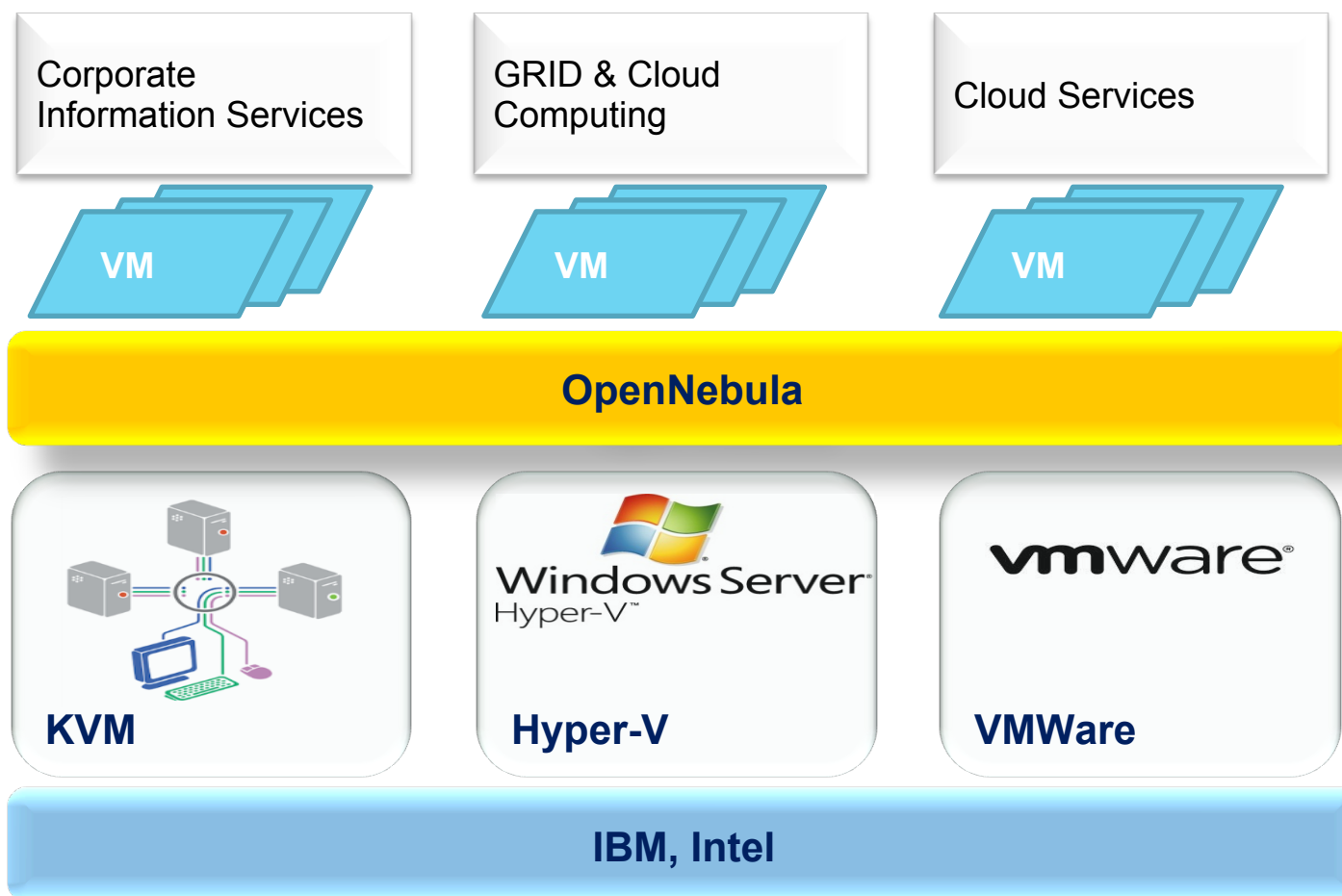




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LT-BY CLOUD Functional Structure

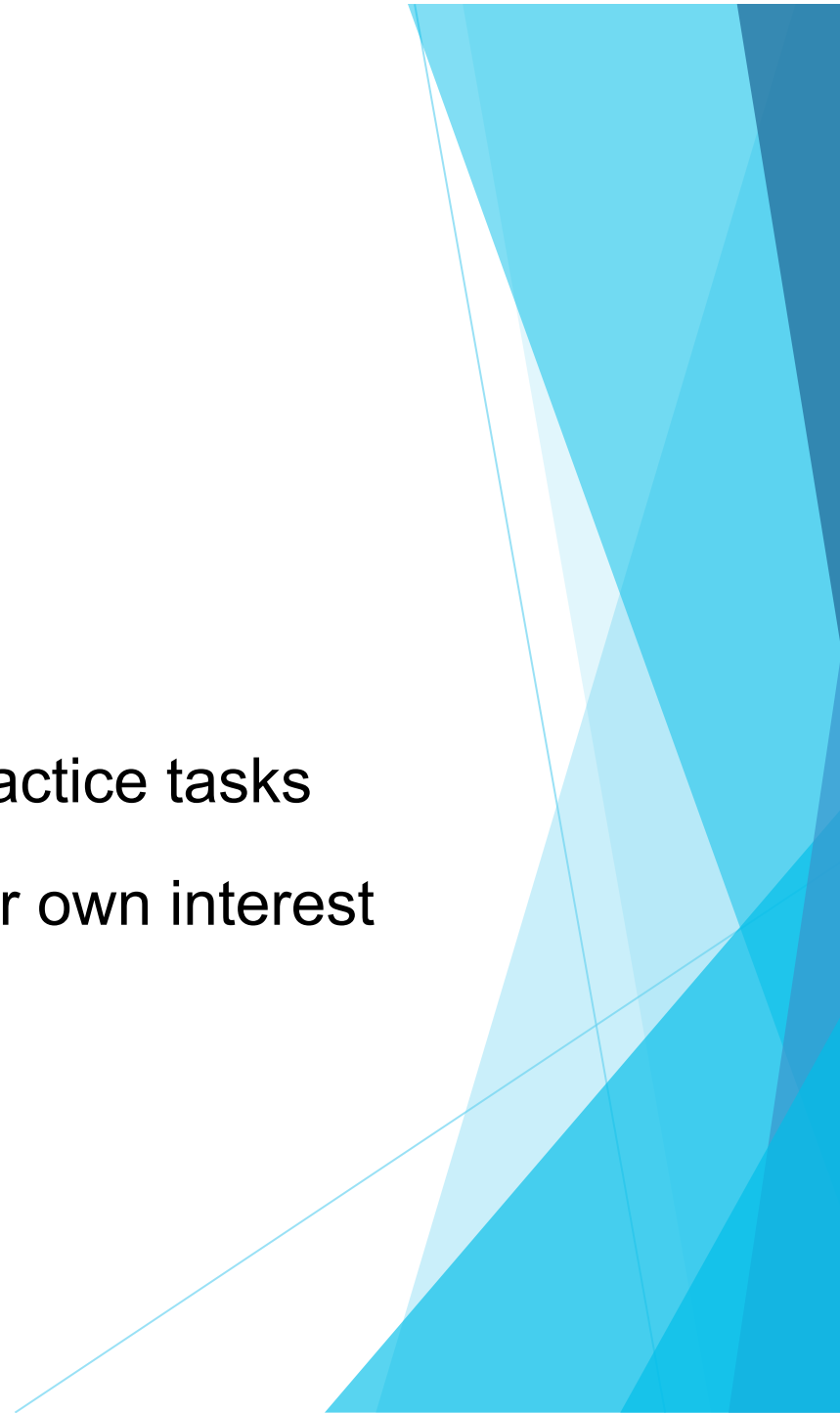


Training topics

1. Definition, Cloud computing as business model
 2. Management (Risk, Security, Cost estimation)
 3. Transition to Cloud computing
 4. SalesForce, Microsoft Windows Azure, Amazon AWS,
Comparison of SalesForce, Windows Azure, Amazon AWS
 5. Private cloud (OpenNebula, Big Data)
 6. Hybrid cloud, Integrating OpenNebula with AWS/Azure/
SalesForce and with VU platform
 7. Analysis of practical usage
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Remote courses

1. 200 participants from Lithuania and Belarus
2. Provided self-study material
3. Assigned tasks by lecturers
4. International groups of participants during practice tasks
5. Each participant may chose task type by their own interest



Objectives and goals of the LLB-2-142 business action:

1. Cross-border cooperation in CC infrastructure development
2. CC competence center
3. Trainings on CC issues
4. Business collaboration on CC
5. Business events and networking on CC issues

Target audiences:

1. Representatives of companies developers and users of cloud technologies, services, applications.
2. Teachers specialized in CC development, knowledge about the technology and relation between business solutions and cloud infrastructure.
3. IT professionals from Lithuania and Belarus, specialized in the development of cloud technologies

Cross-border cooperation in CC infrastructure development

1. Developing innovative model of cooperation (cross-border CC cluster with high availability virtual competence center) with practical application in the IT infrastructure
2. Agreement between Vilnius University and Yanka Kupala State University of Grodno on the use of CC-infrastructure



Cloud computing competence center

will strengthening the technical capacity of scientific institutions, increasing the knowledge and skills of teachers, improving the training of programmers, accumulating expertise and information on the development and application of cloud computing.

CC Competence center will provide:

1. Trainings on CC;
2. CC test environments provided by leading vendors;
3. Expertise in the area of CC;
4. CC experts.

Business collaboration on Cloud computing

1. Formation of cross-border CC cluster, aimed at increasing the competitiveness of the region and improve the infrastructure of CC regional academic institutions.
2. Set up CC cluster initiative
3. Develop a portfolio of R&D projects that will serve as a basis for future works and human development applying established cloud infrastructure
4. Business events on Cloud computing issues



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αυτὸ το πρόγραμμα ἔχει
ἡμεῖς ἀποδοκιμασθεῖς



LT-BY CC CLUSTER GOALS

1. Joint R&D
2. Promoting innovation
3. Joint marketing
4. Developing new markets
5. Joint procurement
6. Providing services
7. Training
8. Lobbying



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Thank you,
Algimantas Juozapavicius

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