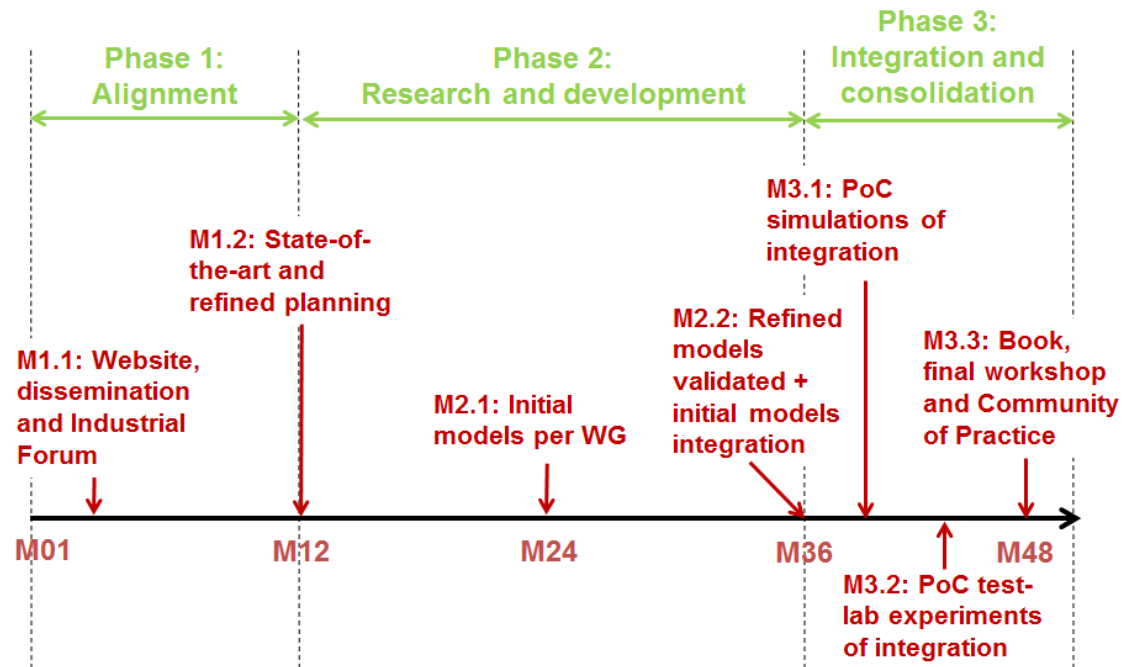


# Agenda

1. Status of the Action (Rob)
2. Workshops (Hans)
3. STSM status and new applications (Nearchos)
4. Status Summer School (Tihana)
5. Industrial Forum (Hans)
6. Publications and dissemination (all)
7. Relation between WG's and TF's

# Status of the Action



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

## **Promised:**

- **State-of-the-art and challenges document: ready**
- **Publication and dissemination plan: ready**
- **Industrial Forum: ongoing**
- **Website: up and running**

# Milestones

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



# Work and Budget Plan for Y2

## Work and Budget Plan Summary

A. COST Networking Tools	EUR
(1) Meetings	92,985.00
(2) Training Schools	27,600.00
(3) STSMs	25,000.00
(4) Dissemination	1,500.00
(5) Other Expenses Related to Scientific Activities	500.00
B. Total Science Expenditure (sum of (1) to (5))	147,585.00
C. FSAC (max. of 15% of B)	22,137.75
D. Total Expenditure (B+C)	169,722.75

# Workshops in 2015

## **1<sup>st</sup> Open Workshop on “Autonomous Control for the Internet of Services”**

Würzburg, 15 April 2015

## **Joint CLEEN and ACROSS workshop on “Cloud technology for reliable and energy efficiency in mobile communications” (Hans, Rob)**

Paris, 29 June 2015 (co-located to EUCNC)

## **Special session on “QoS/QoE monitoring and management with SDN” (Yoram, Tobias)**

Paris, June 2015 (co-located to EUCNC)

## **COST Action ACROSS on “Engineering and Control for Reliable Cloud Services” (Hans, Rob)**

Gent, 2 September 2015 (co-located to ITC27)

## **2<sup>st</sup> Open Workshop on “Autonomous Control for the Internet of Services” (Tihana)**

Lovran, October 2015



# Meetings in Y2

Meeting Title	Meeting Type	Dates	Location	ITC	Total Cost(EUR)
3rd MC + WG1-3 meeting + 1st Open Workshop on "Autonomous Control in the Internet of Services"	Management Committee Meeting, Core Group Meeting, Working Group Meeting, Workshops/Conferences	15/04/2015 - 17/04/2015	Würzburg (Germany)	No	43,565.00
2nd Open workshop on "Autonomous Control for the IoS"	Workshops/Conferences	02/07/2015 - 02/07/2015	Paris (France)	No	6,780.00
3rd Open Workshop on "Autonomous Control in the Internet of Services"	Workshops/Conferences	11/09/2015 - 11/09/2015	Ghent (Belgium)	No	5,400.00
4th MC + WG1-3 meeting	Management Committee Meeting, Core Group Meeting, Working Group Meeting	08/10/2015 - 09/10/2015	Lovran (Croatia)	Yes	37,240.00
				Total	92,985.00

# Task Forces

01. Softwarization of networks (Javier Sainz Guerra, Kurt Tutschku)
02. Cross-layer QoE-management (Peter Pocta)
03. QoS-aware service composition (Rob van der Mei)
04. Cloud federations (Wojtek Burakowski)
05. Energy/cost-aware management control (Javier Sainz Guerra)
06. New transport protocols (Ake Arvidsson)
07. Quality/cost management (Stoyan Poryazov)
08. QoS/QoE modelling (Tobias Hossfeld, Thomas Bohnert)
09. QoS/QoE monitoring (Petteri Mannersalo, Phillip Leitner)
10. Human factors (Katarzyna Wac)
11. End-user monitoring (Petteri Mannersalo, Toni Maki)
12. Effective monitoring of encrypted 'grey' traffic (Ake Arvidsson)
13. Prediction and modelling of service composition performance, quality and reliability (Tihana Grbac)
14. Provisioning of context-dependent pricing, charging and billing (Peter Key)
15. QoS and price-aware selection of cloud service providers (Phillip Leitner)

# Poll "Assignment to ACROSS research tasks"

<http://doodle.com/kgwwehf6tgr86axq>

December 2014														
Tue 23														
	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6	Task 7	Task 8	Task 9	Task 10	Task 11	Task 12	Task 13	Task 14
Rob van der Mei			OK											
Denis Trcek					OK									
Jamal Raiyn								OK					OK	
Thomas Zinner	OK	OK						OK						
Erol Gelenbe	OK			OK	OK									
Steven Latre	OK		OK	OK										
Tihana Galinac Grbac	OK		OK										OK	
Danco Davcev			OK					OK						
Edmundo Monteiro	OK							OK					OK	
Konstantinos Tserpes									OK					
Andreas Kassler	OK		OK					OK						
Fidel Liberal					OK			OK						
Christian Schwartz								OK						OK
Stavros Asimakopoulos										OK				
Yoram Haddad	OK	OK		OK										



	December 2014													
	Tue 23													
	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6	Task 7	Task 8	Task 9	Task 10	Task 11	Task 12	Task 13	Task 14
Javier Sainz		OK			OK									
Philipp Leitner			OK											
Kostia Avrachenkov			OK		OK									OK
Peter Pocta	OK	OK						OK						
Andrej Zgank	OK	OK						OK						
Nearchos Paspallis			OK											
Vasilios Siris		OK						OK						
Katarzyna Wac								OK	OK	OK				
Lea Skorin-Kapov	OK	OK						OK						
Rasa Bruzgiene		OK						OK						
Barbara Pernici			OK		OK				OK					OK
Malamatı Louta	OK	OK												
Linh Truong (TUW)		OK											OK	OK
Nejdet Dogru			OK					OK					OK	
Attila Kertesz (USZ)			OK	OK					OK					

December 2014														
Tue 23														
	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6	Task 7	Task 8	Task 9	Task 10	Task 11	Task 12	Task 13	Task 14
Ahmed Elmokashfi	OK	OK						OK						
Hugh Melvin	OK	OK						OK	OK					
Jose Soler (DTU)	OK		OK										OK	
Malamati Louta			OK											
Valeria Cardellini			OK											OK
Åke Arvidsson						OK						OK		
Samuli Aalto					OK									
Pasi Lassila					OK									
József Dániel Dombi			OK	OK					OK					
Tobias Hossfeld		OK	OK					OK						
Saulius Japertas													OK	
Zsolt Nemeth			OK		OK			OK						
Sabina Barakovic		OK						OK					OK	
Christian Moldovan (UDE)		OK						OK			OK			
Francesco Lo Presti			OK										OK	OK

<http://doodle.com/kgvwefh6tgr86axq>

December 2014														
Tue 23														
	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6	Task 7	Task 8	Task 9	Task 10	Task 11	Task 12	Task 13	Task 14
Jasmina Baraković Husić		OK						OK					OK	
Eirini Liotou		OK	OK					OK						
Corinna Schmitt, Daniel Dönni (UZH)	OK										OK	OK		
Patrick Poullie (UZH)			OK	OK										
Thomas Bocek, Christos Tasiaras (UZH)									OK					
Hans van den Berg	OK		OK	OK										
Ivan Ganchev							OK							OK
Count	16	17	21	7	9	1	1	22	7	2	2	2	10	7

# Status of STSMs

- Budget for 10 STSMs this year
  - This number may increase a bit
- You can propose to **host** your own STSM project:
  - [https://docs.google.com/forms/d/1ofYoL0ynVwRcLwCgJU52L\\_7FpyTNh6OM5B9rHGWR800/viewform](https://docs.google.com/forms/d/1ofYoL0ynVwRcLwCgJU52L_7FpyTNh6OM5B9rHGWR800/viewform)
- You can apply (as a **participant**) following this link:
  - <http://www.cost-across.nl/stsms>

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# Report on ACROSS Summer School

April 8th - April 15th, 2015  
Wuerzburg, Germany



Tihana Galinac Grbac, Summer School Coordinator

## Participants:

- 14 participants (excluding people from the host university), from 9 nations and 9 speakers from 7 institutions.

## Topics covered::

- Software Defined Networking (SDN)
- Network Function Virtualization (NFV)
- Big Data

### Lecturers:

- 8 lectures and 3 hand on sessions as well as a poster session with 6 participants
- Lecturers were:
  - Andreas Hotho, Prof. Dr., University of Wuerzburg
  - Holger Karl, Prof. Dr., University of Paderborn
  - Tobias Hossfeld, Prof. Dr., University of Duisburg-Essen
  - Krzysztof Walkowiak, Ph.D., D.Sc., Wroclaw University of Technology
  - Franco Davoli, Prof., University of Genoa
  - Thomas Zinner, Dr. rer. nat., University of Wuerzburg
  - Florian Lemmerich, Dr. rer. nat., University of Wuerzburg
  - Alexandros Karatzoglou, Ph.D., Telefonica Research
  - The industry keynote will be given by Dr. Marco Hoffmann, Nokia Networks

## Activities:

- Social events:
  - trip to the historic city of Bamberg and
  - welcome reception by the mayor of Würzburg.
- Summer School Web page:
- <http://summerschool2015.informatik.uni-wuerzburg.de/pages/call-for-participation>



## Local Organizers :

- Phuoc Tran-Gia
- Andreas Hotho
- Florian Wamser
- Christian Schwartz
- Valentin Burger



# 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](mailto: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...?**

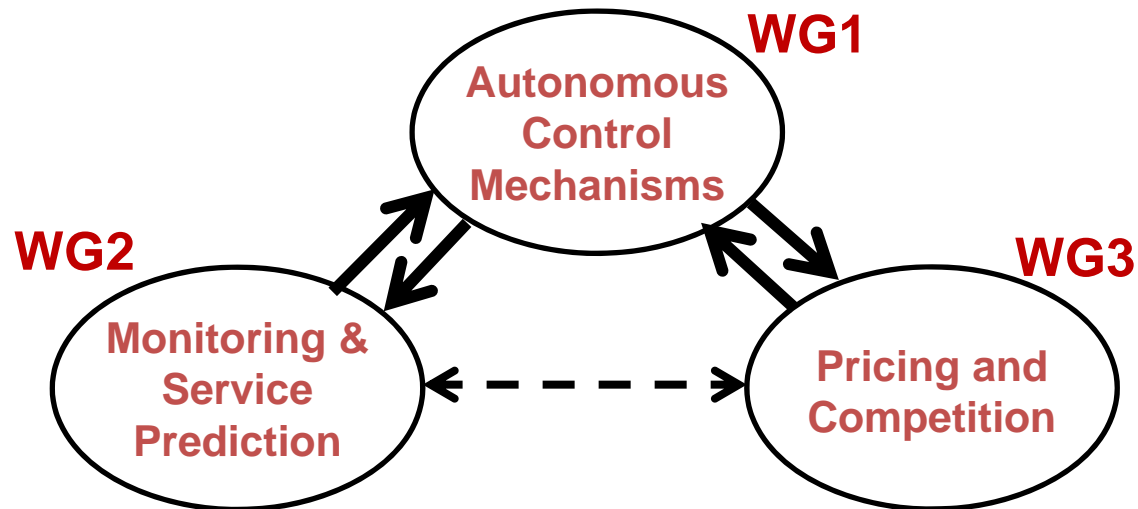
# ACROSS Phasing

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 2<sup>nd</sup> year)
- invited speakers from related fields

## 4. Summer schools for young researchers

- every year, starting 2<sup>nd</sup> year
- rotating coordination

## 5. Short-term Scientific Missions (STSMs)

- coordination by STSM coordinator

# Milestones

- |   |            |
|---|------------|
| <b><u>MS1.1:</u></b> Website, dissemination plan and Industrial Forum established                 | <b>M03</b> |
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| <b><u>MS3.2:</u></b> PoC lab experiments of integration ready                                     | <b>M44</b> |
| <b><u>MS3.3:</u></b> Book ready, final workshop and establishment Community of Practice           | <b>M48</b> |





# Action Budget Planning Y1

## 1. 2<sup>nd</sup> MC and WG1-3 meeting (CWI, Amsterdam)

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

€35.800

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

# 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**