







MANAGE	MENT BODY
DEPUTY DIRECTOR: ASSO DEPUTY DIRECTOR: ASSO	C. PROF. GENNADY AGRE
DEPA	RTMENTS
Computer Networks and Architectures Head: Assoc. Prof. Hristo Turiakov	Parallel Algorithms Head: Professor D.Sc. Ivan Dimov
Scientific Computations Head: Professor D.Sc. Svetozar Margenov	Mathematical Methods for Sensor Data Processing Head: Assoc. Prof. Kiril Alexiey
Linguistic Modelling Head: Professor D.Sc. Galia Angelova	Information Technologies for Security Head: Assoc. Prof. Todor Tagarey
Grid Technologies and Applications Head: Assoc. Prof. Emanouil Atanassov	Technologies for Knowledge Management and Processing Head: Assoc. Prof. Gennady Agre
Modelling and Optimization Head: Assoc. Prof. Vladimir Monoy	Signal Processing and Pattern Recognition Head: Assoc. Prof. Dimo Dimov
Information Processes and Decision Support Systems Head: Assoc. Prof. Ivan Mustakeroy	Intelligent Systems Head: Assoc. Prof. Lyubka Doukovska
Embedded Intelligent Technologies Head: Assoc. Prof. Dimitar Karastoyanov	<u>Communication Systems and Services</u> Head: <u>Assoc. Prof. Rumen Andreev</u>
Hierarchical Systems Head: Professor D.Sc. Todor Stollov	
ADMINISTRATI	VE AND SPECIALIZED UNITS
Inspection Body Coordination, Information and Publishing Service and Support	Financial & Accounting Unit Human Resources

пст	The AComIn Project	ct
Advanced Computing for Environmentary Advanced Computing for Environmentary Operations Mark packages Mark p	AComIn: Advanced Computing for Innovation Funding: FP7 Capacity Programme, Research Potential of Convergence Regions Call: FP7-REGPOT-2012-2013-1 Duration: 42 months (actually 36, only Evaluation by external experts will run in months 37-42) Grant Agreement: 316087 Starting Date: 1 October 2012 Host organisation: Institute of Information and Communication Technologies (IICT) Bulgarian Academy of Sciences (BAS) Coordinator: Prof. Galia Angelova. Dr.Sc.	
Queed positions	Partners:	
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ІІСТ	http://iict.bas.bg/acomin/ SmartLab .htm
	AComIn: the equipment to be purchased
	The existing IICT Grid infrastructure includes 3 computer clusters in the European Grid Initiative infrastructure with a total of 916 CPU cores and about 110 TB SAN disk storage and 10 TB tape. The newest cluster, deployed in 2010, is a High Performance Cluster with 576 logical cores (2.8 GHz, Xeon 5560, 36 blades, 24 GB RAM), interconnected with non-blocking 20 Gbit/s DDR Infiniband fabrics, with 8 storage servers connected to 96 TB in two SAN disk arrays. One server with 4 GPU NVIDIA Tesla M2090 cards aids development of GPGPU-based algorithms and computer codes. Most of the funding for purchasing the HPC clusters was invested by national programmes. In addition to the HPC cluster at IICT, the IICT researchers also use the Bulgarian supercomputer IBM Blue Gene/P, located at the premises of the Ministry of Telecommunications, IT and Transport
	The following devices for 3D output and input, speech processing and studying system dynamics are planned for purchase in AComin:
	i. 3D Output / Visualisation Lab: • a smart large-scale Visual wall • a 3D printer for producing physical 3D models • a 3D Input Lab: • a device for industrial X-ray and computed tomography (CT) • a 3D scanner for interactive and real time construction of 3D surface models from real solids • an Acoustic Holography environment for noise source identification, • an Infrared Camera
	iii. System Dynamics Lab: iv. Speech Processing Lab: v. an Integrating Server Environment vi. Equipment Socialisation to enable the effective integration and maintenance of Smart Lab devices within the computational infrastructure of IICT.
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