



# Digital Historical Maps

Report from WP 9

## Evaluation of access to the material

Final version 2

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# Swedish National Heritage Board

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## 1 Scope

The aim of WP 9 is to evaluate the prototype developed in WP 3 for providing access to the information. This means evaluating it from a user point of view. (The technical aspects are evaluated in WP 10. User needs and demands have also been discussed earlier in the report from WP 1.)

## 2 Accomplishment

- According to the project description, this was to be done in three steps:
- Collect comments on the prototype from the large reference group. Discussing the results with the smaller reference group.
- Evaluation by a larger group (approximately 100) representing the three sectors of culture, planning and market.
- Open on-line evaluation via the discussion group on the home page.

The second step was however modified by the project steering group. Instead of a "specially invited group" the large reference group should be reused, preferably with new names added. By doing this, the project could get better feedback on the modifications that were introduced after the first evaluation. It would also give a better representation of the user groups that we aim at, by also including education and authorities.

### 2.1 The reference groups

Suggestions for participants in the reference groups were put forward by the project partners. The aim was of course to have all the target groups represented, in different countries. To get a true proportional representation was however not possible, as the number from each target group was not known (and the project is also directed to potential users). It turned out that planners and heritage professionals could be recruited more easily than representatives from the multimedia industry. The local history groups were mainly represented through their associations. In the education field both teachers and organisers participated.

As the small reference group was very limited, the target group representation was shared between the countries.

### 2.2 Elaboration of the questions

The aim of the evaluation was to pinpoint possible imperfections in relation to the present specified functionality. To make sure that all functions were evaluated a questionnaire was used. Further suggestions for improvement outside the specification may of course also be very valuable and even result in certain specification changes. These were collected as free comments.

The construction of the questionnaires were done in co-operation between the project participants after suggestions from the Swedish National Heritage Board.

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### 2.3 Access to the prototype

The prototype was accessible to the reference groups on the project home-page. During the first evaluation, the prototype was only accessible on the restricted part, and a password was needed.

No special user guide was produced, as the prototype should be self-instructing. Support was however available in each country through a contact person. The support team was also to document any problem that may arise and thus contributing to the evaluation. This support function was however not used very much.

### 2.4 Collecting the results

The answers and comment were sent in to the NHB. Any of the project languages could be used. The results were put together and presented by the NHB for seminars, steering group meetings and for the present WP report.

## 3 The first evaluation

In March 2000 a letter was sent out to the small and large reference groups, explaining how to access the prototype and what parts of it that should be evaluated. (Appendix 2).

- The following was to be considered:
- searching from register
- searching from overview map
- contents of search results (tabular)
- viewing functionality, including panning and zooming
- picture quality and the present size of map window in relation to user demands.
- saving and printing from saved picture
- general views on prototype lay-out
- is the prototype user-friendly?

These aspects were meant to cover the functionality that was so far included in the prototype. A charging and billing process had not yet been elaborated, nor was it possible to download the whole files (compressed) over Internet. The aim was to evaluate these functions in the second step.

Approximately 15 answers were received and a preliminary presentation was made. (The received answers are found in appendix 3). The results were discussed and analysed by the small reference group at a seminar in Copenhagen, April 3. The trends were fairly clear and several conclusions could be made. These are presented below.

### 3.1 Results from the first evaluation

#### Searching from register

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The register-search should be elaborated further. It should include the possibility to search directly on village-level in Sweden and on Parish-level in Denmark. The connection to the map search window should be improved.

### **Searching from overview map**

A useful feature that works rather well. The background maps should contain more information, perhaps also pop-up names. The connection to the register search should be improved.

### **Contents of search results (tabular)**

Generally good. "Year" should be included in search result list.

### **Viewing functionality, including panning and zooming**

Panning and zoom functionality is not satisfactory. Dragging with a "hand" is strongly recommended. It is hard to maintain an overview. An overview map with zoom location is suggested.

### **Picture quality and the present size of map window in relation to user demands.**

Everyone finds the map window too small. Picture quality is satisfactory.

### **Saving and printing from saved picture**

Works, but a direct print-out function would be better.

### **General views on prototype lay-out**

Mostly satisfying.

### **Is the prototype user-friendly?**

It cannot be considered user-friendly. Much better instructions are needed

## **3.2 Development after the first evaluation.**

The conclusions and the remarks from the first evaluation were handed to those involved in the construction work. A number of modifications were decided and made, based on the suggestions from the reference groups. These are described in steering group protocols and can be seen in the technical specifications.

The steering group also decided about some limitations in the project ambitions, the most important concerning the ordering and delivery systems.

The charging and billing functionality should be limited to an order form, only resulting in a message that the order was received. The technical-economic system behind should instead be solved within the national organisations, and delivery would at least initially rest on established routines, such as CD against traditional payment.

The system for delivering whole maps as compressed files should be solved technically, but no actual delivery system was to be built up. Only a single test file per country should be available for download.

## 4 The second evaluation

The second evaluation was planned to take place in September and October 2000. However, due to problems in the construction work, the prototype wasn't ready for evaluation until February 2001, which left one month for the evaluation process.

In the end of February a new letter and a questionnaire (appendix 4 and 5) was sent out to the small and large reference groups, the latter with several new names added. In spite of a reminding letter, unfortunately only a dozen answers were received before the report had to be written. These however contained useful information (appendix 6). The answers and conclusions are listed below.

A fact that affected the evaluation was that no price had been fixed for ordered products (i.e. other delivery than the free home-page access). The prizing was never intended to be solved within the project, as this is a task for the organisations respectively. However, that this decision wasn't taken before the evaluation meant that the cost aspects couldn't be included when measuring the usefulness. As pointed out in the WP 10 report, the prize level can be suspected to decrease the use as long as no automated delivery process is available to reduce the costs.

### 4.1 Results from the second evaluation

Background of test persons	Result	Answers
I consider myself an experienced Internet user	3,6	11
I use Internet regularly in my profession	4,2	10
I use Internet regularly on a private basis	3,4	10
I have previous knowledge of the historic map material	4,3	10

The user experience is significantly higher than for the average user. Practically everyone uses Internet regularly in his or her profession. The experience of the map material is far above average. This has effect on what they can see in the material. We still lack knowledge on how a first time user experiences the material when it is first presented. Is it attractive and possible to understand and interpret?

Internet connection	
I used a modem connection	-
I used a line connection	10 users

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Everyone used a line connection, which speeds up access time considerably compared to a modem connection. This affects the answers on viewing functionality.

<b>Browser</b>	
I used Netscape	5 users
I used Internet Explorer	6 users

Both Netscape and Internet Explorer were used.

<b>Search system, Denmark</b>	Result:	Answers:
Search by overview map	2,7	3
Search by register	4,3	3
Display of search result:	3,3	3
Help information on search functions	3,7	3

Register search seems to work well for the Danish material. It gets higher rating than overview map search. The number of answers is however too small to determine any real trends.

<b>Search system, Germany</b>	Result:	Answers:
Search by overview map	3,5	4
Search by register	4,5	3
Display of search result:	3,7	3
Help information on search functions	3,7	3

Also for the German material, the register search gets high scores. Again the number of answers is too small to allow any real conclusions.

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<b>Search system, Sweden</b>	<b>Result:</b>	<b>Answers:</b>
Search by overview map	3,3	9
Search by register	4,1	9
Display of search results	3,5	8
Help information on search functions	3,5	6

The Swedish search system is satisfactory. Register search works best. The comments mention several possible improvements concerning what information should be shown. In the map it should be marked where information is available.

<b>Viewing – No plug-in</b>	<b>Result:</b>	<b>Answers:</b>
Picture quality	4,5	6
Black/white text pages (Sweden only)	4	5
Zoom	2,9	8
Panning	2,5	8
Access time ( <i>all used line connection</i> )	3,8	6
Save to own disc	3,7	3

Picture quality is good. Zoom and panning functionality is not acceptable. The window size is too small. Access time is fairly good, but it shall be remembered that everyone used a line connection, not a modem.

<b>Viewing –With Java</b>	<b>Result:</b>	<b>Answers:</b>
Picture quality	4,3	7
Black/white text pages (Sweden only)	3,8	4
Zoom	3,7	7
Panning	3,3	6
Access time	3,1	7
Save to own disc	2,0	3

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Picture quality is good. Zoom and panning is acceptable. Access time is fairly good, but it shall be remembered that everyone used a line connection, not a modem. The window size is sometimes considered too small. As it is in fact possible to make practically a whole screen window, it can be questioned if these users have discovered this possibility. If not, this shows that the viewing instructions need to be improved.

<b>Viewing - With Mr Sid plug-in</b>	<b>Result:</b>	<b>Answers:</b>
Picture quality	4,0	5
Black/white text pages (Sweden only)	4,0	3
Zoom	3,2	5
Panning	3,6	5
Access time	4,0	5
Save to own disc	3	2

Down-loading the (free) MrSid viewer from LizardTech gives several new possibilities. Still the functionality is only a little above acceptable. Perhaps this reflects that easy instructions are missing. Only half of the users tried the plug-in, although they consider themselves experienced Internet users.

<b>Instructions for viewing</b>	<b>Result:</b>	<b>Answers:</b>
Help pages on viewing functions	2,8	5
Direct instructions in home page	3,8	5

In the question about the viewing instructions, the help pages are not quite satisfactory. The direct instructions in the home-page are better.

<b>Information and help texts for the Danish material</b>	<b>Result:</b>	<b>Answers:</b>
Origin and background of the maps	3,0	2
Help for interpretation of the maps	3,0	2
Examples of map use	3,0	1

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The home page also contains background information on the material itself, help for interpretation and user examples. In Denmark these get average notes, but here the answers are so few that no certain result can be obtained.

<b>Information and help texts for the German material</b>	Result:	Answers:
Origin and background of the maps	3,0	2
Help for interpretation of the maps	3,5	2
Examples of map use	4	1

The same goes for the German help texts. The answers are too few to allow any conclusions.

<b>Information and help texts for the Swedish material</b>	Result:	Answers:
Origin and background of the maps	4,0	8
Help for interpretation of the maps	4,1	8
Examples of map use	3,7	7

The Swedish material is evaluated in more answers, and the result is rather good.

<b>Layout</b>	Result:	Answers:
Organisation of windows and links	3,7	9
Clarity, readability	3,7	9
Aesthetic qualities, style	4,0	9

Organisation of the home page, readability ad style is satisfactory or good.

<b>Download of larger compressed file</b>	Result:	Answers:
Functionality, easy to use	5 (when it worked)	2

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	Did not work at all	3
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There seems to have been certain problems with the download functionality. It works fine, when it works, but this has not always been the case.

<b>Ordering system</b>	<b>Result:</b>	<b>Answers:</b>
Functionality, easy to use	4	3

As mentioned above, the ordering system is not fully developed, and doesn't include a charging or billing process. The question therefore reflects sending in a pro-forma order, which results in an electronic answer. This seems to work well.

<b>Usefulness</b>	<b>Result:</b>	<b>Answers:</b>
Is the DHM concept useful to me?	3,8	10
Will I visit the homepage again	4,3	10

Although improvements could be made, the home page already seems to be useful and definitely interesting to the users. The project seems to be on the right way.

<b>Suggestions for improvements</b>	
More maps	9
Improved viewing tools	5
Other maps	3
Improved search tools	2

The need for developing search and viewing tools – and not least the instructions for using them – has already been mentioned. The most wanted improvement is however that more material is added. For the Swedish material most of the now available maps still miss their associated text-pages. Adding these would improve the overall user value significantly.

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### **4.2 Development after the second evaluation.**

The above results were presented at the last steering group meeting. It was decided that some minor changes would be done, even if they would be carried out after the project period and with 100% own funding.

At the steering group meeting it was also decided that the project members should form a group for the future maintenance and further development of the home page and the prototype. There are already suggestions for improvements.

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**Appendix 1:****WORKPACKAGE DESCRIPTION****for WORKPACKAGE N°: 9**

**Title:** Technology A2— Follow-up and evaluation of Technology A1 (WP3) — Access provision

**Lead partner for this WP:** NHB

**Start month:** 15    **End month:** 23

**Initial state, work already done, preconditions for starting tasks, end result expected:**

The purpose of this work package is to evaluate and refine the prototype developed in WP3 for providing access to the information. An initial evaluation phase will take place in the form of a seminar with the smaller reference group. The prototype will also be placed on the internal home page for comments from the larger reference group. The second phase of evaluation will be a limited invitation to a larger group (approximately 100) representing the three sectors of culture, planning and market. Finally there will be a more open on-line evaluation via the discussion group on the public home page. Following each evaluation phase, responses will be compiled in written form and any necessary modifications will be made to the prototype.

The project will result in a written report containing user comments on the prototype. It will further result in a final version revised in the light of these comments.

**Tasks:**

Obtain users' views on the developed prototype  
Evaluate the prototype and improve it in the light of the above  
Deliv. nr 24 and 26

**Mangement 0,5 mm, Technical 1,0 mm, Marketing 2,0 mm, Other 1,5 mm**

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## Appendix 2: Letter to the reference groups for the first evaluation.

Stockholm March 20, 2000

Dear member of the Reference Group,

Here is information which enables You to open and use the first version of the DHM prototype.

The task of the large reference group is to evaluate this prototype for providing access to the information. We plan to do this in two steps, of which this is the first. After modification work during spring and summer a second evaluation will be done in September.

Unfortunately the launch of the prototype has been somewhat delayed due to illness etc.. Still we would very much appreciate if we could have Your comments already by the end of March! The reason is that an international seminar concerning the prototype will be held April 3, with participation of the inner/smaller reference group and the project.

For support and other questions send a mail to Björn Peck of the Swedish National Heritage Board who will answer or forward Your questions ([bjorn.peck@raa.se](mailto:bjorn.peck@raa.se)).

The March prototype still lacks some features and functionality, mainly concerning the ordering and billing process. This will have to be evaluated in stage two. The same goes for distributing complete (5-10 MB) compressed files over the net.

During the whole evaluation period a discussion forum on the project homepage will be open to comment on the prototype and other issues concerning the project.

The next pages of this document covers how You access the prototype and mentions aspects of the functionality to be evaluated. It also contains Your personal user-ID and password.

Thank You for participating!

Yours sincerely

Björn Peck

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## Working with the Prototype System

### Requirements

The prototype can be accessed on any reasonably modern computer with an Internet connection. The download times will be dependent on the capacity of the connection. The map browser (Mr Sid Viewer) is installed on the web-server of National Land Survey in Sweden, and requires no changes or downloads to your PC.

### Access

Open the DHM homepage at [www.dhm.lm.se](http://www.dhm.lm.se). At the bottom of the start page, open the link [Members of Reference Groups](#). (The start page is always possible to open by clicking on the DHM logotype up to the left on other pages). Enter your User-ID and password.

*Your personal user ID is:*

*Your personal password is:*

If You want, the password can be changed with [change password](#).

### Searching

In the beginning the prototype contains limited information. It will therefore be difficult to find maps by only using the map search. Using the register search leads you direct to the maps. Truncated searches are made with help of the symbol %. At the moment no Danish maps are available. The Swedish maps are concentrated to the Stockholm area.

### Viewing

As a result of the search you get a list of exposures, sorted after their administrative context (such as village and mapping generation). Clicking on [yes](#) opens a window with a thumbnail showing the desired map and tabular information about the map. Clicking on the thumbnail picture opens yet another window, where zooming and panning is possible. Close these windows before opening another map.

Zooming is done by choosing magnification rate in the box underneath the image and then click on desired point on the map. This will be the new central point. Panning is done by clicking on the new desired central point.

### Saving the picture

By pointing on the image and clicking on the right mouse button you get options for saving the presented image. They can then be used in other programs or printed.

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### Evaluating the prototype

The evaluation can be in English or any language of the participating countries. It is preferably forwarded by e-mail to [björn.peck@raa.se](mailto:björn.peck@raa.se). Please avoid hand-written messages.

We need Your views on what is good and what is not satisfactory. Do You have suggestions for other and better solutions? Comments can have any form or outlay, but it would be appreciated if the following topics were mentioned:

searching from register

searching from overview map

contents of search results (tabular)

viewing functionality, including panning and zooming

picture quality and the present size of map window in relation to user demands.

saving and printing from saved picture

general views on prototype lay-out

is the prototype user-friendly?

These points cover aspects of the functionality which are included in the present specification. Apart from these, any suggestions for future improvements and added features are welcome. Perhaps they can not be implemented now, but the improvement of the system will continue also after the project period.

Please, if possible send Your evaluation before March 31! That way we can consider Your views at the international seminar for the project group and the inner/smaller reference group.

As the evaluation report should be finished in April, we can not include answers received after April 10. The discussion board is however always open.

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## Discussion Board

Use the Discussion Board freely for comments on the prototype and other issues concerning the project! By keeping up a discussion also between the Reference Group members, we will quicken up the process and the project will get valuable new input to the design. The Discussion Board is administrated by project co-ordinator Stefan Gustafsson. All messages will be possible to read for all members, both in the project and the reference groups.

### *Test*

The system is rather large, and might look difficult to use, but is easy in reality. Start testing in the Test topic! Stefan Gustafsson will delete everything in Test once a week.

### *DHM topic*

This is the topic to use for discussions concerning the DHM project. You have the possibility to add a message to an ongoing discussion or to create a new one. To get some structure, if you have opinions on several issues, please send them as separate messages. That will make it possible to edit the homepage in a more effective way. For example: if you have opinions on the way to search in the register in the prototype, and there is no suitable discussion on this issue, name the new discussion “Prototype – Register search”. If in doubt, ask someone mentioned in the link [Contact](#)

### *Editing of the homepage*

If you wish to delete a message you have sent, please contact one of the moderators (you find them under Contacts).

As responsible for the Discussion Board Stefan Gustafsson will

- delete messages that no longer have influence on the project, such as proposals for changes that have been implemented.

- delete messages not concerning the project.

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### Appendix 3: Answers from the external prototype evaluation March 31, 2000

#### Searching from register

Good

Searching from register is no problem, at least if you are used to the material. It would be possible to make a more advanced search engine like (*Swedish library system*) LIBRIS.

The search from the alphabetical register is hard to use if you don't know the actual placenames, but it looks very easy to use – and here the mentioning of a parish name indicates whether there is a map.

For villages no selection list is available and nothing happens by the search button. You have to know to use the percent sign to get search results. I'm missing a help or information button.

One should be able to search directly on village-level and get information of their locality.

Results of a register search should be shown on the map and vice versa.

#### Searching from overview map

Very good

Simpler than register search.

The search from the overview map is very easily found, but here you should expect that all parishes or other districts indicated by their borderlines should contain a digital map – only a few of them do. I should also expect a correspondence between the overview map on one hand and the alphabetical register and the digital map on the other hand, so that you have a geographical indication of what you are looking at.

When I go with the cursor about the clickable-map it would be nice to see as text information which parish/village is under the cursor. For choosing a region it was also nice to draw a bounding box on the map. I got often the message "no data available". I think in future there will be more maps available otherwise you should only show these villages/municipalities on the map for which information are available.

Use pop-up signs showing which village the cursor is presently at. Villages searched for in register or opened should be marked, for instance in another colour.

Overview map needs names etc.

#### Contents of search results (tabular)

Good.

Simple

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The written information on each map is precise and adequate and easily read.

Like the whole program the meta-information (here contents) should be also in English.

Year is necessary in the list of maps available.

In list of available maps, the year should be mentioned.

### **Viewing functionality, including panning and zooming**

You should be able to drag the picture, as in Photo-shop, not only click at new centres.

Not good. Easy to understand, but clumsy. One should be able to drag the picture. Poor overview.

The viewing functionality is partly fine, but I think it is a great disadvantage that you can't get a good overview of the map. The functionality to pan and zoom are OK (although some explanation will be needed the first time, as you expect that you can zoom just by clicking on the map). - The opening of a new map window is a little difficult, as you will have to close down two windows before you can open a new one. And you are not informed of why nothing happens if you don't close down the picture – generally you don't get any feedback whether the machine is working on the net or what is happening – a bar as generally visible on the netbrowser should also be visible in this programme.

It is not clear what to do, no help or information. Why I have to click on the image after I have chosen a zoom factor. After some trials I understand that the cursor is the zoom center and which this I can also pan. Are there some more "hidden functions"? A helpful information would be the zoom factor at which I can see the complete map with the highest resolution. A small overview map would also be helpful where I can see where I'm on the map and where I can also do a faster panning.

Simpler panning necessary such as dragging or using arrows. Perhaps a reference window where the position of the zoom picture is showed.

Instructions needed for zoom functionality. Picture should be opened not only by clicking in the map but also by pressing Enter. Moving by center points is not so good. Better with dragging, not least when one is trying to read text.

Zooming is awkward and panning is difficult. Where is the little hand that other programs uses.

The viewer should contain two windows, one with zoom, one with overview where the chosen area is marked.

### **Picture quality and the present size of map window in relation to user demands.**

Picture quality is OK. The window size is too small. It should be at least 600X800 pixels to allow a proper overview.

Quality is OK. Size is unsatisfactory.

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The limits of the Mr Sid viewer are too small: on my screen they only are 15 x 16 cm and that is too small to get a good view of the map to find the interesting details. When you know which details you want to see, it is a very good quality of the picture (the scanning resolution is OK).

Quality is okay, but size of maps is too small.

Quality is extraordinary. Window size is however too small to allow viewing of for instance building agglomerations.

The window is far too small. Will there be parallel windows for text and map?

The window is too small.

### **Saving and printing from saved picture**

Saving the picture works fine, but we can't print it unless we open it in for instance Photo-shop. This seems as an unnecessary step if you want a quick print-out.

Printing and saving is easy.

The saving of the map window is also easily done, and the result is OK, although the bmp-format is a little better.

OK, by using another program.

Direct printing function would be good.

Saving and printing works well.

### **General views on prototype lay-out**

Good-looking product but we (*target group county administration.*) are more interested in how the maps can be used for rectifying and vectorisation.

OK.

In general it is a very nice tool and layout is okay. I don't know enough about the structure of your historical maps to know whether this is a good advice: What do you think about mapsheets for each kind of maps? So you have an overview for which region this kind of map is available and perhaps you can use these mapsheets also for map selection.

Works well.

Search results should be made to fit screen.

### **Is the prototype user-friendly?**

Yes.

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Allright for person skilled in registers and GIS. Doubtful for others.

The prototype is not user-friendly enough, especially the size of the views is not acceptable. And the response from "the machine" is also lacking (when you are mistaken and when the machine is working). And furthermore it could be more explicit on the overview map which areas the digital maps are covering.

No. User need more instructions/help especially first time users and occasional users. Sometimes very slow and today I got often the answer "server is not available" (also in the evening) I'm working with Netscape 4.7.

When opening the program, links should be available showing register structure and search technique. Also information on what the borders represent as they have changed over time.

With minor changes and helpfunctions it could very well be. An advice is to think of the users as "idiots" and build the environment accordingly.

Detailed instructions are necessary.

Instructions should be made as if people don't understand anything at all.

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#### Appendix 4: Letter to the reference groups for the second evaluation

Gävle 2001-02-21

Dear member of the Reference Group,

After two years of intense work, the Digital Historic Maps project is getting close to completion. There have been several obstacles on the way, but also much encouragement from colleagues and others who appreciate historic maps and realise their unique potential. In spite of some software difficulties – which called for intense communication across the Atlantic – we now have a prototype that can be released to the public in the beginning of April.

Before this, the reference group has the important task of evaluating the functions and material which is now available. The first evaluation gave us very important and valuable input! All answers have been thoroughly discussed and considered in the development. Thank you!

As before, you reach the home page and prototype on [www.dhm.lm.se](http://www.dhm.lm.se). Password is no longer needed.

To facilitate your evaluation we enclose a questionnaire. Easiest and quickest is probably to write your answers directly in the electronic document and send it back by e-mail. Of course you could also print out the questionnaire, write down your answers and send it in by post.

The homepage presents material from three nations, and allows you to chose between different viewing options. Should you prefer not to explore the whole homepage, simply answer the questions that match your visit and leave the rest.

The questions can be answered quickly by simply putting an “x” in the evaluation scales. There is however also room for written comments, and we very much appreciate any opinion or view that could help us to refine the DHM concept. You can use any of the project languages, which are Danish, German, Swedish or English.

As the project is delayed we would very much appreciate if we could have your answers no later than March 12!

Please send the questionnaire to Björn Peck, of the Swedish National Heritage Board. He will also answer or forward any questions you may have about the homepage.

Adress: Björn Peck, RAÄ, Box 5405, 114 84 Stockholm, Sweden

E-mail: [bjorn.peck@raa.se](mailto:bjorn.peck@raa.se)

Thank you again for participating!

Yours sincerely

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Stefan Gustafsson

Björn Peck

Document name

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**Appendix 5: Questionnaire for the second evaluation.**

## Evaluation of homepage and prototype functionality

**1. Search system**

Please answer depending on which options you have used.

**Denmark**

Search by overview map	Not good						Good
Search by register	Not good						Good
Display of search results	Not good						Good
Help information on search functions	Not good						Good
Comments:							

**Germany**

Search by overview map	Not good						Good
Search by register	Not good						Good
Display of search results	Not good						Good
Help information on search functions	Not good						Good
Comments:							

**Sweden**

Search by overview map	Not good						Good
Search by register	Not good						Good
Display of search results	Not good						Good
Help information on search functions	Not good						Good

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Comments:

**2. Viewing**

Please answer depending on which options you have used.

No plug-in

Picture quality	Not good							Good
Black/white text pages (Sweden only)	Not good							Good
Zoom	Not good							Good
Panning	Not good							Good
Access time	Not good							Good
Save to own disc	Not good							Good
Comments:								

**With Java**

Picture quality	Not good							Good
Black/white text pages (Sweden only)	Not good							Good
Zoom	Not good							Good
Panning	Not good							Good
Access time	Not good							Good
Save to own disc	Not good							Good
Comments:								

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**With Mr Sid plug-in (downloaded)**

Picture quality	Not good						Good
Black/white text pages (Sweden only)	Not good						Good
Zoom	Not good						Good
Panning	Not good						Good
Access time	Not good						Good
Save to own disc	Not good						Good
Comments:							

**Instructions for viewing**

Help pages on viewing functions	Not good						Good
Direct instructions in home page	Not good						Good
Comments:							

**3. General**

*Please answer depending on which options you have used.*

**Information and help texts for the Danish material**

Origin and background of the maps	Not good						Good
Help for interpretation of the maps	Not good						Good
Examples of map use	Not good						Good
Comments:							

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**Information and help texts for the German material**

Origin and background of the maps	Not good						Good
Help for interpretation of the maps	Not good						Good
Examples of map use	Not good						Good
Comments:							

**Information and help texts for the Swedish material**

Origin and background of the maps	Not good						Good
Help for interpretation of the maps	Not good						Good
Examples of map use	Not good						Good
Comments:							

**Layout**

Organisation of windows and links	Not good						Good
Clarity, readability	Not good						Good
Aesthetic qualities, style	Not good						Good
Comments:							

**Download of larger compressed file (Note, in this prototype only one test file is available for download in each country)**

Functionality, easy to use	Not good						Good
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Comments:
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**Ordering system (Note, in this prototype no actual delivery or charging will take place. Only an answering mail will be received.)**

Functionality, easy to use	Not good							Good
Comments:								

**Usefulness**

<b>Is the DHM concept useful to me?</b>	No							Yes
<b>Will I visit the homepage again</b>	No							Yes
Comments:								

**Improvements**

What would make the DHM homepage more useful for me?	More maps	
	Other maps	
	Improved search tools	
	Improved viewing tools	
Other:		

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## Background questions

### Internet connection

<b>I used a modem connection (yes/no)</b>		Speed (if known):	
I used a line connection (yes/no)		Speed (if known):	
I used Netscape			
I used Internet Explorer			
I used other browser. Which?			
Comments:			

### User experience

<b>I consider myself an experienced Internet user</b>	No						Yes
I use Internet regularly in my profession	No						Yes
I use Internet regularly on a private basis	No						Yes
I have previous knowledge of the historic map material	No						Yes
Comments:							

**Appendix 6: Second evaluation of homepage and prototype functionality**

All answers March 31, 2001

Background of test persons

**Internet connection**

I used a modem connection	0
I used a line connection	10

My PC:	RAM: 32, 96, 128, 128, 128, 128, 128
	MHz: 200, 233, 500, 600, 880,

I used Netscape	5
I used Internet Explorer	6
I used other browser. Which?	

**User experience**

	Result:	Answers:
<b>I consider myself an experienced Internet user</b>	3,6	11
I use Internet regularly in my profession	4,2	10
I use Internet regularly on a private basis	3,4	10
I have previous knowledge of the historic map material	4,3	10

**1. Search system**

**Denmark**

1 = unsatisfactory, 5 = very good

	Result:	Answers:
Search by overview map	2,7	3
Search by register	4,3	3
Display of search result:	3,3	3
Help information on search functions	3,7	3

**Germany**

	Result:	Answers:
Search by overview map	3,5	4
Search by register	4,5	3
Display of search result:	3,7	3
Help information on search functions	3,7	3

**Sweden**

	Result:	Answers:
Search by overview map	3,3	9
Search by register	4,1	9
Display of search results	3,5	8
Help information on search functions	3,5	6

Comments:

Easy search, but the smallest map is too small

Good resolution when zooming, but hard to get an overview.

In the result list file size should be shown

In the result list it should be possible to distinguish between text- and picture files.

Only areas with material should be searchable.

More maps should be included.

Not possible to search for parish and village.

The “ordering window” should be more clearly marked. It mustn’t cover the map window.

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Colour marking in the map to show if material is available

It should be shown clearly in the search result window whether the file is a map or a text document.

## 2. Viewing

No plug-in

	Result:	Answers:
Picture quality	4,5	6
Black/white text pages (Sweden only)	4	5
Zoom	2,9	8
Panning	2,5	8
Access time ( <i>all used line connection</i> )	3,8	6
Save to own disc	3,7	3

Comments:

The map is too small for deciding if it is useful.

The same concept and functionality should be used as in the NLP site for maps and aerial photography.

The pre-set window size for the chosen map is too small. It is difficult to understand how to achieve a larger window (which is still on the small side).

Zoom function is hard to control. No true panning function.

Good picture size.

### With Java

	Result:	Answers:
<b>Picture quality</b>	4,3	7
Black/white text pages (Sweden only)	3,8	4
Zoom	3,7	7
Panning	3,3	6
Access time	3,1	7
Save to own disc	2,0	3

Comments:

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Too little of the text is shown to make it possible to use.

The map is way too small. Impossible to see if it is useful or not. With a low resolution (such as 72 dpi) the map could be 800x600 pixels without the “risk” of being used outside the screen.

Not good that the map disappears when the resolution is changed (256 -400-640)

Intuitive, rather good.

Small picture size.

### With Mr Sid plug-in (downloaded)

	Result:	Answers:
Picture quality	4,0	55
Black/white text pages (Sweden only)	4,0	3
Zoom	3,2	5
Panning	3,6	5
Access time	4,0	5
Save to own disc	3	2

Comments:

Awkward way of doing “save to own disc”.

Small picture size.

### Instructions for viewing

	Result:	Answers:
Help pages on viewing functions	2,8	5
Direct instructions in home page	3,8	5

## 3. General

### Information and help texts for the Danish material

	Result:	Answers:
Origin and background of the maps	3,0	2
Help for interpretation of the maps	3,0	2
Examples of map use	3,0	1

**Information and help texts for the German material**

	Result:	Answers:
Origin and background of the maps	3,0	2
Help for interpretation of the maps	3,5	2
Examples of map use	4	1

**Information and help texts for the Swedish material**

	Result:	Answers:
Origin and background of the maps	4,0	8
Help for interpretation of the maps	4,1	8
Examples of map use	3,7	7

**Comments:**

Sometimes disturbing with a picture behind the text. The font size is a bit small.

More user examples could be included.

**Layout**

	Result:	Answers:
Organisation of windows and links	3,7	9
Clarity, readability	3,7	9
Aesthetic qualities, style	4,0	9

**Comments:**

Overview maps, fonts and “kickboxes” are too small

**Download of larger compressed file**

	Result:	Answers:
Functionality, easy to use	5 (when it worked)	2
		3
	Did not work at all	

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Comments:

Did not succeed to download.

**Ordering system**

	Result:	Answers:
Functionality, easy to use	4	3

Comments:

The registering procedure should be simplified so that you don't have to fill in everything for every file in the order.

**Usefulness**

	Result:	Answers:
Is the DHM concept useful to me?	3,8	10
Will I visit the homepage again	4,3	10

Comments:

As long as the maps are so small they aren't useful in heritage management.

**Suggestions for improvements**

More maps	9
Improved viewing tools	5
Other maps	3
Improved search tools	2

Comments:

Larger maps and access to text files

Larger maps so that you know if it's useful before beginning down-loading

Better "save-to-disc functionality"

More maps, but above that access to the associated texts

## Digital Historical Maps

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The concept maps (*the regionally stored map originals. BP*) should be made accessible with equal quality.

Zoom and panning is time-consuming.

Good to have MrSid format instead of for instance Jpeg.

The alternative “no plug-in” isn’t necessary.

The map shouldn’t disappear when you click at “help”.

Why not have a 3D animation as an entrance to the home-page?