

Agenda

Friday, 24 October, UCLan, Larnaca, Cyprus

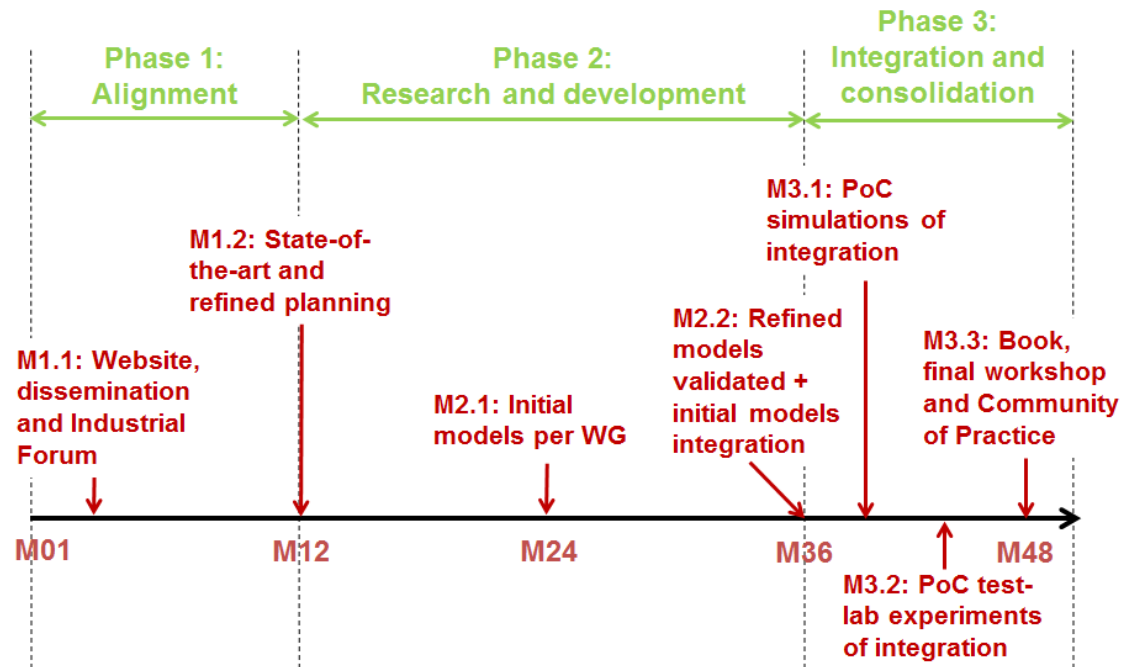
1. Approval of minutes and matters arising of last MC meeting
2. Update from the Action Chair
3. Promotion of gender balance and of Early Stage Researchers (ESR)
4. Update from the Grant Holder
5. Update from the COST Office
6. Update from DC Rapporteur
7. Annual Progress Conference (preparation and/or feedback from DC)
8. Follow-up of MoU objectives
 - a) Status of State-of-the-Art / Challenges document (Rob van der Mei)
 - b) Summer Schools (Tihana Grbac)
 - c) Short Term Scientific Missions (STSMs, Nearchos Parspallis)
 - d) Industrial Forum (Hans van den Berg)
 - e) Website (Rob van der Mei)
9. Scientific planning
 - a) Scientific strategy / Workplan Year 2
 - b) Action budget planning
 - c) Long-term planning
 - d) Dissemination planning
10. Request for new members
11. Non-COST applications to the Action
12. AOB
13. Location and date of next meeting
14. Summary of MC decisions
15. Closing

1. Minutes and matters from previous MC-meeting

- No STSM applications yet. Applications for Year 1 can be sent to STSM Coordinator (Nearchos PASPALLIS) and Action Chairs before 1 April 2014 (**Action: All**).
- The Action Chair promoted gender balance and the involvement of ESRs to the participants, and in particular encouraged them to take this into account in their proposals for the STSMs. **Action: All**.

Request for approval of minutes

2. Update from the Action Chair



Currently 30 countries involved (51 MC, 24 substitute, 2 chairs)

Promised in Y1:

- **State-of-the-art and challenges document**
- **Publication and dissemination plan**
- **Industrial Forum**
- **Website**

3. Promotion of Gender Balance and Early-Stage Researchers

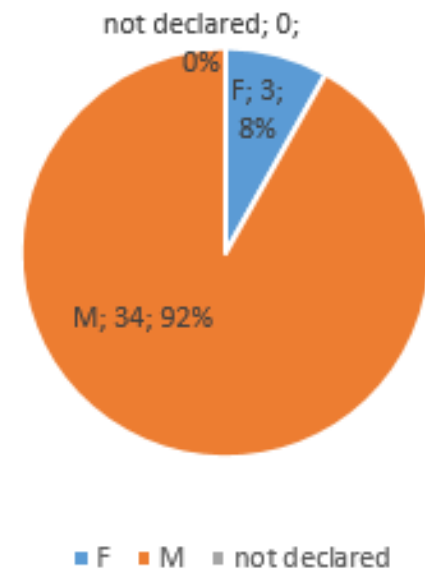
Gender balance

- Lydia Duijvesteijn (IBM) proposed a new MC member for Netherlands
- Tihana Grbac vice chair WG2, and Summer School Coordinator
- Currently 8 female MC members

Early stage researchers

- Christian Schwarz (Würzburg) as vice Chair of WG3
- Christian Schwarz leading role in organization Summer School 2015
- STSM request Erick Bastidas

6. Gender Balance



4a. Update from the Grant Holder

Team:

- Dick Broekhuis (controller CWI)
- Nada Mitrovic (secretarial support)
- Rob van der Mei (MC chair)

eCOST-system:

- team has been attending eCOST course on January 23
- meeting invitations are sent out via eCOST
- reimbursements have been done successfully via eCOST

4b. Grant Status

Manage Grant

Financial Period: IC1304-20140127

From:2014/02/01

To:2014/11/30

Instrument	Budget	Rolling workplan			
		Forecasts	Estimations	Claims	Payments
>> Meetings	EUR 97 600.00	EUR 95 180.00	EUR 79 980.00	EUR 58 838.08	EUR 47 955.15
>> Training Schools	EUR 0.00	EUR 0.00	EUR 0.00	EUR 0.00	EUR 0.00
>> Short Term Scientific Missions	EUR 15 000.00	EUR 15 000.00	EUR 5 000.00	EUR 5 000.00	EUR 2 500.00
>> Dissemination	EUR 6 000.00	EUR 0.00	EUR 0.00	EUR 0.00	EUR 0.00
>> Other Expenses Related To Scientific Activities	EUR 1 000.00	EUR 1 000.00	EUR 0.00	EUR 0.00	EUR 0.00
TOTAL EXPENDITURE	EUR 119 600.00	EUR 111 180.00	EUR 84 980.00	EUR 63 838.08	EUR 50 455.15

- **Status is OK, we are well within budget**
- **Lagging a bit behind in STSM's and dissemination**

5. Update from the COST Office

6. Update from the DC Rapporteur

7. Annual Progress meeting (by DC Rapporteur)

- Action Chair attended the APC meeting
- Poster presentation of ACROSS
- Oral presentation of ACROSS

Observations:

- Lots of activities among the 3rd and 4th year Actions
- Large numbers of STSM's
- Large numbers of Summer Schools

8. MoU Objectives: State-of-the-art Document

Process

1. initial discussions and bullit list by CoreGroup
2. feedback from MC during the SKO-meeting
3. update of bullit list
4. writing of state-of-the-art document
5. MC feedback and refinement
6. approval by MC

Timeline

1. draft state-of-the-art document: November 1
2. MC feedback and refinement: November 8
3. approval by MC: November 15

WG 1 challenges/topics

Autonomous Management and Real-Time Control

- 1. Softwarization of Networks and New Functional Splits in Networked Systems – New Control Issues**
 1. Incl. SDN, NFV, ...
 2. Main proposer: Kurt Tutschku
- 2. Scalable QoS-Aware Service Composition Using Hybrid Methods**
 1. Main proposer: Philipp Leitner
- 3. Efficient Use of Multiple Clouds**
 1. Main proposers: Wojciech Burakowski and Philipp Leitner
- 4. Energy Aware Network and Service Control**
 1. Main proposer: Fidel Liberal
- 5. New Transport Protocols in the Context of Service Compositions**
 1. Congestion control issues for TCP ‘alternatives’ like QUIC, SPUD, ...
 2. Main proposer Ake Arvidsson

WG 2 challenges/topics (1/2)

Methods and Tools for Monitoring and Service Prediction

- **How do Define 'QoS' and 'QoE', What to Measure?**
 - Main proposer: Tobias Hoßfeld
- **QoE and QoS Monitoring in Cloud Services**
 - Main proposers: Toni Maki, Petteri Mannersalo
- **QoE and Context-Aware Monitoring**
 - Main proposer: Tobias Hoßfeld
- **Inclusion of Human Factors**
 - Main proposer: Katarzyna Wac
- **End User Monitoring**
 - Main proposers: Toni Maki, Petteri Mannersalo
- **Effective Monitoring of 'Grey' (Encrypted) Traffic**
 - Main proposer: Ake Arvidsson

**Further alignment
needed among several
of these 'QoE-like'
topics!**

WG 2 challenges/topics (2/2)

Methods and Tools for Monitoring and Service Prediction

- **Timing Accuracy**
 - Main proposer: Hugh Melvin
- **Prediction of Service Composition Performance, Quality and Reliability**
 - based on distribution of service properties over the composition structure
 - Main proposer: Tihana Grbac
- **Monitoring with Software Defined Networking**
 - Main proposer: Yoram Haddad

WG 3 challenges/topics

Smart Pricing and Competition in Many-Domain Systems

- **What are the correct Digital Goods? Language, Abstraction and Modelling**
 - Main proposer: Peter key
- **Provision of smart, context-dependent, dynamic pricing, and corresponding charging and billing of composite services**
 - Main Proposers: Ivan Ganchev, Peter Key, Christian Schwartz

8. MoU Objectives

- **STSM's (Nearchos)**
- **Summer schools (Tihana)**
- **Industrial Forum (Hans)**
- **Website (Rob)**

ACROSS Website

Link: <http://www.cost-across.nl/>

Website structure (partly under construction)

- Participants
- Working Groups
- MC meetings (incl. meeting minutes)
- Events (workshops, summer schools)
- STSMs
- Liaisons
- Results (TD's, joint activities, etc.)
- Contact

Administrative support:

Susanne van Dam (CWI), E-mail: susanne@cwi.nl

Industrial Forum

Proposed by Udo Krieger

- SAP, Germany: Dr. Wolfgang Faisst (SAP, Walldorf, Germany)

Proposed by Wojtek Burakowski

- PowerFolder, Germany (SME Cloud Provider): Christian Sprajc
- Intracom, Greece : Spiros Spirou
- Telefonica, Spain: Francisco Javier Ramon Salguero

Proposed by Hugh Melvin

- Intel: Noel Murphy, Kevin Staunton

9. Scientific Strategy Y1

1. Get to know each other
2. Identify research directions to be pursued
 - Preparatory meeting
3. Complete overview of major problems and capabilities
4. Refinement and identification of set of test problems

WG1-3 meeting,
Amsterdam, Feb 2014

CoreGroup meeting,
Amsterdam, May 2014

Scientific kickoff
meeting, Karlskrona,
September 2014

WG1-3 meeting, TBD,
November 2014

Deliverable: document with overview state-of-the-art, and scientific plans (end of Y1)

So how about Y2...?

Tasks

1. **Softwarization of networks (Kurt, Javier)**
2. **Cross-layer QoE management (Peter)**
3. **QoS-aware service composition (Rob)**
4. **Cloud federation (Wojtek)**
5. **Energy/cost-aware management control (Javier)**
6. **New transport protocols (Ake)**
7. **Quality/cost management (Stoyan)**
8. **QoS/QoE modelling (Tobias, Thomas)**
9. **QoE and QoS Monitoring in Cloud Services (Petteri, Philipp)**
10. **Inclusion of Human Factors (Kate, Stavros)**
11. **End User Monitoring (Petteri, Toni)**
12. **Effective Monitoring of 'Grey' (Encrypted) Traffic (Ake)**
13. **Prediction of and modelling of Service Composition Performance, Quality and Reliability (Tihana)**
14. **Provision of smart, context-dependent, dynamic pricing, and corresponding charging and billing of composite services (Peter)**

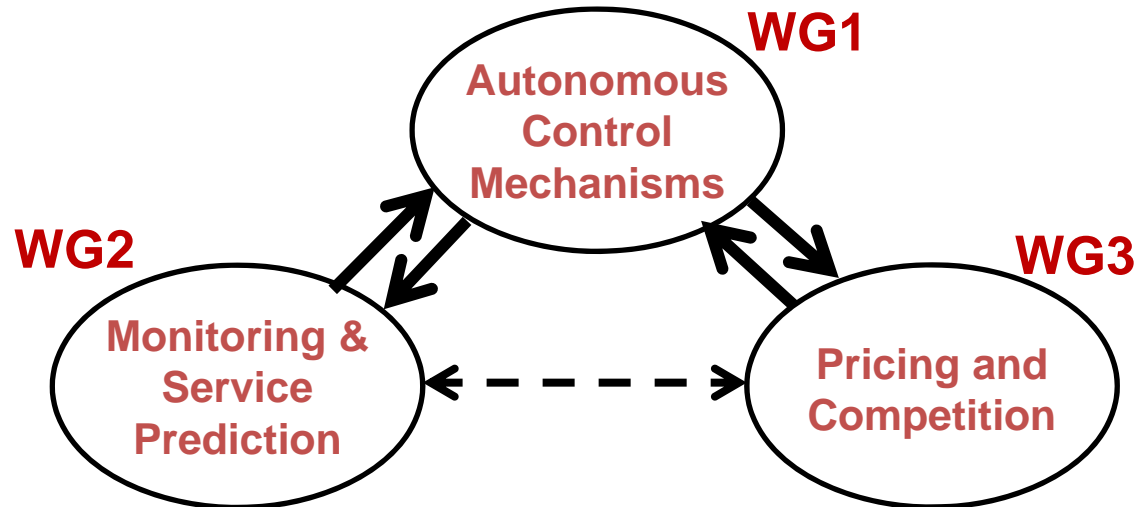
ACROSS Phasing

Coordination and dissemination

Phase 1: Alignment

M01-M12

Phase 2: Research and development



M01-M36

Phase 3: Integration and consolidation

M37-M48

Actions per Phase

Phase 1: Alignment (M01-M12)

1. Website, dissemination plan and requirements
2. Extensive overview of state-of-the-art in the fields
3. Establishment of Industrial Forum
4. Initial modeling and analysis



Phase 2: Research and development (M01-M36)

1. Further development of models and methods
2. Evaluation by simulations and real lab experiments
3. Initial design of Proof-of-Concept
4. Regular interaction between WGs



Phase 3: Integration and consolidation (M37-M48)

1. Integration and development Proof-of-Concept
2. Establishment Community of Practice

Types of Activities in ACROSS

1. ACROSS Website

2. MC-meetings

- at least two per year
- technical presentations and discussions

3. Open workshops

- once per year (from 2nd year)
- invited speakers from related fields

4. Summer schools for young researchers

- every year, starting 2nd year
- rotating coordination

5. Short-term Scientific Missions (STSMs)

- coordination by STSM coordinator

Milestones

- MS1.1:** Website, dissemination plan and Industrial Forum established **M03**
- MS1.2:** Overview state-of-the-art and refined planning (integrated and per WG) ready **M12**
- MS2.1:** Initial models per WG (control, monitoring, pricing) ready **M24**
- MS2.2:** Refined models per WG validated and initial integration models ready **M36**
- MS3.1:** PoC simulations of integration ready **M40**
- MS3.2:** PoC lab experiments of integration ready **M44**
- MS3.3:** Book ready, final workshop and establishment Community of Practice **M48**



Action Budget Planning Y1

1. 2nd MC and WG1-3 meeting (CWI, Amsterdam)

- Dates: 13-14 February 2014
- Expected participation 43

€35.800

2. 2nd Core Group meeting (CWI, Amsterdam)

- Core Group meeting with WG leaders
- Goal: discussion and alignment of scientific goals
- Date: May 2014
- Expected participation 7

€5.000

3. 2nd Scientific Kickoff meeting (BTH, Karlskrona, Sweden)

- SKO meeting on Autonomous Control for Cloud Services
- Goal: further alignment of scientific goals
- Date: September 12, 2014
- Expected participation 25

€21.000

Action Budget Planning Y1

4. 3rd MC and WG1-3 meeting (TBD)

- Dates: October 2014
- Expected participation 43

€35.800

STSM's

- Number of STSM's: 6
- Cost per STSM: €2.500

€15.000

Dissemination

- Action flyer for distribution across European research community
- Date: April 2014

€3.000

Web page

- Development, hosing and maintenance of Action Webpage
- March 2014

€3.000

Bank charges

€1.000

Action Budget Planning Y1 + Y2

Y1

Y2

	Amount (in €)	
A. SUMMARY BUDGET		
(1) Meetings	97,600	E115,000
(2) STSM's	15,000	E20,000
(3) Training schools	0	E10,000
(4) Publication, dissemination, outreach	6,000	E5,000
(5) Others	1,000	
B. TOTAL SCIENCE EXPENDITURE (sum of (1) to (5))	119,600	E150,000
C. FINANCIAL ADMINISTRATION (15% of B.)	17,940	E20,000
D. TOTAL EXPENDITURE (B+C)	137,540	E170,000

9c. Long-term Planning

MC- and WG-meetings

- two times per year (roughly February and September)
- locations to be determined

Do we want to keep MC- and WG-meeting co-located?

Annual progress conferences

- to be discussed

Training schools and STSMs

- to be discussed

9d. Dissemination planning

Acknowledgments

- **“This publication is supported by COST”**
- **“This publication is supported by COST Action ACROSS (IC1304)”**
- **“This publication is supported by COST Action Autonomous Control for a Reliable Internet of Services (IC1304)”**

9d. Dissemination planning

	Year 1				Year 2				Year 3				Year 4			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Kick-off MC meeting																
Annual MC meetings																
1st version of the Action's Website																
Detailed Action's dissemination plan																
Updating Annual Report																
Industrial Forum																
1st Annual Report of the Action																
Annual Reports																
Final Report																
Summer School																
Open Workshop					One per year				One per year				One per year			
Establishment of a European Community of Practice																

10. New members

11. AOB

12. Next meeting

13. MC decisions

- **Minutes approved**
- **Dissemination plan approved**
- **Ideas for Open Workshop?**
- **State-of-the-art document to be approved by 15/11: via mail**
- **Next meeting**