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CONTREX


Design of embedded mixed-criticality CONTRol systems under consideration of EXtra-functional properties

Project Duration

2013-10-01 – 2016-09-30

Type

IP

	WP no.	Deliverable no.	Lead participant
	WP7	D7.2.4	OFFIS
<h3>Report on the Wider Societal Implications of the Project</h3>			
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4.1 Report on societal implications

A General Information (completed automatically when Grant Agreement number is entered).	
Grant Agreement Number:	611146
Title of Project:	Design of embedded mixed-criticality CONTROL systems under consideration of EXtra-functional properties
Name and Title of Coordinator:	OFFIS
B Ethics	
1. Did your project undergo an Ethics Review (and/or Screening)? <ul style="list-style-type: none"> • If Yes: have you described the progress of compliance with the relevant Ethics Review/Screening Requirements in the frame of the periodic/final project reports? <p>Special Reminder: the progress of compliance with the Ethics Review/Screening Requirements should be described in the Period/Final Project Reports under the Section 3.2.2 'Work Progress and Achievements'</p>	No
2. Please indicate whether your project involved any of the following issues (tick box) :	Yes
RESEARCH ON HUMANS	
• Did the project involve children?	no
• Did the project involve patients?	no
• Did the project involve persons not able to give consent?	no
• Did the project involve adult healthy volunteers?	no
• Did the project involve Human genetic material?	no
• Did the project involve Human biological samples?	no
• Did the project involve Human data collection?	no
RESEARCH ON HUMAN EMBRYO/FOETUS	
• Did the project involve Human Embryos?	no
• Did the project involve Human Foetal Tissue / Cells?	no
• Did the project involve Human Embryonic Stem Cells (hESCs)?	no
• Did the project on human Embryonic Stem Cells involve cells in culture?	no
• Did the project on human Embryonic Stem Cells involve the derivation of cells from Embryos?	no
PRIVACY	
• Did the project involve processing of genetic information or personal data (eg. health, sexual lifestyle, ethnicity, political opinion, religious or philosophical conviction)?	
• Did the project involve tracking the location or observation of people?	no
RESEARCH ON ANIMALS	
• Did the project involve research on animals?	no
• Were those animals transgenic small laboratory animals?	no
• Were those animals transgenic farm animals?	no
• Were those animals cloned farm animals?	no
• Were those animals non-human primates?	no
RESEARCH INVOLVING DEVELOPING COUNTRIES	
• Did the project involve the use of local resources (genetic, animal, plant etc)?	
• Was the project of benefit to local community (capacity building, access to healthcare, education etc)?	

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DUAL USE		
• Research having direct military use		no
• Research having the potential for terrorist abuse		no
C Workforce Statistics		
3. Workforce statistics for the project: Please indicate in the table below the number of people who worked on the project (on a headcount basis).		
Type of Position	Number of Women	Number of Men
Scientific Coordinator	1	6
Work package leaders	2	8
Experienced researchers (i.e. PhD holders)	1	20
PhD Students	1	7
Other	3	19 +3(post-Master) +6 HW +SW engineers
4. How many additional researchers (in companies and universities) were recruited specifically for this project?		9
Of which, indicate the number of men:		07

D Gender Aspects		
5. Did you carry out specific Gender Equality Actions under the project?	<input type="radio"/> <input checked="" type="radio"/> x	Yes No
6. Which of the following actions did you carry out and how effective were they?		
<input type="checkbox"/> Design and implement an equal opportunity policy	Not at all effective	Very effective
<input type="checkbox"/> Set targets to achieve a gender balance in the workforce	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
<input type="checkbox"/> Organise conferences and workshops on gender	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
<input type="checkbox"/> Actions to improve work-life balance	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>	<input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/> <input type="radio"/>
<input type="radio"/> Other: <input style="width: 200px;" type="text"/>		
7. Was there a gender dimension associated with the research content – i.e. wherever people were the focus of the research as, for example, consumers, users, patients or in trials, was the issue of gender considered and addressed?		
<input type="radio"/> Yes- please specify <input style="width: 150px;" type="text"/>		
<input checked="" type="radio"/> No		
E Synergies with Science Education		
8. Did your project involve working with students and/or school pupils (e.g. open days, participation in science festivals and events, prizes/competitions or joint projects)?		
<input type="radio"/> Yes- please specify <input style="width: 150px;" type="text"/>		
<input checked="" type="radio"/> No		
9. Did the project generate any science education material (e.g. kits, websites, explanatory booklets, DVDs)?		
<input checked="" type="radio"/> Yes- please specify: Handbook chapter, lecture and webpage for ForSyDe tutorials and tools ; Master course Material and tools tutorials and manual to be used in Courses , : Hand book& book chapters. Material for Master courses;		
<input type="radio"/> No		
F Interdisciplinarity		
10. Which disciplines (see list below 23.) are involved in your project?		
<input type="radio"/> Main discipline ¹ : 1, 1.1, 2, 2.3	<input type="radio"/> Associated discipline ¹ : 1.1, 2.2	<input type="radio"/> Associated discipline ¹ : <input style="width: 100px;" type="text"/>
G Engaging with Civil society and policy makers		
11a Did your project engage with societal actors beyond the research community? (if 'No', go to Question 14)	<input checked="" type="radio"/> x <input type="radio"/> x	Yes No
11b If yes, did you engage with citizens (citizens' panels / juries) or organised civil society (NGOs, patients' groups etc.)?		
<input checked="" type="radio"/> No		
<input type="radio"/> Yes- in determining what research should be performed		
<input type="radio"/> Yes - in implementing the research		
<input checked="" type="radio"/> Yes, in communicating /disseminating / using the results of the project		

13c If Yes, at which level? <input type="radio"/> Local / regional levels <input type="radio"/> National level <input type="radio"/> European level <input checked="" type="radio"/> International level		
H Use and dissemination		
14. How many Articles were published/accepted for publication in peer-reviewed journals?	4 + (possibly 1)	
To how many of these is open access² provided?	0	
How many of these are published in open access journals?	1	
How many of these are published in open repositories?		
To how many of these is open access not provided?	2 +(1 in case of final acceptance)	
Please check all applicable reasons for not providing open access:		
<input checked="" type="checkbox"/> publisher's licensing agreement would not permit publishing in a repository <input type="checkbox"/> no suitable repository available <input type="checkbox"/> no suitable open access journal available <input checked="" type="checkbox"/> no funds available to publish in an open access journal <input type="checkbox"/> lack of time and resources <input checked="" type="checkbox"/> lack of information on open access <input type="checkbox"/> other ³ :		
15. How many new patent applications ('priority filings') have been made? <i>("Technologically unique": multiple applications for the same invention in different jurisdictions should be counted as just one application of grant).</i>	0	
16. Indicate how many of the following Intellectual Property Rights were applied for (give number in each box).	Trademark	0
	Registered design	0
	Other	4
17. How many spin-off companies were created / are planned as a direct result of the project?	0	
<i>Indicate the approximate number of additional jobs in these companies:</i>		
18. Please indicate whether your project has a potential impact on employment, in comparison with the situation before your project:		
<input checked="" type="checkbox"/> Increase in employment, or <input checked="" type="checkbox"/> Safeguard employment, or <input type="checkbox"/> Decrease in employment, <input checked="" type="checkbox"/> Difficult to estimate / not possible to quantify	<input checked="" type="checkbox"/> In small & medium-sized enterprises <input checked="" type="checkbox"/> In large companies <input type="checkbox"/> None of the above / not relevant to the project	

² Open Access is defined as free of charge access for anyone via Internet.

³ For instance: classification for security project.

<p>19. For your project partnership please estimate the employment effect resulting directly from your participation in Full Time Equivalent (FTE = one person working fulltime for a year) jobs:</p> <p>Difficult to estimate / not possible to quantify</p>	<p>Indicate figure:</p> <p>8</p>			
<h2>I Media and Communication to the general public</h2>				
<p>20. As part of the project, were any of the beneficiaries professionals in communication or media relations?</p> <p><input type="radio"/> Yes <input checked="" type="checkbox"/> No</p>				
<p>21. As part of the project, have any beneficiaries received professional media / communication training / advice to improve communication with the general public?</p> <p><input type="radio"/> Yes <input checked="" type="checkbox"/> No</p>				
<p>22 Which of the following have been used to communicate information about your project to the general public, or have resulted from your project?</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Press Release <input type="checkbox"/> Media briefing <input type="checkbox"/> TV coverage / report <input type="checkbox"/> Radio coverage / report <input checked="" type="checkbox"/> Brochures /posters / flyers <input type="checkbox"/> DVD /Film /Multimedia </td> <td style="width: 5%; vertical-align: top; text-align: center;"> x <input checked="" type="checkbox"/> </td> <td style="width: 45%; vertical-align: top;"> Coverage in specialist press Coverage in general (non-specialist) press Coverage in national press Coverage in international press Website for the general public / internet Event targeting general public (festival, conference, exhibition, science café) </td> </tr> </table>		<input type="checkbox"/> Press Release <input type="checkbox"/> Media briefing <input type="checkbox"/> TV coverage / report <input type="checkbox"/> Radio coverage / report <input checked="" type="checkbox"/> Brochures /posters / flyers <input type="checkbox"/> DVD /Film /Multimedia	x <input checked="" type="checkbox"/>	Coverage in specialist press Coverage in general (non-specialist) press Coverage in national press Coverage in international press Website for the general public / internet Event targeting general public (festival, conference, exhibition, science café)
<input type="checkbox"/> Press Release <input type="checkbox"/> Media briefing <input type="checkbox"/> TV coverage / report <input type="checkbox"/> Radio coverage / report <input checked="" type="checkbox"/> Brochures /posters / flyers <input type="checkbox"/> DVD /Film /Multimedia	x <input checked="" type="checkbox"/>	Coverage in specialist press Coverage in general (non-specialist) press Coverage in national press Coverage in international press Website for the general public / internet Event targeting general public (festival, conference, exhibition, science café)		
<p>23 In which languages are the information products for the general public produced?</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Language of the coordinator <input type="checkbox"/> Other language(s) </td> <td style="width: 5%; vertical-align: top; text-align: center;"> <input checked="" type="checkbox"/> </td> <td style="width: 45%; vertical-align: top;"> English </td> </tr> </table>		<input type="checkbox"/> Language of the coordinator <input type="checkbox"/> Other language(s)	<input checked="" type="checkbox"/>	English
<input type="checkbox"/> Language of the coordinator <input type="checkbox"/> Other language(s)	<input checked="" type="checkbox"/>	English		

Question F-10: Classification of Scientific Disciplines according to the Frascati Manual 2002 (Proposed Standard Practice for Surveys on Research and Experimental Development, OECD 2002):

FIELDS OF SCIENCE AND TECHNOLOGY

1. NATURAL SCIENCES

- 1.1 Mathematics and computer sciences [mathematics and other allied fields: computer sciences and other allied subjects (software development only; hardware development should be classified in the engineering fields)]
- 1.2 Physical sciences (astronomy and space sciences, physics and other allied subjects)
- 1.3 Chemical sciences (chemistry, other allied subjects)
- 1.4 Earth and related environmental sciences (geology, geophysics, mineralogy, physical geography and other geosciences, meteorology and other atmospheric sciences including climatic research, oceanography, vulcanology, palaeoecology, other allied sciences)
- 1.5 Biological sciences (biology, botany, bacteriology, microbiology, zoology, entomology, genetics, biochemistry, biophysics, other allied sciences, excluding clinical and veterinary sciences)

2. ENGINEERING AND TECHNOLOGY

- 2.1 Civil engineering (architecture engineering, building science and engineering, construction engineering, municipal and structural engineering and other allied subjects)

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- 2.2 Electrical engineering, electronics [electrical engineering, electronics, communication engineering and systems, computer engineering (hardware only) and other allied subjects]
- 2.3 Other engineering sciences (such as chemical, aeronautical and space, mechanical, metallurgical and materials engineering, and their specialised subdivisions; forest products; applied sciences such as geodesy, industrial chemistry, etc.; the science and technology of food production; specialised technologies of interdisciplinary fields, e.g. systems analysis, metallurgy, mining, textile technology and other applied subjects)
3. MEDICAL SCIENCES
- 3.1 Basic medicine (anatomy, cytology, physiology, genetics, pharmacy, pharmacology, toxicology, immunology and immunohaematology, clinical chemistry, clinical microbiology, pathology)
- 3.2 Clinical medicine (anaesthesiology, paediatrics, obstetrics and gynaecology, internal medicine, surgery, dentistry, neurology, psychiatry, radiology, therapeutics, otorhinolaryngology, ophthalmology)
- 3.3 Health sciences (public health services, social medicine, hygiene, nursing, epidemiology)
4. AGRICULTURAL SCIENCES
- 4.1 Agriculture, forestry, fisheries and allied sciences (agronomy, animal husbandry, fisheries, forestry, horticulture, other allied subjects)
- 4.2 Veterinary medicine
5. SOCIAL SCIENCES
- 5.1 Psychology
- 5.2 Economics
- 5.3 Educational sciences (education and training and other allied subjects)
- 5.4 Other social sciences [anthropology (social and cultural) and ethnology, demography, geography (human, economic and social), town and country planning, management, law, linguistics, political sciences, sociology, organisation and methods, miscellaneous social sciences and interdisciplinary, methodological and historical SIT activities relating to subjects in this group. Physical anthropology, physical geography and psychophysiology should normally be classified with the natural sciences].
6. HUMANITIES
- 6.1 History (history, prehistory and history, together with auxiliary historical disciplines such as archaeology, numismatics, palaeography, genealogy, etc.)
- 6.2 Languages and literature (ancient and modern)
- 6.3 Other humanities [philosophy (including the history of science and technology) arts, history of art, art criticism, painting, sculpture, musicology, dramatic art excluding artistic "research" of any kind, religion, theology, other fields and subjects pertaining to the humanities, methodological, historical and other SIT activities relating to the subjects in this group]