

Deliverable D1.2.6

Sixth six-monthly QM Report

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Date	Name	Changes/Comments
07.10.2016	Marie-Luise Neitz	Assessment of strategic KPIs
14.12.2016	Marie-Luise Neitz	Inclusion of acceptance of Amendment IV (Call 2 experiments) to assess strategic KPI on "time-to-grant" and "palnning security" in this report; Update of the entire strategic KPI table
05.01.2017	Marie-Luise Neitz	Inclusion of the dissemination of outreach KPIs for Julyy 2016 – December 2016, as evaluation is done every six months, not syn- chronized with submission of QM report. KPIs for RIFs included for the first time.
27.01.2017	Marie-Luise	Overview of KPIs for Call I experiments in- cluded after final reviews of experiments are



mostly done. Risk contingency plan updated (redress of PDTI and two winning teams at
the end)



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1 ECHORD++ Report on Performance Indicators (KPIs)

While the umbrella document of the QM deliverable (D1.2.3._a) outlines the methodology used to track / assess the performance of the different instruments of ECHORD++, this second part of the deliverable reports on the results of this assessment and will be updated every six months.

1.1 Strategic Performance Indicators

The Strategic Performance Indicators have to reflect those aspects which are important to make E++ a success. The target values are based on the lessons learned from ECHORD and are geared to the expectations of the different target groups. Important to note: These indicators were fixed from the perspective of the users – irrespective of the fact if the members of the core consortium are able to influence them to full extent. Only if the cooperation of all stakeholders works – core consortium, external users and European Commission – the target values can be met.



Indicator	Assess- ment	Instru- ment	Target value	De-facto M34 – M39	
Time-to-grant	The time span be- tween call deadlines and the ac- cepted Grant Agreement	Call II ex- periments	9 months	Call deadline: 23.06.2015 Grant Agree- ment ac- cepted: 28.11.2016 Result: 17 months (in- stead of 9)	
Payment disci- pline	Time span between the submission of a Periodic Report and actual pay- ments	No Cost Claims processed during this period	6 months	Not relevant n.a. for 6 th QM re- port	
Planning secu- rity	Amend- ments: time span be- tween Amendment session opened in the NEF and signed Amendment	Call II Experiments	6 months between opening of the Amend- ment Ses- sion and signed Amendment request	NEF session open: 27.04.2016 Grant Agree- ment ac- cepted: 28.11.2016 Result: 7 months in- stead of 6 months).	
No of SMEs in- volved	Number of Small and Medium Sized com- panies in- volved in the project for all instruments	Experi- ments Call II RIFs	Experi- ments: 25% of the appli- cants RIFs: as outlined in the RIF handbook	Call II experi- ment: 109 out of 291 (37%), 12 out of 40 partners are self-declared SMEs (30%) 459 SME en- gagements over 315 over the reporting period	
No of newcom- ers without any former partici- pation in EU- funded pro- jects	Number of newcomers involved in the project for all instru- ments	Call II Ex- periments RIFs	Experi- ments: 25% of the appli- cants	QM report 6: Call II part- ners: 6 provi- sional and one sleeping PIC	



				(7 out of 40, (18%)	
			RIFs: start-	38 / 12	
			ups en-		
0	Destaute	E :	gaged	4.4	
Strengthening	Projects in	Experi-	Experi-	14 out of 16	
the collabora- tion between	which indus- trial partners	ments PDTI:	ments: 90% of the mixed	experiments in Call II have	-
industry and	and aca-	Willing-	consortia	mixed consor-	
academia	demic part-	ness to	oonoonda	tia	
	ners work to-	participate	PDTI: 90%	6 out of six	
	gether (dur-	with new	of the mixed	consortia of	
	ing the	partners in	consortia	Phase I of	
	runtime of	future aca-		PDTI have	
	E++ and af-	demia-in-		mixed consor-	
	terwards)	dustry pro- jects		tia	
Networking:	Number of	Experi-	Experi-	13 out of 15	
Motivate new	new contacts	ments	ments: 75%	experiments	
contacts which	gained by	PDTI	of the ex-	of Call I de-	
offer the poten-	working on		perimenting	clared to ei-	
tial for future	one of the in-		partners	ther have or	
collaboration in research	struments of ECHORD++.		gained at least one	expect at least one new col-	
projects or			new con-	laboration	
business leads			tact.	(87%)	
			PDTI: 75%	Not relevant	n.a.
			of the PDTI	yet. Will be	
			partners	evaluated first	
			gained at		
			least one	Phase II of PDTI ended.	
Contribution to	The techno-	Experi-	Experi-	10 out of 14	
advancing the	logical / sci-	ments	ments: 80 %	experiments	•
state-of-the art	entific tar-	Call I	of all experi-	reached their	
(technological	gets are out-	PDTI	ments se-	targets (71%)	
progress)	lined in the	Phase I	lected for		
	proposals	RIFs	funding		
			meet the		
			technologi- cal targets		
			outlined in		
			their KPI		
			documents.		
			PDTI: Two	Two strong	
			consortia for each sce-	consortia could be iden-	-
			nario reach		
		1		1	



			their targets (even with a different ap- proach) and deliver a prototype at the end of their en- gagement. New pa- tents and similar New prod- ucts / pro- cesses	tified by independent experts at the end of Phase I of PDTI for healthcare and sewer 8 out of 8 new patents; 42 /52	•
Impact achieved by the individual technological instruments of E++	The impact targets are outlined in the KPI doc- uments (ex- periments, PDTI); im- pact for RIF takes time to materialize, outcome will be quantified at a later stage. PDTI Phase II with first monitor- ing results will be re- ported in next QM re-	Experi- ments PDTI RIFs	Experi- ments: 80 % of all ex- periments selected for funding achieve the impact out- lined in their KPI docu- ments RIFs: as outlined in the RIF handbook, detailed in the RIFs re- sults	7 out of 14 experiments met their target im- pact. Audience en- gagement: outperforming Job creation: slightly under- performing new patents and products: on target	•
Performant, strong pro- posals re- ceived: - For the experi- ments - For PDTI	The potential scientific / technologi- cal success of E++ heav- ily depends on the qual-	Experi- ments Call II	Experi- ments 80% of the KPIs target val- ues achieved.	Scientific / technological quality: 4.5 / 5; implementa- tion: 4.2 / 5; impact: 4.4/5	•



For the RIFs	ity of the pro-	RIFs	Differences	n.a.	
	posals sub-		in the evalu-		
	mitted. They		ation proce-		
	form the pool		dure of pro-		
	from which		posals be-		
	the inde-		tween differ-		
	pendent ex-		ent RIFs		
	perts can se-		make it diffi-		
	lect.		cult to have		
			a consoli-		
			dated scor-		
			ing system.		
			But quality		
			of proposals		
			was strong.		



1.2 Experiments

The assessment of KPIs against target values is done in the bi-monthly monitoring session budied by the monitoring platform of ECHORD++. The relvant KPIs are reported on in each QM report (taking account of the KPIs of the experiment which are relevant for the individual periods. The tracking of KPIs wil be included in the stable of Strategic KPIs ("Contributions to advancing stateof-the-art" and "impact"). Please fin below an overview of the KPIs (traffic lights) for Call I experiments. Detailed information see Attachment.

Assesment	3DSSC	CoHRoS	DEBURR	DEX- BUDDY
Tech. KPIs	0	\bigcirc	\circ	
Imp. KPIs	0	•	\bigcirc	
Deliverables	\bigcirc	\bigcirc	\bigcirc	
Milestones	0	\bigcirc	\circ	
Dissemina- tion	•	•	•	۲

Asses-	EX-	2F	GAROT-	LA-
ment	OTRAINER		ICS	ROSES
Tech.	\bigcirc	\bigcirc	\circ	0
KPIs	0		\bigcirc	
Imp. KPIs	\bigcirc	0		\bigcirc
Delivera-		0	0	0
bles	Ŏ			
Mile-				
stones				
Dissemi-				
nation				

Asses-	LINARM++	MODUL	MO-	PICKIT
ment			TORE++	
Tech.	\bigcirc	\bigcirc	\circ	\bigcirc
KPIs	\bigcirc	0	\bigcirc	\bigcirc
Imp. KPIs	\bigcirc	0	•	0
	\bigcirc	\bigcirc	0	\bigcirc
	\bigcirc	\bigcirc	0	\bigcirc



Delivera-		
bles		
Mile-		
stones		
Dissemi-		
nation		

Assesment	SAPARO	TIREBOT	MARS	
Tech. KPIs	\circ	\bigcirc	\bigcirc	
Imp. KPIs	ightarrow	\circ	0	
Deliverables	\bigcirc	\bigcirc	\bigcirc	
Milestones	0	0	0	
Dissemina- tion	\bigcirc	\bigcirc		

1.3 RIFs

This QM Report also provides an overview of the performance of the RIFs against target.

Indicator	Explanation	Way of As- sessment	Target value	Progress (Oct14- Nov16)
Businesses engaged • SMEs • Non-SMEs • Individuals	Total no. of organi- zations within the RIF network, includ- ing businesses, sole traders, non-profit organizations, HEIs and business start- ups.	Proposal and engagement statistics gener- ated by E++ website & PM tools provided by BRL	Annual tar- gets are (<i>to- tal – SME</i>): BRL (150 - 90) CEA (100 - 60) SSSA (100 - 60)	BRL (399- 217) CEA (300- 151) SSSA (249- 133)
Businesses assisted (>12hrs) • SMEs • Non-SMEs	Consultancy sup- port, information, ad- vice and guidance to individual busi- nesses. The assis- tance can be face- to-face, via phone, web-based, dialogue at conferences, sem- inars, walkings, workshops or through networks.	Internal statis- tics generated by PM tools provided by BRL& sign-off by organization required.	Annual tar- gets are (<i>to- tal – SME</i>): BRL (60 - 36) CEA (40 - 24) SSSA (40 - 24)	BRL (210- 158) CEA (44-9) SSSA (123- 75)



New busi- nesses/Pre- start-up assis- tance	New business: The creation of new busi- nesses including start-ups of all sizes, sole traders, partner- ships and not for profit organizations. Pre-start Assistance: Inquries from individ- uals on how to ac- quire the technical & entrepreneurial skills to set-up a new busi- ness venture.	Internal statis- tics generated by PM tools provided by BRL& sign-off by organization and/or individu- als required.	Annual tar- gets are: BRL (4) CEA (2) SSSA (2)	BRL (40) CEA (2) SSSA (2)
Jobs safe- guarded	The number of jobs declared "at risk" by a business prior to enrolling onto the RIF programme and receiving business support, and still ac- tive twelve months from start of the en- gagement. "At risk" – a permanent, paid, full-time equivalent (FTE) job which is forecast to be lost within one year.	Internal statis- tics based on statements of users - entered into and gener- ated by PM tools provided by BRL - This is not a hard KPI, but still useful as an indicator for long-term impact of RIFs.	Annual tar- gets are: BRL (6) CEA (3) SSSA (3)	BRL (3) CEA (n/a) SSSA (n/a)
Jobs created	A new paid, full-time equivalent (FTE) job. Temporary employ- ment is captured if it has a life expectancy of at least 8 weeks (or Pro Rata equiva- lent). The post is when an individual starts a new role.	Evidence & sing-off by or- ganization and/or individ- ual required. Generated by questionnaire at the end of the RIF stay and af- terwards.	Annual tar- gets are: BRL (9) CEA (6) SSSA (6)	BRL (4) CEA (2) SSSA (n/a)
Number of pa- tents & other IPR products and / or pro- cesses launched.	As a result of direct assistance provided through engagement with a RIF.	Evidence of IPR device required. This information is gathered via a survey at the end of the en- gagement as well as long- Term (see "Im- pact on Innno- vation")	Annual tar- gets are: BRL (2) CEA (1) SSSA (1)	BRL (n/a) CEA (6) SSSA (2)



1.4 PDTI

The same approach is chosen as for the experiments. Nevertheless, the bi-monthly monitoring starts with Phase II of PDTI. First results are likely to be available for QM report no. 7.

1.5 Outreach and dissemination

Indicator	Assessment	Target val- ues	De-1	acto M34 – M39
Online-commu- nication	Clicks website	1000 per month		From 1 st Nov 2014 (start of tracking) – 30 th Sep- tember 2016: Average of 1,370 visitors per month
	YouTube channel	Average of more than 500 views per video		9 videos, 521 views per average
	LinkedIn Group	More than 250 mem- bers	•	329 members (30 th Sept 2016)
Media coverage	References in trade press	50 per year		55 trade press
	References in con- sumer press	10 per year		60 consumer press (both total until 30 th September 2016)
Event audience	Estimated number of people from tar- get audience reached at the vari- ous events	1000 per year		Number to be delivered by UPC



Direct contacts	Direct contacts in contact database	More than 4.000 ac- tive con- tacts at the end of E++		4,288 contacts in total (30 th Sept 2016 - further contacts not yet imple- mented in data base)
		More than 70 % new contacts (without login from old ECHORD)	•	62 % new contacts
Scientific publi- cations	Number of scien- tific publications	At least one per ex- periment	•	11 scientific publications from 15 Call I experi- ments
Customer satis- faction	Specific questions on communica- tion/dissemination in customer satis- faction surveys	Rating of at least good to excellent		sed on Input from Call I experiments (active)
	Overall content of E++ monitoring platform			1,9 (good)
	Overall usability of the E++ monitoring platform	•		2,4 (god-average)
	Questions an- swered within two business days			1,8 (good)
	Did the E++ team give competent an- swers to your ques- tions?			1,5 (good - excellent)
	Was the E++ team capable of solving your problems?			1,6 (good – excellent)
	Was the session on public relations at the Kick off helpful for your PR efforts	•		2,2 (good)
	Were the public re- lations references and the PR hand- book helpful for your public rela- tions efforts?	•		2,1 (good)



Do you thin new v echord.eu dresses a b public with i design (re- 01/2016)?	vebsite ad- proader ts new	2 (good)
Does ECHORD++ site echord. dresses the l ment Pa needs?	eu ad- Experi-	2 (good)
How would rate ECHORD++ YouTube Ch	the	1,9 (good)

2 Risk Contingency Plan

We can classify the risks for E++ into three categories: (i) risks arising from the internal organization, (ii) risks related to the acceptance of and interest in the different instruments, and (iii) risks during the execution phase of the instruments. The following table lists the risks associated with the implementation of E++.

Risk (DOW)	Potential Impact	Corrective Action	Comments on current state
	low Specific tasks and –	Different escalation levels for dif- ferent delays.	
Type (ii) E++'s visibil- ity too low, profile un- clear	low ECHORD has achieved very high visibility and credibil- ity with clearly de- fined goals and	likely resolve this problem – just as we did very successfully	



	accepted, but the new instruments RIF and PCP rely on in- volvement of all stakeholders, espe- cially robot users and customers. Impact Low, Risk medium Being pilots for new R&D instruments, there is a certain risk that they will not be	targeted campaigns at the begin- ning of the project and involve- ment of the industry in all phases, especially in case of the PCP activities, will minimize this risk. In addition, as a result of the structured dialogue, not only can the content of all activities be adapted, but their administration aspects as well The interaction with all possible stakeholder groups in instru- ment- specific ways will lead to a good a priori estimation of the needs and acceptance criteria. This systematic approach will	
and PCP	accepted as anticipated	minimize the risk. An adjustment of the concepts in the structured dialogue will also be possible. Finally, it is always possible to adjust the budget so that re- sources can be shifted into the experiments and their number can be increased if needed.	
Type (iii) Beneficiary bankruptcy	Impact Medium, Risk Low Potential risk of a failure of a specific experiment	Rapid alert system due to addi- tional reporting duties for benefi- ciaries with weak financial valida- tion. Replace beneficiary Finan- cial risk is safeguarded by guar- antee fund	Robosoft declared bankruptcy. They were included in one of the PDTI consortia which had to leave anyway.
Type (iii) Delayed start of ex- periments and other in- struments	Impact High, Risk Medium-High No sound planning of resources and timeline possible for beneficiaries Experiments cannot	Realistic timetable with enough time between the Calls to realize the Amendments Timetable which avoids conflict between Cost Claims and Amendments Communication of this timetable to the beneficiaries.	The Amendment pro- cess had been opti- mized for Amendment III (PDTI RTD consor- tia). Due to the transi- tion from FP7 to Hori- zon 2020 in terms of



Additional risks identi- fied since DOW was written	deliver the intended results on time Project duration likely to be extended (cost-neutral) Bad image of the project and demoti- vation of SMEs to partici- pate in future EU- funded projects	Beneficiaries that do not meet start deadlines will be postponed to the next batch or replaced Beneficiaries with complete doc- umentation can start their exper- iments without prior signature of Amendment.	validation (no Indreict Csot Models) and doc- umentation, the proven approach failed to work. Experiments were informed at a very early stage and contin- uously. They were of- fered alternative start dates. Call I experi- ments were offered a cost neutral extension option at the end.
Cooperation between core benefi- ciaries does not work well (les- sons learned ECHORD)	Impact: High, Risk: Medium	Preventive measures taken: Regular specific group updates (every two weeks) for PCP, RIFs, Experiments and ExC Commit- tee. Appointment of a facilitator to tackle issues which require in- depth communication between different instruments OR differ- ent beneficiaries involved in one instrument to achieve consensus with the best results.	
Problems with recruit- ment of eval- uators	Impact: High, Risk: High	Intensive contact making with stakeholder groups not originally involved with the project (also by activating clusters and associa- tions)	
	Medium / Low	Calibration of the proposal eval- uations during the panel meeting	
Evaluators give high scores to proposals which do not	Impact: High, Risk: High	Analysis of the weaknesses of the proposals selected for fund- ing and addressing these issues during the negotiations.	



provide a clear tracka- ble target.		
results of all instruments reported by the partners / users	low-up projects or second rounds); Risk: Medium	implementation of the instru- ments for tracking (for instance questionnaires).
PDTI pro- cess: Re- dress blocks Phase II of PDTI for healthcare.	Impact: high; Risk: High	Written agreement on Conflict of Interest from both the consortia and the reviewers before onsite review takes place. Criteria used will be the same as by the EC.
One of the PDTI con- sortia is weaker and needs a lot of effort to reach the re- quired level	Impact: high, Risk: medium	A discussion if public bodies re- ally needs (and appreciate) hav- ing different options to choose from at the end. This means that you have ot make sure that at leat two technologies are availa- ble – and two teams make it until the end. This causes a lot of problems.