


Visualization of FADN –data with maps in EconomyDoctor –internet services






Arto Latukka & Jussi Iltanen
 21st PACIOLI –workshop
 22nd-25th of September 2013
 Orenas Castle, Lund Area, Sweden

25.11.2013


Economy Doctor -services

Language selection: [Suomeksi](#) [På svenska](#) [In English](#)

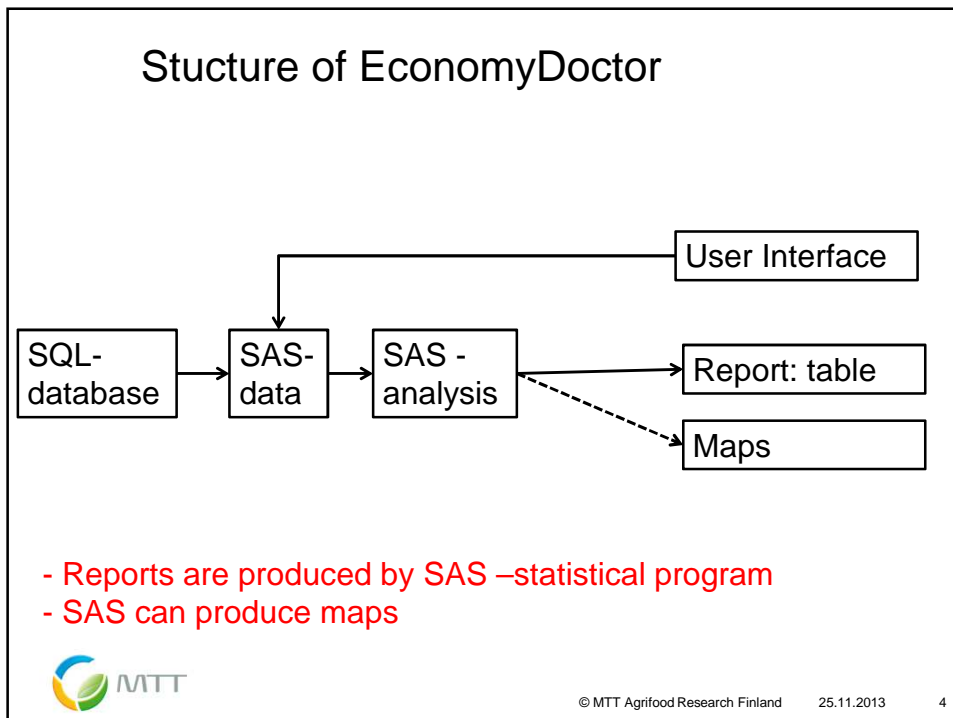
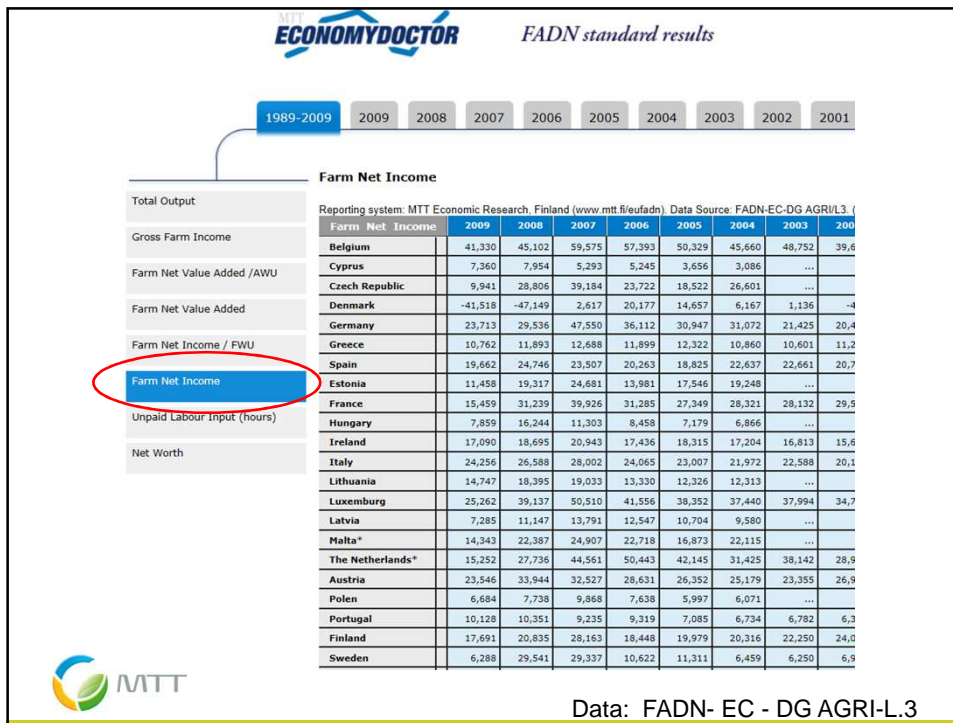


EU MEMBER STATES <small>EU Member State FADN results</small>	FINLAND
<div style="border: 1px solid red; border-radius: 50%; padding: 5px; margin-bottom: 10px;">  <p>FADN Standard Results ▶ Results of EU member countries Results updated 5.6.2013</p> </div> <div>  <p>FADN Advanced Results ▶ Key ratios calculated of EU results by member countries Results updated 5.6.2013</p> </div>	<div style="margin-bottom: 10px;">  <p>Agriculture and horticulture ▶ Preliminary results 2012 updated 10.6.2013</p> </div> <div style="margin-bottom: 10px;">  <p>Reindeer farming ▶ Results 2011/2012 updated 2.4.2013</p> </div> <div style="margin-bottom: 10px;">  <p>Fur farming ▶ Results of accounting year 2006</p> </div> <div style="margin-bottom: 10px;">  <p>The Structure Development of Agriculture and Horticulture ▶ Structure Development 1998-2012 Results updated 21.8.2013</p> </div> <div>  <p>Total Calculation ▶ Finnish agriculture Preliminary results 2012 updated 8.4.2013</p> </div>

Service Production: © MTT Agrifood Research Finland | www.mtt.fi



© MTT Agrifood Research Finland 25.11.2013 2



The screenshot shows a web interface for selecting data criteria. At the top, a navigation bar contains years from 2009 to 1999, with 'Own Criteria' highlighted in a blue box. Below this, the 'Own Criteria' section includes a 'Select report' dropdown menu set to 'Income Statement'. A heading reads 'Select up to five classifiers and their values and Generate report', with a note that multiple classifiers can be selected by holding down the CTRL key. Three classifier sections are visible:

- 1. Classifier:** Year > 2009, with a 'Change option' link.
- 2. Classifier:** Member State > Poland, Sweden, with a 'Change option' link.
- 3. Classifier:** A list of options including Economic Size, Production Type (tf8), FADN Regions (highlighted in blue), Production Type (tf14), General Type (a28), Principal Type (a29), Particular Type (a30), Organic Production, and Less Favoured Areas. To the right of this list, a column of region names is shown, including Malopolska and Pogorze (POL), Mazowsze and Podlasie (POL), Pomorze and Mazury (POL), Wielkopolska and Slask (POL), Lan i norra (SVE), Skogs-och mellanbygdsjan (SVE), and Statbygdsjan (SVE).

 At the bottom, there are buttons for 'Select additional classifier' and 'Generate report', along with the MTT logo.

- Economy Doctor has already flexible user interface to select accounting year, member states, regions, production types etc.

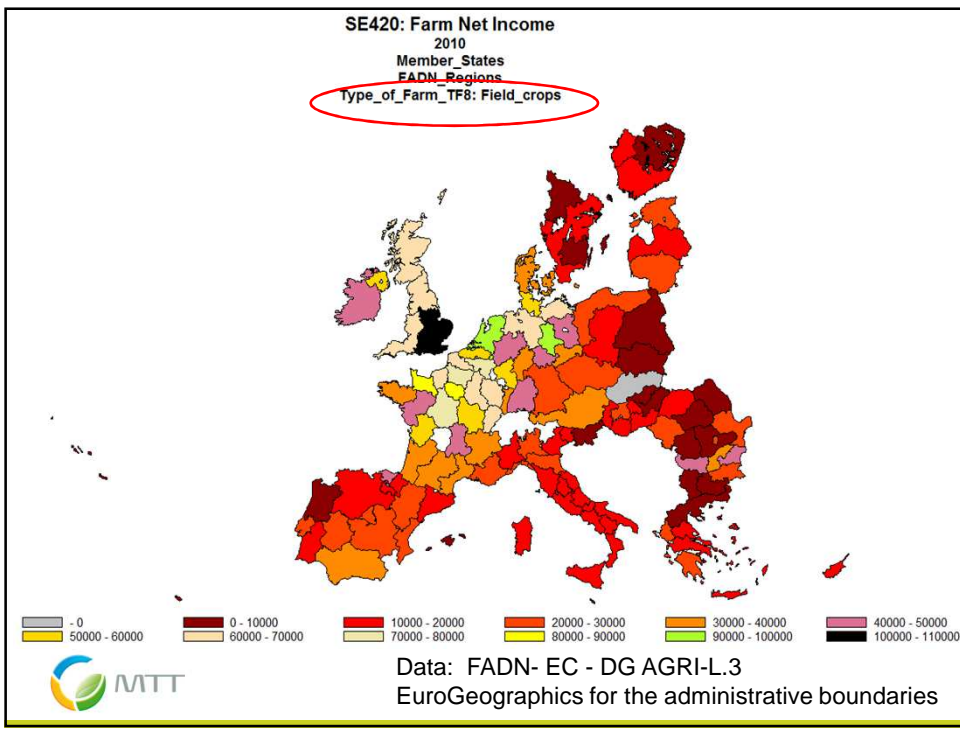
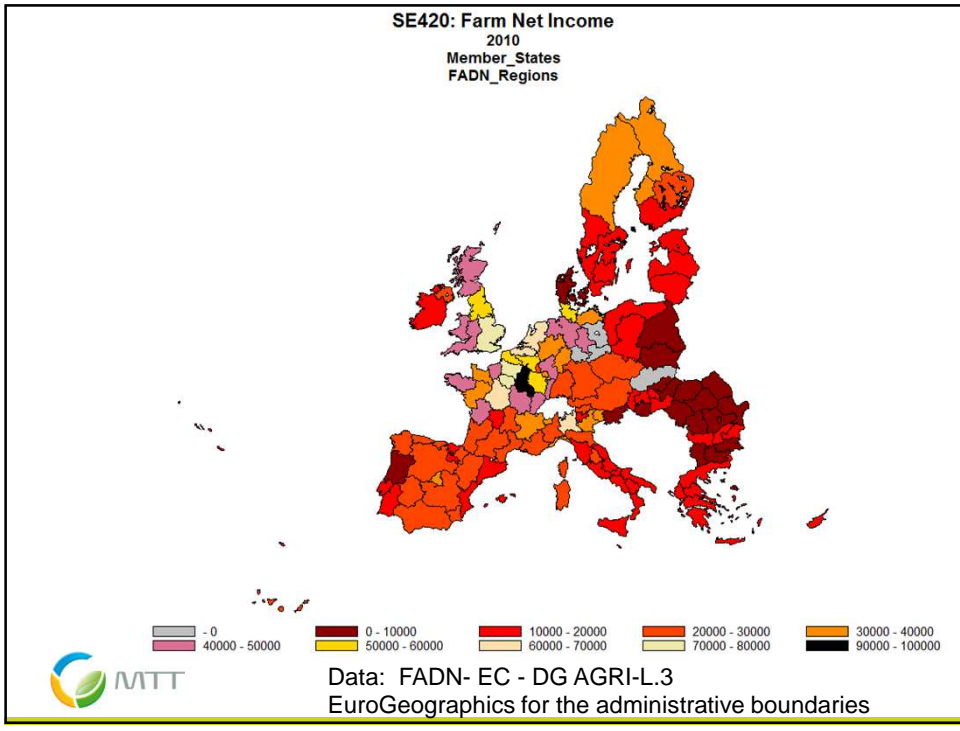
-User interface can be used with the maps

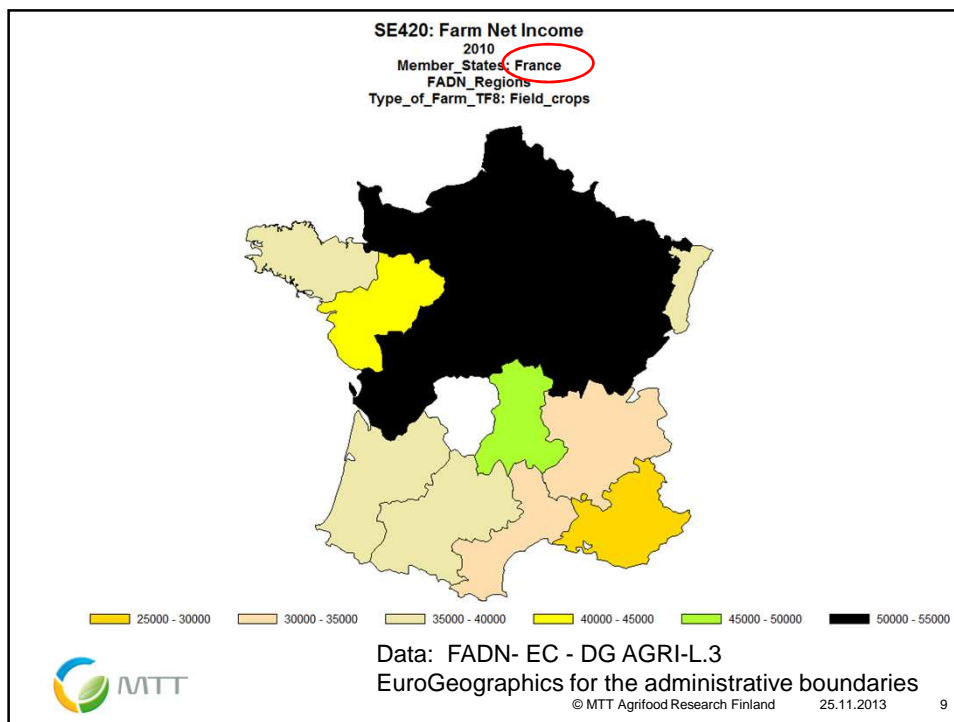
Selection of map (user interface not ready yet)

This screenshot illustrates the selection process for a map, with several elements circled in red to indicate user interaction points:

- 1. Select report:** A dropdown menu with 'Income Statement' selected.
- 2. Select variable:** A list of variables including 'Gross Farm Income', 'Depreciation', 'Farm Net Value Added', 'Balance subs.taxes on invest', 'Subsidies on investments', 'Payments to dairy utgoers', 'VAT on investments', 'Total external factors', 'Wages paid', 'Rent paid', 'Interest paid', and 'Farm Net Income'.
- 3. Select accounting year:** A vertical list of years from 2009 to 2002, with '2010' circled.
- 4. Select region classification:** Two options, 'Member State' and 'FADN Regions', are circled.
- 5. Select production type etc.:** A list of production types including 'Production Type (tf14)', 'General Type (a28)', 'Principal Type (a29)', 'Particular Type (a30)', 'Organic Production', and 'Less Favoured Areas', with 'Production Type (tf14)' circled.

 The MTT logo is visible at the bottom left, and the footer contains the text '© MTT Agrifood Research Finland 25.11.2013 6'.





SAS -code to produce maps

```
proc mapimport out=fadn_region
datafile= 'C:\fadn_region.shp';
run;
```

```
legend2 value= ('0 - 10000' '10000 - 20000' ...)
Options reset=all colors=(silver darkred red orangered ...);
```

```
Proc gmap;
map=fadn_region;
id fadn_region;
choro FarmNetIncome/
discrete legend=legend2;
run;
```



Development in the future

- Possibility to change the number of classes and class borders
- Drill down and monitor the exact values with the mouse
- Include second variable to the map (pie, pillars)
- Combination of the tables and maps in the user interface of Economy Doctor



Thank you for your attention

Arto Latukka & Jussi Iltanen
MTT Economic Research, Finland

arto.latukka@mtt.fi, +358 29 531 7439
jussi.iltanen@mtt.fi, +358 29 531 7250

