

The European Coordination Hub for Open Robotics Development



E++ 3rd Review Meeting

WP3 - Experiments

Paolo Dario

The BioRobotics Institute

Scuola Superiore Sant'Anna, Pisa, Italy

Luxembourg, February 13, 2017





















Objectives of WP3 - Experiments



- Regulatory framework governing the experiments based on ECHORD
- Implementation and improvement of the process
- Close cooperation with Quality Management (WP1)

13/02/17 P. Dario



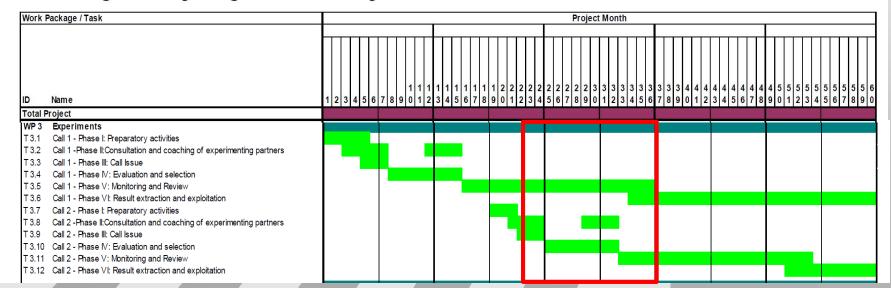
Summary WP3 - Experiments



Experiments

	Person-Months per Participar	nt
Participant number ¹⁰	Participant short name ¹¹	Person-months per participant
1	TUM	27.00
2	SSSA	45.00
3 4	UWE UNIVERSITAT POLITECN	0.50 10.50
	CEA	0.00
	Total	83.00

1.3.3 Timing of work packages and their components



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MN1

Main achievements during the 3rd period (WP3)



Experiments

- Selection of 16 experiments for Call 2
 - ✓ higher average scores compared to Call1: scientific
 quality average 4.47/5, (+ 0.27 compared to Call 1),
 4.25/5 for the implementation score (+0.08 compared to Call 1) and 4.44/5 for impact score (+0.40 compared to Call 1)
 - ✓ Increased success rate (14.0%) as compared to Call 1 (11.7%)
- Improved assignment of moderators to monitor Call 2
 - ✓ two specific figures as moderators: technical and managerial
- Improved reporting of the progress of the experiments
 - ✓ bimonthly traffic lights
- New procedure to evaluate the outcome of Call 1 experiments: all 15 experiments were reviewed on-site > new! procedure as compared to ECHORD

These main achievements do not match the ones we have in the Periodic Report. Can you please take a look and try to integrate also thise that are identified in the Periodic Report?

Marie-Luise Neitz; 09.02.2017

--1 In the report: the main achievements were the settlement of a Final Review Onsite for each experiment of Call 1 and the selection of 16 successful proposals for Call 2 and the improvements applied to the monitoring process.

-- I just added something about monitoring

--Annagiulia- -; 09.02.2017



Deliverables of the reporting Period

- D 3.4.2 Collection of documents with final ranking, evaluation reports, statistics and funding suggestion
- D 3.5.2 2nd six-monthly report on experiment progress and on reviews
- D 3.5.3 3rd six-monthly report on experiment progress and on reviews
- D 3.6.1 Final report on the outcome of the experiments



Milestones of the reporting Period

• MS5: second bunch of experiments and R&D partners for PCP Pilots selected (month 30)

13/02/17 P. Dario 5



Overview of tasks for WP3



Experiments

FIRST CALL

- Task 3.5: Call 1- Phase V: Monitoring and review
- Task 3.6: Call 1- Phase VI: Result extraction and exploitation

SECOND CALL

- Task 3.9: Call 2- Phase III: Call Issue
- Task 3.10: Call 2- Phase IV: Evaluation and selection
- Task 3.11: Call 2- Phase V: Monitoring and review

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Monitoring and Review



- Every 6 months → deliverable (D3.5.2 and D3.5.3) on the progress of the experiments
- Collection of **bi-monthly** info on :
 - Self assessment
 - Deliverables
 - Milestones
 - Technical KPIs
 - Impact KPIs
 - Dissemination KPIs

Mid-term review in June 2016 LA ROSES→
the experiment was granted a 4-month
extension



Monitoring and Review



	Janua	ry-Febru	uary 20	15	N	March-	April 20	015			→
	3DSSC	CoHRoS	DEBURR	DEXBUDDY		3DSSC	CoHRoS	DEBUR	DEXBUDDY		time
Assessment	3D33C	O	OEBUKK	O	Assessment	0	O	O DEBOK	O		time
Tech. KPIs					Tech. KPIs						
Imp. KPIs	Ŏ		ŏ	ŏ	Imp. KPIs		0				
Deliverables	ŏ	ŏ	ŏ	ŏ	Deliverables		O		0		
Milestones	0		0	0	Milestones						
Dissemination	Ö		Ŏ	0	Dissemination						
	EXOTRA	INER 2F	GAROTI	CS LA- ROSES		EXOTRAI	NER 2F	GAROT	ICS LA- ROSES		
Assessment		•			Assessment Tech. KPIs			-	 		
Tech. KPIs					Imp. KPIs						
Imp. KPIs					Deliverables						
Deliverables Milestones					Milestones			_		Bi-monthly	
Dissemination					Dissemination					Di-Inonthiy	
Dissemination										monitoring	
	LINARM-	++ MODUL	MOTORE	++ PICKIT		LINARM+	+ MODUL	MOTOR	E++ PICKIT	monitoring	
Assessment				0	Assessment		0	0	0	· / - cc:	
Tech. KPIs					Tech. KPIs		0	0	0	using 'Traffic	
Imp. KPIs					Imp. KPIs						
Deliverables					Deliverables					Light'	
Milestones					Milestones					LIBITO	
Dissemination					Dissemination					roprocontation	
	SAPARO	TIREBO	T MAR	5		SAPARO	TIREBO	T MAR	S	representation	
Assessment	0				Assessment	O					
Tech. KPIs					Tech. KPIs						
Imp. KPIs					Imp. KPIs						
Deliverables	0				Deliverables	0					
Milestones					Milestones						
Dissemination					Dissemination						
	One o	r more activ	ities plann	ed in the peri	od resulted in pos	sitive outco	me				
					od resulted slight						
			vities planr	ied in the per	iod resulted signi	ricantly bel	OW				
		ctations									
	No ac	uon toresee	n in the se	ected period							
3/02/17 P C	ario										

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Result extraction and exploitation

Contributors: TUM, SSSA

MONTH 34-60

 New: final reviews on-site for all 15 experiments

- MN2 -- [2]1
- For each review: 1 external expert, 1 core
 member of E++
- Experimenters duty:
 - Develop a final report and questionnaire
 - Set a one-day presentation (including demos)
- Evaluators duty:
 - Analyze the project
 - Participate in the review meeting
 - Provide two evaluation docs: evaluation of deliverables/milestones/KPIs; general recommendations for the project

Experiment	External Evaluator	Visiting site	Internal evaluator	Date
LINarm++	Eugenio Guglielmelli	Milan, Italy	Simona Crea (SSSA)	16 dec
Debur	Jordi Palacin	Eibar, Spain	Antoni Grau (UPC)	19 jan
Cohros	Dr Makris	Bielefeld, Germany	Yannick Morel (TUM)	20 jan
2F	Jordi Palacin	Poggibonsi, Italy	Antoni Grau (UPC)	26 jan
Tirebot	Stefania Pellegrinelli	Correggio, Emilia, Italy	Raffaele Limosani (SSSA)	6 dec
Garotics	Prof. Francisco Rovira- Más	Buxtehude, Germany	Francesco Maurelli (TUM)	5 dec
3DSSC	Patrick van der Smagt	Belsele, Belgium	Yannick Morel (TUM)	beginning of february
Mars	Slawomir Sander	Marktoberdorf, Germany	Francesco Maurelli (TUM)	17-nov
EXOTrainer	To be defined	Spain	Hardik Shah (TUM)	Jan 2017
Pickit	Rui Loureiro	Madgeburg, Germany	Fabio Bonsignorio (SSSA)	18-nov
Saparo	Rui Loureiro	Madgeburg, Germany	Fabio Bonsignorio (SSSA)	18-nov
MODUL	Stefania Pellegrinelli	Zurich, Switzerland	Fabio Bonsignorio (SSSA)	16 september
LA ROSES	Andreas Muller	Pisa, Italy	Hardik Shah (TUM)	4 jan
MOTORE++	Andreas Muller	Pisa Italy	Hardik Shah	14, 15 september
DEXBUDDY	Patrick van der Smagt	Karlsruhe, Germany	Fabio Bonsignorio	29 july

TUM UPC

Management of the Reviews

Folie 9

Checkl the table. I think that some of the reviews have been managed by TUM, for instance DEXBUDDY Marie-Luise Neitz; 09.02.2017 MN2

-- [2]1 fixed

--Annagiulia- -; 09.02.2017

Task 3.6: Call 1- Phase VI Result extraction and exploitation



MONTH 34-60

	TIREBOT	MOTORE++	LINARM++	LA ROSES	GAROTICS	MARS	PICKIT	SAPARO	3DSSC	2F	DEBUR	COHROS	DEXBUDDY	EXOTRAINER	MODUL
Milestone															
Deliverable															
Technical															
KPIs															
Impact KPIs															
Disseminatio															
n KPIs															



- → outcome **slightly** below the expectations
- outcome **significantly** below the expectations
 - The evaluation of each parameter is based on the average of each item
 - Exceptions:
 - ✓ If at least one red light → decreased ranking
 - ✓ if no website available → decreased ranking

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Overview of tasks for WP3



Experiments

Recommendations

R2a: Experiments move along a timeline (or value chain, see R1b) which ideally starts with the idea and ends with a marketable product. They should describe how they have progressed and where they stand in this process. The status could be visualized (e. g. using a "slider" or TRL scale). This would work well in combination with the traffic light approach.

R1b: Expand on the ECHORD++ slogan idea "From the Lab to the Market" with a value chain giving more details about where ECHORD++ and its instruments make the difference.





Result extraction and exploitation

Contributors:
TUM, SSSA

MONTH 34-60

TIREBOT

Development of a mobile robotic assistant that takes care of transporting wheels

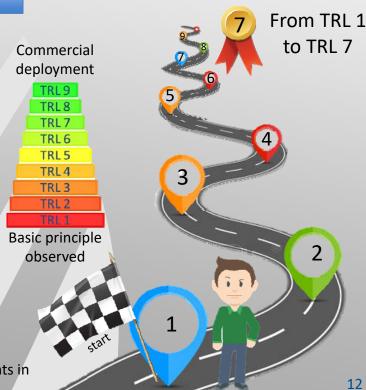


- The objectives were successfully achieved
- The work is of industrial interest
- The collaboration among academic and industrial partners has been really deep
- New algorithms for the online adaptation of safety have been implemented
- Safety was deeply analized

CONs

- The results of TIREBOT project are at TRL7, instead of the declared TRL8.
- Mitigations from initial DOW were applied since visual tags and markers were used
- Usability was evaluated by questionnaire and results were presented only as qualitative





Folie 12

MN14 These roads show the end point, but not the starting point. It should be clear from which starting point they started their travel.

Marie-Luise Neitz; 09.02.2017

-- [3]1 The starting point is the black and white flag, I added the caption "start" -- Annagiulia- -; 09.02.2017

Result extraction and exploitation

MONTH 34-60



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MOTORE++

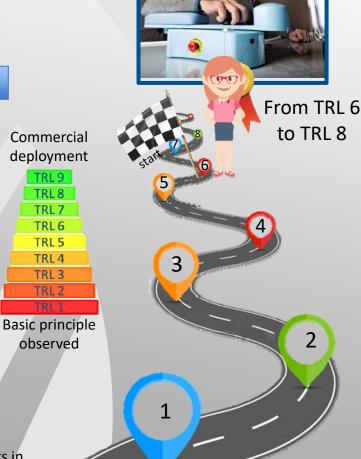
Development of a rehabilitation robot to restore upper limb functionality

PROs

- The experiment has performed excellently overall
- Deliverables are of good quality and all milestones are reached
- All KPIs in technical and impact are reached
- The product has received CE certification and 6 units have been already delivered

CONs

- There were some delays (due to supplier issues)
- Some deliverables (Story Board and MultiMediaReport) are missing
- Dissemination activities were not conducted as promised



MN3

The TRL Level illustrated does not match the information given in the Oeriodic Report where the TRL is at 7 at the end. This also is in line with the graph you integrated below. Marie-Luise Neitz; 09.02.2017



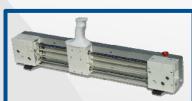
Contributors: TUM, SSSA

Result extraction and exploitation

MONTH 34-60

LINARM++

Development of a multisensory and multimodal device for neuromuscular rehabilitation of the upper limb

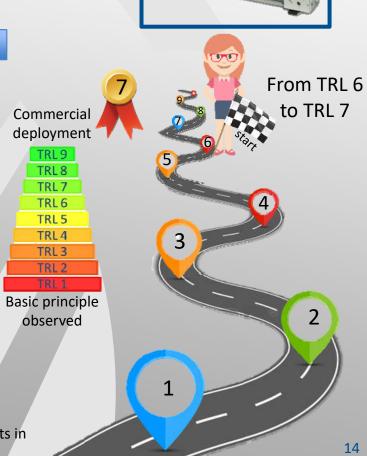


PROs

- The **overall evaluation** of the project is **positive**
- Most of the milestones have been achieved on time and reports of good quality have been timely delivered
- Commendable achievements in the engineering of the smart wearable modules for recording physiological signals → large market potential

CONs

- Extensive clinical research activities still required to prove the efficacy
- The proposed variable stiffness actuation system has significant limitations > risk in the deployment to the market
- Proper strategies for IPR management should be carefully analyzed to attract industrial interest



Folie 14

MN4 The TRLn Level given is not consistent with the information given in the Periodci report where the TRL at the end is rated at 7. This also matches the graph you have integrated below. Marie-Luise Neitz; 09.02.2017

-- [4]1 done

--Annagiulia- -; 09.02.2017

Result extraction and exploitation

Contributors: TUM, SSSA

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MONTH 34-60

GAROTICS

Development of a new gripping mechanism for an automatic harvesting systems for green asparagus

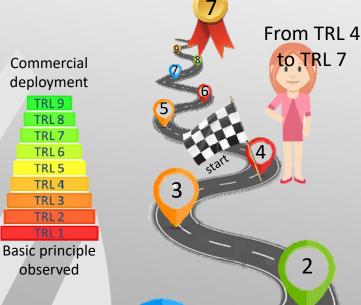


- The project can be considered satisfactory and successful
- Customer usability: important network already demanding higher autonomy in this field
- The machine can be pulled by a regular tractor
- Efficient strategy devised for the movement of the gripper

CONs

- The problem of real time detection of asparagus not fully solved due to some occlusions caused by the gripper close to camera
- Recommendable to start defining the intellectual property (IP) policy to protect key algorithms and gripper designs
- Long-term reliability and endurance tests need being scheduled for upcoming developments





Result extraction and exploitation

Contributors: TUM, SSSA

MONTH 34-60

MARS

Development of a small and stream-lined mobile agricultural robot for the seeding process for corn performed by two robots

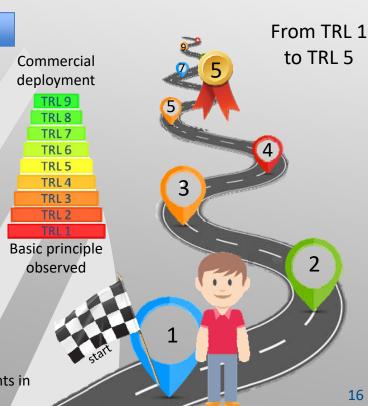


PROs

- Two robots have been able to perform a combined seeding task in real conditions
- The UX interface is nice
- Both SW and HW were operational and results promising

CONs

- The number of seeds germinated has not been validated quantitatively
- The number of successful seed placements is not known
- The maximum mission time has not been validated with experiments



Result extraction and exploitation

Contributors: TUM, SSSA

MONTH 34-60

PICKIT

Development of a commercially available vision based bin-picking system to handle a variety of objects

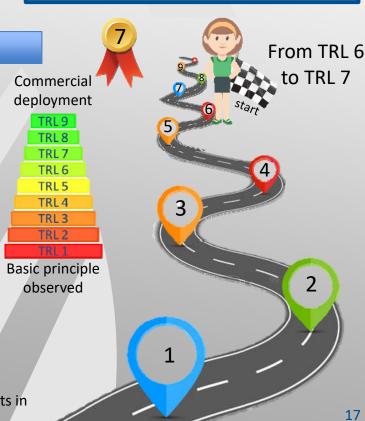


PROs

- The bin-picking application shows significant progress in the SoA
- Quite impressive capability to pick transparent glasses
- The objectives have been met
- There is a significant potential for exploitation in real industrial settings

CONs

 Even though the results are promising, they require additional work because in certain lighting conditions, when the number of glasses is lower than 3, sometimes the system is unable to identify the objects



Result extraction and exploitation

Contributors: TUM, SSSA

MONTH 34-60

SAPARO

Combination of a pressure-sensitive tactile floor with a projection system to ensure safe human-machine interaction in the work cell

PROs

- •Impressive demonstration of human-robot collaborative interaction in an industrial setting
- Safe human-machine interaction ensured in the work cell
- •Potential for commercialization is high (TUM purchased a system for its own use)
- •Strong commitment towards exploitation from the industrial partner

CONs

- RIF visit not possible but verified from initial results
- Some dissemination activities were not performed, but other opportunities were found







Result extraction and exploitation

Contributors: TUM, SSSA

MONTH 34-60

DEBUR

Design and set up of an automated robotic station for laser deburring of metal castings of threedimensional, high quality, complex parts



PROs

- •The results **fulfilled the expectations**
- •Cost reduction up to 20%
- •Volume of lubricants and abrasives reduced by 30%
- •Reduction of scrap parts by 30%

CONs

- •The deliverables were uploaded in the ECHORD portal, although with some delays
- •Difficulties in the reduction of the protrusion (keep it below 0.2mm)
- Eventually, experimenters visited the Bristol RIF although some difficulties were encountered in the contact and execution of the visit

Commercial deployment
TRL9
TRL8
TRL7
TRL6
TRL5
TRL4
TRL3
TRL2
TRL1
Basic principle observed



Result extraction and exploitation

Contributors:
TUM, SSSA

MONTH 34-60

DEXBUDDY

Dexterous robotic co-worker for real industrial scenarios



PROs

- •The project is ambitious and has **good industrial relevance**
- •The resulting vision component is hand-crafted which works but lacks robustness

CONs

- •The choice of hardware is not clear
- •Results are not publishable nor usable in a real scenario
- •The dissemination of the results are not in line with the project proposal





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Result extraction and exploitation

Contributors: TUM, SSSA

MONTH 34-60

COHROS

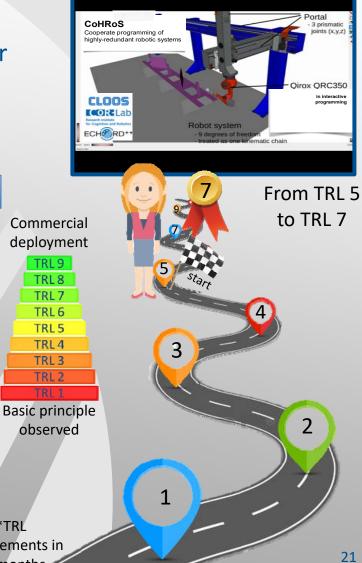
Development of a practical and robust method for assistive teaching



- The results showed potential to enhance programming of complex applications
- Incremental improvements were made mainly on the interaction aiming to eliminate the part of the kinesthetic teaching and partially in robot learning

CONs

- •The method was implemented and tested only partially
- •The progress made was limited by the reduced effort invested in validation of the technology
- Comparison with company's commercial products not considered



Result extraction and exploitation

Contributors: TUM, SSSA

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MONTH 34-60

MODUL

Development of a Series Elastic Actuation (SEA) unit which will be modular and suited for outdoor operation

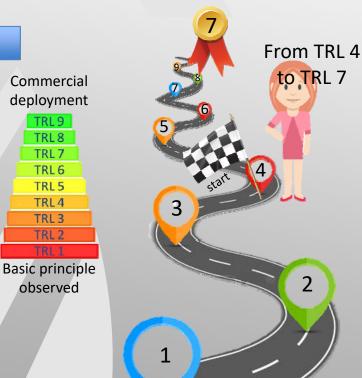


PROs

- •The project successfully reached and even exceeded the objectives
- •The product is **ready for industrialization** (TRL7)
- •The exploitation plans are convincing
- •In September 2016, a spinoff company was founded (8 people, 1.5 M€ investement)

CONs

•The consortium justified the missed visit to BRL RIF since they had more dedicated infrastructures than in Bristol



Result extraction and exploitation

Contributors:
TUM, SSSA

MONTH 34-60

2F

Development of a co-working robot for specific floor building functions: grout removal and floor washing with acid

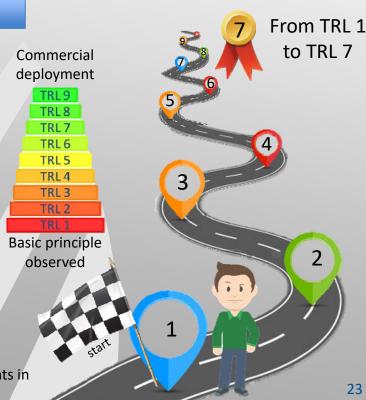


PROs

- •The on-site review revealed that the real work is largely better that the documentation delivered via the portal
- •The work is satisfactory and the experiment passes the evaluation
- •The experimenters have developed a **nice prototype** that, after some and huge refinements, **can be an industrial product**

CONs

- •Large delays in some delivarables, and lack of clarity in most of them
- •Deliverables did not demostrate the real work that experimenters did
- •The final report has been delivered again because it was very weak and did not demonstrate the reality of the experiment at its closure



Task 3.6: Call 1- Phase VI Result extraction and exploitation



MONTH 34-60

3DSSC

• JUST EVALUATED (February 10, 2017)

EXOTRAINER

TO BE EVALUATED (end of February 2017)

LA ROSES

EVALUATION BEING FINALISED BY EXPERTS

13/02/17 P. Dario

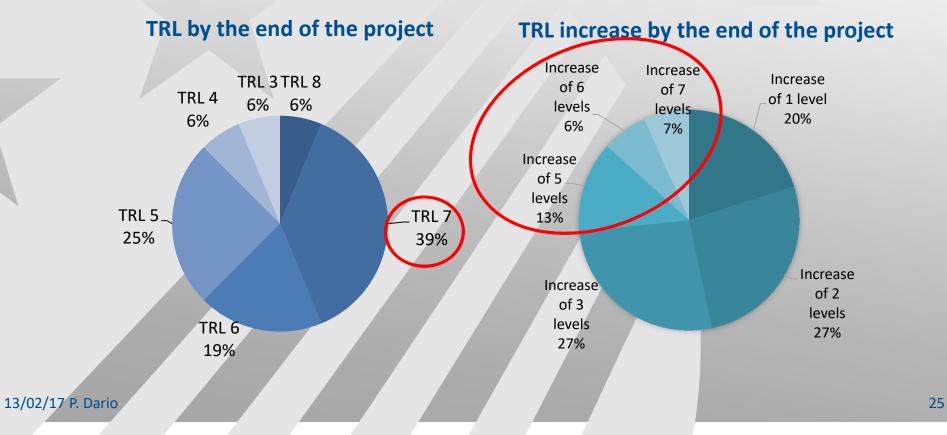
24

Task 3.6: Call 1- Phase VI Result extraction and exploitation

Contributors: TUM, SSSA

MONTH 34-60

- 27% developed a product with at least one additional application
- 80% claim they will increase the cross-application of their product
- 2 experiments (TIREBOT, MODUL) intend to promote a spin-off
- 1 experiment (MOTORE++) obtained the CE mark



Result extraction and exploitation

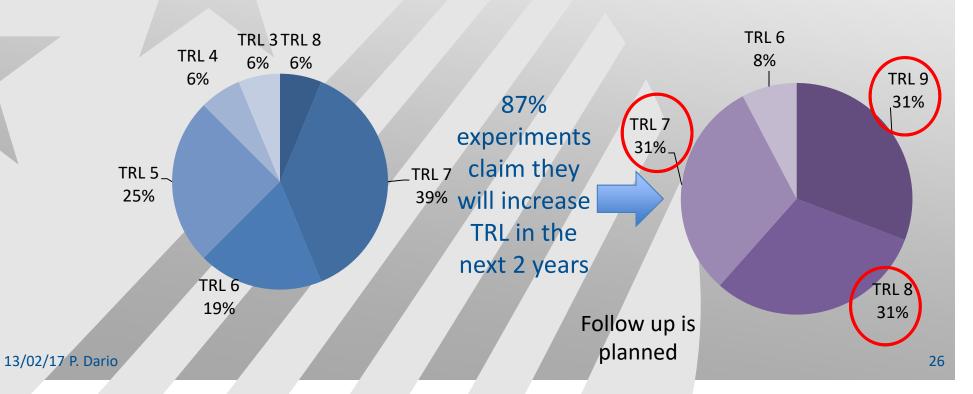
MONTH 34-60



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- 2 experiments (TIREBOT, MODUL) intend to promote a spin-off
- 1 experiment (MOTORE++) obtained the CE mark

TRL by the end of the project

Expected TRL in the next 2 years

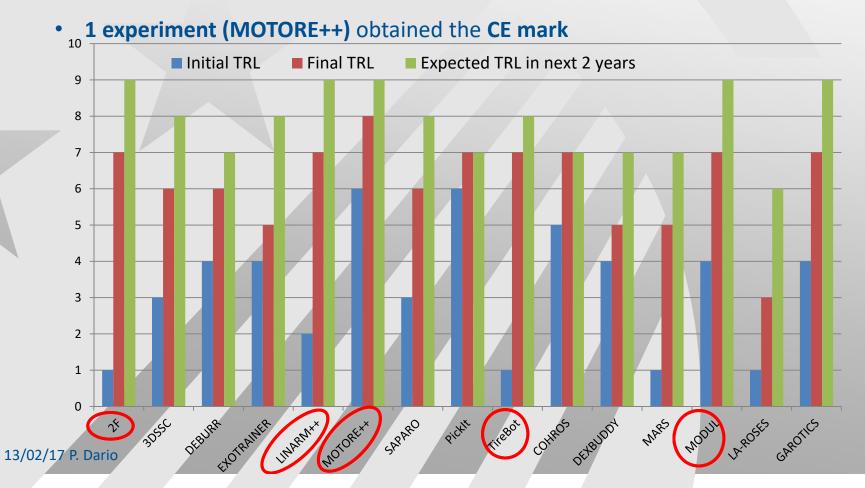


Result extraction and exploitation

MONTH 34-60



- 27% developed a product with at least one additional application
- 80% claim they will increase the cross-application of their product
- 2 experiments (TIREBOT, MODUL) intend to promote a spin-off



MN5 -- [5]1

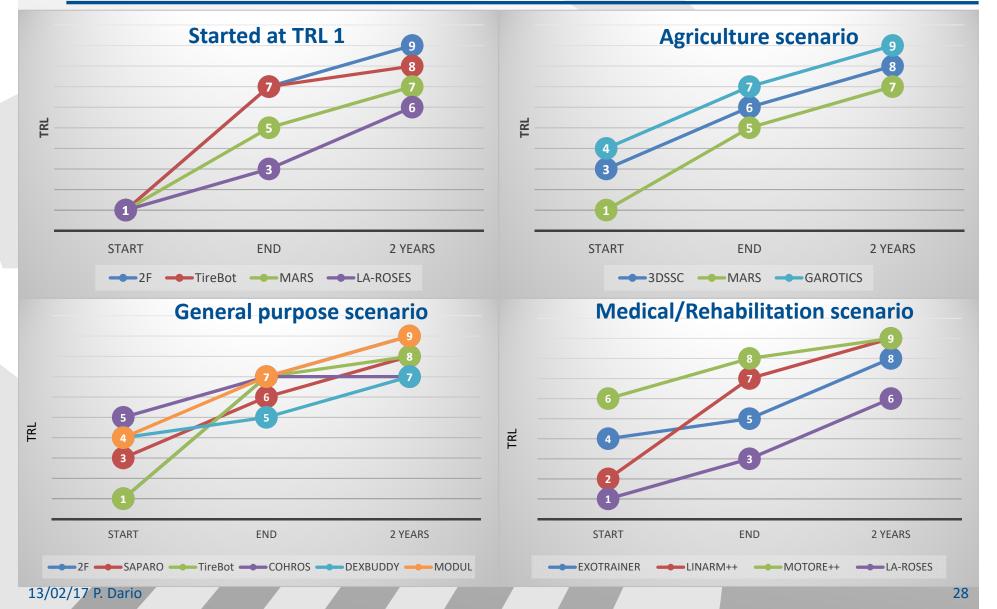
		\sim
-0	IΙΔ	7/

Folie 27	
MN5	Question which might come: Pickit does not want to further increase the TRL Level. Will they stop working on the technology? Marie-Luise Neitz; 09.02.2017
[5]1	they said that the TRL in the next 2 years is "N/A" but since they provided some other information about the next 2 years (i.e., jobs creation) I think they will keep on working on it what should I put?Annagiulia; 09.02.2017

Task 3.6: Call 1- Phase VI Result extraction and exploitation

Contributors: TUM, SSSA

MONTH 34-60

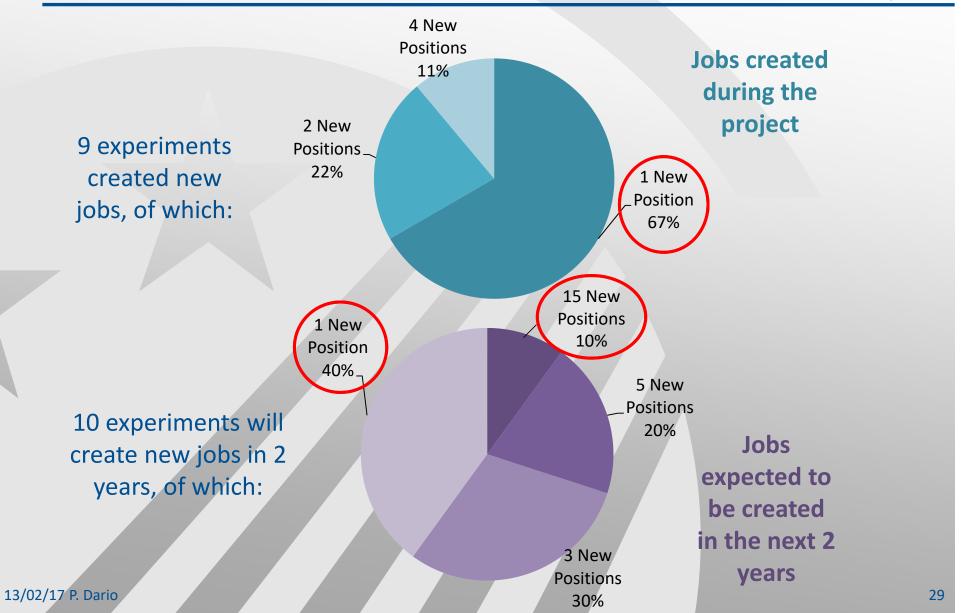


Task 3.6: Call 1- Phase VI -- [6]



Result extraction and exploitation

MONTH 34-60



Folie 29

Annagiulia: Maybe we can discuss about these graphs. Marie-Luise Neitz; 09.02.2017 MN7

-- [6]1 ok

--Annagiulia- -; 09.02.2017

Task 3.6: Call 1- Phase VI

Summary of data

Contributors: TUM, SSSA

MONTH 34-60

Experiment	Patents	# Jobs	Turnover	Patents	# Jobs	Turnover
MODUL	1	4	0	1	15	2M
3DSSC	1	2	0	2	6	400K - 1.2M
MOTORE++	0	2	120K	0	1	200K
EXOTRAINER	0	1	0	0	5	1.5M
TireBot	0	1	N/A	1	1	N/A
COHROS	0	1	0	0	0	N/A
DEXBUDDY	0	1	0	1	5	450K
MARS	0	1	N/A	5	1	N/A
LA-ROSES	0	1	N/A	1	2	N/A
2F	0	0	0	1	0	N/A
DEBURR	0	0	0	0	2	150K
LINARM++	0	0	0	1	1	N/A
SAPARO	0	0	N/A	1	2	N/A
PickIt	0	0	0	1	1	N/A
GAROTICS	0	0	0	1	3	500K

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Objectives of WP3- Experiments



Experiments

FIRST CALL

- Task 3.5: Call 1- Phase V: Monitoring and review
- Task 3.6: Call 1- Phase VI: Result extraction and exploitation

SECOND CALL

- Task 3.9: Call 2- Phase III Call Issue
- Task 3.10: Call 2- Phase IV: Evaluation and selection
- Task 3.11: Call 2- Phase V: Monitoring and review

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|--|--|

MN8	The slide with the objectives comes too late from my understanding. Marie-Luise Neitz; 09.02.2017
[7]1	they are already in slide number 5,if you see the animation, I make "first call" disappear meaning that now we are switching to call 2Annagiulia; 09.02.2017



Task 3.10: Call 2- Phase IV

Contributors: TUM, SSSA

Evaluation and Selection

Cyprus

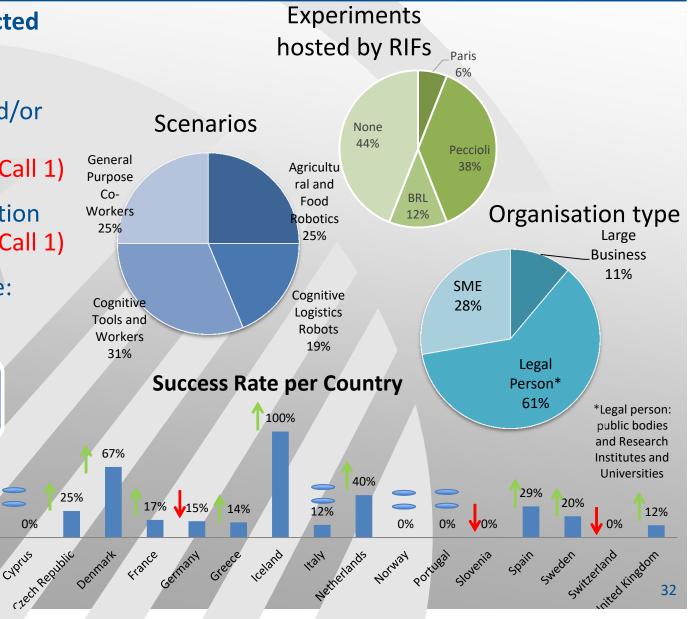
MONTH 25-32

16 experiments selected

- Organizations: 47
- Average scientific and/or technological quality score: 4.47/5 (+0.27 Call 1)
- Average implementation score: 4.25/5 (+0.08 Call 1)
- Average impact score: 4.44/5 (+0.40 Call 1)

Success rate 14% (11.7% Call 1)

13/02/17 P. Dario



Folie 32

MN9 This slide is not clear to me. The pie charts with the scenarios and the organization types are fine. The pie chart which refers to the RIFs seems to be decoupled. It gives the message that Marie-Luise Neitz; 09.02.2017

-- [8]1 I changed the format so now they are all the same and put the titles

--Annagiulia- -; 09.02.2017

Task 3.11: Call 2- Phase V Monitoring and Review



- Lesson learnt from Call 1: more communication to support the correct development of the experiment
- New: division between one technical moderator and one managerial moderator for each experiment
- Same monitoring approach (different portal): bi-monthly assessment, deliverables, KPIs (technical, dissemination, impact)
- KPIs defined in collaboration with experimenters → increased feasibility and perceived as real incentives
- 3 additional female moderators involved in the process → improved gender balance

4	Α	С	D
1	Acronym	Technical Moderator	Management Moderato
2			
3	AAWSBE1	CEA	SSSA-Manuele Bonaccor
4	CATCH	UPC - Josep K	SSSA- Raffaele Esposito
5	CoCoMaps	тим	CEA
6	DUALARMWORKER	SSSA- Annagiulia	UPC - Ana
7	FASTKIT	CEA	тим
8	FlexSight	SSSA- Raffaele Limosani	UPC - Ana
9	GRAPE	UPC - A Grau	SSSA- Stefano Betti
10	HOMEREHAB	CEA	TUM
11	HyQ-REAL	тим	SSSA- Laura Fiorini
12	INJEROBOT	UPC - A Grau	SSSA- Alessandra Mosch
13	Keraal	CEA	SSSA-Abdul BUTT
14	MAX ES	тим	UPC - Ana
15	RadioRoSo	TUM, UPC - A Grau	SSSA- Grazia Pastucci
16	SAFERUN	тим	UPC - Ana
17	SAGA	SSSA- Alessandro Manzi	тим
	WIRES	SSSA- Ilaria Strazzulla	TUM

CEA

SSSA

TUM

UPC

MN12 | Task 3.11: Call 2- Phase V

Monitoring and Review

Contributors: MONTH 33-60 TUM, SSSA, UPC, CEA

- Every 6 months → deliverable (D3.5.3)
 on the progress of the experiments
- Collection of **bi-monthly** info on:
 - Self assessment
 - Deliverables
 - Milestones
 - Technical KPIs
 - Impact KPIs
 - Dissemination KPIs

DUALARMW INJEROBOT SAGA FLEXSIGHT

Assessment

Tech. KPIs
Imp. KPIs
Deliverables
Milestones
Dissemination

	MAX ES	AAWSBE1	WIRES	KERAAL
Assessment	0	0	0	0
Tech. KPIs				
Imp. KPIs				
Deliverables		0	0	0
Milestones				0
Dissemination			0	0

	SAFERUN	RADIOROSO	HOMEREHAB	FASTKIT
Assessment	0	0	0	0
Tech. KPIs	0			•
Imp. KPIs	0			•
Deliverables	0	0		
Milestones	0			
Dissemination	0		0	

	COCOMAPS	GRAPE	CATCH	HYQ-REAL
Assessment	0	0	0	0
Tech. KPIs				
Imp. KPIs				
Deliverables		0	0	0
Milestones				
Dissemination			0	Q

- One or more activities planned in the period resulted in positive outcome
- One or more activities planned in the period resulted slightly under expectation
- One or more activities planned in the period resulted significantly below expectations
- No action foreseen in the selected period

Folie 34

We should be prepared to answer the question concerming the meaning of this - they are a spotlight of the period, but they are not added up. Marie-Luise Neitz; 09.02.2017 MN12

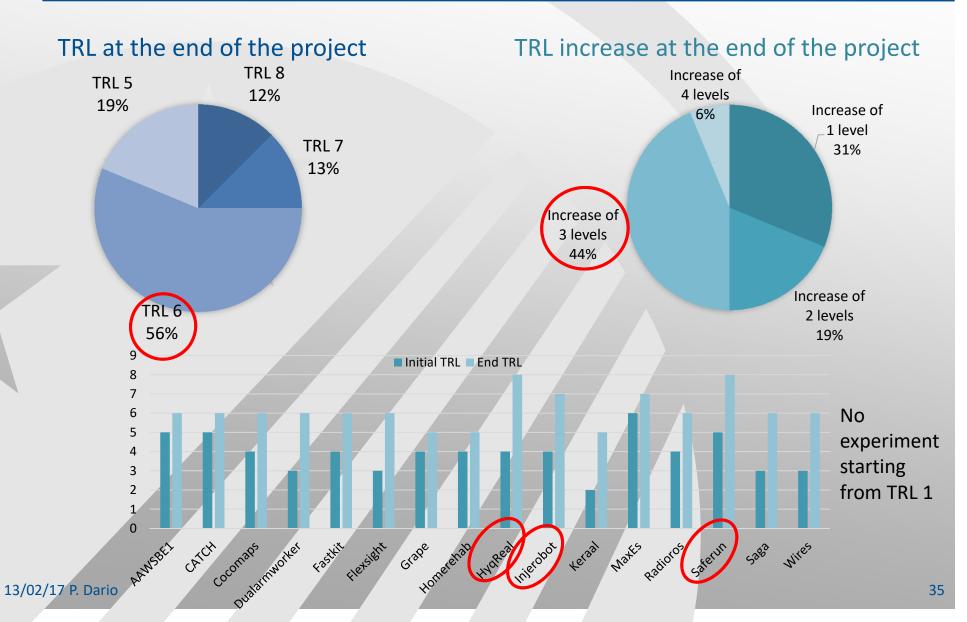
-- [11]1 what it means exactly?

--Annagiulia- -; 09.02.2017

Task 3.11: Call 2- Phase V MN13 -- [12]

Monitoring and Review

Contributors: MONTH 33-60 TUM, SSSA, UPC, CEA



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MN13 The content of this slide would be better directly after the pcitures with the TRL increases.

Marie-Luise Neitz; 09.02.2017

-- [12]1 This is Call 2 and this is the first time we talk about TRL about Call 2 (slides 22.23.24 are about Call 1)

--Annagiulia- -; 09.02.2017



Summary of WP3 – 3rd periodic report



Experiments

- 15 projects evaluated through bi-monthly reports and final onsite reviews
- MOTORE++ and MODUL showed most relevant outcomes and additional 10 experiments obtained successful evaluations
- KPIs defined in collaboration with experimenters → increased feasibility and perceived as real incentives
- 3 additional female moderators involved in the process > improved gender balance
- 16 projects currently evaluated through bi-monthly reports and improved monitoring method
- On-site reviews proved to be extremely useful to assess the actual technological development, especially for those unable to properly transfer results on the portal
- The value chain tool enable us to analyse the actual progress of Call 1 experiments and will provide a support to achieve a better evaluation on Call 2 experiments



Thank you. Questions?

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