



FACULTY OF
COMPUTER SCIENCE



ALEXANDRU IOAN CUZA
UNIVERSITY OF IAȘI



UNIUNEA EUROPEANĂ



GUVERNUL ROMÂNIEI

ANCSI



Instrumente Structurale
2007-2013

Autoritatea Națională pentru Cercetare Științifică și Inovare
Program Operațional Competitivitate Axa 1
Program cofinanțat din Fondul European de Dezvoltare Regională
"Investiții pentru viitorul dumneavoastră"

PrivateSky

**TITLUL PROIECTULUI: DEZVOLTARE EXPERIMENTALĂ ÎN PARTENERIAT PUBLIC PRIVAT PENTRU
CREAREA DE PLATFORME CLOUD AUTOHTONE CU CARACTERISTICI AVANSATE DE PROTECȚIE A
DATELOR**

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Keywords:
Integration,
Interoperability
Privacy

INFORMAȚII PRIVIND PROIECTUL

Programul Operațional	POC
Axa Prioritară	AP1: CDI în sprijinul competitivității economice și dezvoltării afacerilor
Acțiunea	1.2.3
Tipul proiectului	Parteneriate pentru transfer de cunoștințe
Domeniul și subdomeniul în care se încadrează proiectul	2.1.2 Internetul viitorului 2.1.3. Tehnologii, instrumente și metode pentru dezvoltarea de software

Research [2012-2016]

[1] Sinica Alboiaie, Lenuta Alboiaie, Andrei Panu , Levels of Privacy for e-Health systems in the cloud era, 24th International Conference on Information Systems Development Harbin, China, August 25-27, 2015

[2] Sinica Alboiaie, Lucian Nita, Stefanescu, Executable Choreographies for Medical Systems Integration and Data Leaks Prevention, The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015, Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania, November 19-21, 2015

[3] Lenuta Alboiaie, Sinica Alboiaie, Tudor Barbu, Extending swarm communication to unify choreography and long-lived processes, 23rd International Conference on Information Systems Development, ISD2014 Croatia

[4] Lenuta Alboiaie, Sinica Alboiaie, Panu Andrei, Swarm Communication - a Messaging Pattern proposal for Dynamic Scalability in Cloud, 15th IEEE International Conference on High Performance Computing and Communications (HPCC 2013), Zhangjiajie, China, November 2013

Research [2012-2016]

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[2] Sinica Alboiaie, Lucian Nita, Stefanescu, Executable Choreographies for Medical Systems Integration and Data Leaks Prevention, The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015, Grigore T. Popa University of Medicine and Pharmacy, Iași, Romania, November 19-21, 2015

[3] Lenuta Alboiaie, Sinica Alboiaie, Tudor Barbu, Extending swarm communication to unify choreography and long-lived processes, 23rd International Conference on Information Systems Development, ISD2014 Croatia

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Research Directions

Integration and interoperability

We live in a world of data silosis with potential leaking APIs in front of them

We have web services but how they should be used is wild west..

Privacy policies

EU concepts of Privacy By Design and Privacy by Default

Enforce laws and principles in code = SERIOUS ISSUE!

Example

Workflows or executable business processes between multiple organisations?



PrivateSky Platform Usages

A part of PrivateSky, called Swarm ESB, was used in **Industry Projects** as an Enterprise Service Bus (e.g. The Redpoint S.A. - Document Management Project, S.C. Axiologic SaaS - The BuzzCenter)

Research projects:

SwarmESB was used in USMED (Operational Sectoral Program for Increased Economic Competitiveness)

SwarmESB is used in a research European Project Operando – H2020 (<http://www.operando.eu/>)

PrivateSky Platform| Potentials Applications

Create applications that are difficult to build with current technologies

Document flows between organisations decreases both paper use and bureaucracy

Real time data analysis for smart-city, smart society using anonymised data

Personal Assistant that works for you and not spying on you

PrivateSky Platform| Potentials Applications

Create alternative solutions to integrate existing systems in respect to the **privacy properties**

Safer social networks

Email services

Document management applications

Platforms to eliminate the middleman in two sided markets

Better search engines (informations, jobs, persons) without spying on the users

Collaboration Context

A. Activities to stimulate knowledge transfer

C. Transfer activities: skills / competencies of Research & Development

Support innovation activities

D. Industrial research and / or experimental development performed in conjunction with an enterprise

Collaboration Context

C

Minimul de co-finanțare ce trebuie asigurat de întreprindere ca procent din costurile eligibile ale organizației de cercetare				
<i>Activitate eligibilă (prestată de organizația de cercetare)</i>		<i>Mare</i>	<i>Mijlocie</i>	<i>Mică</i>
B.1	Acces la infrastructură/ laboratoare/ echipamente	neeligibile	50%	50%
B.2	Accesare bănci de date și biblioteci			
B.3	Închiriere spații de lucru			
C.1	Cercetare industrială	50%	40%	30%
	Dezvoltare experimentală	75%	65%	55%
C.2	Detașare de personal cu înaltă calificare	neeligibile	50%	50%
C.3	Cercetări de piață			
C.4	Servicii de etichetare de calitate, testarea și certificarea calității			

Collaboration Context

D

Cotele maxime de finanțare publică nerambursabilă ca procent din costurile eligibile		
<i>Partener în colaborare</i>	<i>Cercetare industrială</i>	<i>Dezvoltare experimentală</i>
Întreprindere mare	65%	40%
Întreprindere mijlocie	75%	50%
Întreprindere mică	80%	60%

Multumesc!