

# Project Management and Soft Skills

## Project Management: a Pragmatic Approach

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**A.Y. 2018-19**  
**Credits: 3**

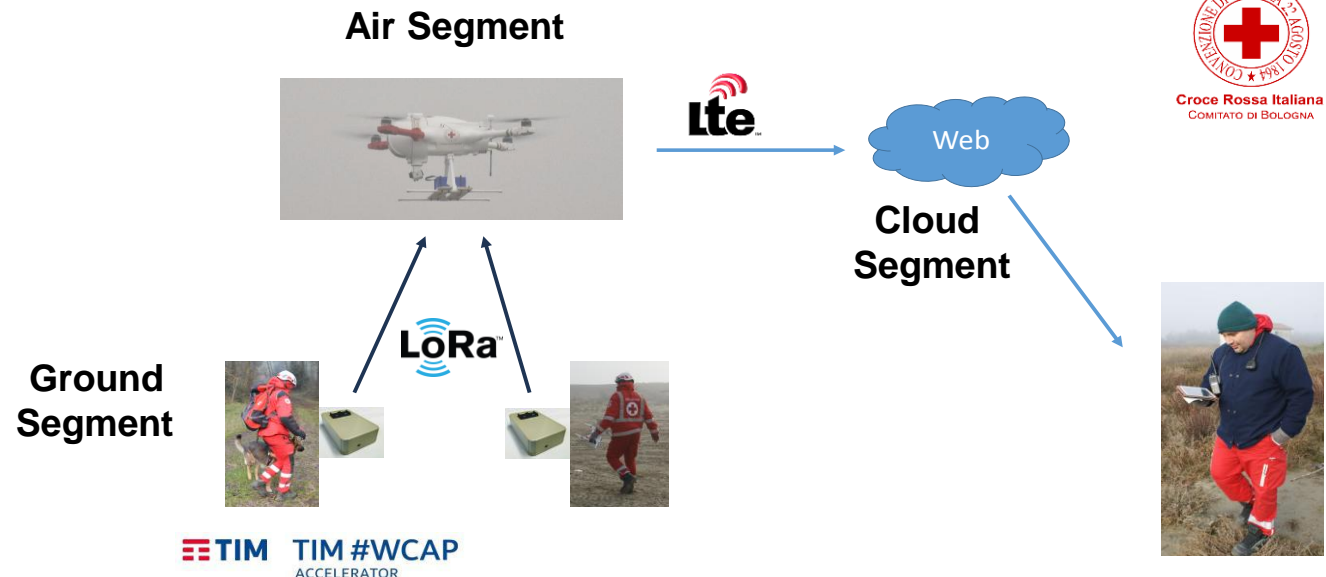
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# Project Management

## Interactive Session #3 – Teams of up to 5 | 15 min

Development and presentation (press conference) of a drone-based radio system for the support to rescue activities of the Red Cross.

Define the WBS.



# Project Management

## Interactive Session #3 – Teams 1 – 19

### Groups 1 – 5

1	ALDERA	GIOVANNI
1	AJMAL	SYED MUHAMMA
1	Muhammad	Jan
1	CASADIO	REBECCA
1	Menafra	Valentina Franc
2	BALDINI	MARINA
2	ANNAM	KRISHNA CHAITA
2	MUJTABA	AHMED
2	CAVALLERO	SARA
2	Meskine	Mohamed
3	BUCCERI	FRANCESCO
3	BALLUKJA	ERJON
3	PARENTI	MASSIMILIANO
3	Conserva	Francesca
3	MICCOLI	ROBERTA
4	CALANDRINI	ILARIA
4	BORRI	MARTA
4	Pontecorvo	Tadeo
4	DAKKAK	M.RABIH
4	Mirhoseini	Sayed Shahab
5	CERNY	SEBASTIAN
5	CERULLI	FABRIZIO
5	Rangel Muñoz	Miguel
5	DENGAYEH	ANTOINE
5	Mohammed Elmustafa	Eltahir

### Groups 6 – 10

6	CROCI
6	DI LELLA
6	Rocha
6	EZZEDDINE
6	MONTEFIORE
7	FAN
7	FERRARI
7	SAVARESE
7	FAZZINI
7	NERINI
8	FIN
8	FRATI
8	Selleri
8	Felipe Bacarin
8	Øie
9	MACRÌ
9	Giuliani
9	SEYEDENA
9	Ferretti
9	PAMBA
10	Medeiros
10	Godinho
10	SOMAN
10	GANDHAMALA
10	Pérez Suárez

### Groups 11 – 15

11	PENA
11	Grabiński
11	Vara
11	GARCIA MIRANDA
11	PRAKASH
12	PIZZUTELLI
12	GRILLI
12	Vezzali
12	GASIMLI
12	Rydjord
13	Sadovnik
13	KALLUCHI
13	AL DAHER
13	GEBREMESKEL
13	SIROUSI
14	Waszkiewicz
14	KOVELAMUDI
14	BASCHIERI
14	Gonnella
14	SUAREZ GARCIA
15	ZHANG
15	LU
15	BERNABÈ
15	GRANDE VADILLO
15	TODISCO

### Groups 16 - 19

JULIANA		
Piotr		
Alessandro Calogero		
LUCAS		
SATYA		
SARA		
MATTEO		
Enrico		
ELKHAN		
Thea Svenkeruc		
Anastasiia		
MOUNIKA		
NOUR EL HUDA		
MULUBRHAN DE		
SORENA		
Angelika		
SAI TARUN		
LORENZO		
Pierpaolo		
INES		
YIRAN		
JUNJIE		
MATTEO		
ANDREA		
VITTORIO		
16	CAPASSI	JARI RAHUL
16	LWANGA	EVANS
16	BOLDRINI	LEONARDO
16	KODRA	SILVI
16	Valieri	Mario
17	Hammerschmid	Gerald
17	MAITY	JEET
17	Calabrese	Giovanni
17	Lanci	Paolo
18	MONCAYOLA	JUDIT
18	MARTINELLI	ELEONORA
18	CALVO MONTES	ADRIAN
18	MALPEZZI	PAOLO
19	SEYED JABBARI	SEYED SHERVIN
19	Melillo	Francesco
19	CAMPANA	RICCARDO
19	MARTINEZ HERRERA	GUILLERMO

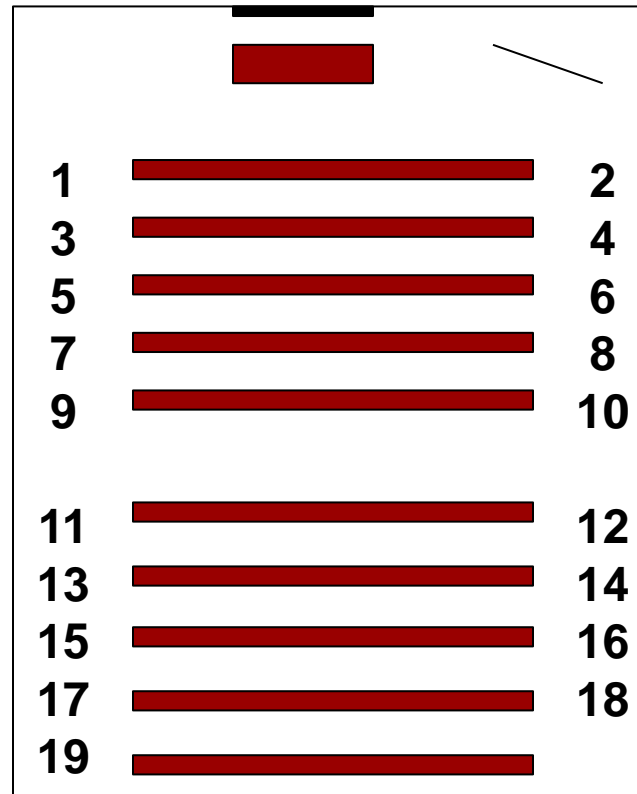
# Project Management

## Interactive Session #3 – Teams 1 – 19 (alph. order)

1	AJMAL	SYED MUHAMMAD WA	7	FERRARI	EDOARDO	3	MICCOLI	ROBERTA			
13	AL DAHER	NOUR EL HUDA	9	Ferretti	Danila	4	Mirhoseini	Seyed Shahab			
1	ALDERA	GIOVANNI	8	FIN	ALESSANDRA	5	Mohammed Elmustafa	Eltahir			
2	ANNAM	KRISHNA CHAITANYA	8	FRATI	MIRCO	18	MONCAYOLA	JUDIT			
2	BALDINI	MARINA	10	GANDHAMALA	MOUNIKA	6	MONTEFIORE	MATTEO			
3	BALLUKJA	ERJON	11	GARCIA MIRANDA	LUCAS	1	Muhammad	Jan			
14	BASCHIERI	LORENZO	12	GASIMLI	ELKHAN	2	MUJTABA	AHMED			
15	BERNABÈ	MATTEO	13	GEBREMESKEL	MULUBRHAN DESTA	7	NERINI	MATTEO			
16	BOLDRINI	LEONARDO	9	Giuliani	Roberto	8	Øie	Even Brattbakk			
4	BORRI	MARTA	10	Godinho	André	9	PAMBA	NIKSHEP KUMAR			
3	BUCCERI	FRANCESCO	14	Gonnella	Pierpaolo	3	PARENTI	MASSIMILIANO			
17	Calabrese	Giovanni	11	Grabiński	Piotr	11	PENA	JULIANA			
4	CALANDRINI	ILARIA	15	GRANDE VADILLO	ANDREA	10	Pérez Suárez	Jonathan			
18	CALVO MONTES	ADRIAN	12	GRILLI	MATTEO	12	PIZZUTELLI	SARA			
19	CAMPANA	RICCARDO	17	Hammerschmid	Gerald	4	Pontecorvo	Tadeo			
16	CAPASSI	JARI RAHUL	13	KALLUCHI	MOUNIKA	11	PRAKASH	SATYA			
1	CASADIO	REBECCA	16	KODRA	SILVI	5	Rangel Muñoz	Miguel			
2	CAVALLERO	SARA	14	KOVELAMUDI	SAI TARUN	6	Rocha	Pedro			
5	CERNY	SEBASTIAN	17	Lanci	Paolo	12	Rydjord	Thea Svenkerud			
5	CERULLI	FABRIZIO	15	LU	JUNJIE	13	Sadovnik	Anastasiia			
3	Conserva	Francesca	16	LWANGA	EVANS	7	SAVARESE	ANDREA			
6	CROCI	BEATRICE LUDOVICA	9	MACRÌ	FEDERICA	8	Selleri	Gian Marco			
4	DAKKAK	M.RABIH	17	MAITY	JEET	19	SEYED JABBARI	SEYED SHERVIN			
5	DENGAYEH	ANTOINE	18	MALPEZZI	PAOLO	9	SEYEDENA	SEYEDEH NASIM			
6	DI LELLA	LORENZO	18	MARTINELLI	ELEONORA	13	SIROUSI	SORENA			
6	EZZEDDINE	AHMAD	19	MARTINEZ HERRERA	GUILLERMO	10	SOMAN	DEEPA			
7	FAN	WENQU	10	Medeiros	Mariana	14	SUAREZ GARCIA	INES			
7	FAZZINI	ENRICO	19	Melillo	Francesco	15	TODISCO	VITTORIO			
8	Felipe Bacarin	Victor	1	Menafra	Valentina Francesca	16	Valieri	Mario			
			2	Mesquine	Mohamed	11	Vara	Alessandro Caloger	14	Waszkiewicz	Angelika
						12	Vezzali	Enrico	15	ZHANG	YIRAN

# Project Management

## Interactive Session #3 – Teams 1 – 19 : seats



# \*\*\* Attendance Check \*\*\*

**Fill attendance form**

www.robertoverdone.org

Teaching

PMSS

end of webpage

**“Attendance March 29”**

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# Short Break

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# Project Management

## WP1 - COORDINATION

- T1.1 - Project Management
- T1.2 - Contacts with Red Cross

## WP2 - REQUIREMENTS

- T2.1 - Req.s
- T2.2 - PoC Definition

## WP3 - GROUND SEGMENT

- T3.1 - Design
- T3.2 - Acquisition of HW
- T3.3 - FW Development
- T3.4 - Prototype Integration
- T3.5 - Testing
- T3.6 - Mass Production

## WP4 - AIR SEGMENT

- T4.1 - FW Development
- T4.2 - Testing

## WP5 - CLOUD SEGMENT

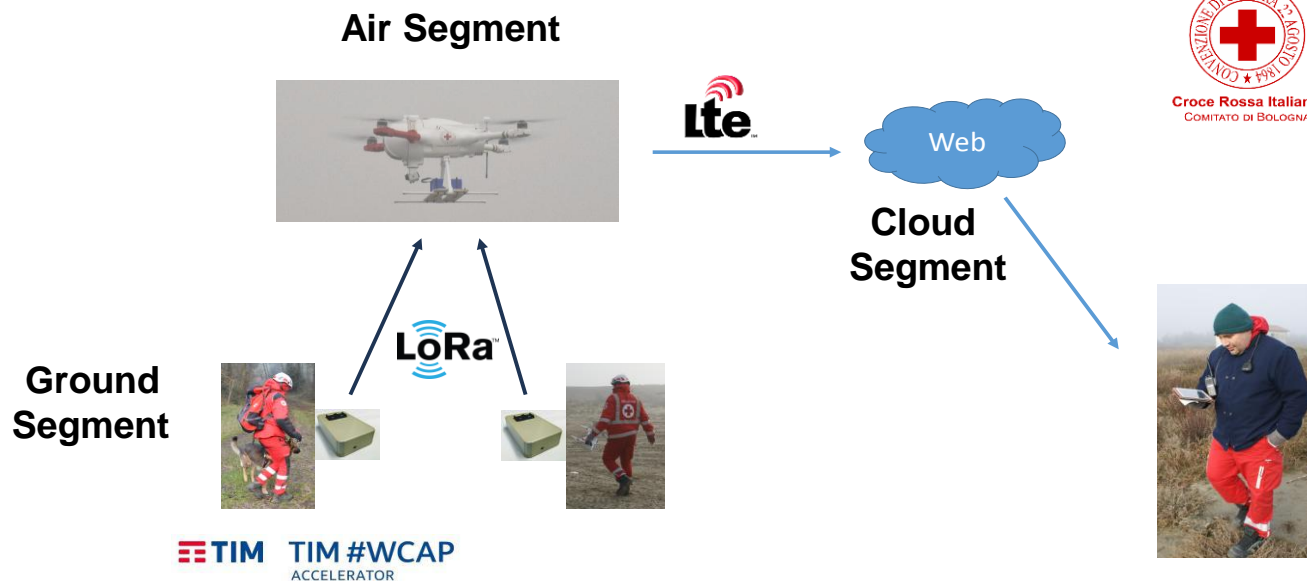
- T5.1 - Requirements
- T5.2 - SW Development
- T5.3 - Testing

## WP6 - EXPERIMENTATION

- T6.1 - Lab Experiment
- T6.2 - On-Field Experiment
- T6.3 - Proof-Of-Concept(s)

## WP7 - DISSEMINATION

- T7.1 - Logistics
- T7.2 - Invitations
- T7.3 - Press Releases
- T7.4 - Programme
- T7.5 - Video
- T7.6 - Press Conference





# Project Management

## Project Costs

**Costs are normally of three types:**

**Equipment**

**Travels**

**Personnel (number of hours dedicated to project \* hourly cost)**

**Direct costs** are those directly related to the activities of the project.

**Indirect costs** are those involved in the project, that can not be directly charged to it. Very often, they are estimated through a flat rate as a percentage of the direct costs (e.g. 20%).

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# Project Management

## Project Costs: Example

### Organising a group week-end in Venice.

		Direct Equip. Travel	Indirect	Total
WP1 - Travel	T1.1 - Choice from timetable			0
	T1.2 - Ticket		40	40
	T1.3 - Baggage	50		50
WP2 - Hotel	T2.1 - Choice			0
	T2.2 - Booking & Payment		90	90
WP3 - Finances	T3.1 - Assessment			0
	T3.2 - Gathering of funds			0
WP4 - Cultural	T4.1 - Choice of events			0
		Grand Total (EUR)		180

# Project Management

## Monthly Time Sheets

Tools used to track the usage of resources and prepare expense sheets.

E.g. Person Hours (PHs) for Month #j, Worker #k

Day	T1.1	T1.2	T1.3	...		Tn.m	SUM
1	3	3	2			0	8
2	1	3	0			0	4
...	...	...	...			...	...
31	0	0	0			0	0
<b>SUM</b>	12	24	6			0	<b>42</b>

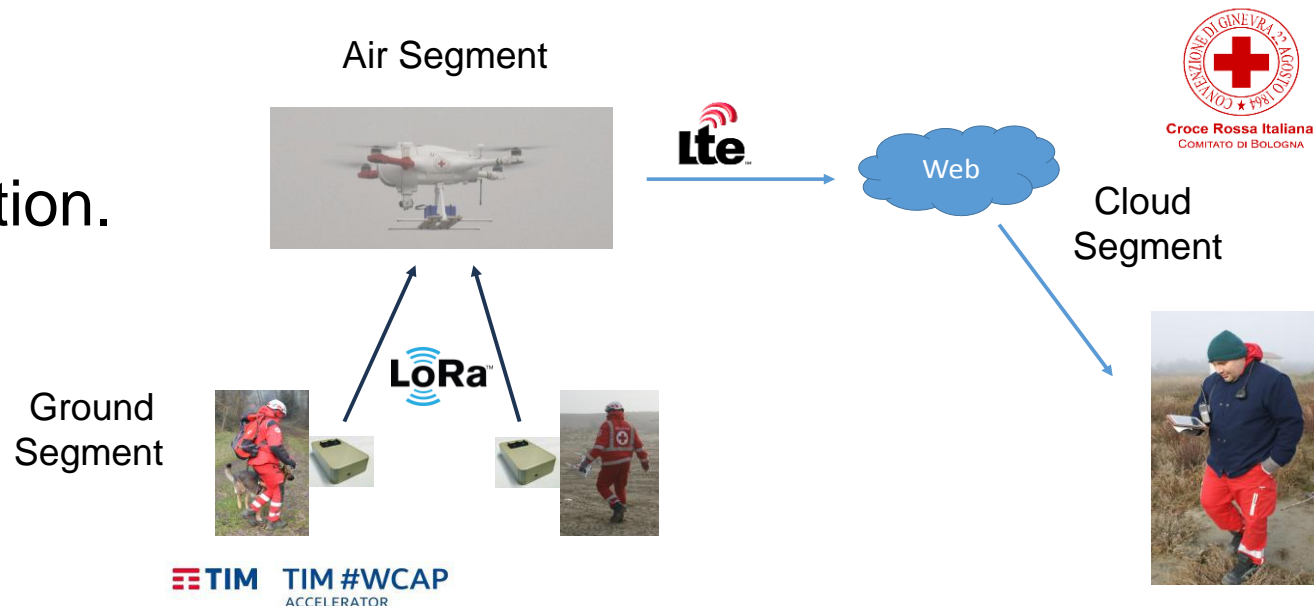
Conventionally:  
1,720 PHs/year  
143.3 PHs/month

# Project Management

## Interactive Session #4 – Teams | 45 min

Development and presentation (press conference) of a drone-based radio system for the support to rescue activities of the Red Cross.

- Prepare a Gantt.
- Estimate project duration.
- Assess project costs.



# Project Management

## Interactive Session #4 – Teams | 45 min

Development and presentation (press conference) of a drone-based radio system for the support to rescue activities of the Red Cross.

Project: Development and presentation to the public of a system to

	#	AVERAGE COST	COST	COST PER HOUR	#PDs (7 hours per day)	COST PER DAY	
<b>EQUIPMENT</b>							
Ground Segment	30	€ 100,00	€ 3.000,00	CSO € 69,77	Manager	488,37 €	
Air Segment	1	€ 250,00	€ 250,00	AM € 18,60		Junior Engineer	130,23 €
Cloud Segment	1	€ 2.500,00	€ 2.500,00	CTO € 23,26		Experienced Engineer	162,79 €
Software Licences		€ 0,00	€ 0,00	MM € 10,47		Unexperienced Non-technical	73,26 €
TRAVELS	4	€ 100,00	€ 400,00	€ 30,23	Senior Engineer	211,63 €	
PERSONNEL			€ 0,00		Note: Italian standards for a start-up		
<b>TOTAL DIRECT COSTS</b>							
INDIRECT COSTS		flat rate: 25%	€ 1.537,50				
<b>TOTAL COSTS</b>			€ 7.687,50				

# Project Management

**Do record the name of your teammates.**

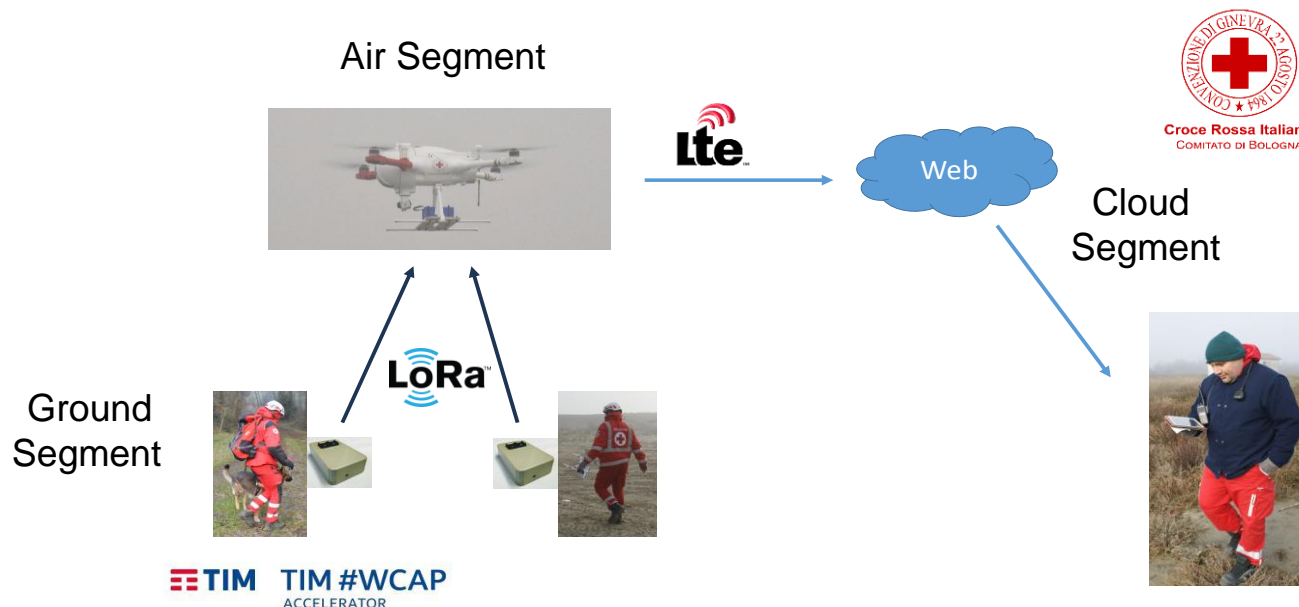
**I will send you an email requesting to fill a form – please react by following Wednesday**

# Project Management

## Interactive Session #4

Development and presentation (press conference) of a drone-based radio system for the support to rescue activities of the Red Cross.

See excel file



# Project Management

## Interactive Session #4

~~**ANY TEAM PRESENTING  
THEIR OUTCOME ?**~~

**IF YOU WISH TO DISCUSS IT NEXT WEEK:**

- 1) Write down clearly WBS, Gantt, Cost Analysis on paper**
  - 2) Take a picture of it with your smartphone**
  - 3) Send it to me via email with subject PMSS – IS4 by  
Wednesday 3, 6 pm**
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**See you next week**

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