



**forestDSS**

Community of Practice

Forest Management Decision Support Systems

## Development and Use of the ForestDSS Semantic Wiki

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[www.ForestDSS.org](http://www.ForestDSS.org)



## Structure of the presentation

### (1) Basics about the Semantic Web Technology:

- Insight in semantic technologies
- Semantic wiki basic concepts

### (2) The development process of the forestDSS Wiki

- Aim
- Development process
- Overview of the system

### (3) Using the forestDSS wiki

- How to?...
- Examples of queries

### (4) Conclusion



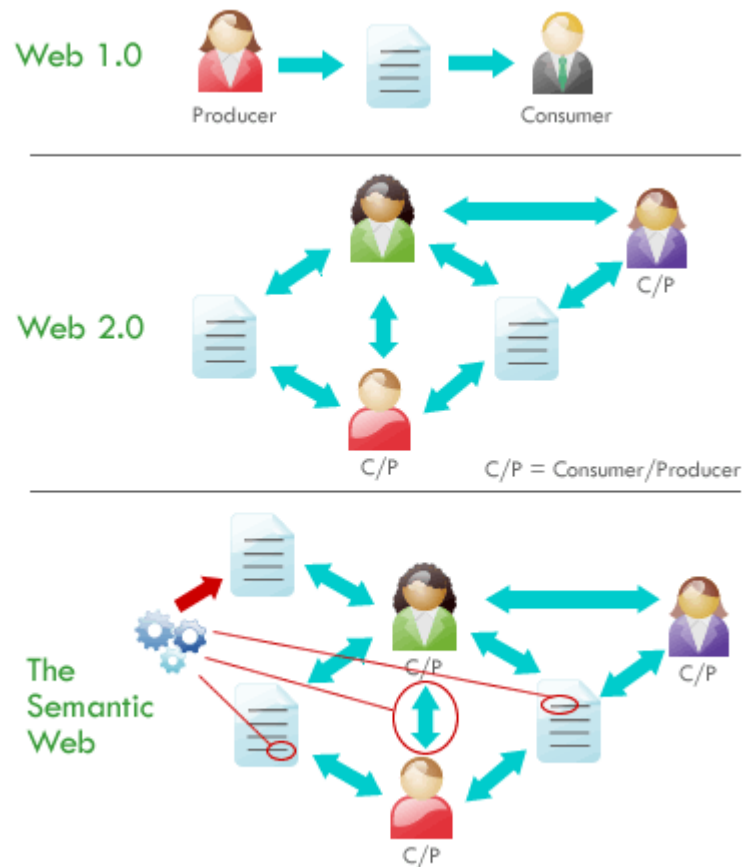
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## **(1). Semantic Web Technology**

# The semantic web is about making computers behave (or 'think') more like humans.



<http://www.experientia.com/blog/2007/07/>

## Cooking analogy:

Think of each website where you put your content as a big cookpot.

You might throw a carrot into one pot and tag it 'carrot', and into another you might put some spaghetti and tag it 'pasta'. Computers are fine with this kind of input.

But... what computers can't do yet is understand that the thing you called 'carrot' is a root vegetable and ... that you are making minestrone soup. It also doesn't know that you have another pot simmering, and that there's pasta in there.

This kind of thinking **requires context**, and an **ability to see the big picture**

that is, to know what's in each pot, and to understand that you're making dinner. That's all that data-meshing is; **it's about applying meaning to information from different sources. It means being able to ask your computer everything...**

carrot



pasta





## Benefits of semantic technologies

- In a specific domain:
  - promote a common understanding
  - share meaning
- Make the content not only readable by human beings but also by machines
  - enhancing the search capabilities (semantic search)
- Import/export knowledge in a standardised way across systems
- Integrate knowledge in a larger entity (e.g., Linked Data Cloud / the Web of Data)



## Semantic wiki technologies

*MediaWiki*



is a free software open source wiki package, originally used for Wikipedia



*Semantic MediaWiki*



extension of MediaWiki ...



## Main elements of semantic media wiki

### 1. Wiki page

basic unit of a wiki, simple and advanced **editing** features

### 2. Categories and properties

wiki content **organisation** & page content **formalization**

### 3. Semantic search

**query** the wiki content

### 4. Wiki forms

**Building up pages** assuring systematic and Consistent use of  
**properties**



# 1. Wiki page: *basic unit*

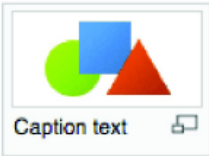
- Shared knowledge about a concept
- Text + resources (e.g., images)
- Formatting > highlight important aspects (bold), list of items, table
- Structure > organise the content of a wiki page in sections; e.g.:  
=header of main level=
- Hyperlink > link to other wiki pages or outside of the wiki; e.g.:  
[[main page]]  
[[http://www.forestdss.org]]

page discussion edit

## Wiki markup quick reference

To make changes to an article, click **Edit** at the top of an article, make your edits, and then click **Save page** . Your edits are now visible to anyone who visits the page. If you have more information to add or need to correct a mistake, make another edit. Do not be afraid - you cannot accidentally make permanent deletions. All previous versions of an article are saved under **View history** and contributors can revert to an earlier version by simply clicking **undo**.

Provided below are shortcuts to frequently used wiki markup that will help you when you edit Wikipedia articles.

Description	What you type	What you get
Italic	<code>''italic text''</code>	<i>italic text</i>
Bold	<code>'''bold text'''</code>	<b>bold text</b>
Section headers	<code>==Heading Text==</code>	Heading Text
	<code>===Heading Text===</code>	<b>Heading Text</b>
	<code>====Heading Text====</code>	<b>Heading Text</b>
Link to another Wikipedia article (Internal link)	<code>[[William Shakespeare]]</code>	<a href="#">William Shakespeare</a>
Link with another displayed title	<code>[[William Shakespeare Shakespeare]]</code>	<a href="#">Shakespeare</a>
Link outside Wikipedia (External link)	<code>[http://www.whitehouse.gov White House website]</code>	<a href="http://www.whitehouse.gov">White House website</a>
Bulleted list	<code>* Bulleted list</code>	• Bulleted list
	<code>** Bulleted list</code>	• Bulleted list
Numbered list	<code># Numbered list</code>	1. Numbered list
	<code>## Numbered list</code>	1. Numbered list
Image with caption	<code>[[File:Example.png thumb Caption text]]</code>	
Your signature for Discussion page	<code>----</code>	<a href="#">Username</a> (talk) 19:50, 6 August 2010 (UTC)
Reference	<code>&lt;ref&gt;[http://example.org Example.org], additional text.&lt;/ref&gt;</code>	Page text. <sup>[1]</sup>
Display references	<code>&lt;references/&gt;</code>	<a href="#">Example.org</a> , additional text





## 2. Category and property: *organization of wiki pages*

### Category

≠

### Property

Classification of wiki pages

Markup: **[[Category:category name]]**

Example: **[[Category:DSS]]**

*... means: the wiki page belongs to the category DSS*

Formalisation of some specific aspects of the content of a wiki page (basically single words or combinations thereof)

Markup: **[[property name::value]]**

Example: **[[has country::Sweden]]**

*... means: the wiki page is characterised by the fact that it is related to Sweden*



## 2. Category and property: *also correspond to wiki pages*

### Category

List of all wiki pages tagged with the category

Example: **DSS**

#### Pages in category "DSS"

The following 55 pages are in this category, out of 55 total.

- |   |   |
|---|---|
| <p><b>A</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">AVVIRK-2000</a></li> <li>■ <a href="#">Agflor</a></li> </ul> <p><b>C</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">CONES</a></li> <li>■ <a href="#">ClimChAlp</a></li> </ul> <p><b>D</b></p> <p>---</p> | <p><b>M cont.</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">MONTE</a></li> <li>■ <a href="#">MatrixGen</a></li> <li>■ <a href="#">Mesta</a></li> <li>■ <a href="#">Monstu</a></li> <li>■ <a href="#">MyTestDSS</a></li> </ul> <p><b>N</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">NorFor</a></li> </ul> |
|---|---|

### Property

List of all wiki pages tagged with the property

Example: **has country**

#### Pages using the property "Has country"

Showing 25 pages using this property.

- |   |  |
|---|--|
| <p><b>A</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">AVVIRK-2000</a> + ⓘ</li> <li>■ <a href="#">Actor Network Theory provides a suitable lens for exploring both technical and human aspects of DSS institutionalization in the forestry domain</a> + ⓘ</li> <li>■ <a href="#">Austria-Improving forestry extension services for small-scale private landowners</a> + ⓘ</li> </ul> <p>---</p> | <p><b>A</b></p> <ul style="list-style-type: none"> <li>■ <a href="#">Norway</a> + ⓘ</li> <li>■ <a href="#">Germany</a> + ⓘ</li> <li>■ <a href="#">Portugal</a> + ⓘ</li> <li>■ <a href="#">Austria</a> + ⓘ</li> </ul> |
|---|--|

### 3. Semantic search:

#### 3.1. *semantic queries to select wiki pages*

Example with category:

**[[Category:DSS]]**



Result:

**all DSSs**, *respectively* a list of all wiki pages with the category „DSS“



Example with property:

**[[has country::Sweden]]**



Result:

**all wiki pages related to Sweden**, *respectively* a list of all wiki pages with the property „has country“ and the value „Sweden“ for this property



**[[Category:DSS]] [[has country::Sweden]]**



Result:

**all DSSs related to Sweden**, *respectively* a list of all wiki pages with the category „DSS“, as well as the property „has country“ and the value „Sweden“



### 3. Semantic search:

#### 3.2. *semantic sub-queries to search across interconnected wiki pages*

Markup: **[[property 1.property 2::value of property 2]]**

1. Select all wiki pages with property 2 and the target value(s) of property 2
2. Select all wiki pages with property 1 and at least a selected wiki page of step 1 as value of property 1

Precondition: value type of property 1 is wiki page

**Indirect search:** instead of searching for a country name, the search focuses on the characteristics of a country

Example: **[[has country.has forest area::>1000000 ha]]**



**Result:** All wiki pages related to a country whose forest area is larger than 1'000'000 ha, *respectively* all wiki pages with the property „has country“ with a value that points to a wiki page, which has the property “has forest area” and a value for this property that is higher than 1'000'000 ha.



### 3. Semantic search:

#### 3.3. Narrow down sub-queries results by using categories

##### Example Category:

**[[Category:DSS]]**



Result:  
all wiki pages with the  
category „DSS“



##### Example with properties:

**[[has country.has forest area::>1000000 ha]]**



Result: all wiki pages related to a country whose  
forest area is larger than 1'000'000 ha



**[[Category:DSS]] [[has country.has forest area::>1000000 ha]]**



Result:

**All DSS related to a country whose forest area is larger than 1'000'000 ha.**

All wiki pages with the category „DSS“, as well as with the property „has country“ with a value, which points to a wiki page that has the property “has forest area” and a value for this property that is higher than 1'000'000 ha

## 4. Wiki forms: *Systematic and Consistent use of properties*

- Properties can be integrated on wiki forms
- Wiki forms can be related to categories
- Thus, all wiki pages of the same category can be edited with the same properties thanks to the wiki form
- In other words, properties can be allocated to a category through a wiki form, which gives categories a central role in semantic wikis

page discussion **edit with form** edit history delete

### Edit DSS: WIS.2

Wiki quality control \_\_\_\_\_

**Flag:** [?](#)  N/A  red  yellow  green

---

Name, responsible organisation and contact person \_\_\_\_\_

**Full name:** [?](#) Sustainable Forest Management C

**Acronym:** [?](#) WIS.2

**Contact person for the Wiki:** [?](#) Christian Rosset

**Contact e-mail for the Wiki:** [?](#) christian.rosset@bfh.ch

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Software identification \_\_\_\_\_

**Software (name of the detail wiki page):** [?](#) WIS.2.Software



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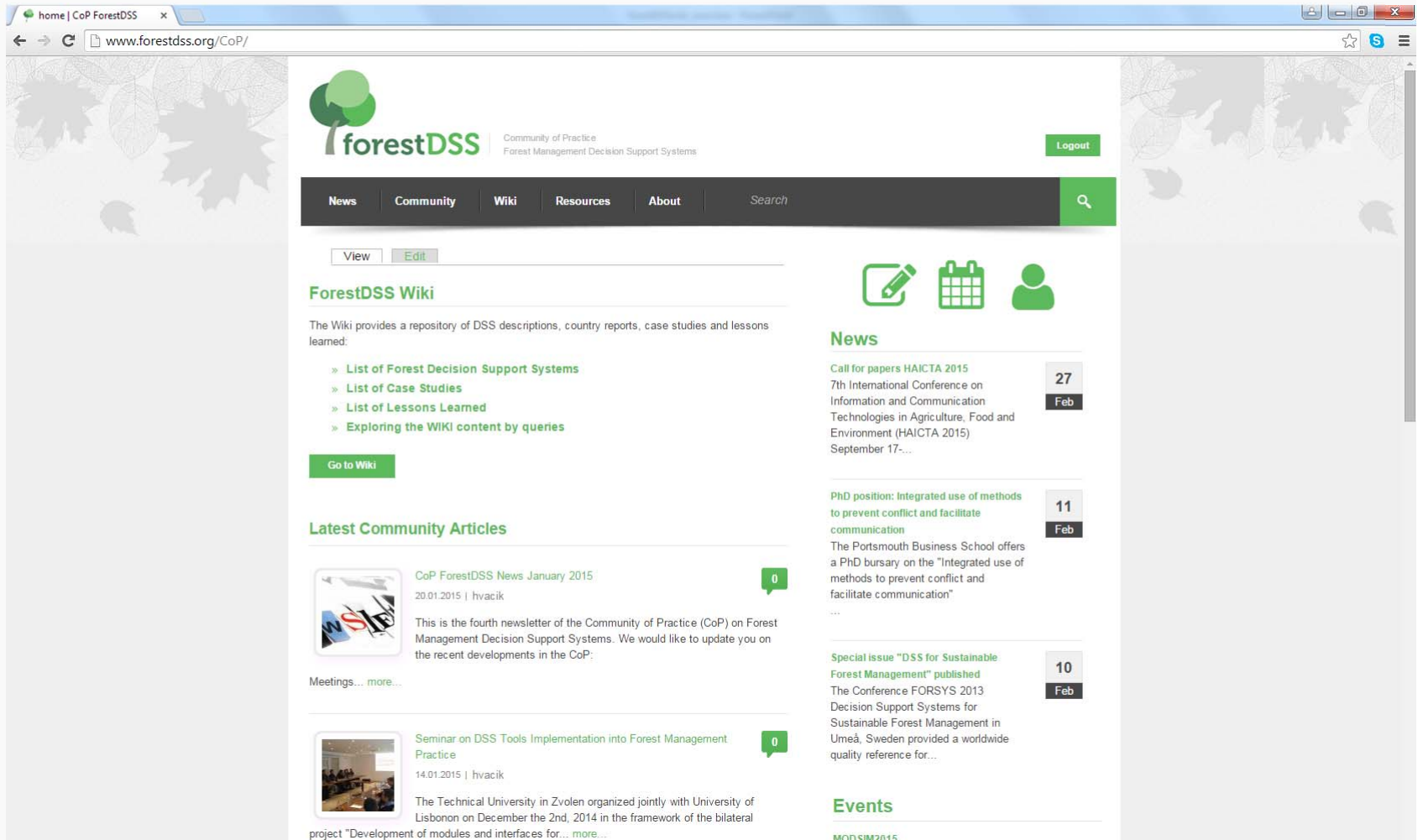
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## **(2). The development process of the forestDSS Wiki**

# www.forestDSS.org/wiki

Aims at promoting a *common understanding* about Decision Support Systems for Sustainable Forest Management, as well as at *sharing knowledge* about DSSs to improve efficiency and effectiveness of forest management.



The screenshot shows a web browser window displaying the forestDSS website. The page features a navigation menu with options for News, Community, Wiki, Resources, and About. The main content area is titled "ForestDSS Wiki" and includes a "View" and "Edit" button. Below this, there is a description of the Wiki's purpose and a list of links: "List of Forest Decision Support Systems", "List of Case Studies", "List of Lessons Learned", and "Exploring the WIKI content by queries". A "Go to Wiki" button is also present. The "Latest Community Articles" section lists two articles: "CoP ForestDSS News January 2015" and "Seminar on DSS Tools Implementation into Forest Management Practice". The "News" section on the right highlights three items: "Call for papers HAICTA 2015", "PhD position: Integrated use of methods to prevent conflict and facilitate communication", and "Special issue 'DSS for Sustainable Forest Management' published".



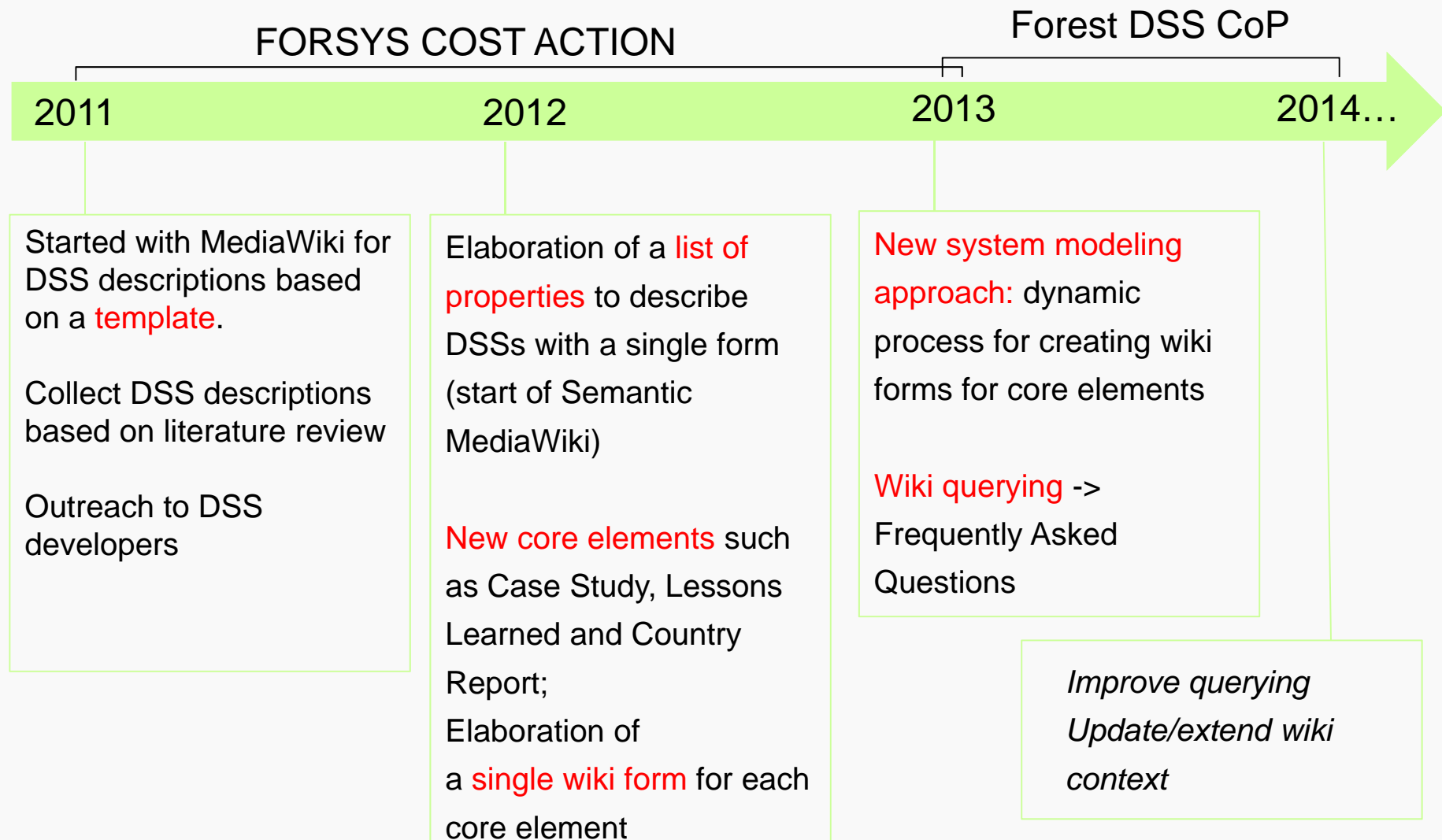


## Who are potential users of our information?

- Researchers
  - Identify important research needs
- Developers (IT specialists)
  - Identify what DSS capabilities already exist
  - Find useful development tools / methods
  - Learn about development best practices
- Analysts (IT specialists)
  - Identify useful DSS
  - Learn about using DSS in decision processes
- Resource managers, regulators
  - See potential for DSS use
  - Learn about using DSS in decision processes
- General public
  - How they are involved in decision making
  - Perceptions of results / outcomes
- Policy makers
- Interest groups



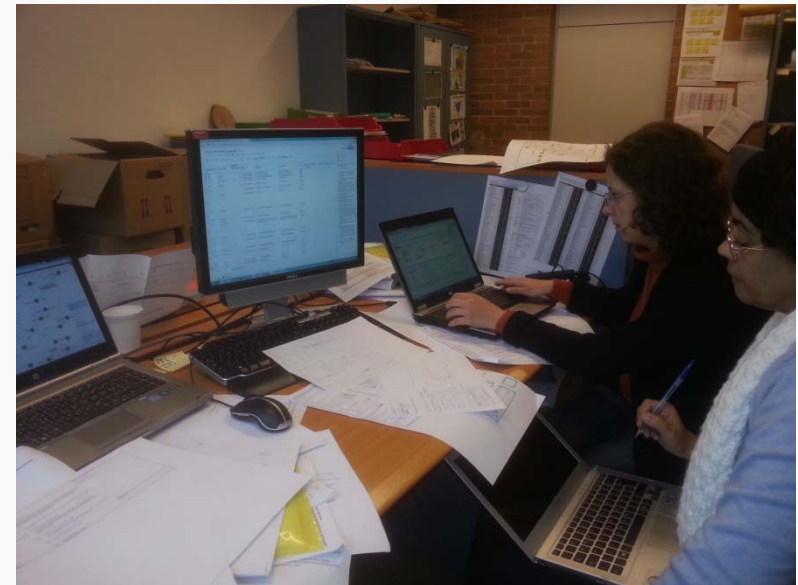
## Wiki development process





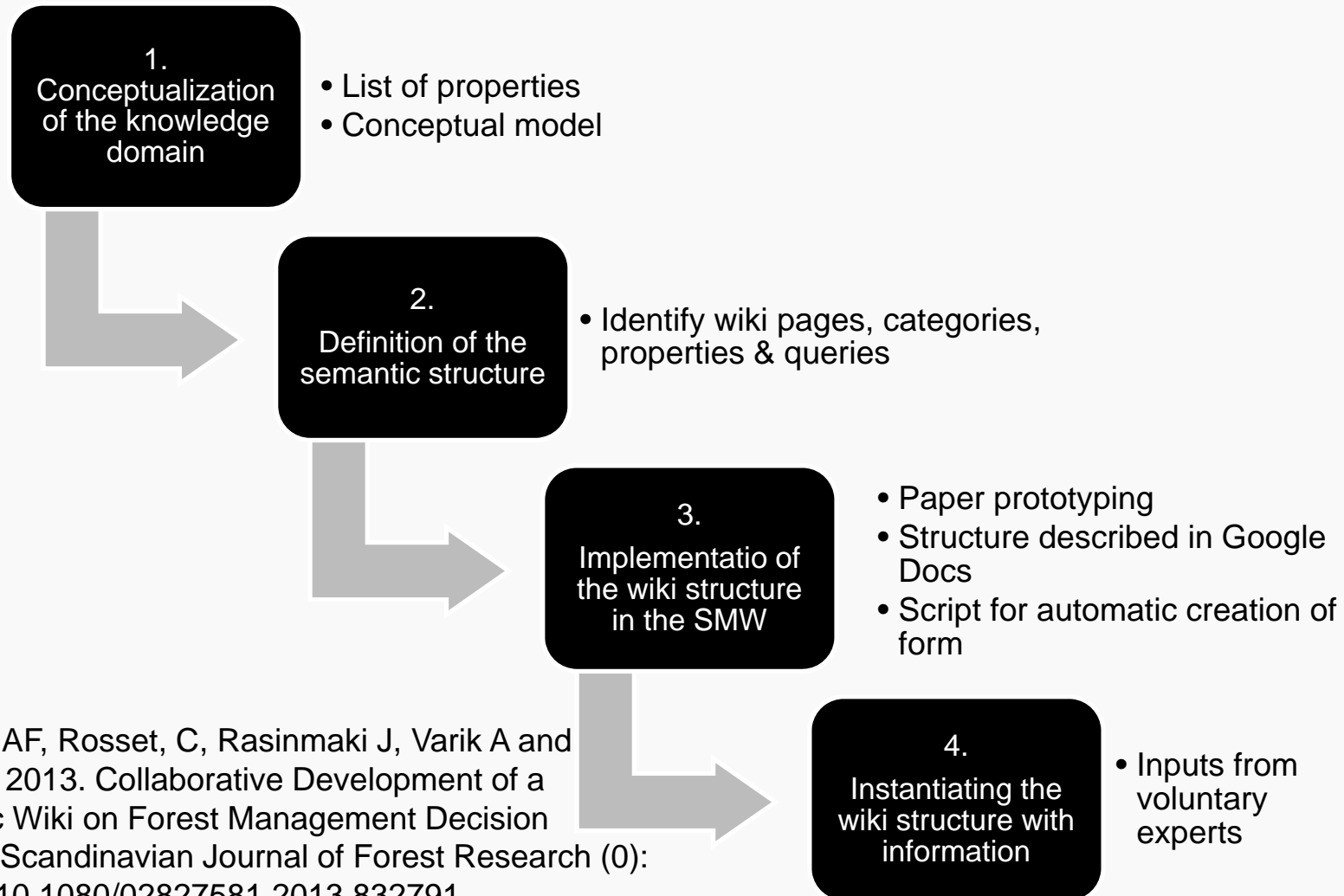
## Main features of the development process

- Participative:
  - Workshops during COST FORSYS meetings (Thessaloniki 2011, Leuven 2011, Zvolen 2012, Porto 2012\*, Brussel 2013\*) \*only WTF (WikiTaskForce)
  - Skype for meetings in-between
  - Google Drive platform especially for collaborative work on the property list
  - ConceptMe to design the FORSYS wiki system about its main categories
- Basically bottom-up approach with regular top-down phases to consolidate
- Limited resources





## New “system modelling” approach for wiki design



+ info:

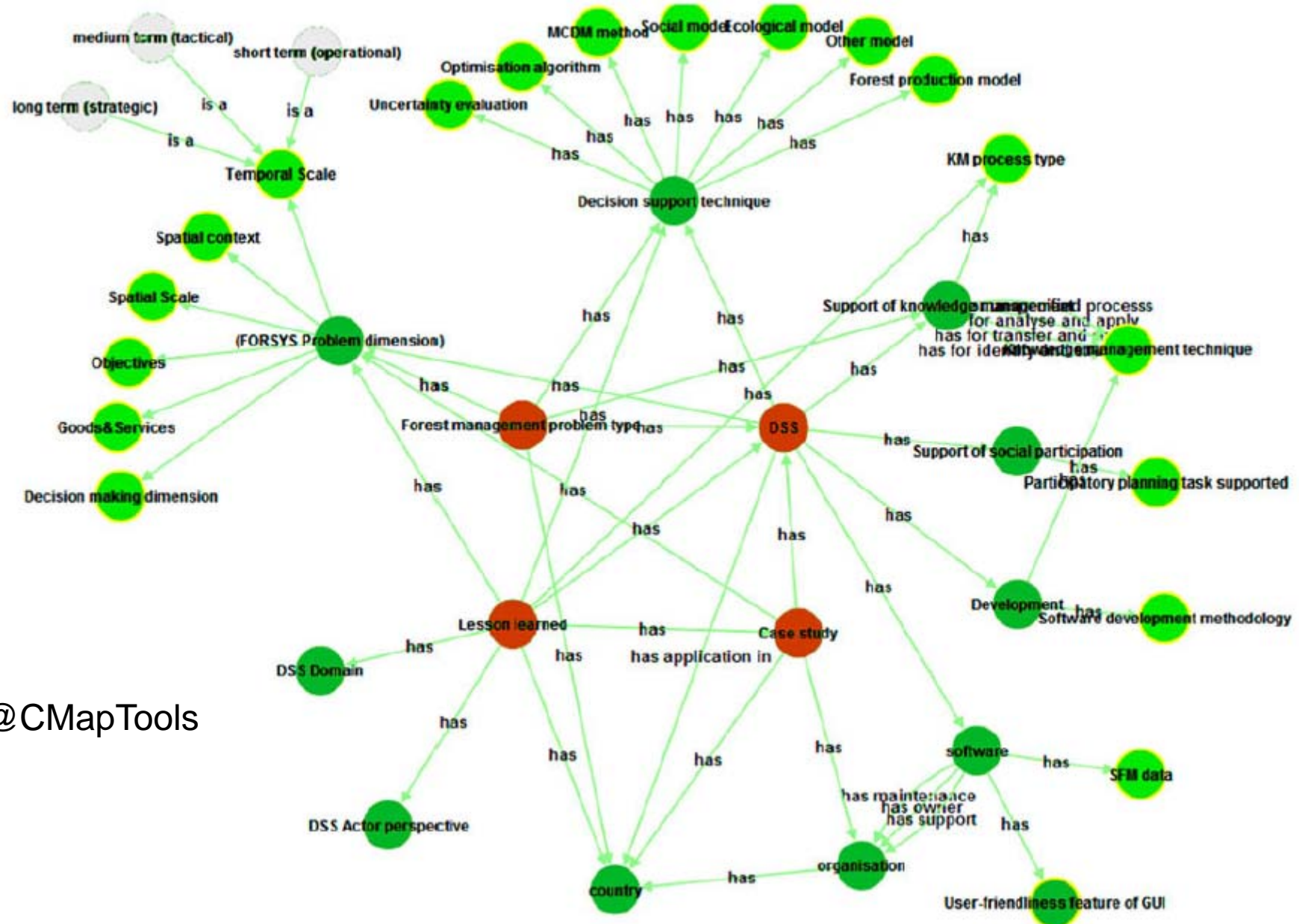
Marques AF, Rosset, C, Rasinmaki J, Varik A and Nobre S. 2013. Collaborative Development of a Semantic Wiki on Forest Management Decision Support. Scandinavian Journal of Forest Research (0): 0-0, doi: 10.1080/02827581.2013.832791

# ForestDSS conceptual model



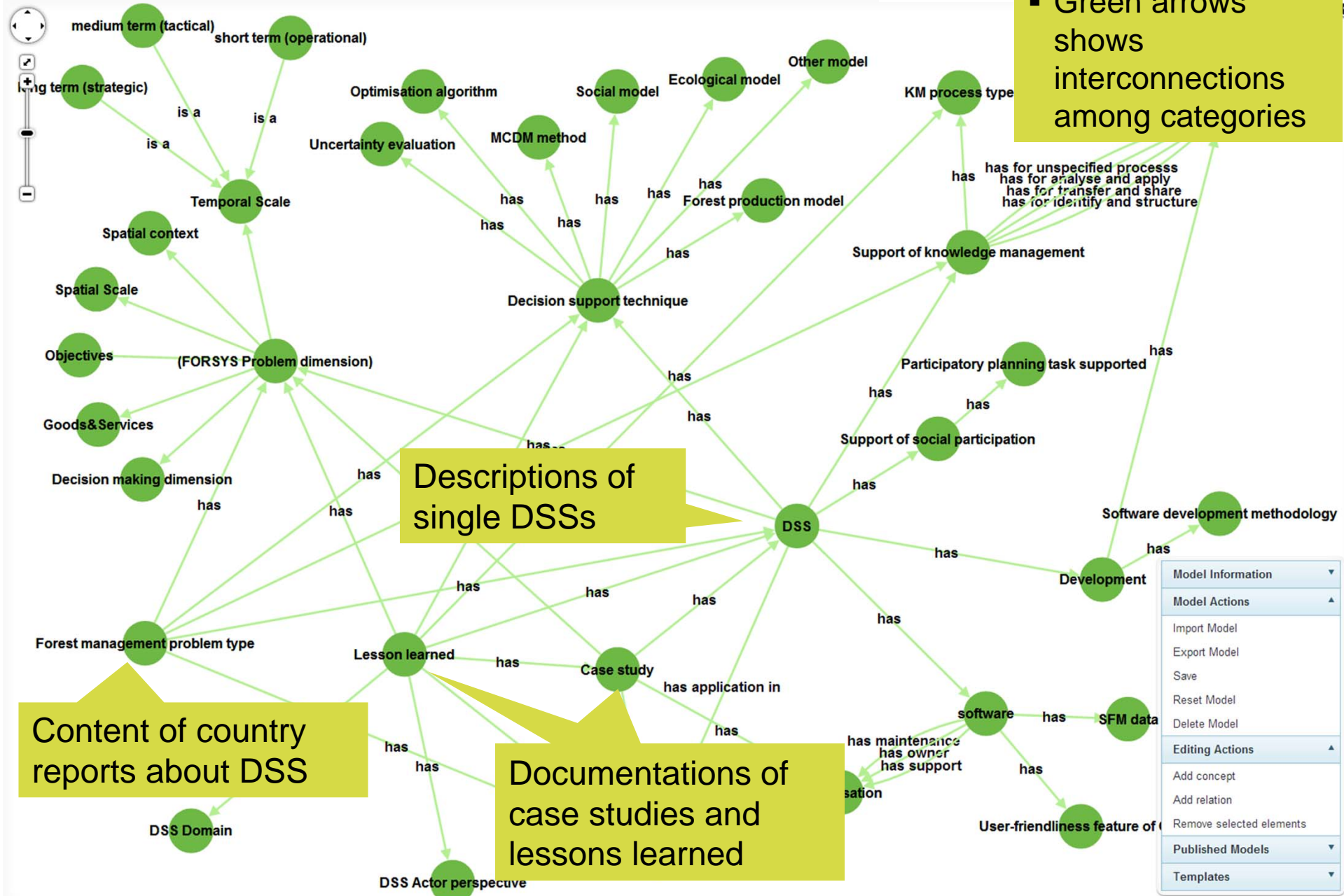
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@CMapTools

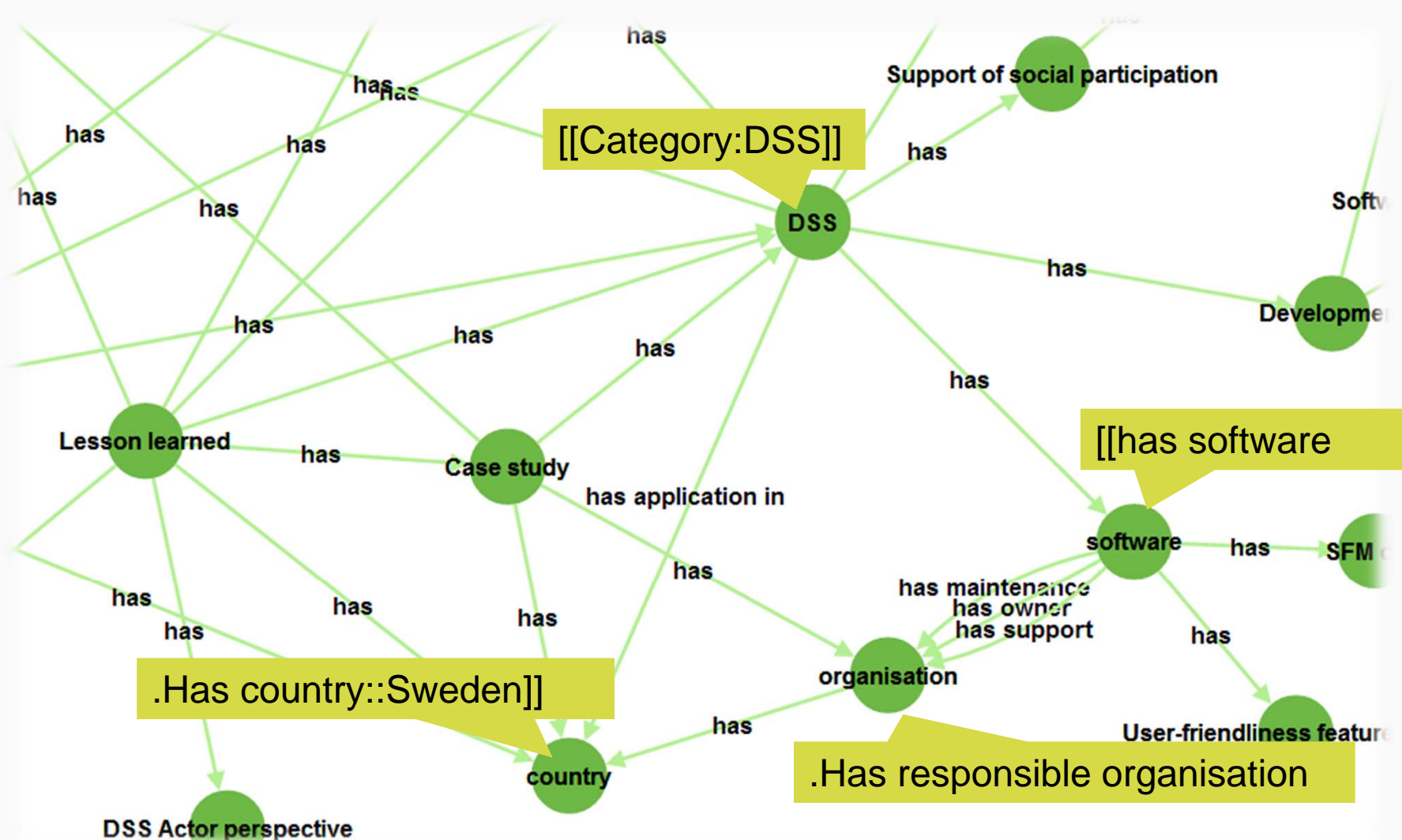
# ForestDSS conceptual model



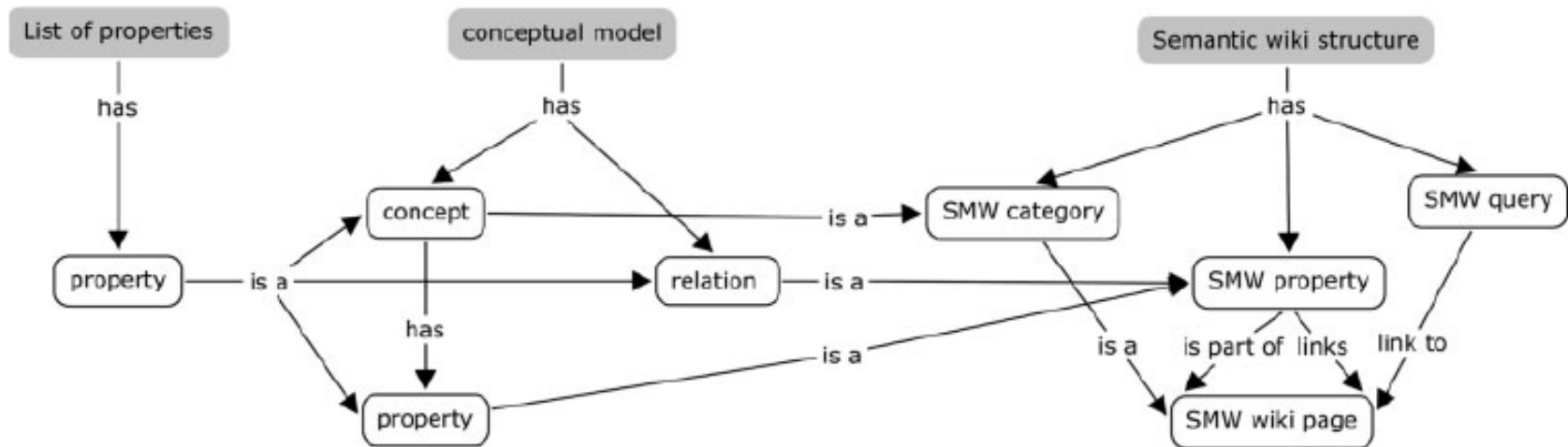
Model Information	▼
Model Actions	▲
Import Model	
Export Model	
Save	
Reset Model	
Delete Model	
Editing Actions	▲
Add concept	
Add relation	
Remove selected elements	
Published Models	▼
Templates	▼



**[[Category:DSS]][[has software.Has responsible organisation.Has country::Sweden]]**



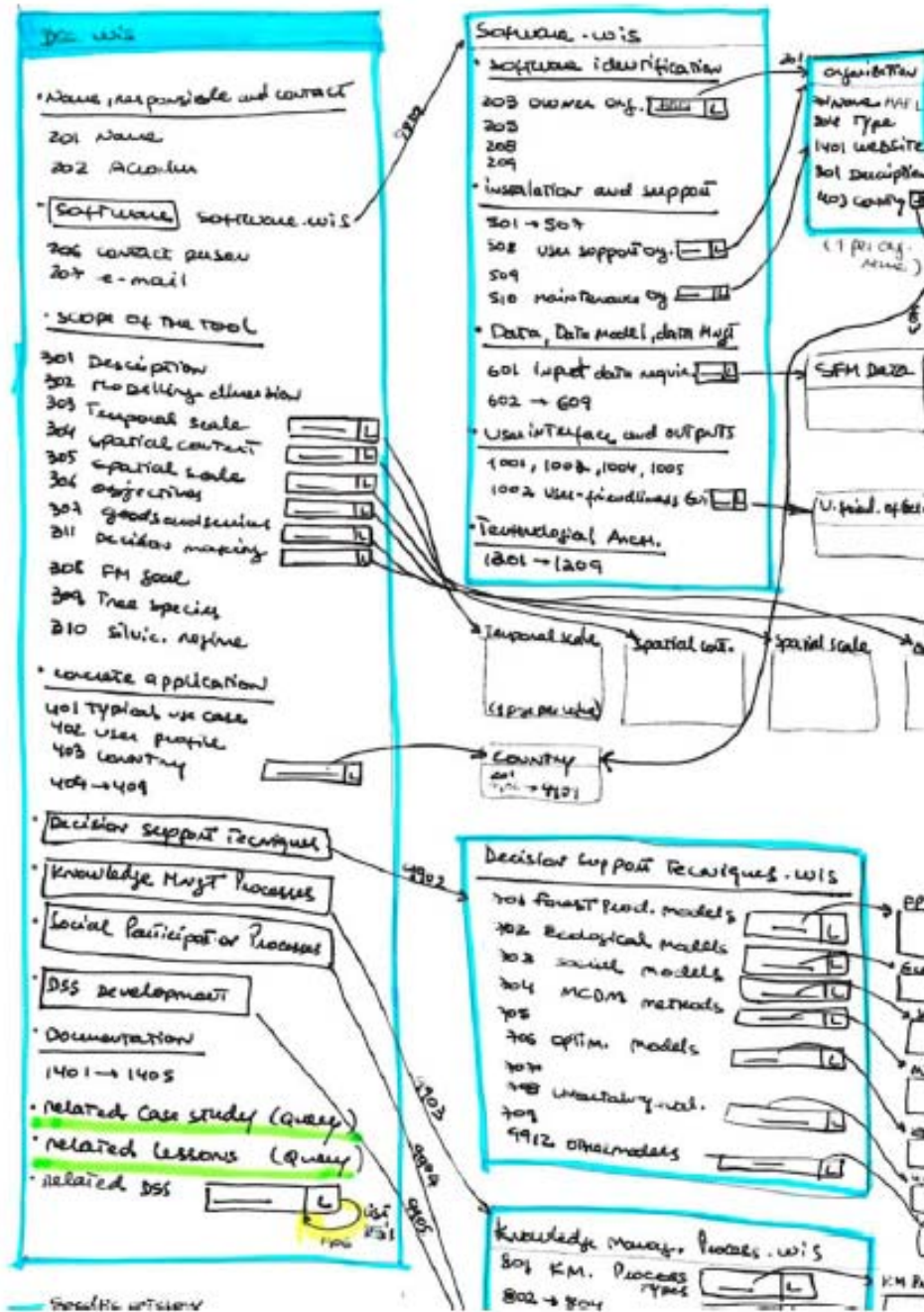
# Identify wiki pages, categories, properties & queries







# Paper prototyping





# Structure described in Google Docs

[https://docs.google.com/spreadsheet/ccc?key=0Asyd9WwNSfLpdGdkR1RwMXUzdIJSOWR0bXJoVnF2cVE&usp=drive\\_web#gid=0](https://docs.google.com/spreadsheet/ccc?key=0Asyd9WwNSfLpdGdkR1RwMXUzdIJSOWR0bXJoVnF2cVE&usp=drive_web#gid=0)

	A	B	C	D	E	F	G	
1	Propert	Target form	Criteria	Property	Type	Value	Metadata	Tooltip
2			<b>Wiki quality control</b>					
3	101	DSS;Case	Wiki quality control	Flag	String	red; yellow; green	FORSYS classification with respect to the quality of d	
4			<b>Name, responsible organisati</b>					
5	201	DSS;Case	Name, responsible organisati	Name	String		Name of the Decision Support Tool; Case study	
6	202	DSS	Name, responsible organisati	Acronym	String		Acronym of the Decision Support Tool	
7	203	DSS;Case	Name, responsible organisati	Responsible organisation	String			
8	204	DSS;Case	Name, responsible organisati	Type of the owner organization	String	person; team; community; forest enterprise; forest contract	Can have more than one owner in cases of multiple-	
9	205	DSS	Name, responsible organisati	Institutional framework	String	research prototype (R&D project); research prototype (stud	Institutional framework regarding the tool developme	
10	206	DSS;Case	Name, responsible organisati	Contact person for the Wiki	String			
11	207	DSS;Case	Name, responsible organisati	Contact e-mail for the Wiki	String			
12	208	DSS	Name, responsible organisati	Contact person for the DSS	String			
13	209	DSS	Name, responsible organisati	Contact e-mail for the DSS	String			
14			<b>Scope of the tool</b>					
15	301	DSS;Case;Lesson	Scope of the tool	Description	Text		Brief description of the Decision Support Tool	
16	302	DSS	Scope of the tool	Modelling dimension	String	Economical indicators; Forest indicators; Ecological indica	Nature of the indicators produced as the output of the	
17	303	DSS;Case;Lesson	Scope of the tool	Temporal scale	String	long term (strategic); medium term (tactical); short term (op	Temporal scales supported by the system	
18	304	DSS;Case;Lesson	Scope of the tool	Spatial context	String	spatial with neighbourhood interrelations; spatial with no n	Spatial problem types supported by the system	
19	305	DSS;Case;Lesson	Scope of the tool	Spatial scale	String	regional/national level; forest level; stand level	Spatial scales supported by the system	
20	306	DSS;Case;Lesson	Scope of the tool	Objectives dimension	String	single objective; multiple objectives	Number of objectives supported by the system	
21	307	DSS;Case;Lesson	Scope of the tool	Goods and services dimension	String	market non-wood products; market wood products; market	Types of goods and services supported by the system	
22	308	DSS	Scope of the tool	Forest management goal	String	afforestation management; biodiversity evaluation; biomas	Forest and ecosystem management goals addresser	
23	309	DSS	Scope of the tool	Supported tree species	String		List of the species addressed by the tool (can have n	
24	310	DSS	Scope of the tool	Supported silvicultural regime	String	even-aged; uneven-aged/natural regeneration; uneven-ag	Silvicultural system is a planned program of silvicultu	
25	311	DSS;Case;Lesson	Scope of the tool	Decision making dimension	String	single decision maker; more than one decision maker/stak	Number of decision makers supported by the system	
26			<b>Concrete application</b>					
27	401	DSS	Concrete application	Typical use case	String		examples; how many forest fires can be handled sim	
28	402	DSS	Concrete application	User profile	String	Non-industrial private owners; forest owners associations;	Types of target user groups	
29	403	DSS;Case;Lesson	Concrete application	Country	String	Afghanistan; Albania; Algeria; American Samoa; Andorra;	List of the countries where the tool is used (can have	
30	404	DSS	Concrete application	References about examples of application	String			
31	405	DSS	Concrete application	Number of users	String	0; <=3; <=10; <=30; <=100; >100	Total number of users	
32	406	DSS	Concrete application	Number of real-life applications	String	0; <=3; <=10; <=30; <=100; >100	Number of known implementations in real life proble	
33	407	DSS	Concrete application	Utilisation in education: kind of utilisation (demon	String	no; presentation/demo; used by students	Utilisation in education, such as presentation / demo	
34	408	DSS	Concrete application	Utilisation in research projects: references	String			
35	409	DSS	Concrete application	Tool dissemination	String		How does the team (or yourself) ensure the proper tr;	



Property ID	Target form	Criteria	Property	Type	Value	Metadata	Tools
101	DSS Case	Wiki quality control	Flag	String	red, yellow, green	FORYS classification with respect to the quality of d	
201	DSS Case	Name, responsible organisation	Name, responsible organisation Name	String		Name of the Decision Support Tool, Case study	
202	DSS Case	Name, responsible organisation	Name, responsible organisation Acronym	String		Acronym of the Decision Support Tool	
203	DSS Case	Name, responsible organisation	Name, responsible organisation Institutional framework	String			
204	DSS Case	Name, responsible organisation	Name, responsible organisation Type of the master organization	String	person, team, community, forest enterprise, forest contract	Can have more than one owner in cases of multiple- research prototype R&D project, research prototype, virtual institutional framework regarding the tool development	
205	DSS Case	Name, responsible organisation	Name, responsible organisation Contact person for the Wiki	String			
206	DSS Case	Name, responsible organisation	Name, responsible organisation Contact e-mail for the Wiki	String			
207	DSS Case	Name, responsible organisation	Name, responsible organisation Contact person for the DSS	String			
208	DSS Case	Name, responsible organisation	Name, responsible organisation Contact e-mail for the DSS	String			
209	DSS Case	Name, responsible organisation	Name, responsible organisation Contact e-mail for the DSS	String			
301	DSS Case/Lesson	Scope of the tool	Description	Text		Brief description of the Decision Support Tool	
302	DSS Case/Lesson	Scope of the tool	Modelling dimension	String	Economical indicators, Forest indicators, Ecological indicators	Nature of the indicators produced as the output of the	
303	DSS Case/Lesson	Scope of the tool	Temporal scale	String	long term (strategic), me	Temporal scales supported by the system	
304	DSS Case/Lesson	Scope of the tool	Spatial context	String	local, regional, national	Geographical scales supported by the system	
305	DSS Case/Lesson	Scope of the tool	Spatial scale	String	regional/national level	Geographical scales supported by the system	
306	DSS Case/Lesson	Scope of the tool	Objectives dimension	String	single objective, multiple	Number of objectives supported by the system	
307	DSS Case/Lesson	Scope of the tool	Goods and services dimension	String	market non-wood products	Types of goods and services supported by the system	
308	DSS Case/Lesson	Scope of the tool	Forest management goal	String	afforestation, management	Forest management goals supported by the system	
309	DSS Case/Lesson	Scope of the tool	Supported the species	String		Species supported by the system	
310	DSS Case/Lesson	Scope of the tool	Supported structural regime	String	even-aged, uneven-aged	Structural regimes supported by the system	
311	DSS Case/Lesson	Scope of the tool	Decision making dimension	String	single decision maker, multi	Decision making dimensions supported by the system	
401	DSS Case	Concrete application	Type of use case	String		Examples: how many forest owners, how many forest	
402	DSS Case	Concrete application	User profile	String	Non-industrial private owners, forest owners associations,	Types of target user groups	
403	DSS Case/Lesson	Concrete application	Country	String	Argentina, Albania, Algeria, American Samoa, Angola,	List of the countries where the tool is used	
404	DSS Case	Concrete application	References about examples of application	String			
405	DSS Case	Concrete application	Number of users	String	0, <=2, <=10, <=20, <=100, <=1000	Total number of users	
406	DSS Case	Concrete application	Number of real-life applications	String	0, <=1, <=10, <=20, <=100, <=1000	Number of known implementations in real life/proble	
407	DSS Case	Concrete application	Utilisation in education: kind of utilisation items	String	ms presentation/online: used by students	Utilisation in education, such as presentation / dem	
408	DSS Case	Concrete application	Utilisation in research projects, references	String			
409	DSS Case	Concrete application	Tool dissemination	String		How does the team (or yourself) ensure the proper di	

# Script for automatic creation of forms

Available at <https://github.com/jrasinma/semanticbot>

## Edit DSS: WDS

You do not have permission to edit this page, for the following reason:  
The action you have requested is limited to users in the group: **Users**.

Wiki quality control

Flag:  N/A  red  yellow  green

Name, responsible organisation and contact person

Full name:

Acronym:

Contact person for the Wiki:

Contact e-mail for the Wiki:

Software identification

Software (name of the detail wiki page):

Description

Description:

Modelling scope:

- Economical indicators
- Forest indicators
- Ecological indicators
- Social indicators

## **Main topics related with DSS components and Architecture (COST FORSYS WIKI 2012)**

- Data, data model and data management
- Models and methods, MBMS, decision support techniques
- Support of knowledge management process
- Support of social participation
- User interface and outputs
- Technological architecture, integration with other systems



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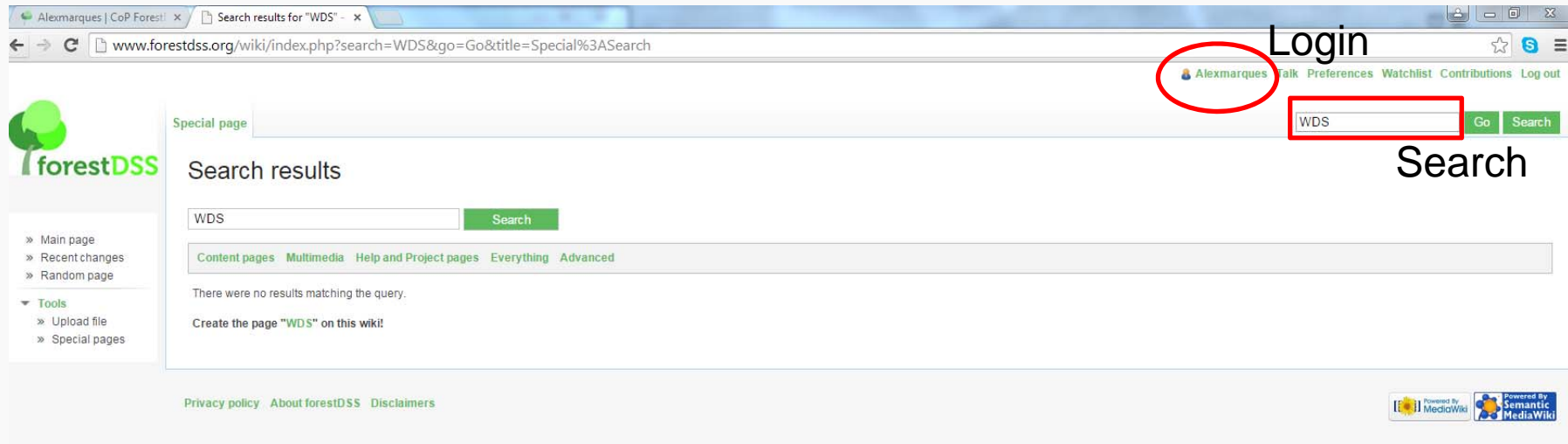
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## **(1). Using the forestDSS Wiki**

## How to?... Create or edit a new page?

There are many ways... one of the simplest:

1. Login
2. Write the name of the page in the search box and click GO
3. On the search results, click in “create the page in the wiki”
4. On the new page: edit content using the **wiki form** and free text, then save

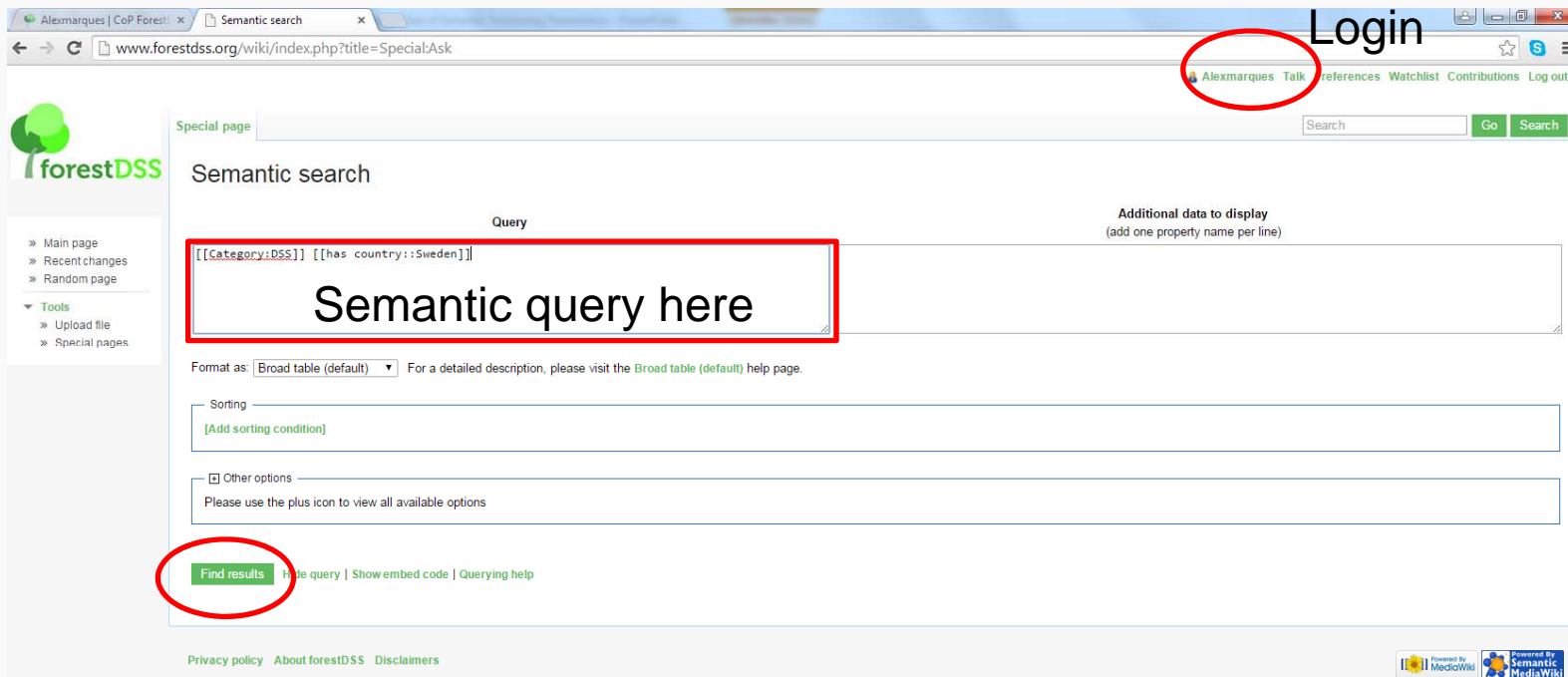


The screenshot shows a web browser window displaying the search results for 'WDS' on the forestDSS wiki. The URL in the address bar is [www.forestdss.org/wiki/index.php?search=WDS&go=Go&title=Special%3ASearch](http://www.forestdss.org/wiki/index.php?search=WDS&go=Go&title=Special%3ASearch). The page title is 'Search results'. A search box contains 'WDS' and a 'Search' button is visible. Below the search box, there are links for 'Content pages', 'Multimedia', 'Help and Project pages', 'Everything', and 'Advanced'. The main content area displays 'There were no results matching the query.' and a link to 'Create the page "WDS" on this wiki!'. The user 'Alexmarques' is logged in, and their name is circled in red. A red box highlights the search input field. The word 'Login' is written above the user name. The word 'Search' is written below the search button. The forestDSS logo is in the top left corner. The footer contains links for 'Privacy policy', 'About forestDSS', and 'Disclaimers', along with logos for 'Powered By MediaWiki' and 'Powered By Semantic MediaWiki'.

+ information in: [http://www.forestdss.org/wiki/index.php?title=DSS\\_description\\_Handbook](http://www.forestdss.org/wiki/index.php?title=DSS_description_Handbook)

## How to?... Do a new query?

1. Login
2. On the Menu (left side of the page), select tools -> Special pages -> Semantic search
3. Write down the semantics as described above, Click on Find Results



Special page

forestDSS

» Main page  
» Recent changes  
» Random page  
Tools  
» Upload file  
» Special pages

Query

Additional data to display  
(add one property name per line)

[[Category:DSS]] [[has country::Sweden]]

Semantic query here

Format as: Broad table (default) For a detailed description, please visit the Broad table (default) help page.

Sorting  
[Add sorting condition]

Other options  
Please use the plus icon to view all available options

Find results | Edit query | Show embed code | Querying help

Privacy policy | About forestDSS | Disclaimers

Powered by  
MediaWiki

Powered by  
Semantic  
MediaWiki

+ information in: [http://www.forestdss.org/wiki/index.php?title=DSS\\_description\\_Handbook](http://www.forestdss.org/wiki/index.php?title=DSS_description_Handbook)



## Some examples of queries

Which DSSs were developed by a team of at least 5 people?

➤ CONES, EFIMOD, EMDS, EcologicalSiteClassification,  
LEaRNForME, PYL, ProgettoBosco, SIPAFIT, TestDSS

**[[Category:DSS]]**

**[[Has DSS development.Has development team size::>5]]**





## Some examples of queries

Which DSSs support the process of evaluating options?

➤ CONES, ClimChAlp, EFIMOD, EMDS, FORFUN, Heureka,  
MyTestDSS, PEB, PLANFLOR, PYL, WIS.2

**[[Category:DSS]]**

**[[Has support for social participation.Has participatory planning task::Evaluating options]]**



## Some examples of queries

Which DSSs support the process of evaluating options at forest and strategic level?

➤ EFIMOD, EMDS, Heureka, PEB, PLANFLOR, WIS.2

**[[Category:DSS]]**

**[[Has support for social participation.Has participatory planning task::Evaluating options]]**

**[[Has temporal scale::Long term (strategic)]]**

**[[Has spatial scale::Forest level]]**



## (4) Conclusions

### *Achievements so far*

- Repository of DSS descriptions, country reports, case studies and lessons learned about DSSs, ...
- ... as well as interconnected articles about focused topics

### Potentialities for further developments:

- ConceptMe: consolidated map of the FORSYS Wiki content + engineering and reverse engineering of FORSYS Wiki
- User-friendly query interface
- Interconnection with other wikis

### Challenges to face:

- Publicity of the platform, FORSYS Wiki reflex
- Motivate enough people to contribute
- Ensure the quality of the content
- Ensure the maintenance and further developments of the system