



SEMIAH	
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Main author(s):	Rune Hylsberg Jacobsen (AU) and Dorthe Gårdbo-Pedersen (Develco)
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Executive Summary

This report describes the project activity carried out by Aarhus University as part of Task 1.4 of the SEMIAH project. The deliverable D1.1 is the project web page (www.semiah.eu). This document provides an overview of the project web site as it was initially launched. This document describes the structure and content for the public web site.

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1 Introduction

This report describes the project activity carried out by Aarhus University as part of Task 1.4 of the SEMIAH project.

1.1 Purpose

The deliverable D1.1 is the project web page rather than a formal report deliverable. Nevertheless, this document provides an overview of the project web site as it was launched initially.

1.2 Web site target group and idea behind web site

The SEMIAH public web site is a major dissemination tool intended to facilitate the spread of the project’s information to different stakeholder groups: ICT industry members, policy makers, international standardisation bodies, and professional organisations. It is the core element of the external communication strategy of the SEMIAH project.

The public and the stakeholders of the SEMIAH project can access the web site at the URL:

www.semiah.eu

Direct links to this web site will be created from the beneficiaries’ organisation web sites.

In addition, the SEMIAH project has a private web area used for internal project communication. Beneficiaries of the SEMIAH project can access the private area from the URL:

internal.semiah.eu

The information contained on the project website is likely to be valuable even after the project has finished. Therefore, the consortium aims at ensuring that the website will continue to exist after the project funding has finished, and that bookmarks and published URLs will continue to function.

1.3 Web site updating

During the entire project duration, the website will be periodically updated by DEVELCO, the EDM and lead beneficiary of Task 2.1 with a close interaction with the Project Management Support Team and the Technical Manager, in order to collect all the latest contributions

WHOIS search

semiah.eu: Not available for registration

If you believe you have the right to a .eu domain name that is already registered, you may [dispute the registration](#).

If you believe the registrant data for this .eu domain name is **inaccurate**, you may file a [complaint](#).

If you wish to **transfer** this domain name, you will require a [transfer authorisation code](#). If you are unable to obtain the authorisation code from your registrar or via the [.eu End-user Extranet](#), you may [request an emergency authorisation code](#).

Domain

Name	semiah
Status	REGISTERED (What this means)
Registered	March 2, 2014
Expiry Date	March 31, 2015
Last update	May 10, 2014, 1:04 pm

Registrant

Name	Rune Hylsberg Jacobsen
Organisation	Aarhus Universitet
Language	Danish
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Phone	+45.41893252
Fax	
Email	rhj@eng.au.dk

Technical

Name	Peter Larsen
Organisation	Larsen Data ApS
Language	Danish
Address	Flæsketorvet 68 1711 Copenhagen V Denmark
Phone	+45.46903232
Fax	+45.46903234
Email	euhostmaster@ldnet.dk

Registrar

Organisation	Larsen Data ApS
Website	www.gratisdns.dk

Name servers

- ns1.gratisdns.dk
- ns5.gratisdns.dk
- ns4.gratisdns.dk
- ns3.gratisdns.dk
- ns2.gratisdns.dk

Keys

Keytag	Flags	Protocol	Algorithm	Public key
11416	KSK	3	RSA-SHA1-NSEC	AwEAAAbv2Cbeav2BLREXOIg0oB3V05wtsb0RS SZxwQ2V1uwm1UCydnEjNFQyE8WVGQNEE+1lMkK hmveQN88eaE+

Figure 1: SEMIAH domain registration

coming from the partners such as publications, meetings, documents, etc.

2 Design and registration

The SEMIAH project web site has been created during the early project stage and launched on 2014-04-30. The web-designer is the EDM of the project, Ms. Dorthe Gårdbo-Pedersen (DEVELCO). WHOIS Domain information is officially represented by <http://www.eurid.eu>. The registration data are given in Figure 1.

The format, the design and the functionalities of the external web interface were identified and decided in April 2014, and then the development of the initial version of the SEMIAH web site began. The initial version was opened to the public 30 April 2014. All partners are requested to actively collaborate to update the information displayed on the web site.

3 Main Pages

The main pages of the SEMIAH web site are accessed from the top horizontal bar just below the Project Title. These pages are:

- Home
- About SEMIAH
- Consortium
- Dissemination
- News

In the following subsections, they will be introduced in more detail. Please note that all pages will have the EC acknowledgement as footer (shown in Figure 2). This will not be reproduced in the figures throughout this report.

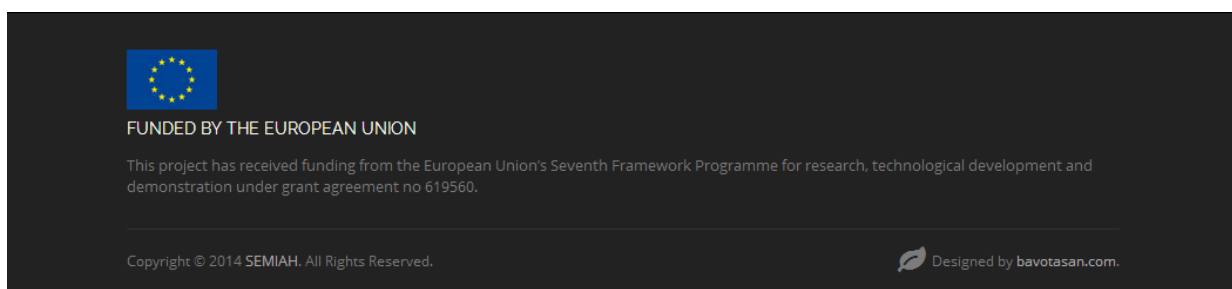


Figure 2: Web page footer

3.1 Home

The page labelled “Home” is the welcome page of the web site. On the welcome page the public will find the project summary, latest news and information, and the table of content.

The graphical representation in Figure 3 shows the general structure, design and spatial organization of the page. The purpose of these pages is to give the readers of the web site an easy guide to the understanding of the project.

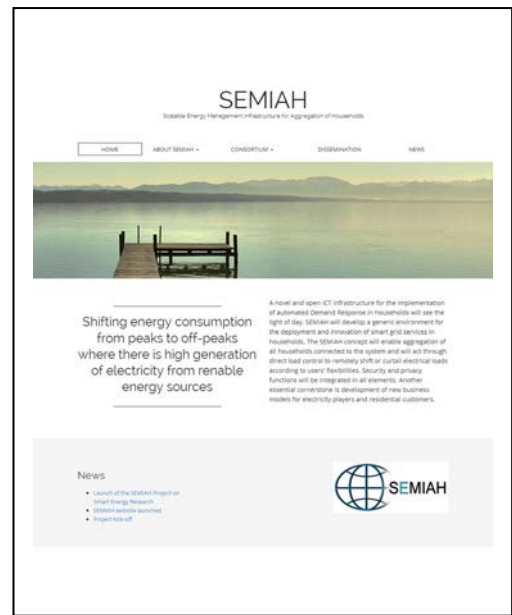


Figure 3: Home

3.2 About SEMIAH

The menu labelled “About SEMIAH” will drop-down with a number of headlines describing the project.

3.2.1 Project at a glance

On this page project facts such as project acronym, full project title, grant number, funding, etc. are available.

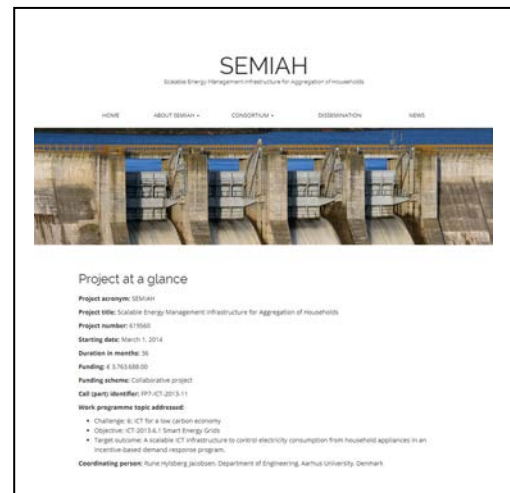


Figure 4: Project at a glance

3.2.2 Project overview

The page “Project Overview” presents the overall concept, the major technological, scientific, and commercial breakthrough; as well as a motivation for a centralized demand response solution for the European smart grid.



Figure 5: Project overview

3.2.3 SEMIAH impact

This page highlights the expected SEMIAH impacts.



Figure 6: SEMIAH impact

3.2.4 The challenge

This page describes the key challenges that the SEMIAH project is addressing.

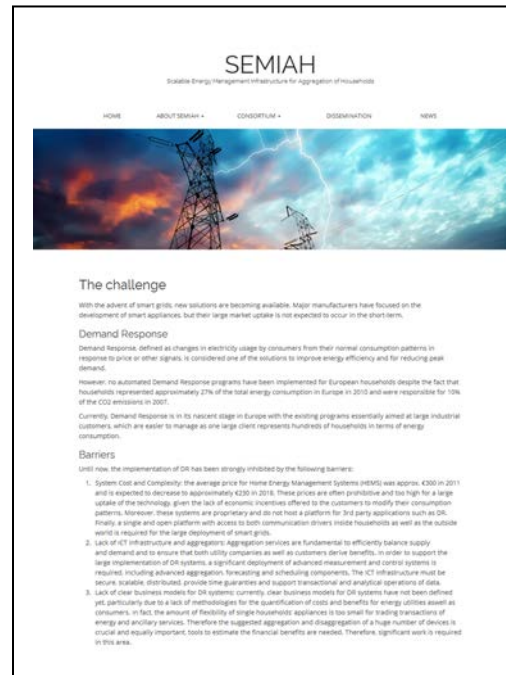


Figure 7: The challenge

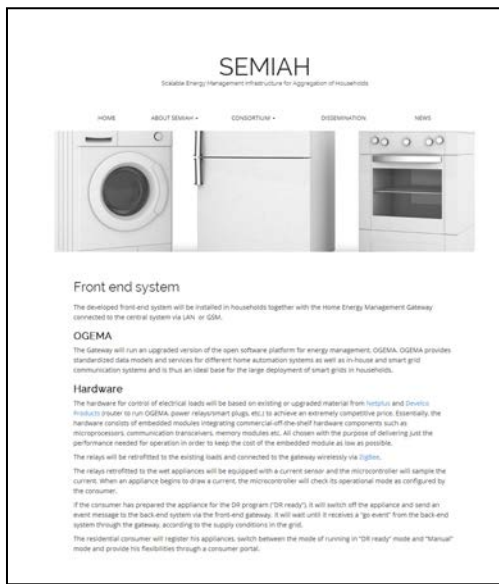
3.2.5 The solution

This page (Figure 8) gives a high-level description of the proposed solution for the SEMIAH challenges.



Figure 8: The solution

3.2.6 Front-end system



The front-end system is the part of the SEMIAH solution that is installed at the customer premises.

Figure 9: Front-end system

3.2.7 Back-end system

The back-end system is the part of the SEMIAH solution that is installed at the aggregator service provider.

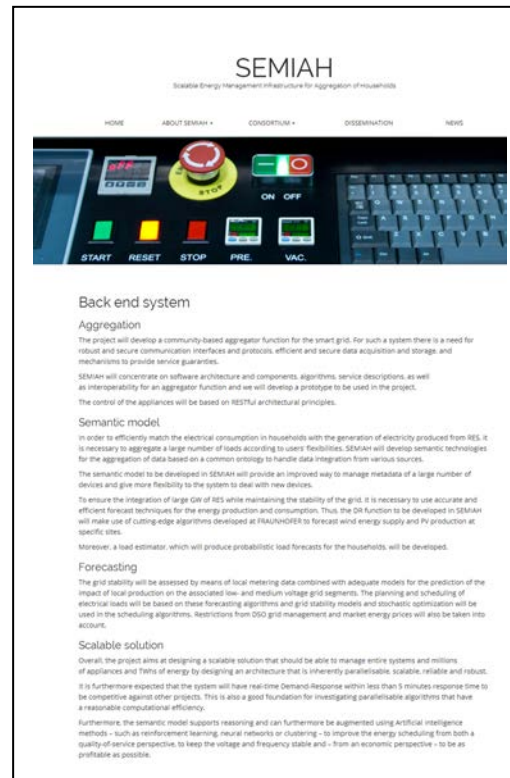


Figure 10: Back-end system

3.2.8 Security and privacy management

This page (Figure 11) presents the security and privacy aspects of the SEMIAH project.



Figure 11: Security and Privacy

3.2.9 New business models

This page describes the business modelling aspect of the SEMIAH project.



Figure 12: Business models

3.3 Consortium

The main page “Consortium” presents the partners as well as a description of the composition of the consortium. The public can find the team leader involved in the project and a direct access to their web site.

A separate web page has been allocated for presentation of each partner.

3.3.1 Partners

This page, illustrated in Figure 4, provides a short description of the various SEMIAH consortium partners including:

- company logos;
- links to the corporative websites;
- short partner profiles.



Figure 13: SEMIAH partners

3.3.2 Project organization



Figure 14: Project organisation

The web page “Project organisation” (Figure 14) presents the key roles of the SEMIAH consortium bodies and key persons (Steering Committee, Coordinator, Technical manager, Exploitation and Dissemination Manager, Work Package Committees).

Only the top part of the page is shown in the figure.

3.3.3 Aarhus University, Department of Engineering



Figure 15: AU profile

3.3.4 Develco Products



Figure 16: DEVELCO profile

3.3.5 Misurio



Figure 17: MIS profile

3.3.6 netplus.ch



Figure 18: NETPLUS profile

3.3.7 University of Agder



Figure 19: UiA profile

3.3.8 Fraunhofer Institute for Wind Energy and Energy System Technology IWES

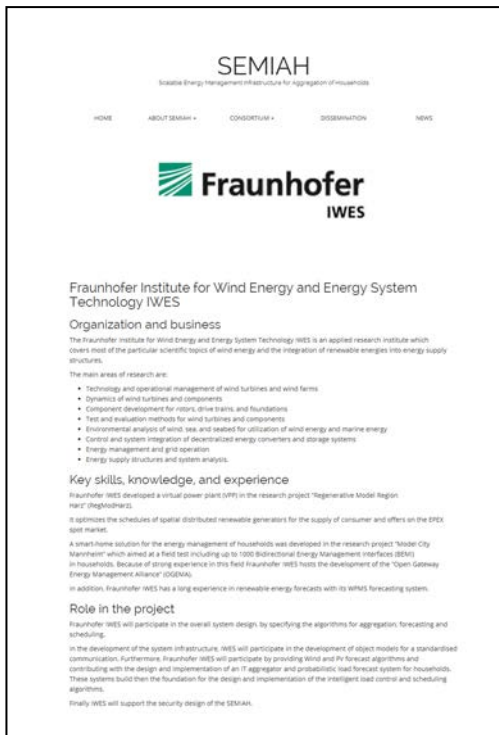


Figure 20: FRAUNHOFER profile

3.3.9 CSEM

SEMIAH
Scalable Energy Management Infrastructure for Aggregation of Households

HOME ABOUT SEMIAH CONSORTIUM DISTRIBUTION NEWS

csem

CSEM

Organization and business

CSEM, Centre Suisse d'Electronique et de Microtechnique Swiss Center for Electronics and Microtechnology, founded in 1984, is a private research and development center specializing in microtechnology, nanotechnology, microelectronics, system engineering and communications technologies. It offers to its customers and industry partners custom-made innovative solutions based on its knowledge of the market and technological expertise derived from applied research. Having founded several start-ups, it contributes to developing Switzerland as an industrial location.

To date, a total of 29 such enterprises, with more than 500 employees, have been launched by CSEM. Approximately 400 highly qualified and specialized employees from various scientific and technical disciplines work for CSEM in Neuchâtel, Zurich, Basel, Aargau and Langnau. They represent more than 30 nationalities and constitute the basis of CSEM's creativity, dynamism and potential for innovation.

Key skills, knowledge, and experience

The Control & Signal Processing Section of CSEM's Systems Division has extensive experience in concept development, signal acquisition and in processing and software implementation for complex control, monitoring and diagnostic systems. Successful applications have been shown recently in different fields, thus also including the energy domain.

Since 1988 the group has been working on the development of innovative and integrated control systems for optimum energy management, preserving the indoor comfort in buildings. As such, a system, which was based on predictive and adaptive control algorithms, was developed that allowed the optimization of the electrical load management with respect to the local production of distributed electricity.

Furthermore, the group also developed and industrialized an innovative heating controller, which was transferred to the start-up company Neustadt SA.

Role in the project

In the SEMIAH project CSEM will contribute to technical design and specifications of the system.

In addition, CSEM will contribute to the data aggregation and the optimization of the demand-response management, where the above mentioned experience and know-how with regard to predictive and adaptive control, optimization and scheduling will be brought in.

Finally, CSEM will also contribute to the development of the large scale simulator and the system integration.

Figure 21: CSEM profile

3.3.10 HES-SO

SEMIAH
Scalable Energy Management Infrastructure for Aggregation of Households

HOME ABOUT SEMIAH CONSORTIUM DISTRIBUTION NEWS

Hes+SO

Haute Ecole Spécialisée de Suisse occidentale

HES-SO

Organization and business

The Institute of Systems Engineering from the HES-SO is located in the Alps, in the heart of the Swiss hydroelectric production. As a result, one of the two main axes of research of the institute is energy.

About 60 people are active in projects such as energy conversion, hydroelectric and solar production, energy efficiency analysis, smart grid, energy data analysis, as well as in embedded and distributed systems. Its numerous contacts with the local energy industry and its wide knowledge of energy problems makes of the Institute of Systems Engineering a key partner for this project.

Key skills, knowledge, and experience

In 2005, the institute decided to devote an increasing part of its human, material and financial resources to the field of energy.

HES-SO areas of expertise include energy optimization, energy conversion and communication systems. More specifically, HES-SO is specialized in the design and realization of communicating systems that can be connected to any current communication networks. This includes embedded energy management, wireless/wired embedded communication, real time processing and system integration.

HES-SO has also strong expertise in Service oriented architecture (web services, applications, middleware) for the integration of heterogeneous applications, use of web services, development of middleware, etc.

The institute has also participated to several projects joining ICT and energy at the regional, national (Smart Meeting for Eco-Cities and European D-TN), international (Self-describing Technical and Environmental Networks) levels.

Role in the project

The Institute of Systems Engineering will lead the development of the system infrastructure and architecture, focusing especially on the development of the Home Energy Management Gateway based on OSGi4. Moreover, its knowledge of Android and iOS will allow it to develop the smartphone version of the user interface. It will also work on the lab testing of the prototype and will lead the pilot testing in Switzerland.

Experience in electronic hardware development and communication is a key advantage for the development of a simulator to predict the behaviour of thousands of consumers. It benefits from its experience in the analysis of energy consumption, developed in projects such as the Swiss Commission for Technology and Innovation (CTI) project ARES.

Figure 22: HES-SO profile

3.3.11 Devoteam Solutions



Figure 23: DEVO profile

3.3.12 Agder Energi Nett



Figure 24: AEnergi profile

3.3.13 SEIC-TELEDIS Group



Figure 25: SEIC profile

3.3.14 EnAlpin



Figure 26: ENALP profile

3.4 Dissemination

Public dissemination from the SEMIAH project will be available through this page. Furthermore, scientific publications resulting from the project will be listed and linked to from the page.

As this is the first deliverable of the project, the page is currently empty.

The intention is to use this page as a “Deliverables and Publications” record of all the publications and deliverables with a direct link to SEMIAH project and in particular, the publications obtained within the project.

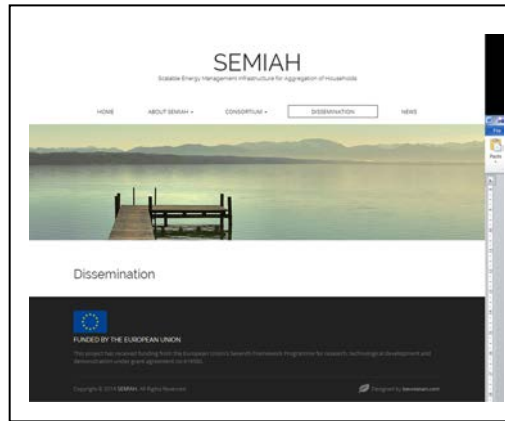
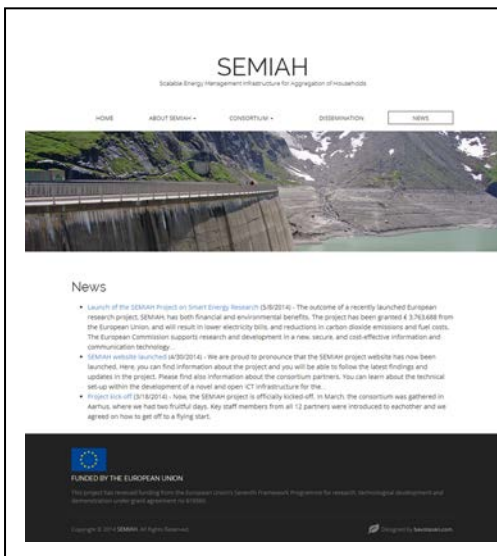


Figure 27: Dissemination

3.5 News



News from and related to the SEMIAH project will be displayed on this page.

Figure 28: SEMIAH news

4 Statistics

The SEMIAH project uses Google Analytics for providing web page statistics. Via this tool, all web traffic can be monitored, for example:

- Number of sessions, page views, return visits vs. new visits, number of pages per month, average session duration, and frequency rejection
- Geographic and demographic data
- System data (e.g. browser, operating system, and service provider)
- Mobile Data (e.g. device, browser, screen resolution, etc.)
- Channels
- Keyword in references

Figure 29 shows an example of a “Google Analytics” cockpit.

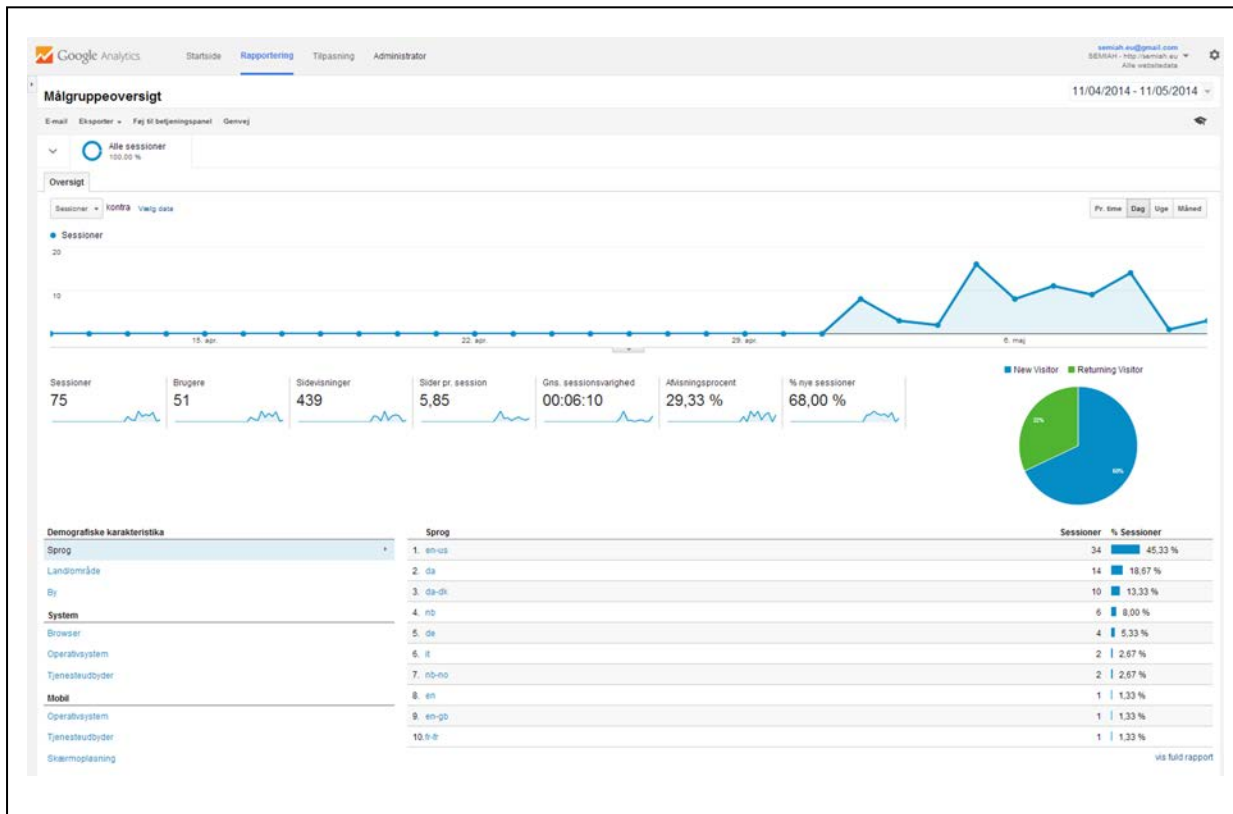


Figure 29: Example of output from web statistics

5 Conclusions

The online SEMIAH public web site is a key element of the project’s dissemination strategy. The web site will:

- ensure the visibility of the project,
- facilitate the diffusion of the project's results, and
- promote their exploitation.

The web site provides a basic set of information about the SEMIAH project and will be regularly updated with scientific results, findings and achievements. Furthermore, it will be a key communication tool to the end-users enrolled in the pilot testing phase.