



## CARBON BASED SMART SYSTEM FOR WIRELESS APPLICATION



Start Date : 01/09/12  
Project n°318352

Duration : 36 months

Topic addressed : Very advanced nanoelectronic components: design, engineering, technology and manufacturability

### WORK PACKAGE 7 : Project management

#### DELIVERABLE D7.2

#### Minutes of the T0 meeting

Due date : T0+1

Submission date : T0+11

Lead contractor for this deliverable : TRT

Dissemination level : PU – Public

## WORK PACKAGE 7: Project management

### PARTNERS ORGANISATION APPROVAL

	Name	Function	Date	Signature
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1 ex	Laboratoire d'Architecture et d'Analyse des Systèmes	CNRS-LAAS	George DELIGEORGIS
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1 ex	National Research and Development Institute for Microtechnologies	IMT	Mircea DRAGOMAN
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## CHANGE RECORD SHEET

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## 1 PARTICIPANTS

**Date:** September 25<sup>th</sup> - 26<sup>th</sup>, 2012

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## 2 AGENDA

Tuesday 25 <sup>th</sup> September		
12:00 – 14:00	Welcoming lunch	
14:00 – 14:30	Introduction: general presentation and organisational aspects	TRT
14:30 – 16:30	<b>Presentation of the 6 WPs (20 min/WP):</b> <ul style="list-style-type: none"> <li>- Objectives &amp; means</li> <li>- Schedule of main milestones &amp; deliverables</li> <li>- Inputs / Outputs with other WPs</li> <li>- Over the project duration</li> <li>- Focus on the period <math>T_0 - T_0+6</math></li> </ul>	WP leaders
16:30 – 17:00	Break	
17:00 – 18:30	<b>Presentation of the role of each partner (15 min/partner):</b> <ul style="list-style-type: none"> <li>- Contributions to each WP</li> <li>- Over the project duration</li> <li>- Focus on the period <math>T_0 - T_0+6</math></li> </ul>	All
20:00	Diner	
Wednesday 26 <sup>th</sup> September		
09:00 – 10:30	<b>Presentation of the role of each partner (15 min/partner):</b> <ul style="list-style-type: none"> <li>- Contributions to each WP</li> <li>- Over the project duration</li> <li>- Focus on the period <math>T_0 - T_0+6</math></li> </ul>	All
10:30 – 11:00	Break	
11:00 – 12:00	<b>Presentation of the role of each partner (15 min/partner):</b> <ul style="list-style-type: none"> <li>- Contributions to each WP</li> <li>- Over the project duration</li> <li>- Focus on the period <math>T_0 - T_0+6</math></li> </ul>	All
12:00 – 13:30	Lunch	
13:30 – 15:00	<b>Detailed review of the deliverables for the period <math>T_0 - T_0+6</math>:</b> <ul style="list-style-type: none"> <li>- Working plan of the responsible partner</li> <li>- Who is involved? How? When?</li> </ul>	All
	- Means & Actions to achieve the deliverables on time	
15:00 – 15:30	Break	
15:30 – 16:30	<b>Dissemination tools:</b> <ul style="list-style-type: none"> <li>- Logo</li> <li>- Flyer</li> <li>- Website</li> <li>- Financial aspects</li> <li>- Publications and IPR</li> </ul>	TRT
16:30 – 17:00	Meeting schedule and verification of action items	All
17:00	End of Kick-Off Meeting	

All the presentations made during the Kick-Off Meetings will be available as soon as possible on the website. We report here only the contents of the discussions that occurred during the presentations.

### **3 INTRODUCTION AND PROJECT OVERVIEW (A. ZIAEI, TRT)**

AZ : Partners presentation

AZ : Explanation of the project coordination for key objectives

OP : Sign accession form 45 days from 5<sup>th</sup> september  
Advanced payment: this week after accession forms

AZ : confirmation of the name from each partner for the cost statement

SJ : Intervention concerning cost statements

AZ : Presentation of major objectives.

MM : Change the number of men/month but it's not possible.

AZ : It's the total budget that matters and we can easily make an arrangement between partners. This is only valid between the WP1 and the WP5.

AZ : General Assembly at the end of each year. 2 general meeting/year.

AZ : There's a progress meeting that should be scheduled every 4 months but we can meet before if there is a problem. It's up to the WP leader to decide.

Possibilities to make conference call and meeting to ensure the right progress of the project.

Each person in charge of the WP must send an email to Afshin with their email address and their contact details.

AZ : Being part of the tasks doesn't mean that the task title has to be performed.

AZ : explanation of executive board

AZ ; Importance of the WP leader (deliverable, work advancement...)

GD : propose to shift T0

AZ : WP2 and WP3 starting from the kick off meeting

AZ : Next meeting for the WP2 will take place in Amsterdam, on the 30<sup>th</sup> of October (during EUMW Workshop).

## **4 PARTNERS' PRESENTATIONS**

**4.1 TRT (A.ZIAEI)**

**4.2 CHALMERS (J.LIU)**

**4.3 FORTH (G. KONSTANDINIS)**

**4.4 CNRS-LAAS (G. DELIGEORGIS)**

**4.5 UMPC (C. TRIPON-CANSELIET)**

**4.6 IMT (M. DRAGOMAN)**

**4.7 GI (P.BLAKE)**

**4.8 TAS (J. CHAZLAT)**

**4.9 SHT (L.YE)**

**4.10 UNIVPM (L.PIERANTONI)**

**4.11 LIU (R.YAKIMOVA)**

**4.12 ICN (J.S REPARAZ)**

**4.13 TYNDALL (M.MODREANU)**

## **5 WP PRESENTATIONS**

### **5.1 WP 1 (Y.MANCUSO, TAS)**

### **5.2 WP 2 (M.DRAGOMAN, IMT)**

Person in charge:

- TRT : Stephane Xavier (T2.1, T2.2, T2.4)
- LAAS : Fabio Coccetti (T2.3 & T2.4)
- IMT : Mircea Dragoman (T2.5)

An email must be sent to Mircea with the email address of each person in charge.

For some devices, we have to work with CNT's semi-conductors.

Johan Liu raises the question of the difficulty to make the difference between CNT's semi-conductors and metallic. There are some issues for the characterization. We might need a new solution.

Joahan Liu also wants conf call on a regular basis.

MD : Next 6 month → design of all devices must be in advanced level

MD : Need inputs/data for simulation

### **5.3 WP 3 (G. KONSTANDINIS, FORTH)**

There are 3 providers for the grapheme (LiU, Graphene Industries, SHT/Chalmers).

In the next 6 months, we must have accomplished the first tries in order to know if it's possible to make the distinction between semi-conductors CNT and metallic CNT

SHT is not able to make TEM. TRT will bring its help for the TEM (morphology help).

Tyndall would like to have soon the samples with CNTS and graphene to study the compatibility of their process of dielectric deposit.

NKUA would like to have soon the samples with CNTS and graphene to measure S parameter.

### **5.4 WP 4 (G.DELIGEORGIS, CNRS-LAAS)**

Device characterizations

T4.1 : Characterizations of FET's and active modules (leader IMT)

CNT FET's DC → Tyndall

CNT FET's RF → TRT+**IMT**

CNT module (LNA,PA) → TRT+**IMT**

	<b>D7.2 : Minutes of the T0 meeting</b>	10/10
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There is no TEM at Liu but LEM (Low energy Microscopy) for thickness and uniformity measurement

T4.2 : CNT RF switch test (leader CNRS-LAAS)

CNT NEMS DC-RF → **IMT** (and not TRT)

T4.3 : CNT based filter and oscillator test (leader UPMC)

Filter performance → **IMT** (and not TRT)

Phase noise → **IMT** (and not TRT)

T4.6 : CNT Interconnects test (leader TRT)

RF response → **IMT** (and not TRT)

Temperature cycling → **IMT** (and not TRT)

## 5.5 WP 5 (F.ALZINA SUREDA, ICN)

Project demonstrators and systems integration

Demonstrator 1 : CNT based T/R modules

Demonstrator 2 : Graphene based Receiver module

## 5.6 WP 6 (A. ZIAEI, TRT)

## 5.7 WP 7 (A. ZIAEI, TRT)

# 6 REVIEW OF WORK & ACTION LIST

Description	Date	Leader
Establish Consortium Agreement	End of October	TRT
Next WP2 meeting: EUMW, Amsterdam Tuesday 30 <sup>th</sup> october	30 <sup>th</sup> October	ALL
D1.1	End of November	TSA
D1.2	End of March	TSA
Email + access code for website to be sent to all partners	End of October	TRT
D6.1	End of December	TRT
Send sample to Tyndall to study the process compatibility	End of January	TRT
Send sample to NKUA for S parameter measurement (CNT and graphene)	End of January	SHT & CHALMERS
Next meeting: ICN, Barcelona 31 January and 1 <sup>st</sup> February 2013	January 2013	ICN