Development of knowledge-based web services to promote and advance Industrial Symbiosis in Europe (**eSymbiosis**) LIFE09/ENV/GR/000300



ACTION 4: Capacity Building D4.1 Set of comments for improvement



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eSymbiosis, 4.1 Capacity Building – Set of Comments for Improvement

1. INTRODUCTION

During Action 4, user feedback was gathered, between February 2014 and May 2014, and was used to correct behaviour, in the case of a bug, or error in the process, improve performance, in the case of slow response or no-response (in some occasions) or to improve the look and feel of the User centred components of the User Interface (UI).

This document captures, analyses and presents the user feedback, as gathered in trainings, or during internal demonstrations to the team of experts (PIC, NTUA and ENVIRECO).

The process of gathering feedback has resulted as foreseen to the improvements of the eSymbiosis platform and portal.

As an overview, there were two major releases of the eSymbiosis platform. The second release was driven by feedback referring to user experience and navigation suggestions.

However, these changes were accompanied by a second major release of the semantic component which also required redesigning and reestablishing integration between the two software systems.

The User Manual was prepared by CLMS, integrating the parts where the User Interaction is driven by the components developed by AVCO. The manual was approved by the business users, and was updated to reflect the latest User Interace aspects and the look and feel of the Platform tools and services. So, in the following, we present the user Feedback per release, and the User Manual appended in Appendix A.

2. INITIAL RELEASE FEEDBACK

DETAILED FEEDBACK

The following table summarizes feedback regarding the first major release of the eSymbiosis portal. The evaluation touches upon the following areas:

- Home Page
- Portal
- Navigation
- Registration
- Login
- Organization and Site Registration
- Member Sites and Statistics
- Editing, Searching and Matching Resources

Module	Category			
Home Page	The site does not provide the user a hint of what he can do with it.	Usability - Content		
Home Page	There should be more text and in a better structured way to inform the user.	UI - Content		
Home page	e page Perhaps there should be different content on the homepage for registered users such that guests are invited to browse and register, but once registered we don't need to show the same level of advertising?			
Home Page	Usability - Content			
Home Page	IS definition is probably not helpful in this page	UI - Content		
Home Page	Add funding-related link to Life to the footer	UI - Content		
Home Page	Why is the Research section needed?	UI - Content		
Home Page	Home Page We could include a small banner that rotates through helpful text along the lines of what the benefits are and how easy it is to use, but it should be small enough to have other content beside it, perhaps 200x 200?			
Home Page	Feature			
Home Page	There is a problem of accessibility, the entry to the members area is not very clear.	UI - Usability		
Home Page For text there can be (like in EETT) a button / option to increase / decrease text size.		UI - Usability		
Home Page We propose that you google "symbiosis" and bring text from available sites		Functional		
Home PageWho are the members and what they can achieve.		Usability - Content		
Home Page	Home Page Include links to Kalundborg and the so many other links available			
Portal	Portal The behavior between browsers is not consistent (the issue of supporting /. switching between languages)			
PortalThe green-on-black menu is low contrast and so does not draw user attention - it's not inconceivable that being an EU project we should at least consider accessibility, which does not favour low-contrast colour schemes or mouse-only operation		UI - Design		
Navigation	Navigation The menus are a bit confusing.			
Navigation	Navigation The interface is ontology based, however, quite complicated, it is still in prototype status in any case (i.e. pointers and cryptic codes are machine and not user oriented).			
Navigation	Usability			

	There could be different tabs for user types, involving	UI - Functional		
	different material.			
	could be led to a special page that would be			
	uncluttered Have a look to the EETT (Greek			
	Telecoms and Post Authority)			
	where in the left top there are three different entries			
	for Public, Industry, Journalists			
Navigation	Once registered there's no easy way to get at each of	UI - Usability		
	the types of information added, such as organization,			
	site, contact and resource. Perhaps sub-menus might			
	be effective, or a summary page that lists each of the			
NT • 4•	types in a single easy-to-follow page?			
Navigation -	The member menu needs to reflect the current stage	UI - Functional		
Registration	of the registration to allow the user to leave and return at a later time, as well as provide a club as to			
	what we want them to do next. Currently this only			
	occurs for the organization and not beyond meaning			
	that if the user leaves the registration wizard for any			
	reason there's no way to get back to it.			
Registration	The registration process is very long.	Usability		
Registration	The user does not have any indication of how or	Usability		
	where to register, or even that they should need to.			
Registration	The site registration page is very long and contains	Usability		
	fields that have no meaning to the user, like RegionId			
	-1, and as previously mentioned latitude and			
	longitude should be hidden and instead derived from			
	http://where vahooanis com/geocode?g=Mayromatio			
	n+39.+Athens.+GR)			
Registration	Perhaps during site registration the practitioner	Usability - UI		
section could be hidden and shown to them after				
	registration as part of a welcome page?			
Registration	Clicking continue at various points during the	Bug		
	unclear, and some need the spelling to be corrected			
Registration	All mandatory fields should be highlighted when any	Functional - UI		
	is missing otherwise the user will fill one in only to			
Degistration	Functional III			
Registi attoli	been successful as it re-opens onto a blank form	Functional - OI		
	presumably to add another site or site contact -			
	perhaps we could have a confirmation that clarifies			
	what's going on and what's next?			
Registration	gistration Skipping that blank form causes an error page to be			
_	-			
	query string is -1			

Registration - Login	Usability		
Login	Login After Logging in the user should see more clearly the available choices instead of a menu added to the previous view.		
Organization	Should the organization be associated to a single region (and thus a single practitioner) rather than having it per-site?	Functional	
Member- sites map	Map- Functional		
Member- sites map	Allow presentation of different industrial sectors with different colors	Map - UI	
Member- sites map	Iember- sitesSIC code – use another name; users are not supposed to know what it is		
Member- sites map	Map - UI		
Member- sites map	Iember- sites The town does not work properly. I played around with different towns; still I get 'Sximatari' all the time		
Member- sites map	Then I tried different Counties for the same town. No complaints, still the same result	Map- Functional	
Member- sites map	When I choose a SIC (e.g. 'χρωστικές'), the run- down menu should be adjusted accordingly (e.g. according to the regions that are available for this SIC)	Map- Functional	
Member Site	 Do we trust the user to enter the correct region? More specifically will the practitioner have the ability to re-assign to a different region? 	Functional	
Member Site	Why does a region have a latitude and longitude shown during registration but not afterwards?	Functional	
Member SiteIn "My Sites" page the user can see related sites. Maybe it could be clearly defined what that means.		UI - Content	
Edit MemberGoing through the menu to edit the same site as previously failed also throws an error when trying to add a site contact.		Bug	
Member Sites – Statistics Page	In the "Member Sites" and "Statistics" pages the SIC code should be replaced by the NACE v.2. ($\Sigma TAKO\Delta 2008$) code used in the Viotia database, by the EU and has been added to the ontology.	UI - Content	
Statistics map	Statistics map should be dynamic and related to the member	Map- Functional	

Resource MatchingThe lifecycle of a resource still needs to be defined, but I anticipate that we'll need some way for a user to approve their submission which will trigger the automated matching. Any matches resulting from that will then be communicated to both the registering user and also the user owning the matched resource.		Functional	
Edit resource Editing an existing resource needs to invalidate any previous matches that involve it and also prevent it from taking part in subsequent matches until it is approved by the user.		Functional	
Search Resources	Resources - 'All' should be allowed	Functional	
SearchNo units in the quantitiesResources		Functional	
SearchResources - Whichever I tried I had no resultResources		Functional	
Search	Search functionality still needs to be discussed, both by way of how the user communicates what they're looking for and also how we then perform the searches and display the results.	Functional - UI	

3. FINAL RELEASE FEEDBACK

OVERVIEW

Based on the feedback that was provided regarding the initial release, CLMS proceeded with a new design that was more modern and intuitive, and thus it would provide a better experience for the end user. A new look and feel was used, and procedures were made simpler, and more transparent to the end user.

Aside from the change of the appearance of the portal, changes were made with respect to the integration of the portal with the semantic component, allowing for the semantic component to be the single place for storing resources, while the portal would only be responsible for submitting requests for managing these.

Finally, in terms of technologies, the new version featured a lot of improvements, as several technical components were replaced with more technologically advanced ones providing a more extensible technological platform for incorporating additional functionality in the future. Moreover, though these changes, the new version of the portal was more robust and resilient to unexpected input and user actions, and more informative messages were displayed to users upon failure. With respect to the content, a major change was the switch to NACE classification in the ontology. NACE is the European equivalent of SIC and it offers both Greek and English labels.

DETAILED FEEDBACK

The following table summarizes feedback regarding the second major release of the eSymbiosis portal. The evaluation touches upon the following areas:

- Portal
- Navigation
- Registration
- Editing, Searching and Matching Resources
- Synergies
- Success Stories

Module	Issue	Category
Portal	Browser support – is this still only fully compatible with Chrome? Please confirm browser compatibility. These comments are based on me using Chrome on a Mac. I also tested briefly with Safari and although there were a few odd things happening it was still possible to use the site. I've not tested using $IE - I$ presume this will be the browser used by the majority of the members though so should be considered to be a 'must have' in terms of compatibility	UI - Usability
Portal	Page width – I thought the page was going to be fixed width so it didn't 'wrap' the links at the top if the browser page was less than 1280 wide?	UI - Usability

Portal	Overall look and feel – still rather too much 'white space' and a need to scroll down. And the font under the main images on the home page is still wrong (I was told previously that this was something to do with me having a Mac, but this shouldn't still be an issue at this late stage). I thought these issues were going to be sorted in this version.	UI - Usability
Portal	Look and feel generally - the page size is a bit big and there ¹ s a lot of space. It might look and feel better if it can be made smaller. The graphics are generally ok - we can come back and polish as necessary in advance of the demo. I have to say I was surprised that you haven ¹ t used hotspots on the graphic as links to the registration process. It also means that the flow in the graphic will follow the flow in the system more accurately.	UI - Usability
Portal	The rollover 'tooltips' are good. I did notice that the one for editing an incomplete resource was missing but I think that's the only one.	UI - Usability
Portal	Greek language version – while the rest of the page is in Greek, system generated notification messages are in English. Is this correct? It seems a bit odd.	Localization
Portal	Regarding the overall look and feel we felt that the main graphics and overall page are a little too large.	UI
Portal	We need to review which fields are mandatory throughout the whole system. Could you produce a complete list of fields and highlight the mandatory ones please? There needs to be more description of what ¹ s happening on each page, and probably something that says where the system takes you next. Otherwise each form feels a bit isolated.	Usability - Content
Navigation	I ¹ m a bit concerned that the navigation at the top of the screen isn ¹ t quite right. The things that people will want to get to easily relating to the process itself are entering/editing company or site details; entering or editing resources; searching for potential matches; tracking potential synergies. I think that resources and searching should have their own clearly identified links.	Usability
Registration	My Sites page – the map still defaults to San Francisco when the page loads first time and before any search criteria are added. Surely it's possible to have the default Google map set to center on Athens when it first comes up?	Usability
Registration	The process for entering personal details is ok, but it's not obvious what I get at that stage as a result. Does it give access to additional resources or features? Does it register me for an e- newsletter? The privacy and data security policy needs to be emphasized at the start of the process - maybe by including some sort of "by proceeding you	Usability - Content

	accept" message box with a "ves/no" option to click?				
Registration	Company details - why is the VAT number required? (I don ¹ t think it ¹ s needed). I think that turnover would be better dealt with as a dropdown that gives ranges rather than asking for a specific number (it can be a sensitive issue). Perhaps one of the Greek partners could guide us on appropriate ranges to include for the Viotia region? Many of the fields in this section are unavailable for input so I was only able to put a very limited amount of information in. Sites - the way this page works is ok, but it took me	Domain Usability -			
	longer than it should to understand what to do. Again, some description of what to do and what happens next would be helpful. One of the location references that the system produced (latitude) had an error in it so it crashed the page. The mapping wasn ¹ t working properly as far as I could see, but that may be because of a lack of data for it to work with.	Functionality			
Matching	Seems to be working better in terms of the results and the way they present on the page is very good, but surely it shouldn't be possible to create a match with your own site? I suggest that the system should be excluding match results from the member's own site. This is a fundamental issue and needs to be dealt with before the system can be released to a wider group of users.				
Synergies	The basic process seems to work ok, but it looks like there's no functionality available to block a synergy in this version and this is <u>vital</u> . You recall that this was a significant point I was making to the delegates at the last event – being able to understand why synergies don't work. There are some errors in the system messages when a synergy is advanced (may be an EN/GR translation issue?) When a synergy is agreed as complete it's not obvious what happens next – it might be helpful to add a message about completing the metrics and case study. In the metrics, what is 'review request'? Again, not obvious.	Functionality			
Search	The 'guest resource search' needs more work – it's not clear how to use it or what it's showing. The way the figures present themselves should be more engaging than just a couple of boxes. The idea is that this 'sells' the benefit of joining the network to guests, which it doesn't achieve at the moment.	Usability - Functionality			
Search	Member level resource search – needs further work. It's not intuitive enough and members won't understand how to use it. Shows none of the details for each resource (e.g. quantity, availability) that it should do.	Usability - Functionality			
Search	Member level site search – initially the system	Functionality			

Search	wasn't seeing most of the sites. This was because it hadn't translated the co-ordinates that I'd provided in my spreadsheet into real addresses. I did this manually for each site today, so each now has a physical address registered. The industrial activity and contact number columns on the site search results are empty, which is a pity. The search facility is not very intuitive. You first need	Usability -
	to add a keyword and then choose from the drop down list before clicking on search. The first thing I did was give a keyword and click search. The result was to get all registrations for each keyword. In general, the results were good, identifying concepts with the keywords.	Functionality
Search	A general comment is that when you are looking at the results you cannot differentiate between haves and wants. Of course I understand that someone who registered a resource should know what it is. However, it might be a good idea to note the available and requested resources.	Usability
Search	It needs more work in several respects. This is a key feature so needs to be really slick and intuitive. Members need to be able to search for companies by industrial activity, but they also need to search for the availability of particular resources as well. I can ¹ t see that anywhere at the moment. Is there a way of getting the map to show multiple results e.g. say three or four industrial activities, several different resource types etc.? Remember that much of the added value of Industrial Symbiosis is in enabling innovative matches from different industries. I ¹ ve not been able to get any further than displaying sites with a particular activity on a map. What you do and where you go next is unclear.	Usability - Functionality
Success Stories	Case studies – this isn't a systems issue exactly, we need to give more thought to the way case studies present themselves on the 'success stories' page, for example providing a standard template in the metrics form that generates a single page in a standard format. This is something that I'd suggest can be done before the conference in June rather than being needed for the next (Capacity Building) event or the training sessions.	Functionality
Resources	Resource entry – 'unit' should be next to 'quantity' in the list (I've asked for this before). Would be helpful if a 'save and return' identified what mandatory information was missing rather than just creating an incomplete resource. The 'edit' tooltip was missing as noted above. Seems ok at the basic level of creating a resource by type. I'm not sure about the way the 'composition material' entry	Functionality

	works though, as it seems to be asking for the same characteristic and availability information again for just a single component material – have I misunderstood what this is doing? I thought that if I created something like 'Track Ballast' as a resource, I'd be able to say something about its composition like 70% was limestone, 20% was granite and 10% was sand, and this would be key information for the ontologies when looking for potential matches. It looks like I can only enter one composition material against each resource – is this correct?	
Resources	Technologies – this seems to work ok and I like the way it comes up as a potential match. My only question is whether it might be possible (and appropriate) to allow technologies to remain available to match even after they've been included in a synergy? I suggest this needs to be discussed by the whole group.	Functionality
Resources	For user 4, two resources with different quantities have different scores. Both quantities cover the request. Same for user8 and user9 and methane gas. This is probably caused by the scaling of the values. I was just thinking that since both cover the request we should consider whether it is a priority to use as much as we can from a large amount of available resource or use the lower first (that still covers the request) and keep the larger one for better matches?	Functionality
Resources	Resources - would it be possible to have a calendar popup embedded in the date cells? If not, there needs to be an indication of the required date format. There a couple of bits of fine tuning to the order of data entry I ¹ d like to look at (e.g. prompting for the unit before the quantity).	Usability

4. SUMMARY AND CONCLUSIONS

During the capacity building process, interacting with the business participants of the eSymbiosis, and with the users, their feedback was captured in both major releases of the eSymbiosis portal, has driven the changes and resulted improvements to the platform.

The final release of the platform within the project, as other improvements are expected in the process of its use, offers an intuitive interface for members of the Industrial Symbiosis community to be able to register their resources, search for matches and create synergies with other organizations.

5. ΠΕΡΙΛΗΨΗ ΚΑΙ ΣΥΜΠΕΡΑΣΜΑΤΑ

Σε αυτό το κείμενο, παρουσιάσαμε τα σχόλια χρηστών που λάβαμε σχετικά με τις δύο εκδόσεις του συστήματος που παρουσιάστηκαν, και πως αυτά τα σχόλια οδήγησαν σε αλλαγές και βελτιώσεις της πλατφόρμας eSymbiosis.

Η πλατφόρμα που παράχθηκε προσφέρει ένα εύχρηστο περιβάλλον για τα μέλη της κοινότητας της Βιομηχανικής Συμβίωσης, μέσω του οποίου μπορούν να εγγραφούν, να περιγράψουν τους πόρους τους, να αναζητήσουν άλλους πόρους που να ταιριάζουν με αυτούς που διαθέτουν ή αιτούνται, και τέλος να δημιουργήσουν συνέργειες με άλλους οργανισμούς.

6. APPENDIX A: USER MANUAL

THE ESYMBIOSIS PLATFORM

One of the main objectives of the eSymbiosis project was the development of a Web Based Platform for Industrial Symbiosis communities, offering automation, supporting SMEs and enabling public administrators (municipalities, regional offices) to implement their environmental policy.

Industrial Symbiosis is an association between two or more industrial facilities or companies in which the wastes or byproducts of one become the raw materials for another. Within a digital industrial symbiosis ecosystem, companies improve Resource efficiency, trade material, energy or water and share assets, logistics services and expertise.

The eSymbiosis Platform:

- Is a bilingual web-based platform (supporting both English and Greek), which enables users to participate in industrial symbiosis activities.
- Supports ontology-based semantic matching of shared and requested Resources in order to identify possible synergies; collaboration tools enables stakeholders' communication within the same environment.
- Is powered by the model driven development environment <u>zAppDev[®]</u>.

USER REGISTRATION

A user that visits the website for the first time, needs to register by selecting "**Register Today!**" in order to use the platform.



Image 1: Home Page

In the screen that follows, the user that represents the Organisation, adds his/her user account details, by providing basic information such as title, name, and e-mail.

"e sym	bi@sis					
		HOME	SEARCH STATISTICS	SUCCESS STORIES	ABOUT US	🛎 SIGN IN 🗸
Sign Up						
Title: First Name: Last Name: Email: Username:	[Please Select]	× 	Already have an	account? Sign In		
Password: Confirm Password:						
I want to r I agree to Register	ceive the latest news about features and events. he terms and conditions of the eSymbiosis platform					

Image 2: Adding Registration Details

Next, the user receives the following email message with a link to verify the specified email address.

esymbi@sis				
Dear Panagiota ,				
Please click the link below to verify your registration as Member at eSymbiosis:				
http://esymbiosis.clmsuk.com/Forms/PersonEmailVerificationForm/ValidateCode?code=28E34A3CACFC				
Your login information is provided below:				
Username : user24 Password : 1234				
The eSymbiosis team				
13/6/2014 2:39:43 иш	Copyright 2011-2014 © eSymbiosis			

Image 3: Verification E-mail

By clicking on the provided link, user is redirected to the website and his/her email address is registered as verified.



Image 4: Registration Verification Message

A second email message is received informing the user regarding the successful email address verification and the registration completion.



Image 5: Registration Completion Message

The User may now login with his/her credentials, in order to start using the platform functionality.



Image 6: User Sign In

The User is guided to complete his/her profile by messages that appear below the top menu.



Image 7: User Guidance Message

SUBMISSION OF ORGANISATION DETAILS

The User of an Organisation can fill in the Organisation details, following a multi-step process, as presented in the following screenshots:

Step 1: Registering an Organisation

In the following screen, the user has to provide the basic Organisation information, such as

- the Organisation name,
- the web address,
- the size of the organisation,
- contact details.

		HOME	SEARCH	STATISTICS	MEMBER SITES	SUCCESS STORIES	ABOUT US	A PANAGIOTA BOURHA ~	
gister Org	ganisation								
me:									
mber of ployees:	[Please Select]			•					
bsite Url:									
nover:	[Please Select]			•					
Contact Person									
NO Use my Title:	details as the Contact Person o	f this Organisatio	n	•					
NO Use my Title: First Name:	details as the Contact Person o	f this Organisatio	n	•	Last Name:	ŗ			
NO Use my Title: First Name: Telephone:	details as the Contact Person o	f this Organisatic	n	•	Last Name: Fax:				
NO Use my Title: First Name: Telephone: Mobile:	details as the Contact Person o	f this Organisatio	n	•	Last Name: Føx: Email:				
NO Use my Title: First Name: Telephone: Mobile:	details as the Contact Person o	f this Organisatio	n	•	Last Name: Fax: Email:				
NO Use my Title: First Name: Telephone: Mobile: Address:	details as the Contact Person o	f this Organisatic	n	The second seco	Last Name: Fax: Email: PostalCode:				
NO Use my Title: First Name: Telephone: Mobile: Address: Number:	details as the Contact Person o	f this Organisatio	n		Last Name: Fax: Email: PostalCode: County:				
NO Use my Title: First Name: Telephone: Mobile: Address: Number: Town:	details as the Contact Person o	f this Organisatio	n	• 	Last Name: Fax: Email: PostalCode: County:	[[[[Please Select]			

Image 8: Organisation Profile Details

The user may update this information at any later point, by entering the new details and choosing Update Organisation Details.

Step 2: Adding Organisation Sites

After registering an organisation, the User can add the organisation Sites. A Site can be a production unit, a warehouse, or a branch of an organisation.

	incic					> My Organisati	on > My Invitations
e ymd) T S S T S						
_		HOME SEARCH	STATISTICS	MEMBER SITES	SUCCESS STORIES	ABOUT US	🛔 PANAGIOTA BOURHA 🗸
our organisation sources!	currently has no sites. Add	a site today to start	sharing and re	equesting			Add a Site
/lv Organi [,]	sation						
. <u>)</u>							
Name:	Random						
Number of	1.50.5						
employees:	1-50 Employees						
Website Url:							
Turnover:	[Please Select]		•				
Sites							
Register a New Sit	te						
	Site Name	Industrial Ac	tivity		Region	Date /	dded
No records.							
Contact Person							
NO Use	my details as the Contact Person of th	is Organisation					
Title:	Mrs.		•				
Eirst Name-				Last Name			

Image 9: Registered Organisation Profile

Apart from the Site details, such as name and activity sector, the user provides the geographical information of the Site. By entering the address details, the corresponding location is shown in the provided map.

New Site			
Site Info			
Site Name:	Sample Site		
Industrial Activity:	Growing of tobacco	Select Industrial Activ	9
Address			
Search: Andr	ea Papandreou, Marousi, Greece		
ABPETE Processes TEATE (Processes) TEATE (Toury State) MEDONG MEDONG	The Mail Alberto Constant The Mail Alberto Constant Alberto Co		Attended Company Co
Address:	Andrea Papandreou	Postal Code:	
Town:	Marousi	Area:	North Athens
County:		Country:	Greece
Latitude:	38,04	Longitude:	23,79
Telephone:		Fax:	
Website Un:			



The user may access the Sites' details at any later point by clicking the corresponding menu item My Sites at the upper right of the screen.

In the "My Sites" page, the user may modify each Site's details and also view how Sites are placed geographically, on a map.

Save Cancel



Image 11: My Sites Overview

Users may also search registered Sites from other organisations by choosing Search. The search engine displays all registered Sites on the map and a table list each Site's details including:

- Organisation
- Site Name
- Industrial Activity
- Telephone
- Distance from current user's Site.



Image 12: Searching Sites

Upon saving the Site information, the user can then start registering requested Resources or Resources available to share. This action initiates the Resource Registration process for the selected Site, as explained in the following section (Step 3). And upon saving the changes, the Resources are shown in the "My Resources" page.



Image 13: Sharing/Requesting Resources

Step 3: Adding Resources

Once the user has registered a Site, a Resource can be added using the *Share or Request Resources* button, as mentioned previously (Image 13). Alternatively the user can add Resources by choosing Resources from the Top menu (Image 14). Both choices, take the user to the Resource registration page which allows them to follow a sequence of prompts that are designed to first classify and then add details to the Resource they would like to register, either it is shared or requested.

	> My Organisation	ı → My Sites → M	ly Resources > My Syne	ergies > My Notific	ations (2) > My Invitations
	HOME SEARCH	STATISTICS	VEMBER SITES SUCCE	SS STORIES ABO	UT US 🔒 GIORGOS ARSENIS 🗸
My Resources					
Resources Select one of your sites to add a Resource: [Please Se Matchable Resources Ready and Incomplete Resource	lect] es	×			
Site Resource Name	Quantity	Unit of Measurement	Valid From	Valid To	Number of Matches
Lamia 💿 🔳 🟠 Mixed packaging waste	250,00	Tonnes	01/01/2014	01/01/2015	0
Lamia 💿 🗖 🚯 Scrap aluminium	10.000,00	Tonnes	01/01/2014	01/01/2015	1 🔳

Image 14: Resources Page

During the Resource registration process, the Organisation user can specify if the Organisation's Site is:

- 1. Offering a Resource
- 2. Having a Technology, or
- 3. Wanting a Resource

Image 15: Resource Registration

Selecting each option will change the right-hand pane, which allows the user to continue the registration process and add details about the Resource Type the Site can supply or requests.

By selecting the *Back* button on the top, the user will return to the previous view.

For example, in the case of registering a Resource to supply, clicking on the "Type of Resource you can Supply" takes the user to a new page where he/she can choose from the different types of Resources, using the collapsible list on the left.

Role					Back
Type of Resource you can Supply					
an't find what you're looking for?	Search				
 Classify Resource by Characteristic Biodegradable Resource Combustible Materials Classify Resource by Source (based on EWC) By EWC Code By Ingredients Animal and Mixed Food Waste Animal Faeces And Manure Paper Waste Vegetal Waste Classify Resource by Type Energy Materials by Type 	Î	Resource Name Quantity Produced Unit of Measurement Valid From Valid To Physical Form Is Your Resource Hazardous? supplying more information may improv	* * * * * * * *	(choose) (choose) (choose) Yes No	▼ ▼
Products					

Register a Resource

Image 16: Resource Classification Details

The user has the option of searching this list using the search box above – in this example the word "Iron" shows 10 entries and the highlighted numbers show where these can be located.

Role: I have a resource to offer	Back
Type of Resource you can Supply	
Can't find what you're looking for? Iron results: 🚺 🧕	lear Search
 Classify Resource by Characteristic Classify Resource by Source (based on EWC) Classify Resource by Type 10 Energy Materials by Type 10 Ceramics Chemicals 2 Composites Metal Material 3 Ferrous Metal Alloys 3 Nonferrous Metals and Alloys Minerals Organic Materials & Biomass Plastics 	Resource Name
Save & Return Cancel Save & Continue	

Image 17: Searching Resource Type

After selecting the Resource type, the user adds the properties of the Resource to the right of the classification list (Image 17) such as quantity and physical form (solid, liquid, etc.); red asterisks represent those fields that are required to be filled in before the registration can be approved.

Finally the user can choose to save his/her entries and continue adding more Resources using the "Save & Continue" button, discard unsaved responses using the "Cancel" button, or both save and return to the Site overview page using the "Save & Return" button.

SEARCHING FOR RESOURCE MATCHES

The Resources page presents a list of all the Organisation's Resources per Site, classified in categories:

- 1. Matchable Resources (Those Resources for which a potential match has been found).
- 2. Ready and Incomplete Resources (Resources with incomplete Information or Resources for which a search match hasn't been performed).
- 3. Resources in Synergies (Resources that have already resulted in synergy).
- 4.

HOME SEARCH STATISTICS MEMBER SITES SUCCESS STORIES ABOUT US KRITON TOUSSAS Resources Select one of your sites to add a Resource: [Please Select] • Matchable Resources Resources in Symergies Meddy and Incomplete Resources in Symergies Site Resource Name Quantity Unit of Measurement Veid from Valid To Listis <td< th=""><th></th><th></th><th>> My Organisation > My</th><th>y Sites > My Resources ></th><th>My Synergies > My Notifications <mark>5</mark></th><th>> My Invitations</th></td<>			> My Organisation > My	y Sites > My Resources >	My Synergies > My Notifications <mark>5</mark>	> My Invitations
Resources Select one of your sites to add a Resource: [Plesse Select] Matchable Resources Resources in Synergies Site Resource Name Quantity Unit of Measurement Valid From Valid To Voolda Q Amme Quantity Unit of Measurement Valid From Valid To Voolda Q Amme Quantity Unit of Measurement Valid From Valid To Voolda Q Amme Quantity Unit of Measurement Valid From Valid To Voolda Q Amme Quantity Unit of Measurement Valid From Valid To Voolda Q Amme Quantity Unit of Measurement Valid From Valid To Voolda Q Amme Quantity Unit of Measurement Valid From Valid To Voolda Q Amme Quantity Unit of Measurement Valid From Valid From Valid To Voolda Q Amme Quantity Unit of Measurement Valid From Valid From Valid From Valid From Valid From </th <th></th> <th>I</th> <th>IOME SEARCH ST/</th> <th>ATISTICS MEMBER SITES</th> <th>SUCCESS STORIES ABOUT US</th> <th>KRITON TOUSSAS ~</th>		I	IOME SEARCH ST/	ATISTICS MEMBER SITES	SUCCESS STORIES ABOUT US	KRITON TOUSSAS ~
Select one of your sites to add a Resource: [Please Select] Matchable Resource: Ready and Incomplete Resources: Resources in Synergies Site Ready and Incomplete Resource: Resources in Synergies Site Resource Name Quantity Unit of Measurement Valid from Valid To Site Resource Name Quantity Unit of Measurement Valid from Valid To Site Resource Name Quantity Unit of Measurement Valid from Valid To Site Resource Name Quantity Unit of Measurement Valid from Valid To Site Resource Name Quantity Unit of Measurement Valid from Valid To Site Resource Name Quantity Unit of Measurement Valid from Valid To Site Resource Name Quantity Unit of Measurement Valid from Valid To Site Resource Name Quantity Unit of Measurement Valid from Valid To Site Lorry tyre 10.00 kg 04/06/2014 30/06/2014 30/06/2014 Site Outo Outo </td <td>Resources</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Resources					
Matchable Resources Ready and Incomplete Resources Resources in Synergies Site Resource Name Quantity Unit of Measurement Valid From Volid To [Vidil • • • • • • • • • • • • • • • • • • •	Select one of your sites	to add a Resource: [Please Select	3	•		
Site Valid From Valid From Valid From Livadia Image: Site Strape 25.00 Tonnes 01/01/2014 01/01/2015 Livadia Image: Site Strape 0.00 Site Site Strape 0.00 Site Site Strape Livadia Image: Site Strape 0.00 Site Site Site Strape 0.00 Site Site Site Strape Livadia Image: Site Site Strape 0.00 Site Site Site Site Site Site Site Site	Matchable Resources	Ready and Incomplete Resources	Resources in Synergies			
Livadia Mixed plastic scrap 25.00 Tonnes 01/01/2014 01/01/2015 Livadia Image: Control and the strate scrap 0.00 Image: Control and the scrape Image: Control and the scrape	Site	Resource Name	Quantity	Unit of Measureme	nt Valid From	Valid To
Livadia Lorry tyre Lory tyre	Livadia 💌 🖍	Mixed plastic scrap	25.00	Tonnes	01/01/2014	01/01/2015
Luxadia Lury tyre 10.00 4 04/06/2014 30/06/2014 Luxadia 10.00 10.00	Livadia 💿 🖍		0.00			
Luadia 2 0.00 Luadia 2 0.00 Karpenisi 2 0.00	Livadia	Lorry tyre	10.00	kg	04/06/2014	30/06/2014
Luadia 	Livadia 💌 🖍		0.00			
Karpenial Ampenial Ampenial<!--</td--><td>Livadia 💿 🖍</td><td></td><td>0.00</td><td></td><td></td><td></td>	Livadia 💿 🖍		0.00			
Karpenis Arpenis A 	Karpenisi 💿 🖍		0.00			
Karpenisi 	Karpenisi 💌 🖍		0.00			
Karpenisi Ampenisi Ampenisi<!--</td--><td>Karpenisi 💿 🖍</td><td></td><td>0.00</td><td></td><td></td><td></td>	Karpenisi 💿 🖍		0.00			
Karpenial 	Karpenisi 💿 🖍	•				
Karpenisi 0.00 Karpenisi 0.00 Karpenisi 0.00 Karpenisi 0.00 Karpenisi 0.00 Karpenisi 0.00	Karpenisi 🖉 🖍		0.00			
Karpenisi 0.00 Karpenisi 0.00 Karpenisi 0.00	Karpenisi 💿 🖍		0.00			
Karpenisi 0.00 Karpenisi 2 0.00	Karpenisi 💿 🖍		0.00			
Karpenisi 💿 🖍 0.00	Karpenisi 💿 🖍		0.00			
	Karpenisi 💿 🖍		0.00			

Image 18: Resources Page – Resource Categories

The User can view or edit the details of a registered Resource or withdraw it, if it is no longer available, using the buttons next to the Resource name.

I have a resource to offer : 15 01 06 mixed packaging

Site: Lamia	
Details:	
Name	Mixed packaging waste
Quantity	250,00
Unit of measure	Tonnes
Valid From	01/01/2014
Valid to	01/01/2015
ls this information confidential?	NO
Physical Form	Solid
Is Your Resource Hazardous?	NO

Image 19: Viewing Resource Details

In order to initiate a search for potential synergy matches with other available Resources, the user has to click on the Search button, in the Resource details, as shown below.

Resources					
Resources					
Select one of your sites to add a Resource: Ready and Incomplete Resources	[Please Select]		•		
Site	Resource Name	Quantity	Unit of Measurement	Valid From	Valid To
Sample Site 💿 🖍		0,00			
Search for matches	Tabacco	1,00	Tonnes	16/06/2014	01/08/2014

Image 20: Searching for Resource Matches

When this action is selected, the mechanism retrieves matching Resources for potential Synergies.

RESOURCE MATCHES

For a selected Site, the user can see the retrieved matches for each of the Site's available Resources, by clicking the View List of Matches button from each row of the Resources table.

For example, the following screen shows that for each of the Site Resources, there are multiple (four) potential Resource matches.

ase Select]	•			
mplete Resources				
ource Name Quantity	Unit of Measurement	Valid From	Valid To	Number of Matches View Matches
Tabacco 1,00	Tonnes	16/06/2014	01/08/2014	4 🔳
	ase Select] omplete Resources ource Name Quantity Tabacco 1,00	ase Select] mplete Resources ource Name Quantity Unit of Measurement Tabacco 1,00 Tonnes	ase Select] mplete Resources Multiplete Re	ase Select] mplete Resources Unit of Measurement Valid From Valid To Tabacco 1,00 Tonnes 16/06/2014 01/08/2014

Image 21: Matchable Resources

By clicking *View*, the user can view the details for the retrieved matches of the selected Site Resource. If a Resource match seems compatible, the Organisation user can select the *Create Synergy action* with the specific Resource match.

> My Organisation > M	ly Sites > My Resou	rces > My Synergies	> My Notificati	ions > My Invitations
EARCH STATISTICS	MEMBER SITES	SUCCESS STORIES	ABOUT US	🌡 PANAGIOTA BOURHA ~
.	My Organisation > M	My Organisation > My Sites > My Resou	My Organisation > My Sites > My Resources > My Synergies	My Organisation > My Sites > My Resources > My Synergies > My Notificati ARCH STATISTICS MEMBER SITES SUCCESS STORIES ABOUT US

Resource Matches

Resource		
Туре	02 01 03 - Plant-tissue waste	
Name	Tabacco	
Quantity	1,00	
Unit of measure	Tonnes	
Valid From	16/06/2014	
Valid to	01/08/2014	

Resource Matches									
	Organisation	Resource	Relevance		Name	Quantity	Unit of measure	Valid From	Valid to
Create Synergy	Oil Refining SA	Olive Husk	40%	۵	Olive pulp	1.000,00	Tonnes	01/01/2014	01/01/2015
Create Synergy 👁	New Heat and Power SA	Potato	40%	۵	starchy biomass	20.000,00	Tonnes	01/05/2014	30/11/2014
Create Synergy 👁	Green Paint SA	Starch	36%	۵	Starch	500,00	Tonnes	01/01/2014	01/01/2015
Create Synergy 👁	Oil Refining SA	Mixed Food Waste	33%	۵	Used food oil	25.000,00	Tonnes	01/01/2014	01/01/2015



This action creates a new Synergy and the corresponding Synergy form is shown to the user, as explained in more detail in the following section.

SYNERGY LIFECYCLE

In the Synergy form, the two participating Organisations can:

- View details about the other participant
- View details about the Resource match, the properties of the Resources, etc.
- Submit their agreement to proceed to the next step of the Synergy lifecycle.
- Block the Synergy process for a specified reason, so that the IS Practitioner will have to be involved to resolve the issue and unblock the Synergy.
- Submit comments for the other participating Organisation.

			→ My	Organisation	> My Sites	> My Resources	> My Synergies	> My Notifications	My Invitation:
	NS272								
			HOME	SEARCH	STATISTICS	MEMBER SITES	SUCCESS STORIES	ABOUT US	PANAGIOTA BOURH
art a new S	Synergy								
Step 1: Idea		Step 2: Dis	cussion		Step 3: Negoti	ation	Step 4: Implementa	ation	Step 5: Complete
			Suggest to	the participa	nt organisation	to move this syner	gy forward.		
roposed stage	Discussion				•	Submit Request			
roposed stage	Discussion				•	Submit Request			
roposed stage	Discussion				•	iubmit Request			
roposed stage	Discussion				2	Submit Request			
roposed stage Cancel this Synergy	Discussion				2	Submit Request			
roposed stage Cancel this Synerg)	Discussion				•	Submit Request			
roposed stage Cancel this Synergy My Resource	Discussion					iubmit Request	ie.		
roposed stage Cancel this Synergy /ly Resource	Discussion	Plant-tissue	waste			Submit Request	ie a : Olivia Husk		Relevance: 30 50
roposed stage Cancel this Synergy Ay Resource I have a resource t	Discussion	Plant-tissue	waste			Submit Request Matched Resource	e e : Olive Husk		Relevance: 30,50
roposed stage Cancel this Synergy Ay Resource I have a resource t Site: Sample Site	Discussion	Plant-tissue	waste			Matched Resource	e e : Olive Husk		Relevance: 30,50
roposed stage Cancel this Synergy /ly Resource I have a resource t Site: Sample Site Details:	Discussion	Plant-tissue	waste			Matched Resource I want a Resource Site: Amfikeia Details:	te e : Olive Husk		Relevance: 30,50
roposed stage Cancel this Synergy Ay Resource I have a resource to Site: Sample Site Details: Name	Discussion	Plant-tissue	waste			Matched Resource	te e : Olive Husk	Olive pulp	Relevance: 30.50
roposed stage Cancel this Synergy Ay Resource I have a resource t Site: Sample Site Details: Name Quantity	Discussion	Plant-tissue Tab.	waste			Matched Resource I want a Resource Site: Amfikela Detalla: Name Quantity	e e : Olive Husk	Olive pulp 1.000,00	Relevance: 30,50
roposed stage Cancel this Synergy Ay Resource I have a resource t Site: Sample Site Details: Name Quantity Unit of measure	Discussion	Plant-tissue Tab. 1.00 Ton	waste			Matched Resource I want a Resource Site: Amfikela Details: Name Quantity Unit of measure	e e : Olive Husk	Olive pulp 1.000,00 Tonnes	Relevance: 30,50
roposed stage Cancel this Synergy My Resource I have a resource t Site: Sample Site Details: Name Quantity Unit of measure Vaild From	Discussion	Plant-tissue Taba 1,00 Tani	waste acco nes			Matched Resource I want a Resource Site: Amfildela Detalla: Name Quantity Unit of measure Valid From	e : Olive Husk	Olive pulp 1.000,00 Tonnes 01/01/2014	Relevance: 30,50
Annual stage	Discussion	Plant-tissue Tab. 1,00 Ton 16/0	waste acco nes 16/2014			Matched Resource I want a Resource Site: Amfidela Detalla: Name Quantity Unit of measure Valid From Valid Iron	:e e : Olive Husk	Olive pulp 1.000,00 Tonnes 01/01/2014	Relevance: 30,50

Image 23: Staring a New Synergy (1)

Participant Organisation: O	Dil Refining SA				
Nagles Salerno	Albania		Tekirdağo O Kart Burs	izmit Bolu Carik	m Con Map Sate
E 7/	Керкар	Greece	Balikesir	Ankara Kirikka	le
Catan	zaro	Patras	rgean Sea	\rightarrow	Turkey
sala Cattanissetta oCatania	Ionian Sea	Athens	Tire® Nazilli Aydin Deniz	li . Isparta	Kahramanmar
Ragues O Syracuse		Kalamata	Marmanis Datça Rhodes o Fethiy	Antalya O Manavgat	Adana

		Map data ©2014 Basarsoft, GeoBasis-DE/Bk	G (©2009), Google, Mapa GISrael, ORION-ME, basado en BCN IGN Es	paña Terms o
ddress:	Ofitias	Postal Code:	350 02	
own:		Area:	Phthiotis	
ounty:	Sterea Ellada	Country:	Greece	
elephone:	+30-210-3707018	Fax:		
ebsite Url:				
ebsite Uri:				
ebsite Un: cussion				
ussion Submit a new co	mment:			
ebsite Url: :ussion Submit a new co	mment			
ebsite Url: cussion Submit a new co	mment:			bmit commen

Image 24: Staring a New Synergy (2)

The Synergy lifecycle has the following steps, as indicated in the corresponding screen:

- 1. Discussion
- 2. Negotiation
- 3. Implementation
- 4. Completion

To progress from one step to the next, both Organisations have to agree that they are ready to proceed, by selecting the corresponding drop-down list (i.e. *Implementation*) and clicking *Submit Request*.

eSymbiosis, 4.1 Capacity Building – Set of Comments for Improvement

ynergy					
Step 1- I de		Step 2 Discussion	Step 2: Negotiation	Step 4: Implementation	Step 5: Complete
Step Inde	-		Step 5. Hegodatori		Step 5. complete
		Suggest to the p	articipant organisation to move th	nis synergy forward.	
Proposed stage	Implementation		Submit Requ	est	
	Complete				

Image 25: Moving Synergy Forward

Then a notification is sent to the other Organisation user, in order to review the Synergy and maybe agree to the continuation of the process. When this agreement is mutual, the Synergy progresses to the next step and a notification is sent to both parties. A notification is also sent to participants when the Synergy has been updated or blocked.

	A 1	a	
N/N/	Notit	ications	
	1 Och	icución is	

M I 2 M M	Total Records: 29 Records: 1 to 20	
1 16/06/2014 14:35	Steel Products SA requested to move your synergy forward.	ଡ଼ଡ଼⊠ୣୣୖ୶୲୲
2 16/06/2014 14:35	Steel Products SA created a synergy with one of your resources.	
3 16/06/2014 11:09	Organisation Steel Products SA Cancelled the Synergy.	€●⊠∎∎
4 16/06/2014 10:23	Steel Products SA created a synergy with one of your resources.	€●⊠∎∎
5 20/05/2014 08:06	Plastic Pipes SA requested to move your synergy forward.	€●⊠■∎
6 20/05/2014 08:06 ⊠	Plastic Pipes SA denied your request to advance your synergy.	
20/05/2014 08:06	Plastic Pipes SA requested to move your synergy forward.	

Image 26: Notifications

An example of the notification is shown below when choosing "View Message":



Image 27: Notification Message

When clicking on the "View the Related Synergy" button the user is transferred to the synergy page where he/she can "Accept" or "Deny" the request.

Vmbi@s	is	⇒ Му О	rganisation	> My Sites	> My Resources	 My Synergies 	> My Notifi	cations 21	> My Invitations
		HOME	SEARCH	STATISTICS	MEMBER SITES	SUCCESS STO	DRIES ABC	OUT US	🛎 MARILENA TZAVEI
ergy									
Step 1: Idea	Step 2: Discu	ission		Step 3: Neg	otiation	Step 4: Imple	mentation		Step 5: Complete
0110/10/2014 2	.55.47 FW, Steel Frouuct	is SA Sugge	sted that you	,					
01 07 10/2014 2	.55.47 FM, Steel Fround	13 JA 30656	sted that you	Accept	Deny				
0110/10/2014 2	.55.47 FM, Steer Frouder	13 3A 30666	sted that you	Accept	Deny				
v Resource		371 2625	sted that you	Accept	Deny Matched Resou	irce			
y Resource want a Resource : Rubber Tyr	123,47 PM, Steel Produce	334.36226	sted that you	Accept	Deny Matched Resou Thave a resour	Irce ce to offer : Rubbe	er Tyres		Relevance: 75.05
y Resource want a Resource : Rubber Tyr	res	3 34 36256	sted that you	Accept	Deny Matched Resou I have a resour Site: Livadia	irce ce to offer : Rubbe	er Tyres		Relevance: 75.05
y Resource want a Resource : Rubber Tyr ite: Livadia Details:	res	אין	sted that you	Accept	Deny Matched Resou I have a resour Site: Livadia Details:	rrce ce to offer : Rubbe	er Tyres		Relevance: 75.05
y Resource want a Resource : Rubber Tyr jite: Livadia Details: Name	res test-rap	hael	steo that you	Accept	Deny Matched Resour I have a resour Site: Livadia Details: Name	rrce ce to offer : Rubbe	er Tyres	Raph's tyres	Relevance: 75.05
y Resource want a Resource : Rubber Tyr jite: Livadia Details: Name Quantity	res test-rap	hael	sted that you	Accept	Deny Matched Resour I have a resour Site: Livadia Details: Name Quantity	rce ce to offer : Rubbe	er Tyres	Raph's tyres 100.00	Relevance: 75.05
y Resource want a Resource : Rubber Tyr lite: Livadia Details: Name Quantity Unit of measure	res test-rap 1.00 kg	hael	sted that you	Accept	Deny Matched Resour I have a resour Site: Livadia Details: Name Quantity Unit of measure	rce ce to offer : Rubbe	≥r Tyres	Raph's tyres 100.00 kg	Relevance: 75.05
y Resource want a Resource : Rubber Tyr lite: Livadia Details: Name Quantity Unit of measure Valid From	res test-rap 1.00 kg 01/01/2	hael	sted that you	Accept	Deny Matched Resour I have a resour Site: Livadia Details: Name Quantity Unit of measure Valid From	rrce ce to offer : Rubbe	er Tyres	Raph's tyres 100.00 kg 11/06/2014	Relevance: 75.05

Image 28: Approving/Denying moving Synergy to the next step

The participating organisations can access all their Synergies from the corresponding option of the upper right menu:

o v m h i la s i s	→ My O	rganisation	> My Sites >	My Resources	My Synergies > My	Notifications 5	> My Invitations	
	HOME	SEARCH	STATISTICS	MEMBER SITES	SUCCESS STORIES	ABOUT US	KRITON TOUSSAS ~	
My Synergies								
Pending Synergies All Synergies								
1 16/06/2014 10:23 Idea	Livadia		Aluminiu	m Recycling SA			Ð	

Image 29: My Synergies

Synergies are presented in categories:

- 1. All Synergies
- 2. Pending Synergies
- 3. Cancelled Synergies

Clicking on the View Synergy button takes the user to the Synergy details page.

	> My Organisa					> My Invitations
ST2						
_	HOME SEA	RCH STATISTICS	MEMBER SITES	SUCCESS STORIES	ABOUT US	KRITON TOUSSAS ~
My Synergies						
Deadline Granestice All Granestice						
All Synergies						View Synergy
1 16/06/2014 10:23 Idea	Livadia	Alumin	ium Recycling SA			

Image 30: View Synergy Button

Also, the Notifications can be viewed at any point, from the upper right menu as well:

							≝ ₩
	> My Orga			My Resources	> My Synergies > M		
R AUDT@212							
_	HOME	SEARCH	STATISTICS	MEMBER SITES	SUCCESS STORIES	ABOUT US	🌲 IOANNIS SKYLAKAKIS ~

Image 31: My Notifications (Top Menu)

A user can proceed to different actions directly from the notification message, using the buttons on the right:

- 1. View the Related Synergy (if the message is about a synergy)
- 2. View Message
- 3. Mark as Read
- 4. Bookmark Message
- 5. Delete Message



Image 32: Notification Message (Buttons)

BLOCKING/UNBLOCKING SYNERGY

As mentioned previously, the participating Organisations can block the Synergy progress from the corresponding option.

Synergy					
Step 1: Idea		Step 2: Discussion	Step 3: Negotiation	Step 4: Implementation	Step 5: Complete
		Suggest to the pa	articipant organisation to move this s	synergy forward.	
Proposed stage	[Please Select]		▼ Submit Request		
Cancel this Synerg	y				~

Image 33: Cancelling Synergy (1)

Synergy					
Step 1: Idea		Step 2: Discussion	Step 3: Negotiation	Step 4: Implementation	Step 5: Complete
		Suggest to the p	articipant organisation to move this	synergy forward.	
Proposed stage	[Please Select]		▼ Submit Request		
Cancel this Synerg	y				^
Reason for cancelling:			Cancel this Syme	EY	

Image 34: Cancelling Synergy (2)

In case one of the two participants selects to block the Synergy progress, the IS Practitioner is notified about the issue. [Note that the IS Practitioner users are created from the Administrator].

Reason for cancelling: Symergy was blocked for the following reason. Could not agree on quantity with the other party	Cancel this Synergy		^
	Reason for cancelling:	Symergy was blocked for the following reason. Could not agree on quantity with the other party	Cancel this Synergy

Image 35: Justifying reason for Synergy Cancellation

The IS Practitioner is responsible for resolving the issue and can then unblock the Synergy from the corresponding button in the Synergy screen. After the Synergy is unblocked, its lifecycle can continue as normal.

√ mbi@si	> My Organis	ation > My Sites > My Resources	> My Synergies > My	Notifications 5 > My Invitation
	НОМЕ	SEARCH STATISTICS MEMBER	SITES SUCCESS STORIES	ABOUT US 🆀 KRITON TOUSSA
hergy				
Step 1: Idea	Step 2: Discussion	Step 3: Negotiation	Step 4: Implementation	n Step 5: Complete
		This Synergy has been Cancelled!		
ly Resource		This Synergy has been Cancelled! Matched Re	source	
fy Resource I have a resource to offer : Rubber	r Tyres	This Synergy has been Cancelled! Matched Re	source source : Rubber Tyres	Relevance: 75.05
ly Resource I have a resource to offer : Rubber Site: Livadia	r Tyres	This Synergy has been Cancelled! Matched Re I want a Re Site: Livadia	source source : Rubber Tyres	Relevance: 75.05
ly Resource I have a resource to offer : Rubber Site: Livadia Details:	r Tyres	This Synergy has been Cancelled! Matched Re I want a Re Site: Livadia Details:	source source : Rubber Tyres	Relevance: 75.05
ly Resource I have a resource to offer : Rubber Site: Livadia Details: Name	r Tyres Raph's tyres	This Synergy has been Cancelled! Matched Re I want a Re Site: Livadia Details: Name	source source : Rubber Tyres	Relevance: 75.05 test-raphael
ly Resource I have a resource to offer : Rubber Site: Livadia Details: Name Quantity	r Tyres Raph's tyres 100.00	This Synergy has been Cancelled! Matched Re I want a Re Site: Livadia Details: Name Quantity	source source : Rubber Tyres	Relevance: 75.05 test-raphael 1.00
ly Resource I have a resource to offer : Rubber Site: Livadia Details: Name Quantity Unit of measure	r Tyres Raph's tyres 100.00 kg	This Synergy has been Cancelled! Matched Re I want a Re Site: Livadia Details: Name Quantity Unit of meas	source source : Rubber Tyres	Relevance: 75.05 test-raphael 1.00 kg
ly Resource I have a resource to offer : Rubber Site: Livadia Details: Name Quantity Unit of measure Valid From	r Tyres Raph's tyres 100.00 kg 11/06/2014	This Synergy has been Cancelled! Matched Re I want a Re Site: Livadia Details: Name Quantity Unit of meas Valid From	source source : Rubber Tyres	Relevance: 75.05 test-raphael 1.00 kg 01/01/2014

Image 36: Cancelled Synergy Details

The IS Practitioner can access his/her list of Blocked Synergies through the Synergies page accessible through the upper right menu option, as shown below, and then in the last tab of that page.

						See 199
e <v< b="">mbi@sis</v<>	> My Organisation	→ My Sites → My	Resources > My	/ Synergies > My N	otifications <mark>5</mark>	> My Invitations
	HOME SEAR	CH STATISTICS	MEMBER SITES	SUCCESS STORIES	ABOUT US	🛔 KRITON TOUSSAS ~
My Synergies						
All Synergies Cancelled Synergies	làvadia	Aluminium	Penyrling CA			
1 16/06/2014 10:23 Idea	Livadia	Aluminium	Kecycling 54			

Image 37: Cancelled Synergies List

ADDING METRICS

From Organisation user's perspective: The Organisation user has to submit a number of metrics, in relation to the Synergy. These metrics can be submitted after the Synergy is completed by clicking the "Report Metrics".

<⊽mbi@sis	> My Organisation	> My Sites > My Resources	> My Synergies > My No	otifications 24 > My Invitations
	HOME SEARCH	STATISTICS MEMBER SITE	S SUCCESS STORIES	ABOUT US 🌲 MARILENA TZAVELA 🗸
nergy				
Step 1: Idea	Step 2: Discussion	Step 3: Negotiation	Step 4: Implementation	Step 5: Complete
	Thi	s synergy has been completed!		
		Report Metrics		
My Resource		Matched Reso	ource	
I want a Resource : Rubber Tyres		l have a resou	irce to offer : Rubber Tyres	Relevance: 75.05%
Site: Livadia		Site: Livadia		
Details:		Details:		
Name	test-raphael	Name		Raph's tyres
Quantity	1.00	Quantity		100.00
Unit of measure	kg	Unit of measu	re	kg
Unit of measure Valid From	kg 01/01/2014	Unit of measu Valid From	re	kg 11/06/2014

Image 38: Completed Synergy

The Organisation user can "Save a Draft" of the metrics related to a specific Synergy, and after having finished updating the filled in information, he/she can "Finalize" the report (in the metrics form, the user clicks "Finalize"); then the metrics report is sent to the IS Practitioner for review.

The metrics report include the metrics of both Organisations in synergy.

.e <mark>svm</mark> bi	Øsis	> My Organisation	> My Sites	> My Resources	> My Synergies > M	ly Notifications <mark>(2</mark>	4 > My Invitations
		HOME SEARCH	STATISTICS	MEMBER SITES	SUCCESS STORIES	ABOUT US	🛔 MARILENA TZAVELA ~
Case Study							
Title:							Finalize Save as Draft
Summary:							
			le				
Attachment Doc:	Choose File No file chosen						
My Metrics Particip	oant Organisation: Steel Products SA						
Businesses Assisted:	0	Jobs Created:		0	Review Reque	st:	
Jobs Safeguarded:	0	New Businesses (Treated:	0	New Business	es Surviving:	0
Training Outcomes:	0	CO2Reduction:		0.00	Hazardous Wa Reduction:	aste	0.00
Material Diverted:	0.00	Water Savings:		0.00	Virgin Materia	ls:	0.00
Additional Sales:	0.00	Cost Savings:		0.00	Private Investr	nent:	0.00

Image 39: Synergy Metrics

The IS Practitioner can view the metrics of each Synergy by going to My Synergies and choosing the Metrics icon.

_					
	> My Organisation				ntions
	HOME SEARCH	STATISTICS MEMBER SITES	SUCCESS STORIES	ABOUT US 🛔 KRITON TO)USSAS ~
My Synergies					
All Synergies Cancelled Synergies Completed Syner	rgies				
1 16/06/2014 10:23 Cancelled	ldea	Livadia	Aluminium Recycling SA		•
2 16/06/2014 14:35	Complete	Livadia	Aluminium Recycling SA		•

Image 40: View Metrics Button

When both participants of the Synergy have completed and finalized the metrics report, the report can be published as a "Success Story".

PUBLISHING SUCCESS STORIES

After the Synergy has been completed and the metrics of the two participating organisations have been published, the organisations can publish a new Success Story based on the Synergy and its relevant metrics. The success story can be accessed through the "Success Stories" (top menu).

In the success story form, the Practitioner can view the metrics of the Synergy (Image 41) and can add descriptive details.

My Organisation My Sites My Resources My Synergies My Notifications S My Invi HOME SEARCH STATISTICS MEMBER SITES SUCCESS STORIES ABOUT US KRITON T	tations
HOME SEARCH STATISTICS MEMBER SITES SUCCESS STORIES ABOUT US	
HOME SEARCH STATISTICS MEMBER SITES SUCCESS STORIES ABOUT US 🌢 KRITON T	
	OUSSAS ~
Continue by adding or requesting resources for your sites!	urces
Case Study	
20 One Successful synergy	
05/2014	
Big Bakery SA Oil Refining SA	
Neu Dusingsses Creation 0	
vew Dusitesses Surviving. U	
Jobs Safeguarded: 0 Jobs Created: 0	
C02Reduction: 0.00 Material Diverted: 0.00	
Hazardous Waste Reduction: 0.00 Virgin Materials: 0.00	
Water Savings: 0.00	
Additional Sales: 0.00 Cost Savings: 0.00	
Private Investment: 0.00	

Image 41: Published Success Story

VIEWING SYNERGY STATISTICS

The Organisation user can view Statistics in relation to the Synergies created, the matches, the Sites per county, and the Sites per code. To access this screen, the Organisation user chooses Statistics (top menu).

							≝ #
	> My O	rganisation	> My Sites	> My Resources	> My Synergies	> My Notifications	
ANINT ST2							
	HOME	SEARCH	STATISTICS	MEMBER SITES	SUCCESS STORIES	ABOUT US	MARILENA TZAVELA ~

Image 42: Statistics (Menu)

A view of the statistics is provided below:



Image 43: Statistics (View)

SEARCHING MEMBER SITES

Moreover, the user can go to Member Sites (top menu), to see the Sites located on a map and search for Sites with specific criteria.



Image 44: Searching Member Sites

As shown in Image 44, the criteria that can be specified by the user are Industrial Activity, Site Town, Site County, Site Country. The user can also select one specific Organization from the list of Organizations that appear at the bottom of the page.

