

AComIn



AComIn: Advanced Computing for Innovation Achievements year 1

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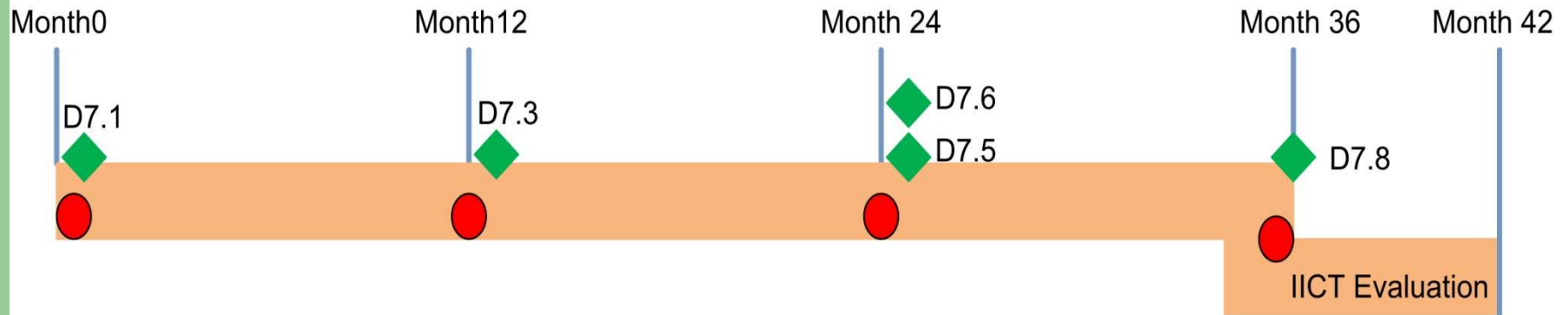


Steering Committee Meeting year 1
24 October 2013, Starosel

Steering Committee – who we are, what we do

- **Executive Board** – manages the everyday activities in all scientific, technological, networking, innovation and dissemination tasks
- **Steering Committee** - deals with the strategic project management
 - 7 heads/representatives of the partnering organisations
 - 4 IICT representatives: AComIn Coordinator, IICT Director, the Chairman of the IICT Scientific Council and the IICT Scientific Secretary
 - the Nat. rep. Research Potential 7FP– MoEYS, Mrs Pavlova
 - the Scientific Secretary of BAS in ICT
- **Stakeholder Committee** - a consultative body, consisting of external policy makers and actors in research/innovation organisation from the state and local administration, industry and universities

Timetable of meetings and StCom deliverables



- Meetings in months 1, 13, 24 and 36, usually combined with scientific tasks and Doors Open Days. In month 36 joint meeting with the 4 EC-selected independent evaluators
- ◆ Approval of D7.1 Detailed Implementation Plan for AComIn, Month 2
- ◆ D7.3 Steering Committee Conclusions regarding AComIn achievements year 1, month 12
- ◆ D7.5 Steering Committee Conclusions regarding AComIn achievements year 2, month 24
- ◆ D7.6 Sustainability Strategy, month 24
- ◆ D7.8 Steering Committee Conclusions regarding AComIn achievements year 3, month 36
Part of the input for the Institute evaluation as a whole

*External Opinions,
Recommendations*

REGPOT-1 Calls in Capacity / FP7

- Objective: Strengthening research capacity, incl. human potential, via strategic investments in Centers of Excellence that will progress in a sustainable manner
- AComIn topics (where ICT has proven expertise):
 - **Advanced Computing** (supercomputing, HPC, parallel computations, scientific computations, Grid ...)
 - **Language and semantic technologies**
 - **Image and signal processing**
 - **Optimisation and intelligent control**
- 6 International partners, 1 National partner

Major Budgets of the EC Contribution:

- WP1: Employment (with corresponding rates) of
 - Incoming post-docs, long-term employments at 7 positions for 3 years (21 man-years)
 - Incoming experienced researchers (short-term employments, 34 man-months)
- WP2: Purchasing modern equipment, building User Communities
- WP3: Intensive networking with leading EU partners, esp. for the experienced IICT staff
- WP4: Development of Innovation capacity at IICT
- WP5: Dissemination
- WP6: Evaluation by external reviewers (months 37-42)

WP1: Long Term recruitment (and repatriation)

- In the areas of “Advanced Computing” and “Language and Semantic Technologies”:
 - **Stanislav Stoykov** (since Mid-October 2012),
 - **Irina Temnikova** (Mid-October 2012 – May 2013),
 - **Jean Michel Sellier** (since 19 November 2012),
 - **Ivan Georgiev** (since September 2013),
 - **Clemens Hofreither** (August-December 2013)
- A principally approved candidate:
 - **Ayyoob Jafari** (Bio engineer, Iran) – candidate for working with the Speech Lab // for shorter periods
- **Lessons learnt**

WP1: Short Employments of Experienced Researchers

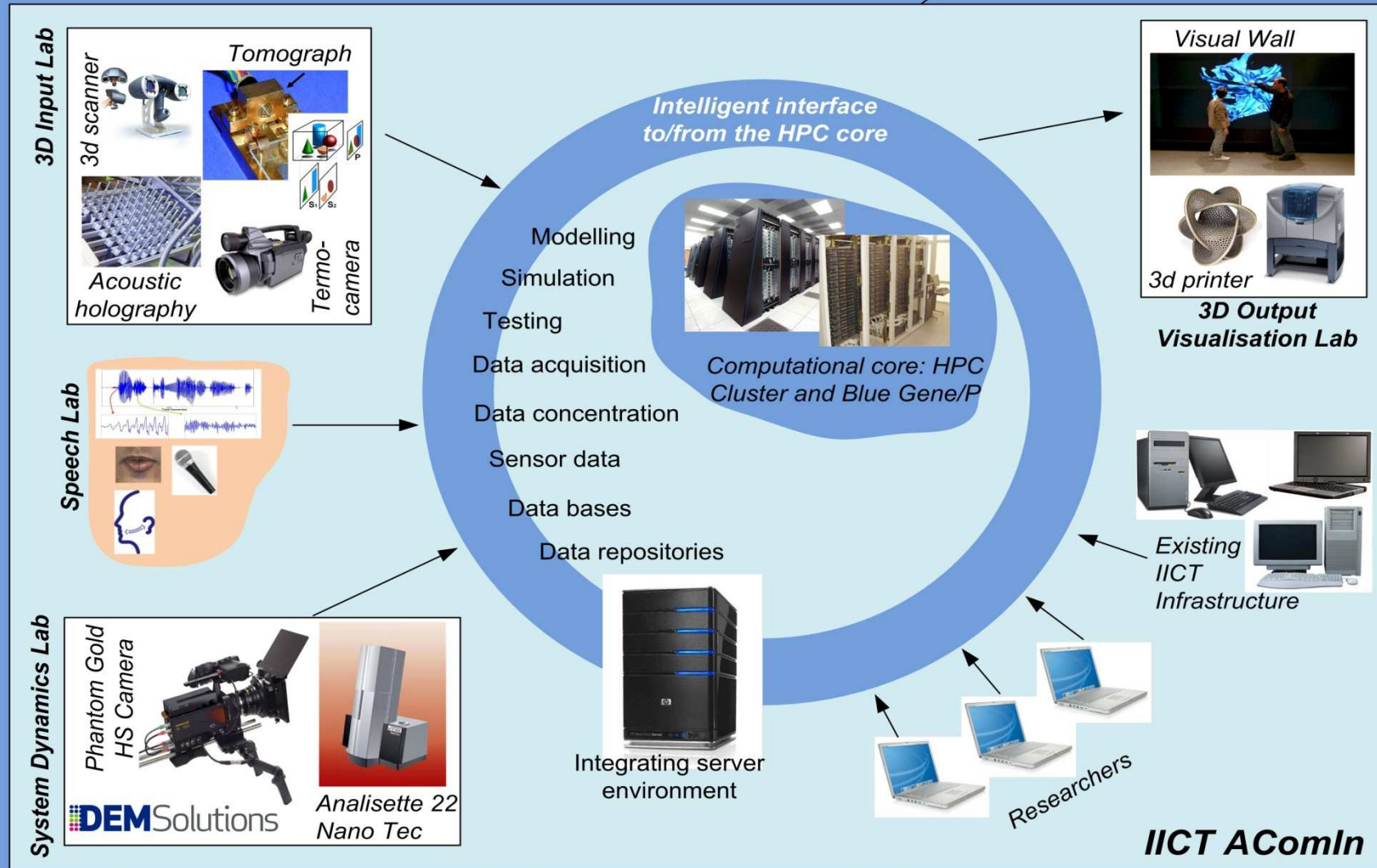
- Prof. Raytcho Lazarov (USA) April-May 2013
- Prof. Darina Nicheva (USA) June 2013
- Prof. Hristo Dichev (USA) June 2013
- Prof. Milena Dobрева (Malta) July 2013
- Dr Petar Goulev (UK) – User Community, TT seminar on “3D Technologies in Textile Industry and Fashion” August-September 2013
- Prof. Johannes Kraus (Austria) – currently in Bulgaria

WP2: Equipment - Smart Lab

- Intelligent “periphery” – extending the existing infrastructure
- Ensures the IICT data autonomy (and capacity to process data about real objects in the local environment)
- Enables synergy of the IICT research, as well as a chance for the Institute to address hottest research fields
- Unique set of devices for South East Europe
- About 1/3 of the project cost – 950 000 €

Smart Lab at a glance

User Communities of industrial partners,
Society at large



Purchased at Tender 1

Delivered (or contracted):

- **3D input** (CT, scanner, holography, thermo camera)
- 3D Output (**Visual Wall**)
- **System Dynamics Lab** (fast camera, lazer particle sizer Analysette, EDEM software)

For Tender 2 remain:

- **Speech Lab** (with medical devices)
- **Integrating server** (and specific software)
- **3D Printer**

Focus to Business and Innovation

- AComIn results should be disseminated to companies in order to increase the competitiveness of the Bulgarian industry (and prepare it for Europe 2020)
- **User Communities**
- Technology transfer via seminars, hands-on experience, demonstration of best practices
- Industrial research in joint RTD tasks
- Dissemination of expertise of international partners (or invited international lecturers)

User Communities - year 1

- **Image and Signal Processing:**
 - Computer Vision applied to Medical Diagnostics, a 3-day course of Prof. Petia Radeva, University of Barcelona, with 33 participants
 - Applying Advanced 3D Technologies in the textile industry and fashion, a 4-day course of Dr. Petar Gulev, School of Fashion, London University of Arts, with 22 participants
- **Creating and Sharing digital content in eLearning and eCulture** (an emerging User Community)
- **Optimisation and Control for Energy Efficiency** (an emerging User Community)
- **Industrial Mathematics** (an emerging User Community)

WP3: Networking

- Useful exchange with the partners
 - 3 longer visits type “secondment”
 - 7 short visits (4 from/to Orebro, 1 from Glasgow, 1 from Pavia, 1 from Kaiserslautern)
- Participation in international conferences (2013 was a very difficult year ...)
 - More than 40 participations in scientific events, with accepted papers acknowledging AComIn
- Attendance in International Info-Days – e.g. Doors Open Days in JRC, Ispra
- Short visits of foreign guests

WP4: Development of Innovation Capacity

- April 2013 – lectures on IPR and IPR protection (in Bulgarian)
- Development of a draft **Innovation Strategy of IICT** (together with
 - Prof. Kostadin Kostadinov,
 - Karina Angelieva,
 - Dr Eli Gurova)



External consultant in IP issues: Dr Frank Heemskerck

- Lectures on Exploitation of Research Results, 10-12 July 2013
- Comments about the Innovation Strategy
- Suggestions:
 - To prepare model contracts for joint projects with industry, esp. when the Smart Lab equipment is used, and to include IP regulations there
 - To make a plan for involvement of the whole staff in innovation activities: e.g. internal grants, “Innovation manager” position, recognition in the internal assessment processes etc.

Registered IPR on industrial design

In June 2013 IICT registered:

- Industrial design of devices for night viewing (№7826/25.06.2013 and №7827/25.06.2013, Bulgarian Patent Office) with authors: B. Bantutova, D. Borissova, E. Bantutov, I. Mustakerov.

WP5: Dissemination

- Project site, Newsletters m.6 and m.12
- Dissemination to the academic community and industrial organisations:
 - Cycle of lectures of Prof. Raytcho Lazarov
 - 2 large conferences (LSSC-2013, RANLP-2013),
 - A Workshop “ICT for Human Health and Quality of Life”, May 2013
 - Two more Workshops (3-4 October 2013 и 8-9 October 2013)
- Dissemination to user communities: 2 TT seminars
- Dissemination to the society at large:
 - Leaflets, posters

Difficulties

- Attracting high-quality post-docs
- Implementation of secondments
- The experienced staff of IICT is involved in numerous projects – we need more people who are focused on AComIn

Major Task of the Steering Committee Year 2

To produce the Deliverable

- D7.6 **Sustainability Strategy of IICT-BAS**, m 24
- Major task of the AComIn team: to implement the project in a way ensuring maximal sustainability



Thanks for your attention

- Questions?