

USER STORIES REQUIREMENTS FROM WP2-4 Release 2

March 2014

ABSTRACT

This document details the process of the creation of new User Stories following the identification of new User Requirements from user feedback. It documents the liaison and relationship between the project and external developers, SMEs and vendors

The purpose of feedback gathering and analysis is to identify new requirements, to enable technological and structural improvements, to identify opportunities for the involvement of SMEs and to provide on-going input into the development of the platforms. Using this feedback, the identification of new requirements may lead to the creation of new User Stories.

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EXECUTIVE SUMMARY

The purpose of feedback gathering and analysis is to identify new requirements, to enable technological and structural improvements, to identify opportunities for the involvement of SMEs and to provide on-going input into the development of the platforms.

This document documents feedback received from external developers, SMEs and vendors during the first project year. If feedback identifies new User Requirements, this feedback will lead to the creation of new User Stories.

A 'User Story' describes what a user wants to do with a particular application or system. New User Stories are created as a response to feedback from meetings with developers and SMEs. Feedback is gathered by FI-CONTENT 2 partners at Future Internet events, showcases at industry/developer conferences and specialist demonstrations and online.



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1 - INTRODUCTION

This Deliverable provides feedback collected by FI-CONTENT 2 partners. This feedback has been gathered at trade fairs, events and presentations, and thus is collected from potential professional users of the FI-CONTENT 2 platforms. The purpose of the collection of feedback is to help identify further development opportunities for content and features by incorporating feedback from professional, potential project partners and by supporting cooperation with developers through competitions and hackathons.

As part of activities conducted under Task T5.2 **Identifying content partners and developers' needs**, feedback is gathered by partners and transcribed into the feedback form template (created as part of D5.2.1 User Stories Requirements Release 1). The completed feedback form is then forwarded to the relevant platform WP leaders of WP2, WP3 or WP4.

Feedback details and initial analysis is recorded in the feedback template. A ticketing system to track progress of incoming feedback was proposed at the February 2014 Plenary, and is currently under development.

Following analysis of the collected feedback, WP leaders either (a) incorporate feedback into existing User Stories, (b) devise new User Stories to accommodate the feedback or (c) reject the feedback (see Figure 1 below). If feedback identifies new User Requirements which are not under development or addressed by FIC 2 partners, the feedback will lead to the creation of a new User Story. A 'User Story' describes what a user wants to do with a particular application or system.

Feedback which leads to the creation of new User Stories also delivers input to T5.3 Involvement Though Competitions.



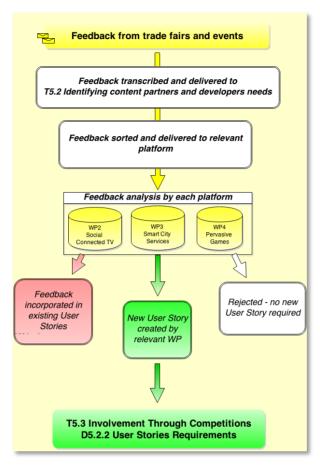


Figure 1 Creation of new user stories

Feedback gathered under task T5.2 also delivers input into Dx.3.1 Results and Feedback Analysis as indicated in the following Figure 2 – Overview of feedback gathering:

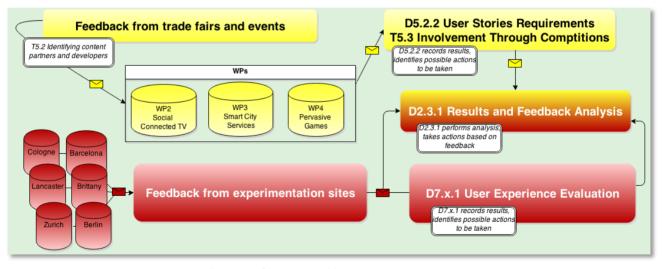


Figure 2 Overview of feedback gathering



2 - COLLECTION, EVALUATION AND ANALYSIS OF FEEDBACK

The various methodologies used for evaluating and analysing feedback are described in D5.2.1 User Stories Requirements WP2-4 Release 1. All partners are responsible for the gathering of feedback at events, meetings and other suitable occasions. It is the responsibility of the collecting partners to transform feedback into a digital document format before transmitting to the task leader RBB.

Submitted feedback is reviewed by the partners involved in Task 5.2 and distributed to the relevant platform/WP leader (WP2, WP3 and WP4) for evaluation. Feedback is then analysed and evaluated by WP participants. The subsequent evaluation and analysis of feedback will lead either to the incorporation of the feedback into the existing workflow as a refinement, to the creation of new technical requirements based on the user story, or to the rejection of feedback upon specified grounds. This process is illustrated in Figure 1 Creation of new user stories. After evaluation, a detailed protocol will be produced. Where new User Stories are required, the protocol will be categorised into various test areas.

Feedback was produced at the below events:

Date	Event	Location
Sept. 2013	IFA 2013	Berlin, Germany
Oct. 2013	NEM Summit/Hackathon 2013	Nantes, France
Nov. 2013	ICT 2013	Vilnius, Lithuania
Feb. 2014	Hackathon Zurich	Zurich, Switzerland
Feb. 2014	AR-xperiment	Barcelona, Spain

The gathering of feedback at these events followed methodologies defined in Deliverable D5.2.1 User Stories Requirements. The primary source of feedback was one-on-one interaction between users/visitors and staff. Staff recorded their impressions following the interaction or directly enquired of visitors/users as to their impressions following the demonstration of/interaction with the service or functionality.

The feedback received by February 2014 is detailed in Annex A of this document and is summarised here:

2.1 - Relevant to WP2 Social Connected TV

1: Request to use Second-Screen Device as remote control

Status: This issue has been solved, the Second Screen Framework has been integrated in Rich Content Scenario allowing the user to receive additional content on the mobile device or use it as a remote control for mirrored apps.

2: Request for app-to-app communication

Status: As this was similar to an objective in the FI-CONTENT 2 open call, it will be addressed in the second experimentation cycle, following results of the Open Call and integration of new partners.

3: Request for device connection and discovery

Status: As this was similar to an objective in the FI-CONTENT 2 open call, it will be addressed in second experimentation cycle, following results of the open call and integration of new partners



4: Request for automatic application launch

Status: As this was similar to an objective in the FI-CONTENT 2 open call, it will be addressed in second experimentation cycle, following results of the open call and integration of new partners

5: Request for data editing capability

Status: to be addressed in second experimentation cycle.

2.2 - Relevant to WP3 Smart City Services

6: Request for improved design of mobile apps

Status: this feedback concerns design issues rather than enabler development, it was incorporated into existing workflow and the design has been improved

7: Request for uniform format of Open City database

Status: As a result of the feedback the structure of the open city database was changed. Entries must contain certain pre-defined data parameters and the security has been improved.

2.3 - Relevant to WP4 Pervasive Games

8: Request for Leaderboard enhancements

Status: Added in TODO list for 2nd experimentation cycle.

9: Request for Augmented Reality - Simpler Deployment

Status: Added in TODO list for 2nd experimentation cycle.

10: Request for Game Synchronization SE

Status: Added in TODO list for 2nd experimentation cycle.

11: Request to add more game objects

Status: To be considered for 2nd experimentation cycle

12: Request re: visibility

Status: To be considered for 2nd experimentation cycle

13: Request to add haptic feedback

Status: To be considered for 2nd experimentation cycle

14: Request to consider strategising

Status: To be considered for 2nd experimentation cycle

15: Request to consider pervasive spider behaviour

Status: To be considered for 2nd experimentation cycle

16: Request to consider 'killer beam' game

Status: To be considered for 2nd experimentation cycle



3 - CONCLUSION / STATUS

Feedback is being collected and delivered by partners.

Feedback was produced at 5 of the 11 events attended by FI-CONTENT 2 partners as documented in the FI-CONTENT 2 Events overview. Reminders about the need for ongoing collection of feedback at all opportunities are sent to partners, with specific requests to those partners attending specific events.

A decision was taken at the Cologne Plenary in Feb 2014 to introduce a ticketing system to track progress of incoming feedback, and this is currently under development.

The Feedback Collection template was revised in January and is included here as Annex B.

Feedback will continue to be collected by partners at upcoming events.



Annex A FEEDBACK DOCUMENTATION

A.1 Scenario: Rich Content/ Second Screen device as remote control for Content Enrichment

Platform/WP:	Social Connected TV – WP2	
Name of new requirement:	Second Screen device as remote control for Content Enrichment	
Scenario:	Rich Content	
Application:	Enrichment of Video Content	
Scenario owner:	FOK	
Description of proposed	The user should be able to control	of the HbbTV Enrichment of Video
functionality	Content app from the Second Scre	en device
Audience and cultural	Typical TV viewer / customer of Ht	bTV service
criteria/justification		
Academic criteria/justification	User interaction in multi-device env	vironments
Commercial	Provisioning of additional content a	and/or content-related services
criteria/justification		
Technical criteria/justificatio	n	
Technical necessity - is it	Feasible/not feasible	Comments
feasible to address the	Faccible	Although it is fossible to address
particular scenario without	Feasible	Although it is feasible to address the scenario without second
this additional requirement?		screen, it is not very user
		friendly. We therefore plan to
		use a second screen (e.g.
		mobile device) to control
		Content Enrichment on a
		HbbTV. This will be realised by
		integrating the Second Screen
		Framework
Relevance for developers -	Yes/no	Comments
does the fulfilment of the	No	
additional requirement offer		
additional opportunities		
regarding the reuse of the		
API/Enabler?		
Relevance for the end users	Yes/no	Comments
- does the additional	Yes	The HbbTV app will be more
requirement add value from		user-friendly, additional
the user's perspective?		information will be presented on
		the second screen. The second
		screen can also be used for
		more complex interaction.
Are there dependencies	Dependency/no dependency	Comments
among the requirements	Yes	Needs integration of second
concerning their		screen framework / multi-device
implementation?	Vk	communication solution
Can the new requirement be	Yes/no	Comments
implemented within given	Yes	The initial implementation has
time and resources?		been completed



Aggregation and alignment of new requirements to milestones:	The requirement will be completed for the second phase of testing in Flcontent.	
Assessment of priority:	Essential/high, useful/medium, possible/low, other/no	
	Essential/high	
Feedback collected by	Annette Wilson WP2 FOK	
	Ziegler, IRT	
Event	NEM Summit	
	Nantes, France	
	Oct 28 th – 30 th 2013	
Event URL :	http://nem-summit.eu/	
Topic/Theme of event	Implementing Future Media Internet towards New Horizons,	
	maximizing the global value of Content, Media and Networks	
Format of feedback	g	
Forwarded to :		
Forwarded by:	Miggi Zwicklbauer FOK	
Action taken:	Second Screen Framework has been integrated in Rich Content Scenario	



A.2 Scenario: Multi-Screen Experience/App-to-app communication

Platform/WP:	Social Connected TV / WP2	
Name of new requirement:	App-to-app communication	
Scenario:	Multi-Screen Experience	
Application:	Using Second-Screen Devices	
Scenario owner:	IRT/RBB	
Technical criteria/justificatio		
Technical necessity - is it	Feasible/not feasible	Comments
feasible to address the		
particular scenario without	Not feasible.	Communication is a crucial
this additional requirement?		feature for the realization of the
4		Multi-Screen Experience
		scenario.
Relevance for developers -	Yes/no	Comments
does the fulfilment of the	Yes	
additional requirement offer		
additional opportunities		
regarding the reuse of the		
API/Enabler?		
Relevance for the end users	Yes/no	Comments
- does the additional	Yes	All visitors at our booth at the fair
requirement add value from		were impressed by being able to
the user's perspective?		remotely control an application
		on the TV from a tablet PC. This
		was realized with the help of the
		communication feature.
Are there dependencies	Dependency/no dependency	Comments
among the requirements	No	
concerning their		
implementation?		
Can the new requirement be	Yes/no	Comments
implemented within given	Yes	
time and resources?		
Aggregation and alignment		
of new requirements to		
milestones:		
Assessment of priority:	Essential/high, useful/medium, pos	SIDIE/IOW, Other/no
<u> </u>	Essential/high	
Feedback collected by	Christoph Ziegler and Janina Renz, IRT	
French	JEA Barlia Cormony, Contambar 4 th 9 th 2042	
Event	IFA Berlin Germany, September 4 th – 8 th 2013	
Event URL :	http://b2b.ifa-berlin.com/en/Home.html	
Event one.	http://bzb.iia-behin.com/en/πome.html	
Topic/Theme of event	Consumer electronics fair	
•	Series diodronios idii	
Format of feedback	Exchange with fairgoers	
E I. I.	Martin Cardon BBB	
Forwarded to :	Martin Gordon RBB	



Forwarded by :	Christoph Ziegler, IRT	
Action taken:	As this was similar to an objective in the FI-CONTENT 2 open call, it will be addressed in second experimentation cycle, following results of the open call and integration of new partners.	



A.3 Scenario: Multi-Screen Experience/Device connection and discovery

Platform/WP:	Social Connected TV / WP2		
Name of new requirement:	Device connection and discovery		
Scenario:	Multi-Screen Experience		
Application:	Using Second-Screen Devices		
Scenario owner:	IRT/RBB		
Technical criteria/justificatio	n		
Technical necessity - is it	Feasible/not feasible	Comments	
feasible to address the			
particular scenario without	Not feasible.	Discovery and connection are	
this additional requirement?		crucial to realize a	
·		communication link between	
		devices.	
Relevance for developers -	Yes/no	Comments	
does the fulfilment of the	Yes		
additional requirement offer			
additional opportunities			
regarding the reuse of the			
API/Enabler?			
Relevance for the end users	Yes/no	Comments	
- does the additional	Yes		
requirement add value from			
the user's perspective?	Dan and dan and a dan and dan and	0	
Are there dependencies	Dependency/no dependency	Comments	
among the requirements	No		
concerning their			
implementation?	Vaclas	Commonto	
Can the new requirement be	Yes/no	Comments	
implemented within given time and resources?	Yes		
Aggregation and alignment			
of new requirements to			
milestones:			
Assessment of priority:	Essential/high, useful/medium, pos	sible/low other/no	
Assessment of phonty.	· · · · · · · · · · · · · · · · · · ·	SIDIO/IOW, OUIGI/IIO	
Feedback collected by	Essential/high		
i eedback collected by	Christoph Ziegler and Janina Renz, IRT		
Event	IFA Berlin Germany, September 4 th – 8 th 2013		
	II A Definit Germany, September 4 - 0 2013		
Event URL :	http://b2b.ifa-berlin.com/en/Home.html		
Topic/Theme of event	Consumer electronics fair		
Format of feedback	Exchange with fairgoers		
Forwarded to :	Martin Gordon RBB		
Parity III	Christoph Zingler IDT		
Forwarded by :	Christoph Ziegler, IRT		



Action taken:	As this was similar to an objective in the FI-CONTENT 2 open call,	
	will be addressed in second experimentation cycle, following results	
	of the open call and integration of new partners	



A.4 Scenario: Multi-Screen Experience/Automatic application launch

Platform/WP:	Social Connected TV / WP2	
Name of new requirement:	Automatic application launch	
Scenario:	Multi-Screen Experience	
Application:	Using Second-Screen Devices	
Scenario owner:	IRT/RBB	
Technical criteria/justificatio	n:	
Technical necessity - is it	Feasible/not feasible	Comments
feasible to address the		
particular scenario without	Not feasible.	
this additional requirement?		
Relevance for developers -	Yes/no	Comments
does the fulfilment of the	Yes	
additional requirement offer		
additional opportunities		
regarding the reuse of the		
API/Enabler?		
Relevance for the end users	Yes/no	Comments
- does the additional	Yes	
requirement add value from		
the user's perspective?		
Are there dependencies	Dependency/no dependency	Comments
among the requirements	No	
concerning their		
implementation?		
Can the new requirement be	Yes/no	Comments
implemented within given	Yes	
time and resources?		
Aggregation and alignment		
of new requirements to		
milestones:		
Assessment of priority:	Essential/high, useful/medium, possible/low, other/no	
	Essential/high	
Feedback collected by	Christoph Ziegler and Janina Renz, IRT	
	A	n th
Event	IFA Berlin Germany, September 4 th – 8 th 2013	
Event URL :	http://b2b.ifa-berlin.com/en/Home.html	
Tonic/Thoma of avent	Consumer electronics fair	
Topic/Theme of event	Consumer electronics fair	
Format of feedback	Exchange with fairgoers	
	Lacitative with fallyoets	
Forwarded to :	Martin Gordon RBB	
roiwaided to .		
Forwarded by :	Christoph Ziegler, IRT	
Forwarded by :		in the EL-CONTENT 2 ones call #
	As this was similar to an objective	·
Forwarded by :		rimentation cycle, following results



A.5 Scenario: Search and Discovery/Data Editing

Platform/WP:	Social Connected TV – WP2		
Name of new requirement:	The possibility of editing data produced by automatic indexing and linking for editorial purposes in content management / production systems		
Application:	Audio/Video SEO		
Scenario owner:	TRDF		
Commercial criteria/justification	Efficient workflows in multimedia p	roduction	
Technical criteria/justificatio	n:		
Technical necessity - is it	Feasible/not feasible	Comments	
feasible to address the particular scenario without this additional requirement?	Yes, it is feasible to address the particular scenario without this additional requirement.	Editors would like to be able to edit data	
Relevance for developers -	Yes/no	Comments	
does the fulfilment of the additional requirement offer additional opportunities regarding the reuse of the API/Enabler?	No	Depends on scenario	
Relevance for the end users	Yes/no	Comments	
 does the additional requirement add value from the user's perspective? 	Yes	More relevant and curated content on second screen	
Are there dependencies	Dependency/no dependency	Comments	
among the requirements concerning their implementation?	No	APIs of SEs offer the possibility to integrate functionalities into CMS	
Can the new requirement be	Yes/no	Comments	
implemented within given time and resources?	Yes	API is part of the development roadmap already as well as its documentation	
Aggregation and alignment	A simple interface for manual editing will be implemented and tested		
of new requirements to milestones:	in the second experimentation cycle	9.	
Assessment of priority:	Essential/high, useful/medium, possible/low, other/no Essential/high		
Feedback collected by	Angelika Pauer, Thomas Winkler, Joachim Köhler WP2 IAIS		
Event	dmexco Cologne, Germany Sep 18 th – 19 th 2013		
Event URL :	http://dmexco.de/		
Topic/Theme of event	"Turning visions into reality" - conference and exposition on digital marketing		
Format of feedback	protocols of verbal reports		



Forwarded to:	Martin Gordon, RBB
Forwarded by:	Michael Eble, IAIS
Action taken:	To be addressed in second experimentation cycle.



A.6 Scenario: On-Site Visit (Smart City Guide Web APP)/Design Improvement

Platform/WP:	Smart City Services – WP3	
Name of new requirement:	Design improvement - attractive and intuitive design for mobile apps	
Scenario:	On-Site Visit	
Application:	Smart City Guide Web App	
Scenario owner:	FOK	
Commercial	Use of open standards as HTM	II 5 to be platform, and device.
criteria/justification	independent	inco to be platform- and device-
Technical criteria/justification	-	
Technical necessity - is it	Feasible/not feasible	Comments
feasible to address the	T easible/flot leasible	Comments
particular scenario without	Yes, it is feasible to address the	To make the web app touch
this additional requirement?	particular scenario without this	screen interaction even better
uno additional requirement:	additional requirement.	we decided to use a JavaScript
		framework as it allows user
		interface and interaction design.
Relevance for developers -	Yes/no	Comments
does the fulfilment of the	No	This feedback was relevant for
additional requirement offer		the design of the web app
additional opportunities		
regarding the reuse of the		
API/Enabler?		
Relevance for the end users	Yes/no	Comments
- does the additional	Yes	Improved design ensures the
requirement add value from		users are more likely to adopt
the user's perspective?		and test the app and in doing so
		validate the enablers it relies on.
Are there dependencies	Dependency/no dependency	Comments
among the requirements	Dependency	Building the web app with new
concerning their		framework to implement the
implementation?		design
Can the new requirement be	Yes/no	Comments
implemented within given	Yes	
time and resources?		
Aggregation and alignment	The new design was implemented	•
of new requirements to	be tested by the end of this phase (warch 2014)
milestones:	English City	-11.4
Assessment of priority:	Essential/high, useful/medium, pos	sible/low, other/no
	Useful/medium	
	A	
Feedback collected by	Miggi Zwicklbauer, WP3 FOK	
F	ΙΓΛ	
Event	IFA Porlin Cormony	
	Berlin, Germany	
Event LIDI :	September 6 th – 11 th 2013	
Event URL:	http://www.ifa-berlin.com/	
Topic/Theme of event	Consumer electronics unlimited	
Format of feedback	Verbal reports:	
	Developer of native apps (iOS)	
	11 \ -/	



Forwarded to :	Martin Gordon RBB
Forwarded by :	Miggi Zwicklbauer FOK
Action taken:	This feedback concerns design issues rather than enabler development, and was incorporated into existing work flows.



A.7 Scenario: On Site Visit/Uniform format for Open City Database content

Platform/WP:	Smart City Services – WP3	
Name of new requirement:	Uniform format for Open City Data	pase content
Scenario:	On Site Visit	
Application:	Smart City Guide Web App	
Scenario owner:	FOK	
Commercial	API for 3rd party use is essential	
criteria/justification	Ar i for 3rd party use is essential	
Technical criteria/justificatio	n·	
Technical necessity - is it	Yes/no	Comments
feasible to address the	1 65/110	Comments
particular scenario without	Yes	Data in the OCD should have a
this additional requirement?		uniform format - this is
tins additional requirement:		necessary for the representation
		of the data in the app.
		Particularly the opening hours in
		a POI are important for the
		planning and recommendation
		part of the web app.
Relevance for developers -	Yes/no	Comments
does the fulfilment of the	Yes	The database will be a more
additional requirement offer		qualitative and quantitative.
additional opportunities		There are more possibilities to
regarding the reuse of the		use the Open City Database.
API/Enabler?		
Relevance for the end users	Yes/no	Comments
- does the additional	Yes	The Smart City Guide web app
requirement add value from		will show more Cities and POIs.
the user's perspective?		
Are there dependencies	Dependency/no dependency	Comments
among the requirements	Dependency	Open City Database grows with
concerning their		qualitative content
implementation?		
Can the new requirement be	Yes/no	Comments
implemented within given	Yes	
time and resources?		
Aggregation and alignment	The requirement has been impl	-
of new requirements to	phase. This will be tested during the	e first test cycle (March 2014)
milestones:		
Assessment of priority:	Essential/high, useful/medium, pos	sible/low, other/no
	Essential / high	
Feedback collected by	Miggi Zwicklbauer, WP3 FOK	
Event	NEM Summit	
Lvent	Nantes, France	
	Oct 28 th – 30 th 2013	
Event URL :	http://nem-summit.eu/	
LVEIR OILL.	- παρ.//ποτιτ-σαιτιπασα/	
Topic/Theme of event	Implementing Future Media Internet towards New Horizons	
,	Maximizing the global value of Content, Media and Networks	



Format of feedback	Verbal reports: Participants of the Art & Tech hackathon used the Open City Database to build an Edutainment app. Needed more POIs.
Forwarded to :	Martin Gordon RBB
Forwarded by :	Miggi Zwicklbauer FOK
Action taken:	As a result of the feedback the structure of the open city database was changed. Entries must contain certain pre-defined data parameters and the security has been improved.



A.8 Scenario: Tabletop Augmented Reality Games/Leaderboard enhancements

Platform/WP:	Pervasive Games – WP4		
Name of new requirement:	Enhanced features and configuration	on for Leaderboard	
Scenario:	Tabletop Augmented Reality Games		
Application:	AR block stacking game		
Scenario owner:	ETHZ/DRZ		
Commercial	Enlarging number of possible use	cases	
criteria/justification			
Technical criteria/justificatio	n:		
Technical necessity - is it	Yes/no	Comments	
feasible to address the			
particular scenario without	No	In some applications, only the	
this additional requirement?		maximum score per user should	
		be saved, e.g. lower existing	
		entries should be overwritten.	
		In addition, a configurable	
		maximum number of entries was	
Dalawayaa faa dawalaa ay	suggested.		
Relevance for developers - does the fulfilment of the	Yes/no	Comments	
	Yes	For small games without a	
additional requirement offer		definitive end, the leaderboard	
additional opportunities		can be updated. Now they	
regarding the reuse of the API/Enabler?		manually have to choose when	
	Vecles	to submit a new score.	
Relevance for the end users	Yes/no	Comments	
- does the additional requirement add value from	Yes	Yes, for some games, see	
the user's perspective?		above.	
Are there dependencies	Dependency/no dependency	Comments	
among the requirements	No dependency	Comments	
concerning their	No dependency		
implementation?			
Can the new requirement be	Yes/no	Comments	
implemented within given	Yes	Comments	
time and resources?	103		
Aggregation and alignment	The requirement is planned to	be addressed before the 2 nd	
of new requirements to	experimentation cycle.	20 dadroodda bololo tilo 2	
milestones:	experimentation cycle.		
Assessment of priority:	Essential/high, useful/medium, possible/low, other/no		
i issuesiment of phoney.	Possible/low		
Feedback collected by	Marcel Lancelle, ETHZ		
Event	Hackathon Zurich Feb 22 nd 2014		
Event URL :	http://graphics.ethz.ch/hackathon		



Topic/Theme of event	Augmented Reality Games hackathon
Format of feedback	Verbal reports: Participants of the hackathon were asking for this option during the development and used the workaround with a manual button to post the score.
Forwarded to :	Marcel Lancelle, ETHZ
Forwarded by :	Marcel Lancelle, ETHZ
Action taken:	Added in TODO list for 2 nd experimentation cycle



A.9 Scenario: Tabletop Augmented Reality Games/Simpler Deployment

Platform/WP:	Pervasive Games – WP4	
Name of new requirement:	Simpler deployment for AR - Camera Artifact Rendering SE	
Scenario:	Tabletop Augmented Reality Games	
Application:	AR tower destruction game	
Scenario owner:	ETHZ/DRZ	
Commercial	Quicker deployment / with simpler usage more users are likely to	
criteria/justification	employ this SE.	,
Technical criteria/justificatio		
Technical necessity - is it	Yes/no	Comments
feasible to address the		
particular scenario without	Yes	However, better packaging for
this additional requirement?		Unity 3D will make the SE easier
		to use.
Relevance for developers -	Yes/no	Comments
does the fulfilment of the	Yes	More potential users.
additional requirement offer		
additional opportunities		
regarding the reuse of the		
API/Enabler?		
Relevance for the end users	Yes/no	Comments
- does the additional	No	No, just for the developers.
requirement add value from		
the user's perspective?		
Are there dependencies	Dependency/no dependency	Comments
among the requirements	No dependency	
concerning their		
implementation?		
Can the new requirement be	Yes/no	Comments
implemented within given	Yes	
time and resources?		
Aggregation and alignment	The requirement is planned to	be addressed before the 2 nd
of new requirements to	experimentation cycle.	
milestones:		
Assessment of priority:	Essential/high, useful/medium, pos	sible/low, other/no
	Possible/low	
Feedback collected by	Fabio Zünd, ETHZ	
	•	
Event	Hackathon Zurich	
	Feb 22 nd 2014	
Event URL :	http://graphics.ethz.ch/hackathon	
Topic/Theme of event	Augmented Reality Games hackathon	
Format of feedback	Verbal reports:	
. Siat S. 155abaok	Multiple participants of the hackathon were asking for this	
	improvement during the development.	
	improvement dailing the developine	// IG.



Forwarded to :	Marcel Lancelle, ETHZ
Forwarded by :	Fabio Zünd, ETHZ
Action taken:	Added in TODO list for 2 nd experimentation cycle



A.10 Scenario: Tabletop Augmented Reality Games/Availability of Game Synchronization SE

Platform/WP:	Pervasive Games – WP4		
Name of new requirement:	Availability of Game Synchronization SE for Unity 3D free on mobile		
·	devices		
Scenario:	Tabletop Augmented Reality Games		
Application:	AR multi player soccer game		
Scenario owner:	ETHZ/DRZ		
Commercial	More developers could use this \$	SE if it is not just working with a	
criteria/justification	Unity 3D pro licence.		
Technical criteria/justificatio	n:		
Technical necessity - is it	Yes/no	Comments	
feasible to address the	Van	Harrison Managines a sec	
particular scenario without	Yes	However, it requires a pro	
this additional requirement?		licence when using this SE.	
Relevance for developers -	Yes/no	Comments	
does the fulfilment of the	Yes	More potential users.	
additional requirement offer			
additional opportunities			
regarding the reuse of the			
API/Enabler?			
Relevance for the end users	Yes/no	Comments	
- does the additional	No	No, just for the developers.	
requirement add value from			
the user's perspective?			
Are there dependencies	Dependency/no dependency	Comments	
among the requirements	No dependency		
concerning their			
implementation?			
Can the new requirement be	Yes/no	Comments	
implemented within given	Unclear		
time and resources?	<u> </u>		
Aggregation and alignment	The requirement is planned to be	discussed by the partners before	
of new requirements to	the 2 nd experimentation cycle.		
milestones:			
Assessment of priority:	Essential/high, useful/medium, pos	SIDIE/IOW, OTNET/NO	
	Useful/medium		
Foodbook alleste U	Fabia 70ad ETUZ		
Feedback collected by	Fabio Zünd, ETHZ		
Event	Hackathon Zurich		
	Feb 22 nd 2014		
Event URL :	http://graphics.ethz.ch/hackathon		
Topic/Theme of event	Augmented Reality Games hackathon		



Format of feedback	Verbal reports:		
	Multiple participants of the hackathon were asking for this		
	improvement during the development.		
Forwarded to :	Mattia Ryffel, DRZ		
Forwarded by :	Fabio Zünd, ETHZ		
Action taken:	Added in TODO list for 2 nd experimentation cycle		



A.11 Scenario: Tabletop Augmented Reality Games/ Add more game objects

Platform/WP:	Pervasive Games – WP4		
Name of new requirement:	Add more game objects and int	egrate them in the gameplay (rivers	
	can slow down attackers momentarily, trees provide them with		
	some cover, and so on)		
Scenario:	Tabletop Augmented Reality Games		
Application:	Augmented Resistance		
Scenario owner:	DRZ - Mattia		
Technical criteria/justification	:		
Technical necessity - is it	Feasible/not feasible	Comments	
feasible to address the	TDD by MD4		
particular scenario without this	TBD by WP4		
additional requirement?			
Relevance for developers -	Yes/no	Comments	
does the fulfilment of the	TBD by WP4		
additional requirement offer			
additional opportunities			
regarding the reuse of the			
API/Enabler?			
Relevance for the end users -	Yes/no	Comments	
does the additional	Yes	Increased realism will lead to	
requirement add value from		higher game attractiveness	
the user's perspective?			
Are there dependencies	Dependency/no dependency	Comments	
among the requirements	TBD by WP4		
concerning their			
implementation?			
Can the new requirement be	Yes/no	Comments	
implemented within given time	TBD by WP4		
and resources?			
Aggregation and alignment of	TBD by WP4		
new requirements to			
milestones:			
Assessment of priority:	Essential/high, useful/medium, p	possible/low, other/no	
	TBD by WP4		
Feedback collected by:	Marc Aguilar, I2CAT		
Event	AP vporiment		
Event:	AR-xperiment		
Event URL:	24 th & 25 th February, 2014		
Eveni URL:	http://www.eventbrite.es/o/event-organised-by-i2cat-foundation-in-		
Tonic/thoma of avents	the-framework-of-the-ficontent-2-5875165275		
Topic/theme of event:	Experiment in BCN site		
Format of feedback:	Written answer to open-ended question in feedback questionnaire		
Forwarded to:	Marcel Lancelle, ETHZ		
Forwarded by:	Marc Aguilar, I2CAT		



Action taken: To be considered for 2nd experimentation cycle



A.12 Scenario: Tabletop Augmented Reality Games/ Visibility

Platform/WP:	Pervasive Games – WP4	
Name of new requirement:	Make enemies more or less visible depending on light level (so if there is little light you cannot see them as well), and, in general, make light more important for gameplay (i.e. you must use an extra light source, like a handheld lamp, to detect some kind of stealth attackers)	
Scenario:	Tabletop Augmented Reality Gan	nes
Application:	Augmented Resistance	
Scenario owner:	DRZ - Mattia	
Technical criteria/justification	:	
Technical necessity - is it	Feasible/not feasible	Comments
feasible to address the particular scenario without this additional requirement?	TBD by WP4	
Relevance for developers -	Yes/no	Comments
does the fulfilment of the additional requirement offer additional opportunities regarding the reuse of the API/Enabler?	Yes	Innovative ways to integrate light effects into gameplay will demonstrate the Reality mixer enablers and showcase their qualities
Relevance for the end users -	Yes/no	Comments
does the additional requirement add value from the user's perspective?	Yes	Innovative ways to integrate light effects into gameplay will lead to higher game attractiveness
Are there dependencies	Dependency/no dependency	Comments
among the requirements concerning their implementation?	TBD by WP4	
Can the new requirement be	Yes/no	Comments
implemented within given time and resources?	TBD by WP4	
Aggregation and alignment of new requirements to milestones:	TBD by WP4	
Assessment of priority:	Essential/high, useful/medium, po	ossible/low, other/no
Feedback collected by:	Marc Aguilar, I2CAT	
Event:	AR-xperiment 24 th & 25 th February, 2014	
Event URL:	http://www.eventbrite.es/o/event-organised-by-i2cat-foundation-in-the-framework-of-the-ficontent-2-5875165275	
Topic/theme of event:	Experiment in BCN site	
Format of feedback:	Written answer to open-ended qu	estion in feedback questionnaire



Forwarded to:	Marcel Lancelle, ETHZ
Forwarded by:	Marc Aguilar, I2CAT
Action taken:	To be considered for 2 nd experimentation cycle



A.13 Scenario: Tabletop Augmented Reality Games/ Haptic Feedback

Platform/WP:	Pervasive Games – WP4	
Name of new requirement:	Add haptic feedback on user (feeling of blast effects) and sound	
	effects (the louder the closer you are to battlefield)	
Scenario:	Tabletop Augmented Reality Games	
Application:	Augmented Resistance	
Scenario owner:	DRZ - Mattia	
Technical criteria/justification		
Technical necessity - is it	Feasible/not feasible	Comments
feasible to address the	TBD by WP4	
particular scenario without this additional requirement?	·	
Relevance for developers -	Yes/no	Comments
does the fulfilment of the	TBD by WP4	Comments
additional requirement offer	100 by WI 4	
additional opportunities		
regarding the reuse of the		
API/Enabler?		
Relevance for the end users -	Yes/no	Comments
does the additional	Yes	Increased realism will lead to
requirement add value from		higher game attractiveness
the user's perspective?		
Are there dependencies	Dependency/no dependency	Comments
among the requirements	TBD by WP4	
concerning their implementation?		
Can the new requirement be	Yes/no	Comments
implemented within given time	TBD by WP4	Comments
and resources?	122 Sy W. 1	
Aggregation and alignment of	TBD by WP4	
new requirements to	•	
milestones:		
Assessment of priority:	Essential/high, useful/medium, p	ossible/low, other/no
	TBD by WP4	
Feedback collected by:	Marc Aguilar, I2CAT	
Event:	AR-xperiment	
Event.	24 th & 25 th February, 2014	
Event URL:		
Evolit OKE.	the-framework-of-the-ficontent-2-5875165275	
Topic/theme of event:	Experiment in BCN site	
,	•	
Format of feedback:	Written answer to open-ended question in feedback questionnaire	
Forwarded to:	Marcel Lancelle, ETHZ	
Forwarded by:	Marc Aguilar, I2CAT	



Action taken: To be considered for 2nd experimentation cycle



A.14 Scenario: Tabletop Augmented Reality Games/ Strategising

Platform/WP:	Pervasive Games – WP4	
Name of new requirement:	Add more strategising to gameplay, such as multiplayer mode, (several teams of players cooperating among them and against each other), combo hits (so that users must use cooperative strategies to increase their chances to kill the spider, but in the end whoever defects at the optimal moment gets more points for the kill), and more enemies of different kill values instead of just one large spider (so players can focus on few high-value, high-profile values or many easier low-value targets).	
Scenario:	Virtual Character Synchronization	on the vveb
Application:	Spider Game Demo	
Scenario owner:	DFKI – Stefan Lemme	
Technical criteria/justification		Comments
Technical necessity - is it	Feasible/not feasible	Comments
feasible to address the particular scenario without this additional requirement?	TBD by WP4	
Relevance for developers -	Yes/no	Comments
does the fulfilment of the additional requirement offer additional opportunities regarding the reuse of the API/Enabler?	Yes	Enabling more strategizing behavior provides opportunities to demonstrate game sycnhronisation enablers
Relevance for the end users -	Yes/no	Comments
does the additional requirement add value from the user's perspective?	Yes	Increased realism will lead to higher game attractiveness
Are there dependencies	Dependency/no dependency	Comments
among the requirements concerning their implementation?	TBD by WP4	
Can the new requirement be	Yes/no	Comments
implemented within given time and resources?	TBD by WP4	
Aggregation and alignment of new requirements to milestones: Assessment of priority:	TBD by WP4 Essential/high, useful/medium, possible/low, other/no TBD by WP4	
Feedback collected by:	Marc Aguilar, I2CAT	
Event:	AR-xperiment 24 th & 25 th February, 2014	
Event URL:	http://www.eventbrite.es/o/event-organised-by-i2cat-foundation-in-the-framework-of-the-ficontent-2-5875165275	
Topic/theme of event:	Experiment in BCN site	



Format of feedback:	Written answer to open-ended question in feedback questionnaire
Forwarded to:	Marcel Lancelle, ETHZ
Forwarded by:	Marc Aguilar, I2CAT
Action taken:	To be considered for 2 nd experimentation cycle



A.15 Scenario: Tabletop Augmented Reality Games/ Enhanced spider behaviour

Platform/WP:	Pervasive Games – WP4	
Name of new requirement:	Enhanced spider behaviour, with shoot-back functionalities (spider shots back taking into account position of the players, always trying to shoot at the one which is closer, and never shooting lower than the plane of the ground, so that players must move to avoid damage) and auto-adjustable difficulty level (make spider movement faster and more unpredictable depending on % of last missiles hitting the spider (and the opposite), so if you're hitting it often the game gets more difficult))	
Scenario:	Virtual Character Synchronization	,,
Application:	Spider Game Demo	
Scenario owner:	DFKI – Stefan Lemme	
Technical criteria/justification	:	
Technical necessity - is it feasible to address the	Feasible/not feasible	Comments
particular scenario without this additional requirement?	TBD by WP4	
Relevance for developers -	Yes/no	Comments
does the fulfilment of the additional requirement offer additional opportunities regarding the reuse of the API/Enabler?	TBD by WP4	
Relevance for the end users -	Yes/no	Comments
does the additional requirement add value from the user's perspective?	Yes	Increased realism will lead to higher game attractiveness
Are there dependencies among the requirements concerning their implementation?	Dependency/no dependency TBD by WP4	Comments
Can the new requirement be	Yes/no	Comments
implemented within given time and resources?	TBD by WP4	Commente
Aggregation and alignment of new requirements to milestones:	TBD by WP4	
Assessment of priority:	Essential/high, useful/medium, possible/low, other/no TBD by WP4	
Feedback collected by:	Marc Aguilar, I2CAT	
Event:	AR-Experiment 24 th & 25 th February, 2014	
Event URL:	http://www.eventbrite.es/o/event-organised-by-i2cat-foundation-in-the-framework-of-the-ficontent-2-5875165275	
Topic/theme of event:	Experiment in BCN site	
Format of feedback:	Written answer to open-ended qu	uestion in feedback questionnaire



Forwarded to:	Marcel Lancelle, ETHZ
Forwarded by:	Marc Aguilar, I2CAT
Action taken:	To be considered for 2 nd experimentation cycle



A.16 Scenario: Tabletop Augmented Reality Games/ 'Killer Beam' Game

Platform/WP:	Pervasive Games – WP4	
Name of new requirement:	"Killer beam" game: detect hidden monsters in shadows with different light colours and intensities, then kill the monster following it with a 'killer' light beam	
Scenario:	Tier 3	
Application:	New application	
Scenario owner:	TBD – new scenario	
Commercial	Enlarging number of possible use cases	
criteria/justification		
Technical criteria/justification	•	
Technical necessity - is it	Feasible/not feasible	Comments
feasible to address the	TBD by WP4	
particular scenario without this	,	
additional requirement?		
Relevance for developers -	Yes/no	Comments
does the fulfilment of the	TBD by WP4	
additional requirement offer		
additional opportunities		
regarding the reuse of the		
API/Enabler?	V l	0
Relevance for the end users -	Yes/no	Comments
does the additional	TBD by WP4	
requirement add value from		
the user's perspective? Are there dependencies	Dependency/pe dependency	Comments
among the requirements	Dependency/no dependency TBD by WP4	Comments
concerning their	I BD by WP4	
implementation?		
Can the new requirement be	Yes/no	Comments
implemented within given time	TBD by WP4	Comments
and resources?	122 Sy VII 1	
Aggregation and alignment of	TBD by WP4	
new requirements to	,	
milestones:		
Assessment of priority:	Essential/high, useful/medium, p	ossible/low, other/no
. ,	TBD by WP4	
Feedback collected by:	Marc Aguilar, I2CAT	
Event:	AR-xperiment	
Event URL:	24 th & 25 th February, 2014 http://www.eventbrite.es/o/event-organised-by-i2cat-foundation-in-	
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Topic/theme of event:	Experiment in BCN site	
Format of feedback:	Written answer to open-ended question in feedback questionnaire	
Forwarded to:	Marcel Lancelle, ETHZ	
Forwarded by:	Marc Aguilar, I2CAT	
Action taken:	To be considered for 2 nd experim	nentation cycle



Annex B FEEDBACK DOCUMENTATION TEMPLATE V2.0

Platform/WP:		
Name of new requirement:		
Scenario:		
Application:		
Scenario owner:		
Technical criteria/justification	:	
Technical necessity - is it	Feasible/not feasible	Comments
feasible to address the		
particular scenario without this		
additional requirement?		
Relevance for developers -	Yes/no	Comments
does the fulfilment of the		
additional requirement offer		
additional opportunities		
regarding the reuse of the		
API/Enabler?	V /	
Relevance for the end users -	Yes/no	Comments
does the additional		
requirement add value from the user's perspective?		
Are there dependencies	Dependency/no dependency	Comments
among the requirements	Dependency/no dependency	Comments
concerning their		
implementation?		
Can the new requirement be	Yes/no	Comments
implemented within given time	1 00/110	Commonte
and resources?		
Aggregation and alignment of		1
new requirements to		
milestones:		
Assessment of priority:	Essential/high, useful/medium, po	ossible/low, other/no
Feedback collected by:		
Event:		
Event URL:		
Topic/theme of event:		
Format of feedback:		
Forwarded to:		



Forwarded by:	
Action taken:	

end of the document