



# Knowledge and Technologies for Effective Wood Procurement

## Deliverable 6.1 Norwegian Efficiency Portal

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# 1 Introduction

Fully mechanized harvesting systems such as Harvesters and Forwarders collect lots of data using a global standard (standard for forest data – StanForD). A new efficiency portal for the forest sector, called “Silvismart”, digitalizes the dataflow from forest operations and transforms machine-captured data into business intelligence and decision support. Silvismart is the entry point into the world of productivity, information and advice on how to continually improve the efficiency of operations. To facilitate the access to the global portal, national portals are required, where potential users can get information and support in their national language.

The Norwegian national efficiency portal is now available online at: [www.silvismart.no](http://www.silvismart.no). The website ensures that potential users get all the information about the efficiency portal they need. Until project end participating users can use the portal for free and bring in their concerns, needs and suggestions to improve the global efficiency portal. This report gives an actual overview about the Norwegian national efficiency portal and explains in detail the functionalities of the website. As website maintenance is an ongoing process, the website will be constantly updated and improved.

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## 2 Norwegian National Efficiency Portal

Silvismart collects StanForD files and is designed around one universal system, which maintains and updates the actual database that stores the data, reads the data from the incoming files, and updates and develops the actual analysis and reporting tools available in the system. Having one universal system ensures very low development and maintenance costs for the individual countries and organizations that use the system.

The national Silvismart portals serve as access points to the global Silvismart system. The host of the national portal is responsible for user support, making the system and tools available in the national language and provides the website that links to the Silvismart system. Further, the national hosts adapt contracts on confidentiality and other restrictions to data use according to national legislation and are essential in ensuring the longer-term sustainability of the Silvismart system, also in terms of generating revenue for covering the costs of maintaining the system.

The national portals and the global Silvismart system are mutually dependent. The global system maintains the database, algorithms, code and analytical tools. The national portals ensure that the system is properly adapted to local interest and conditions and that it is actively used. Now, the website for the Norwegian national efficiency portal is online. This report gives a short description of the functionalities and the information provided on [www.silvismart.no](http://www.silvismart.no).

### 2.1 The Website

The website consists of the following one start page and four sub-pages (Figure 1):

- " Startside " („Start page")
- " Om Silvismart " („About Silvismart")
- " Brukergrensesnitt " („User interfaces")
- " Nedlastinger " („Downloads")
- „Kontakt oss" („Contact")

On these five pages, users are provided with information about Silvismart in a structured way and in Norwegian.

#### 2.1.1 Page "Startside" ("Start page")

The page "Startside" is the start page of the website. On the start page no information about the portal is provided. In order to facilitate fast and easy access to the global portal, a login form is provided on this page, where already registered users can login directly to the desired user interface by clicking on one of the four different logos on the start page (Figure 1). Information for new users is available on the other four sub-pages.

At the bottom of the start page, as well as on each other page, information about the provider of the website is presented. Additionally, information about the funding and a hyperlink to the “TECH4EFFECT”-project website is provided (Figure 2).

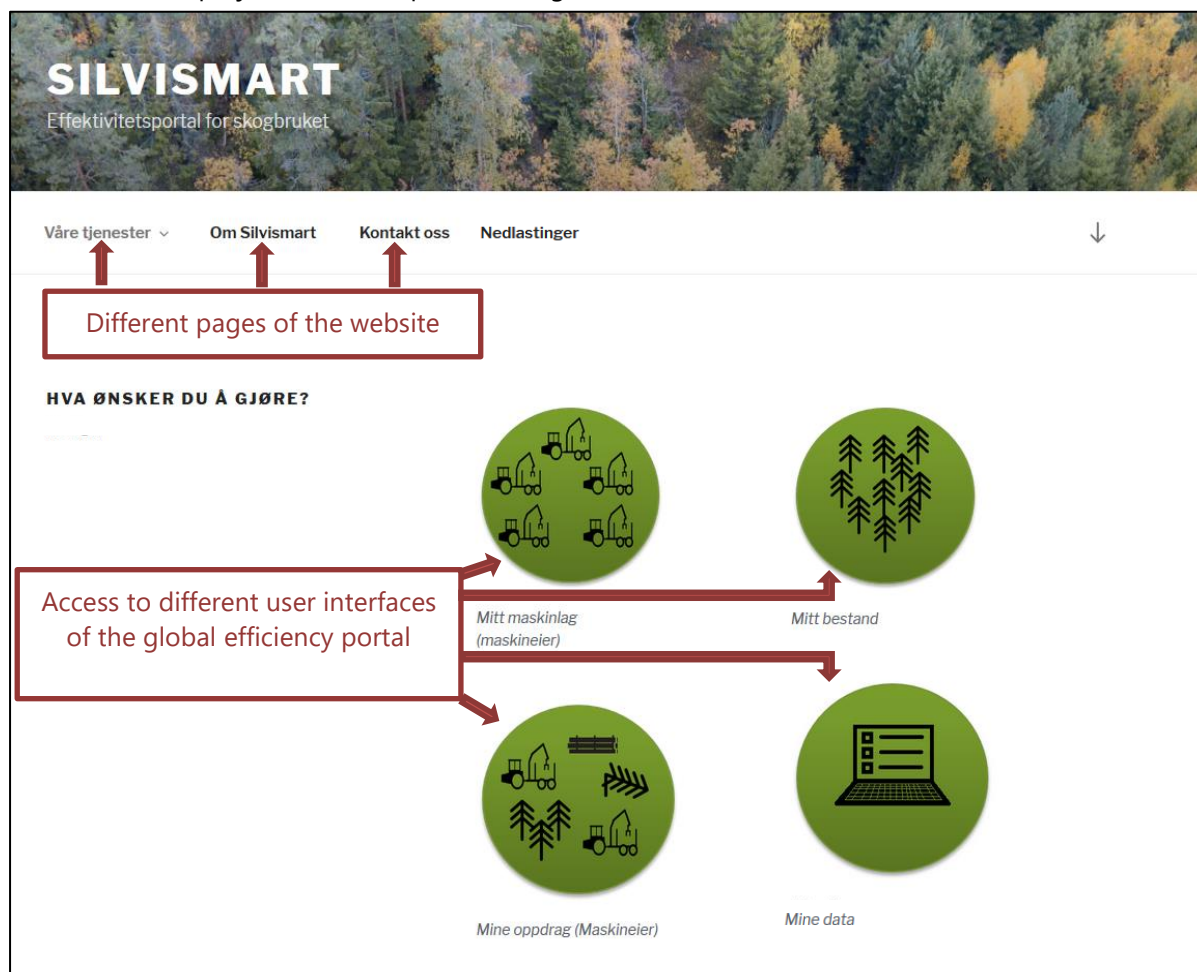


Figure 1: Start page of the website of the Norwegian national portal.

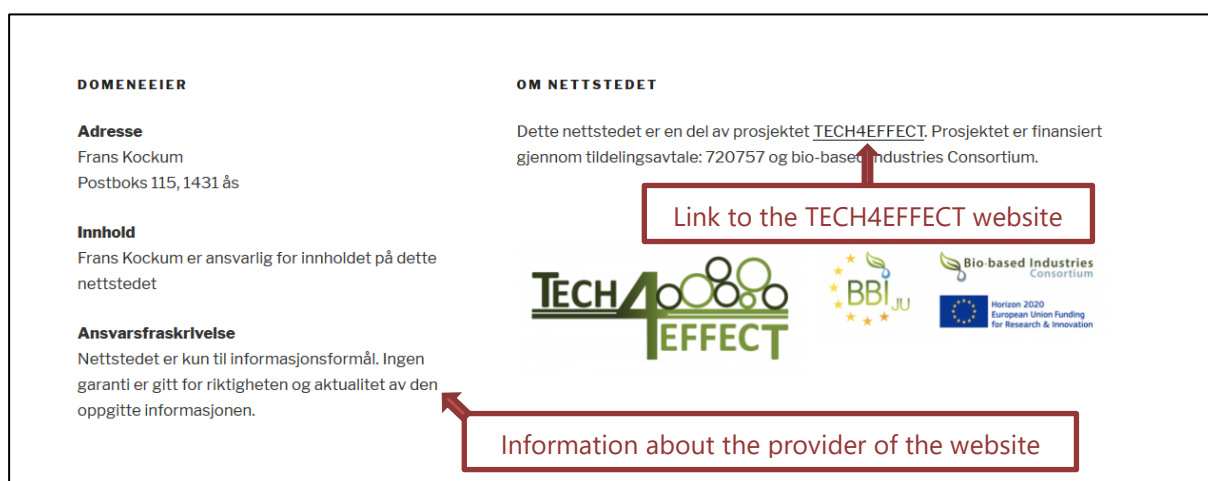


Figure 2: Information about the provider of the website, funding and a link to the TECH4EFFECT website.

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## 2.1.2 Sub-page “Om Silvismart” (“About Silvismart”)

General information about Silvismart is provided on the sub-page “Om Silvismart”. On the top of this page the functionalities of Silvismart are described in a concise way (Figure 3). Additionally, detailed answer to frequently asked questions (FAQ) about Silvismart are answered below this section:

- Motivation
- Your own personal online coach?
- What exactly is Silvismart?
- What is the global Silvismart system?
- What are the national Silvismart portals?
- How are the national portals connected to the global system?
- How does the data transmission work?
- Who has access to my data?
- Will my data be safe?
- How do I participate?

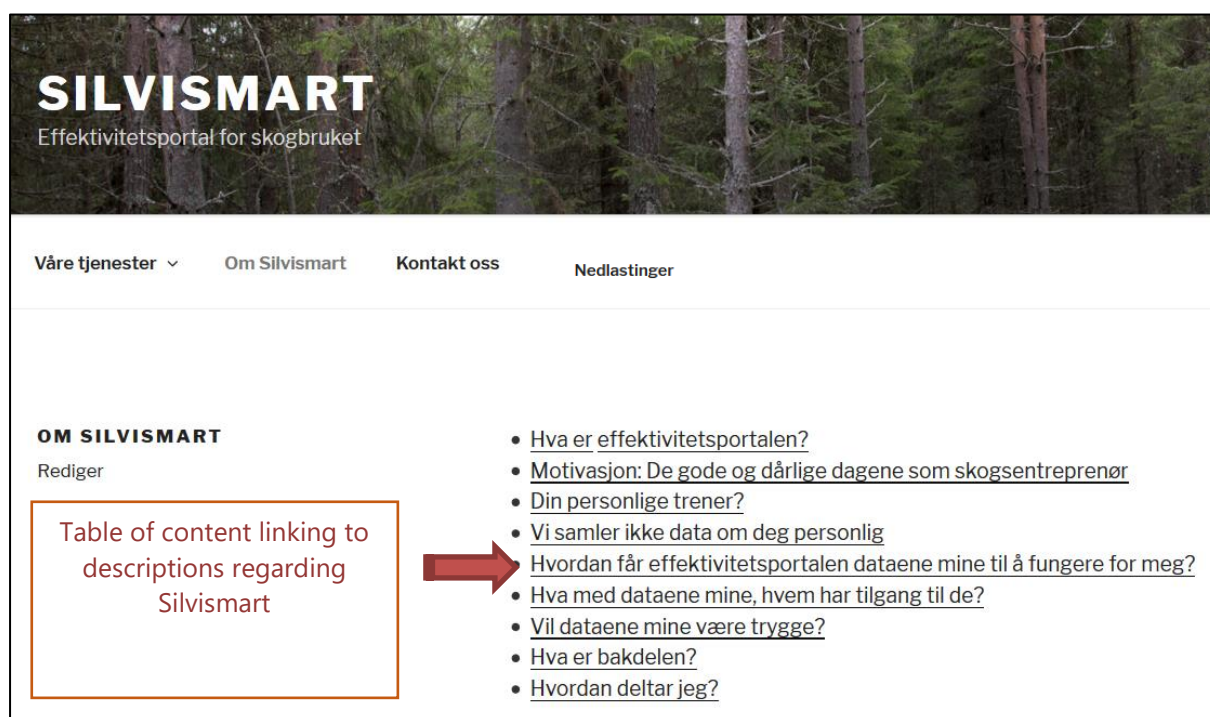


Figure 3: Sub-page “Om Silvismart” (“About Silvismart”).



### 2.1.3 Sub-page “Brukergrensesnitt” (“User interfaces”)

As Silvismart is offering different user interfaces, a general description is provided on the sub-page “Brukergrensesnitt” (Figure 4) and each user interface is comprehensively explained. At the moment Silvismart offers the following four user interfaces:

- Mitt maskinlag → My Fleet
- Mitt bestand → My Stand
- Mine oppdrag → My Operation
- Mine data → My Files

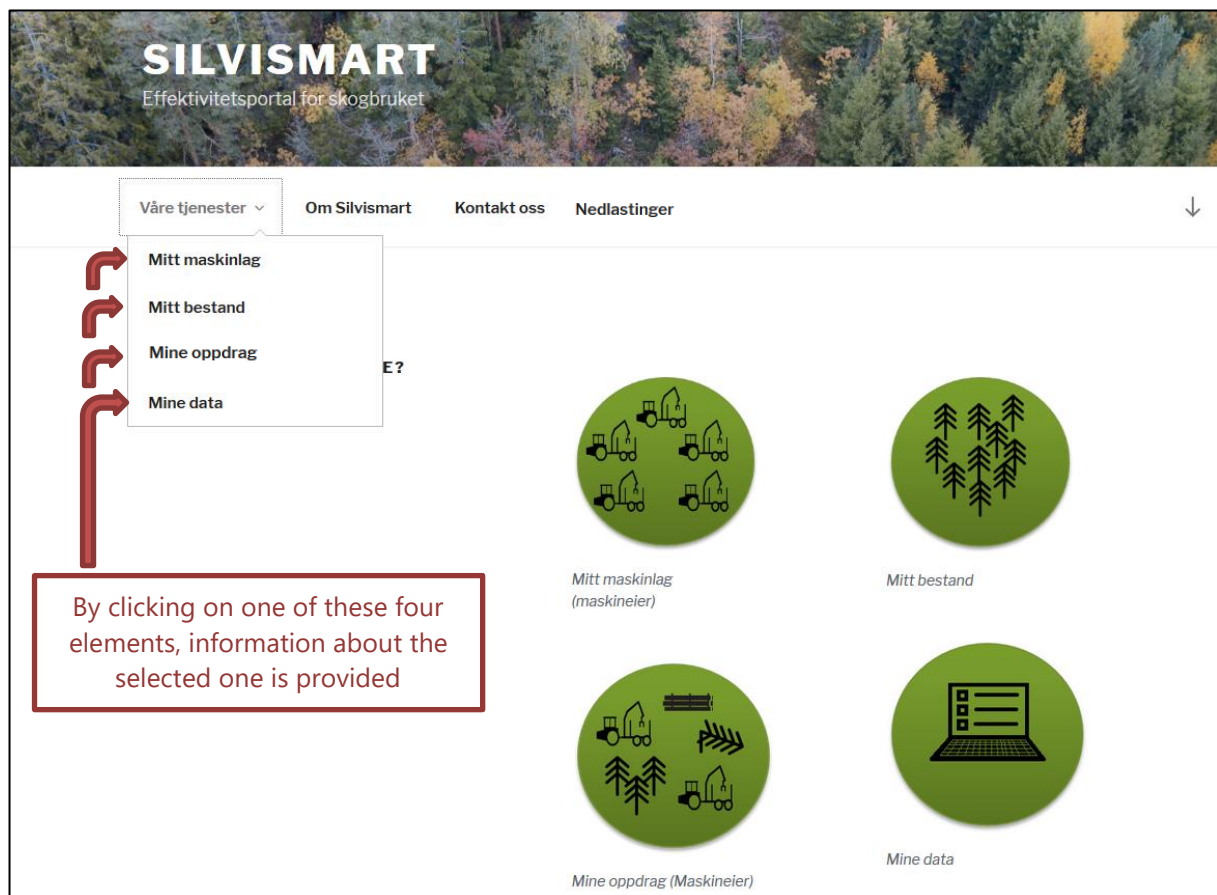


Figure 4: Sub-page “Brukergrensesnitt” (“User interfaces”).

### 2.1.3.1 My fleet

Information for the machine owner with multiple machines, in a standardized form, no matter what mix of machine brands you run. My Fleet gives you further insight into how your machines compare with each other, how well you are matching the right machine to the task, and how your fleet compares with the output of similar fleets in the industry.

### 2.1.3.2 My stand

For a forest owner, the My Forest Stand login provides maps of volumes and species distributions as well as detailed summaries of volumes produced by assortment.

### 2.1.3.3 My operation

Summarizes data from the harvester and forwarder at the stand/operational level. This gives the machine owner the possibility to observe and manage the operational site in almost real time.



Figure 5: Harvested trees from my operations.

### 2.1.3.4 MY FILES

Offers the possibility to retrieve originally submitted files as well as manual upload of new files. By going into your My Files you get full access to all the files as submitted since you started participating. You can also submit new files if you prefer to do that via a USB flashdrive and your computer. Either way, you can be sure that your files are safely archived for you.

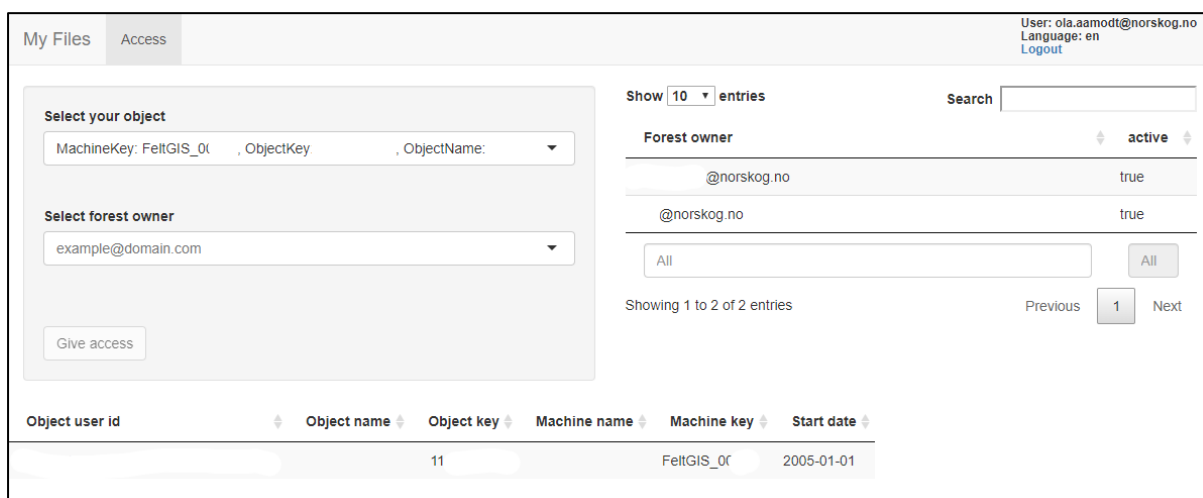


Figure 6: My files interface.

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## 2.1.4 Sub-page “Nedlastinger” (“Downloads”)

The sub-page “Downloads” offers different resources for download by the user. So far, this includes factsheets about Silvismart as well as a factsheet about “FeltBoks” and “FeltLog”. Upon request of one contractor a small factsheet for machine operators was created, which is now also provided as download. Additionally, the installation manual for FeltBoks as well as the installation manual for FeltLog can be downloaded (Figure 7).

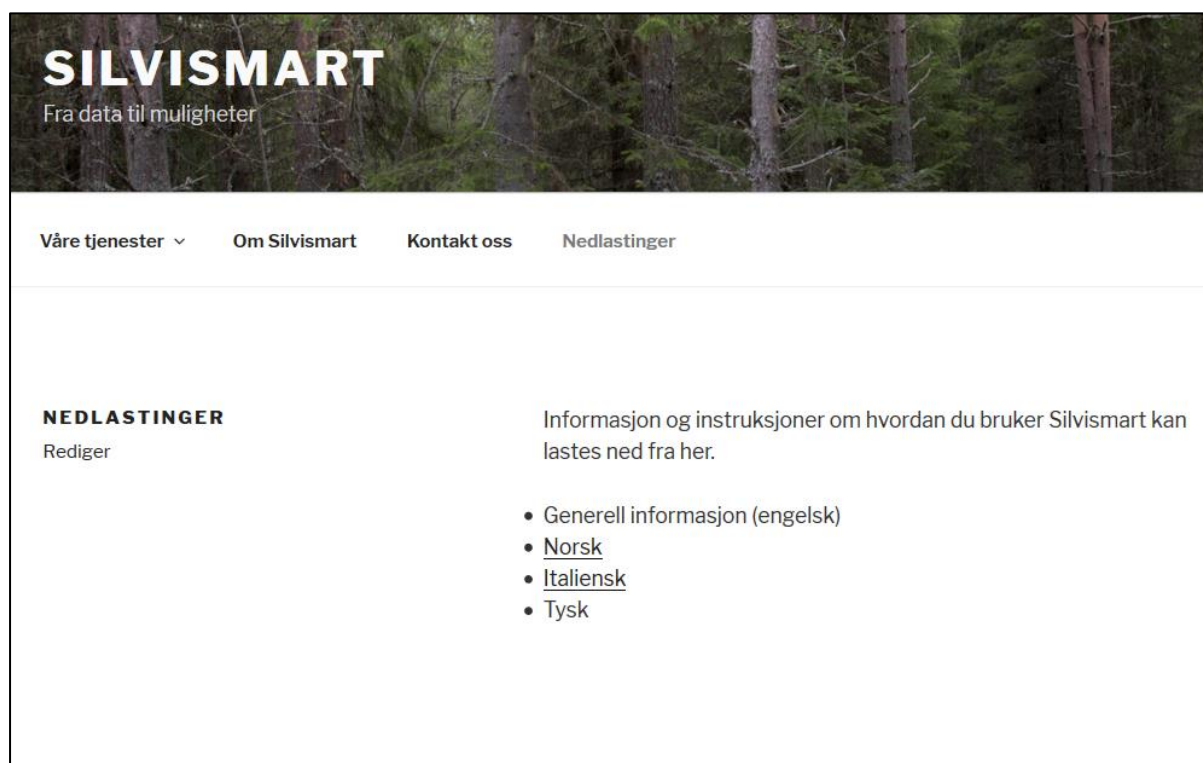


Figure 7: Sub-page “Nedlastinger” (“Downloads”).

### 2.1.5 Sub-Page “Kontakt oss” (“Contact”)

The sub-page “Kontakt” enables to get in contact with the national support team (Figure 8). For Norway the national support team consists of Rasmus Aastrup and Bruce Talbot, both working Norwegian Institute of Bioeconomy Research (NIBIO)

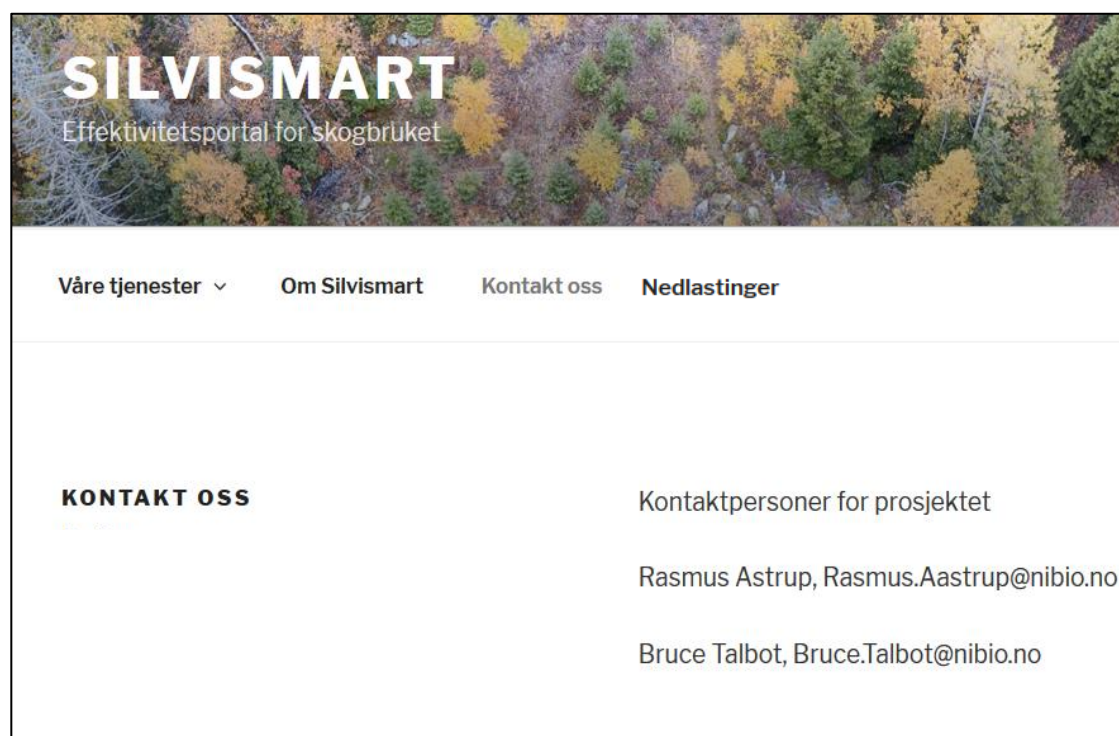


Figure 8: Sub-page “Kontakt oss” (“Contact”).