



*iNTeg-Risk: Early Recognition, Monitoring and Integrated Management of Emerging, New Technology Related Risks*

## SP2 Planning of first months

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# Timing of SP2 WPs:

Activity	Time (months)								
	T <sub>0</sub>	M6	M12	M24	M30	M36	M40	M42	M54
WPs									
WP 2.1									
WP 2.2									
WP 2.3									
WP 2.4									
WP 2.5									
WP 2.6									
WP 2.7									
WP 2.8									
SP2									

Only WPs 2.1, 2.2, 2.3 and 2.4 have tasks with deliverables at month 12 (total: 9 tasks)

# Tasks having deliverables at M12:

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**WP2.1 – Task 2.1.4: Common Vocabulary**

**WP2.2 – Task 2.2.4: UML of emerging risk**

**WP2.2 – Task 2.2.7: Coordination & quality of SP2**

**WP2.3 – Task 2.3.1: Gap analysis**

**WP2.3 – Task 2.3.2: Models and methods**

**WP2.3 – Task 2.3.7: Modeling of perception**

**WP2.4 – Task 2.3.8: Bio-inspired models**

**WP2.3 – Task 2.3.9: Life-cycle assessment**

**WP2.4 – Task 2.4.1: KPIs for technology**

# Tasks having deliverables at M12:



## WP2.1 – T2.1.4

### T2.1.4: Common vocabulary of iNTeg-Risk

Participant (Number)	INERIS (30)	UNIBO (CONPRICI) (64)						
Person-Months per Participant	0.9	1						
Participant cost (€)	14750	10800						
Total Effort (Man-Months): 1.9								
Total COST (EUR): 25550								

A common vocabulary for the integ-risk project: The ERRAs will provide this glossary with terminologies to be included

**START : Now (even if M6 officially Scheduled)**

**1rst Release : M6**

2nd Release : M24

3rd Release : M36? (inconsistency with the end of WP2.1)

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# Tasks having deliverables at M12:



## WP2.2 – T2.2.4

### T2.2.4: UML of Emerging Risks - general principles (Emerging Risk Management) and IT aspects

Participant (Number)	EU-VRI (1)	Iberdrola (10)	BT (25)	USTUTT (ZIRN) (33)	VTT (41)	IVF (44)	EKON (59)	
Person-Months per Participant	1	1	3.5	2.5	3	9.5	4	
Participant cost (€)	14300	12320	62553	27200	46600	183950	40800	
Total Effort (Man-Months): 24.5								
Total COST (EUR): 387723								

The Task will deliver UML of emerging risks to model the structure and also be part of the structural foundation of the integrated risk management method.

**START : M6**

**3rd Release : M36**

**1rst Release : M12**

**Final : M42**

**2nd Release : M24**

# Tasks having deliverables at M12:



## WP2.2 – T2.2.7

### T2.2.7: Integration, scientific coordination and quality assurance in SP2

Participant (Number)	EU-VRI (1)	EDF (2)	UNIBO (CONPRICI) (64)					
Person-Months per Participant	0.1	15	5					
Participant cost (€)	1350	225045	54000					
Total Effort (Man-Months): 20.1								
Total COST (EUR): 280395								

The objective of this task is to provide scientific coordination, integration of the results of different workpackages and to assure the quality of the results coming from each of the workpackages. With a total proposed about 360 man-months effort in this subproject, this task aims to ensure proper resource utilization and avoidance of duplicate work among the participants.

**START : SP2 kick-off meeting (even if M6 officially scheduled)**

Confcall each first week of each month

# Tasks having deliverables at M12:



## WP2.3 – T2.3.1

**T2.3.1: Gap analysis to identify missing models and methods within the iNTeg-Risk Framework**

Participant (Number)	EU-VRI (1)	EDF (2)	D'Appolonia (13)	INERIS (30)	DTU (40)	IVF (44)	TUKE (57)	UNIRM (CONPRICI) (67)
Person-Months per Participant	0.1	1	3.5	0.5	0.9	0.5	3	1
Participant cost (€)	1350	14603	24600	7750	14372	10050	11300	10800
Total Effort (Man-Months): 10.5 Total COST (EUR): 94825								

**START : M6 (after T1.1.1 completion (template))**

**1st Release : M12**

**Final Release : M30**

Gap analysis between SP1 deliverables and Framework requirements in terms of methods and models development

# Tasks having deliverables at M12:



## WP2.3 – T2.3.2

**T2.3.2: Development of Models and methods for process developers and engineers**

Participant (Number)	EU-VRI (1)	D'Appolonia (13)	Pöyry (17)	LEIA (34)	VTT (41)			
Person-Months per Participant	0.1	1.8	3	0.75	2.5			
Participant cost (€)	1350	13040	39900	8458.25	40700			
Total Effort (Man-Months): 8.15								
Total COST (EUR): 103448.25								

**START : M6**

**1st Release : M12**

**Final Release : M30**

Provide with innovative tools (3D/virtual reality/hyper reality)  
for process developers and engineers involved in large  
projects



# Tasks having deliverables at M12:



## WP2.3 – T2.3.7

### T2.3.7: Modeling of perception of Emerging Risks

Participant (Number)	EU-VRI (1)	USTUTT (ZIRN) (33)	DTU (40)					
Person-Months per Participant	0.1	4	2.5					
Participant cost (€)	1350	40960	38500					
Total Effort (Man-Months): 6.6								
Total COST (EUR): 80810								

The objective of this task is to adapt and develop methods and tools for assessing and analysing the perception of emerging risks as held by stakeholders and the public at large

**START : M6**

**1st Release : M12**

**Final Release : M30**

# Tasks having deliverables at M12:



## WP2.3 – T2.3.8

### T2.3.8: Modeling of emerging risks based on bio-inspired models

Participant (Number)	EU-VRI (1)	MIT GmbH (14)	USTUTT (ZIRN) (33)					
Person-Months per Participant	1	5	1					
Participant cost (€)	14300	64100	10240					
Total Effort (Man-Months): 7								
Total COST (EUR): 88640								

Application of bio-inspired systems on emerging risks can have multiple benefits - on the one hand, bio-inspired systems can better model unknown compared to classical modelling systems, and on the other hand, using bio-inspired system can provide useful and often more effective alternative to conventional models. This task aims to provide guidance on the use of bio-inspired methods on modelling of emerging risks.

**START : M6**

**1st Release : M12**

**Final Release : M30**

# Tasks having deliverables at M12:



## WP2.3 – T2.3.9

### T2.3.9: Life-Cycle Methods and Tools for Emerging Risks

Participant (Number)	EU-VRI (1)	EU-VRI (2B ) (1)						
Person-Months per Participant	0.1	4.5						
Participant cost (€)	1350	68150						
Total Effort (Man-Months): 4.6 Total COST (EUR): 69500								

The objective of the task "Life-Cycle Methods and Tools for Emerging Risks" is to integrate two different schools: LCA and RA, creating a common language, developing guidelines and implementing case studies in the ERRAs, aiming at the incorporation of life cycle concepts (methods and tools) in the field of emerging risks.

**START : M6**

**1st Release : M12**

**Final Release : M30**

# Tasks having deliverables at M12:



## WP2.4 – T2.4.1

### T2.4.1: Development of KPIs for Technology

Participant (Number)	EU-VRI (1)	EDF (2)	R-Tech (9)	DNV (15)	INERIS (30)	TU Crete (37)	SINTEF (39)	TUKE (57)
Person-Months per Participant	1	1	1	1	0.5	0.2	0.9	4
Participant cost (€)	15100	14603	18400	19700	8550	2400	19511	15600
Participant (Number)	UNIBO (CONPRICI) (64)							
Person-Months per Participant	2							
Participant cost (€)	20800							
Total Effort (Man-Months): 11.6								
Total COST (EUR): 134664								

Development of an integrated system of indicators for new process development.

**START : M6**

**1st Release : M12**

**Final Release : M24**

# Actions required:



## Tasks having deliverables at M12:

WP2.1 – Task 2.1.4: Common Vocabulary

WP2.2 – Task 2.2.4: UML of emerging risk

WP2.2 – Task 2.2.7: Coordination & quality of SP2

WP2.3 – Task 2.3.1: Gap analysis

WP2.3 – Task 2.3.2: Models and methods

WP2.3 – Task 2.3.7: Modeling of perception

WP2.4 – Task 2.3.8: Bio-inspired models

WP2.3 – Task 2.3.9: Life-cycle assessment

WP2.4 – Task 2.4.1: KPIs for technology

Task leaders should propose an agenda before SP2 kick-off meeting (30/1/2009)

Task agenda should be validated by WP leaders at kick-off meeting

# Actions required:

**All other tasks in WPs 2.1, WP2.2, WP2.3 and WP2.4 starting at month 6 and having the first deliverable due after month 12:**

- ➡ **Task leader should provide an agenda during SP2 kick-off (January 30<sup>o</sup> 2009)**
- ➡ **WP leaders should verify and agree on the agendas of each task by month 4**

# Actions required:



**WP2.5 : Assessment and management of emerging risks - HANDBOOK of Recommended Practices (RP) for EMERGING RISKS (HER)**

**WP2.6 : Guidance documents produced by the work in the ERRAs and examples - How to apply the ERMF**

**WP2.7 : Data assessment, consolidation**

**WP2.8 : Basel II of Emerging Risks - Rating of emerging risks**

**To be started at M12!**

**Preliminary agenda by WP leaders at M6**