

## **NORTH**

**Non-intrusive Observation and RunTime  
verification of cyber-pHysical systems**

**Kickoff Meeting – Agenda**

**24-25 May 2017**

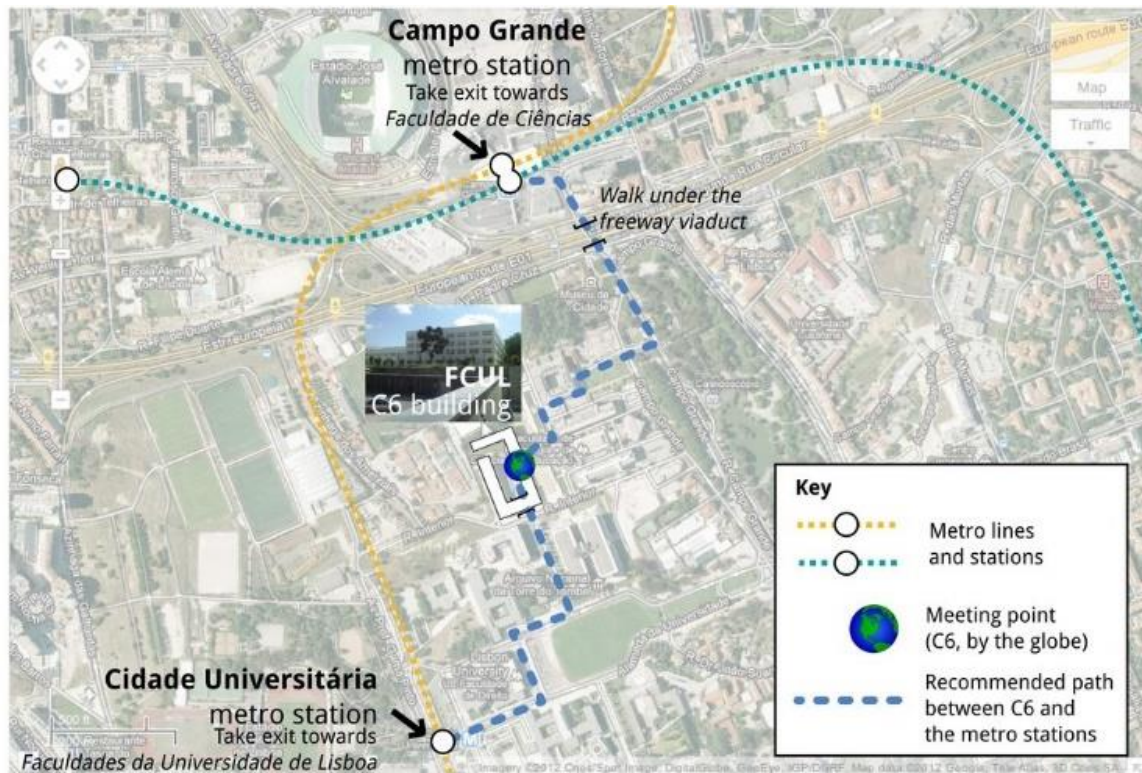
**Lisboa, Portugal**

Location

**FCUL**

**24<sup>th</sup> May - Building C6 – Room 6.1.25**

**25<sup>th</sup> May - Building C6 – Room 6.3.38**



## LIST OF PARTICIPANTS

### Université de Bretagne Occidentale / Lab-STICC UMR CNRS 6285

Abrev.	Name	
FS	Frank Singhoff	
SR	Stephane Rubini	
LL	Laurent Lemarchand	
JB	Jalil Boukhobza	
MD	Mourad Dridi	

### Faculdade de Ciências da Universidade de Lisboa (FCUL)/ FCiências.ID / LaSIGE

Abrev.	Name	
JR	José Rufino	
AC	António Casimiro	
AL	Antónia Lopes	
IG	Inês Gouveia	

## AGENDA

**24th May 2017 (Wednesday) – Room 6.1.25**

<b>9:00</b>	<b>Welcome</b>
<b>9:10</b>	<b>Technical presentations</b>
	<i>J. Rufino – “NORTH Project – Proposal overview and research challenges”</i>
	<i>F. Singhoff – “MOCS/Lab-STICC research topics”, 5mn</i>
	<i>F. Singhoff – “Cheddar project, past &amp; ongoing activities”, 40 mn</i>
<b>10:30</b>	<i>Coffee Break</i>
<b>11:00</b>	<b>Technical presentations by Université de Bretagne Occidentale</b>
	<i>S. Rubini – “Monitoring driven by Scheduling Analysis”</i>
	<i>L. Lemarchand – “Multi-objective Optimization for Parallel Real-Time Systems Software Design Exploration, 45 mn</i>
<b>12:30</b>	<i>Lunch Break</i>
<b>14:00</b>	<b>Technical presentations by Université de Bretagne Occidentale</b>
	<i>J. Boukhobza – “Data Storage for embedded systems”, 30 mn</i>
	<i>M. Dridi – “DTFM and DAS: about Schedulability Analysis of Real-Time Applications on NoC-based Architectures”, 30 mn</i>
<b>15:30</b>	<i>Coffee Break</i>
<b>16:00</b>	<b>Technical presentations by FCUL</b>
	<i>A. Lopes – “Runtime verification at work: from data-types to REST-APIs”</i>
	<i>A. Casimiro – “Enforcing Timeliness and Safety in Mission-Critical Systems”</i>
	<i>I. Gouveia – “Enforcing Safety and Security Through Non-Intrusive Runtime Verification”</i>
<b>18:15</b>	<i>Closing the first day meeting</i>

**25th May 2017 (Thursday) – Room 6.1.38**

9:00	Technical discussion
	<i>F. Singhoff – “Tasks 1 &amp; 2: Preview and planning”</i>
	<i>Discussion NORTH publication submission plan – inspired by Tasks 1 &amp; 2</i>
10:30	<i>Coffee Break</i>
11:00	Technical discussion
	<i>J. Rufino – “Tasks 3 &amp; 4: Preview and planning”</i>
	<i>Discussion NORTH publication submission plan – inspired by Tasks 3 &amp; 4</i>
12:30	<i>Lunch Break</i>
14:00	Administrative issues / project actions planning
	<i>J. Rufino – Visit of Portuguese researchers to Brest</i>
	<i>J. Rufino – “NORTH Project Web site”</i>
	<i>F. Singhoff – “NORTH Project file repository (svn or other)”</i>
	<i>F. Singhoff – “Project submission to upcoming H2020 call for proposals”</i>
	<i>F. Singhoff – “PAULF program and Erasmus student exchange program” (meeting with the participation of Prof. Paulo Urbano – FCUL; Department of Informatics ERASMUS program coordinator)</i>
	<i>AOB</i>
15:30	<i>Closing the kickoff meeting</i>

Project title:		NORTH																								
		Non-intrusive Observation and RunTime verification of cyber-pHysical systems																								
		Year 1 (2017)												Year 2 (2018)												
Task	Task Denomination	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	
T1	Cyber-Physical Systems: Component Modelling and Property Extraction	█	█	█	█	█																				
T2	Temporal logics for run-time verification of cyber-physical systems				█	█	█	█	█	█																
T3	Methods and tools for run-time verification of cyber-physical systems									█	█	█	█	█												
T4	Non-intrusive Observation and Runtime Verification of Cyber-Physical Systems												█	█	█	█	█	█								
T5	Adaptive Non-intrusive Observation and Runtime Verification of Cyber-Physical Systems																█	█	█	█	█	█				
T6	System Prototype for Runtime Verification and Demonstration of Use																					█	█	█	█	█
	Visits from France to Portugal				█																					
	Visits from Portugal to France												█													
1st Progress Report												Final Report														