



Web portal

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Objectives

- To build a dedicated web portal allowing users of a shared information system to navigate through the materials, methods and results obtained by the BIRO system.
- To provide an open-source software component for transfer of it's technology at low cost across Europe.

The logo for EUBIRO D consists of the text 'EUBIRO D' in a bold, sans-serif font. The letters 'E', 'U', 'I', 'R', and 'D' are yellow, while 'B' and 'O' are green. A small European Union flag is positioned between the 'I' and 'R'.

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Technology

For the implementation we have chosen the following technologies:

- Apache webserver
- PostgreSQL or MySql
- PHP
- Drupal
- XML

The logo for EUBIRD, with the letters 'EUBIRD' in a bold, yellow font on a green background. A small globe icon is positioned between the 'I' and 'R'.

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Drupal

- An open source content management framework based on PHP. Includes framework for security, database-connectivity and menu system.
- Content and design is highly customizable through modules you can create on your own, or by third-party modules.
- Easy to use.

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The BIRO modules

- A custom drupal module for indicator presentation.
- A custom drupal module for browsing data dictionaries.

The EUBIRD logo consists of the word "EUBIRD" in a bold, green, sans-serif font. The letter "I" is replaced by a stylized globe icon. The logo is set against a dark green rectangular background.

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Indicator presentation module

- This module provides:
 - A dynamic menu that provides an overview of the indicators that can be viewed.
 - A page on which it displays the indicator selected from the menu.
- The module is configured through an XML file.





Indicator presentation module

- The display elements are collected from the Report templates register.
- The XML file configures each indicators elements, the elements' pathname of the file containing the content and the layout of the element. Elements can be of type image, text or table.
- Content is easily updated by replacing the element file.

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XML-configuration example

An example of an xml-file:

```
<?xml version="1.0" encoding="UTF-8"?>
<!-- Sample XML file generated by XMLSpy v2008 sp1 (http://www.altova.com)-->
<biro_indicators xsi:noNamespaceSchemaLocation="indicators.xsd"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <chapter id="1"><name>Demographic characteristics</name></chapter>
  <chapter id="1.1">
    <name>Age (Classes)</name>
    <text/>
    <header/>
    <footer/>
    <stat_output>histogram</stat_output>
    <strata>Gender</strata>
    <elements>
      <element order="1">
        <type>image</type>
        <filename>1_1.png</filename>
        <col>1</col>
        <colspan>1</colspan>
        <row>1</row>
```


Data dictionary module

- This module provides:
 - A generic mechanism for programmatically generating a browser within the web application from a structured file of data.
 - Access to the definitions of the variables and the indicators.
- The module is configured through two XML files.



Data dictionary module

- The menu generated and the data displayed on selection of a menu item are determined entirely by the data files provided.
- XML file for variable definitions.
- XML file for indicator definitions.



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Test site

We have installed a test-site with the current status of the development.

It is located at <http://biro.tysseit.no/>

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