

15th PC-AXIS Reference group meeting

Reykjavik, Iceland 21-23 August 2006

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Agenda:

Monday 21 August

09.00 – 09.15 Welcome to Hagstofa - Statistics Iceland

09.15 – 11.00 Presentations from the participants on the experiences and the planned usage of PC-AXIS in their country

11.00 – 11.30 Coffee break

11.30 – 12.30 Demonstration of PC-AXIS implementation and plans at Hagstofa on the Internet

12.30 – 14.30 Lunch

14.30 – 16.45 Demonstration of products of relevance in the field of dissemination of statistics in electronic form:

- PC-AXIS new version 2006
- PX-WEB new version 2006
- PX-iGraph new version 1.5
- PX-web CD-ROM product
- PC-AXIS .NET achievements
- PX-Web .NET achievements
- PX-edit status report
- NPM achievements
- PX-SDMX converter
- CoSSi in practice

- PC-AXIS Forum

17.00 – 22.00 Participants are invited to a trip to the Blue Lagoon, including dinner

Tuesday 22 August

09.00 – 10.30 Discussions on future development of PC-AXIS Windows and Web versions. What functions are desired for the future?

10.30 – 11.00 Coffee break

11.00 – 12.30 Discussions continued

12.30 – 14.00 Lunch

14.00 – 15.30 Discussions continued

Wednesday 23 August

09.00 – 10.30 Discussions on future development of PC-AXIS Windows and web versions. Functions desired for the future.

10.30 – 11.00 Coffee break

11.00 – 12.30 Discussions continued

12.30 – 13.30 Lunch

13.30 – 15.30 Discussions continued

Conclusions

The participants agreed that the 15th meeting in the international PC-AXIS reference group was very successful, partly because of the giving discussions and the priorities set for the coming work, partly because the Icelandic hosts had arranged the meeting so well, and Iceland was a new and most exiting experience to most of them.

In general the latest development of PX-Web was promising and was supported. Quite some time was spend discussing the new beta version of PX-MAP, and the Norwegian developers got some comments and feed back to consider for a the final version released this year. Several countries have made developments within partly similar areas. For the next meeting it was decided we shall make some comparisons of these software products.

It was decided that the PC-AXIS Forum set up by Slovenia is most useful, and the group gave Slovenia the support to continue the work.

It was decided that a priority is the .Net version. Ireland, Norway, Slovenia, Denmark and Croatia will test and give feed back on the solutions developed by Statistics Sweden.

Minutes :

Halgrimur Snorrasson, Statistics Iceland welcomed the reference group. This 15th meeting counted 52 participants from 20 different statistical offices.

Country reports:

The complete reports can be found at the PC-AXIS developers' website, www.pc-axis.scb.se. Only extracts are mentioned below.

Sweden

Statistics Sweden disseminates tables from their web databank as well as in 48 pre-packed tables in PX-WEB (very big files). More than 650,000 tables were retrieved from the databank in 2005.

The DS-Publ template is used in more than 100 publications. The PX-Publ link to the database is not yet in use within Statistics Sweden.

For the year 2007 issue of the Statistical Yearbook of Sweden the template part of PX-Publ from Statistics Denmark adjusted for the local needs in Statistics Sweden and by Statistics Sweden.

10 Swedish municipalities and 5 other organisations use PX-WEB on their Internet or intranet. In total 38 statistical offices have license for PX-WEB. During the last year five new contracts have been signed.

PC-AXIS was tested by a focus group together with other soft ware. PX-Web was considered the best and the easiest to work with.

A new pricelist will come into force from 2008.

The new pricelist for the license fee will be distributed in October 2006. PC-AXIS has been presented in several international meetings and consultancies.

Licenses:

- Europe 43 (inside Sweden 15)
- Africa 7
- America 2
- Asia 4

Croatia

The new CBS website was introduced in May this year with new graphical design and first possibilities for retrieve data from Statistical databases. Data are produced using the NET-based assembly for creation of PX-files, the PXFileMaker. The PC-AXIS Sql Macro meta is implemented for storing the data. For the time being it is used for Foreign Trade statistics. Training courses are established. They have still a problem with national characters in transformation to Excel.

Denmark:

There have not been many changes in systems directly connected with the PC-AXIS modules:

Updates in PX-MAKE: Multi lingual is partly implemented, final tests to be done. NPM will be implemented fully. .

Updates in PX-iGraph: added horizontal bars, stacked bars, two-in-one graph type

The program has been re-written in C## to be able to work together with the coming .NET version of PX-WEB. This has at the same time caused an optimization of the program.

The user interface to the StatBank has been upgraded with a new version that includes selection of aggregates, sorting of output as well as in selection boxes.

The StatBank is bilingual and contains 1,500 tables in Danish as well as in English.

The user interface to the Oracle based StatBank is also “rented” to other organisations. It is called StatHost. Data are loaded in Statistics Denmark’s database but shown on own web site.

Estonia:

The two public PX-Web databases have been used increasingly since the opening in 2001. (The Statistical database containing all official statistics and the Regional Development database). The number of retrievals was in 2005 354,000. In 2006 it is estimated to be around 6-700,000.

There are over 2,000 tables and 18 million data cells.

The software is being promoted to the western Balkan countries, and it will in the future also be promoted in other countries. (Georgia, Ukraine).

Finland

Statistics Finland has for a while been working on the development of an XML output from PC-AXIS. This is now finalised by the xml file format according to the CoSSI model into PC-AXIS XML format.

One of their main databases, StatFin is being transferred to PX-web (expected to be ready October 2007). They have made a very good manual (also an English version) describing the PX-file and standards in use inside the office regarding creation of PX-files.

External users can access 25 databases of which 20 are charged (1200 contracts with users) and five free of charge. In total 6,542 px-files are available, (about 600 in the free databases).

The new PX-Edit 2.4 version supports CoSSI/XML specifications. The coming version 3.0 will support multi-language files.

Ghana

They are interested in using PC-AXIS, but could wish some more statistical (analytical) functionality included.

Iceland

PX-Web is becoming the most important dissemination channel (PC-AXIS is diminishing). The latest version is now installed. The average number of retrievals is 53,000 per month, and it is increasing. The database contains 978 tables in Icelandic and approximately the same in English.

Statistics Iceland mentions a few suggestions to be developed in a future version (which they look forward to being in .NET).

Ireland

The work done in relation to PC-Axis in CSO since the last meeting can be summarised as follows

- Further development of an application to manage and update SQL database – Databank Management Portal
- Promote use of PC-Axis tools and concepts within CSO
- Development of new content for dissemination
- Investigation of and familiarisation with PX-Map concepts including new BETA version
- Incorporated RSS subscription facility (replaces original Data Subscription Services) for each statistical product (PC-Axis subject) and twenty most recently updated.
-

FAO

PC-AXIS has been introduced to several member countries. The project is called ContrySTAT.

The project on SDMX as an exchange format from PC-AXIS. They have been working on a easy and automatic way to set up the PX-web server with all right permissions to read and write. PX-WEB and PC-AXIS is introduced in the countries in the region, and data are send to the FAO in Rome and distributed.

A CD-ROM of the PX-WEB has been made. It can be copied to the web site and it will work. It can be downloaded from the site: ftp://ext-ftp.fao.org/ES/essb/ess/ftp_essb/Countrystat/4REYKJAVIK/WEBFOLDERFAOCDROM/

* copy and burn all the folders and files under this folder into the root folder of an empty CD-ROM

* insert this new CD-ROM.

Known issues:

* make a folder called C:\TEMP with r/w permissions
* server.paths variables and objects have to be adjusted to enable the search box.

Latvia

IN the database on the web 1,040 tables are available, 70,000 retrievals a month. Metadata in the SDDS format is established. PX-WEB is integrated in the new version on the homepage. It is updated automatic with indicators from the database.

Lithuania

Statistics Lithuania has introduced the latest version of PX-WEB. The database has been enlarged and contains now 540 tables. Data in px-files are produced from PC-AXIS Sql using the macro metadata model 2.0. Some publications have been produced with PX-PUBL as a demo. They have developed a model to update and structure metadata.

Mozambique

The delegate from INE, Mozambique was not able to participate in person. However, a report on their status with PC-AXIS was delivered.

INE Mozambique started using PX-Web in order to give access to basic data directly from the redesigned INE Web page. This was done as a pilot project in order to gain experience with the PC-Axis product family.

<http://www.ine.gov.mz:82/pxweb2005ine/Database/INE/databasetree.asp>

Tables are created with PX-MAKE and a development to be able to create multi-language table files will be welcomed.

The users preferred output is Excel. This is possible from the PX-web database.

The new database structure will be inspired by the policy related structure of the DevInfo database (in Mozambique known as ESDEM). A pilot database has been created, but the data remains to be migrated.

Norway

PX-Web is not used for dissemination. Data are stored in Oracle using the PC-AXIS Sql Macro as an internal interface to not published data, while an internet interface is available for external use. At the end of July 2006 StatBank Norway contains more that 2600 table matrices.

Model 2. 1 is implemented

Since the PC-Axis reference group meeting in 2005 the major areas of development have been

- a) renewal of the functionality for loading data into the sql database, with stricter data controls. The system also handles markers for data that cannot be presented (missing or confidential data), the so called NPM system
- b) creating loading facilities that will allow automated loading from subject matter subsystems
- c) linking of table data to metadata systems; i.e. databases for classifications and variable definitions
- d) creating utilities for automated export of data from the statistical databank.

More over The Norwegian Ministry of Modernisation in 2004 proposed an initiative called "The Electronic Interaction Initiative". Statistics Norway's primary contribution in connection with PC-Axis, will be generalized interfaces for data extraction from our statistical database. The interfaces will be of the "pull" type, and will, among other things,

make it possible to use their statistical data interactively in applications outside Statistics Norway.

PX-MAP has come in a .NET version building on SVG functionality (version 2). A beta version was demonstrated later in the meeting.

Slovakia

A regional database uses PC-AXIS. The PX-EDIT is incorporated in the system. PX-WEB is adjusted to fit the needs of the regional database.

Slovenia

Strategic decisions on dissemination were implemented in 2006: all data shall be published in the SI-STAT database. Output tables are defined to suit PC-AXIS directly – without passing through Excel. Hyperlinks are used instead of info files.

Statistics Slovenia is migrating to a PC-AXIS Sql macro base. User registration has been implemented. The total number of users is 2,400.

The users are positive to working in PX-Web.

Because of local modifications to PX-Web, it has been difficult to upgrade to a new version.

Spain, EUSTAT

The PC-AXIS 2005 version is installed. PX-web is the free of charge dissemination database on internet with 1500 px-files.

PX-web is set up in four external sites within the Basque countries: three departments and the City of Donostia-San Sebastian.

Spain, INE

INE is in a transition period moving away from the situation where data are stored in PC-AXIS files to store them in a database, TEMUS-2, which is an Oracle database.

Data can be used in three ways: 1) on-the-fly generated, 2) Predefined tables, 3) Time series output through a Java interface.

PC-AXIS has been exported to two ministries.

They use a UNIX based version of PX-WEB called AXI. This has now been further developed with a JAVA based module, JAXI. It is ready to be published very soon.

New functionality is the JAXI module: When a selection of variables and values is made, the start of the resulting table is shown as the selection takes place.

An enriched Excel format export is developed. It can be used by other installations as well.

South Africa

Census 2001 was disseminated with PX-WEB, PC-AXIS. PC-AXIS files are made by PX-MAKE where metadata are connected to the data. South Africa office has twice a year asked the users about their needs and satisfaction. Training courses in PX-WEB and was intended for students at universities.

C-AXIS is the star in dissemination- they still want to explore all the available functionality. Nestar is a product that competes with PC-AXIS. But PC-AXIS was chosen because it was so easy to install. FAO has been in the same position- they chose PC-AXIS. (Statistics Denmark should make a report as well) UNECE has compared several products and the report will be made available on the PC-AXIS web site..

UNECE:

The UNECE PC-Axis solution includes:

- an interface between the UNECE production database and the SCB Meta Database (macro) making use of the PC-Axis DB-Admin application;

- the use of PX-Batch components to generate the PC-Axis files that are prepared for internal and external dissemination;
- the use of PC-Axis SQL for the checking of data cubes by data producers and internal dissemination and that of PX-Web and PC-Axis for the internal and public dissemination.

Since February 2006 substantial additions to the content have been made, including a Russian version, the addition of several domains in the macroeconomic subject area and that of the Gender and Social statistics. This enrichment has quite substantially boosted the number of retrievals.

There is a general support to the PC-AXIS system.

The database stat@unece has 78 tables, 700 registered users from 53 countries, 5,000+ retrievals per month.

The PX-Admin module has been re-written.

An external evaluation of the databank contents is currently underway by 4 experts from National statistical institutes (Finland, Netherlands, Norway and US Census Bureau).

60 % of retrievals were made on the internationally comparable prices versions of the data cubes.

Tanzania

The background: they had a lot of statistical tables but needed an efficient system to disseminate them. PC-AXIS was used. Conversion is made from SPSS to Excel to PX-Excel to PC-AXIS.

Users still ask for descriptive features on maps (lakes, mountains, roads etc), on graphs they want labels, bar width, scales etc. and sorting of variables for charts.

An interface for administrators on the PX-MAP is a wish.

Demonstration of PC-AXIS implementation and plans at Hagstofa on the Internet.

The statistical office counts about 100 people. The office was established 1914 and is from 2006 solely a statistical office (civil registration was separated this year).

Information Service Division is 5 people. The current web site was launched 2003 and PX-WEB is the core functionality in dissemination.

In 2005 the CMS was updated to a .NET version and the layout and structure was adjusted according to a usability survey carried out by a consultancy.

The number of table retrievals is about 53,000 a month (100% more than the previous year). About 25% are retrievals of English tables.

PX-WEB is the main publishing tool. For updates PX-Excel (an add-in made in Iceland) is the primary tool, PX-Make and PX-Edit supplements. PX-Map will be introduced this year.

Via two PX-WEBS –an internal and an external, the publishing between the two is secured. A tool called COYCAT is used to select the files that should be copied.

They make a list of the 20 latest updates on the web.

Demonstrations

PC-AXIS 2006.

The sql interface. The language box for the tables is in a drop down. You can select between several languages.

NPM is now implemented.

Hierarchical variables are marked with new key words. If all elements in the hierarchy are selected it will be shown in the table as a hierarchy. If parts are selected only, it will be shown as non hierarchical.

PX-WEB 2006

PX-WEB 2006 is working with *multi lingual table* files.

Now elimination variables are marked and explained. Hierarchical variables are marked, Time variable can be sorted. List boxes with variables/values, can be shown in one or more rows.

Lists or buttons are optional and a new option to have some buttons also with lists. It is decided by installation.

Excel file from screen output takes care of Russian and Chinese language.

PX-WEB can also show hierarchies.

An option to show footnotes beneath the table is introduced.

PX-WEB from CD-ROM

Sweden as well as FAO has made a version where you can run the PX-WEB from a CD-ROM. It works somehow slower than on a normal web server. The two products are developed on the same program DWEBPRO.

PX-WEB .Net

An object oriented model of a PC-AXIS table was created: PXModel: PXMeta, PXData. This re-writing to .Net is made in order to make it easier for developers in the Family to develop separate functionality. Moreover this flexibility has been extended to a *plug-in-model*.

PX-WEB .Net

From the first look it is quite similar in layout as the normal version. However, some options are built in like change and colour, Re-size the selection screen. Classes are put on head and stubbing and even the cells (same class for all cells)

Each language has its own xml file. New languages can be added by adding a new xml file (where a few lines have to be modified).

.Net structure

The PX-Model (PC-AXIS Object Model) has to be filled from either PC-AXIS files (Statistics Sweden develops that) or a database (MS Sql, Sybase, Oracle) Statistics Norway develops that part (via PxSqlParser).(see the annex 2).

To ensure the optimal .Net solutions in the PX-development it was decided that some countries should be involved in giving feed-back and test the work of Statistics Sweden. Norway, Ireland, Slovenia and Denmark offered doing that.

PX-MAP 2

The new version is intended to replace PX-Map and PX-iMap. It builds on .Net, java script and svg.

Marianne gave a demonstration of the beta version and asked for feed-back to make priorities for the development.

Texts to the program are in an XML language file and can be changed to any language. The Adobe SVG has to be installed- for the time being on every work station.

If it is not installed they will not have a map at all. The group points out that it is necessary to get a bit map in this situation.

PX-Map works on PX-files or sdv files (comma separated files). Shape files are no longer used.

Functionality included in 2006: Legend, self-defined values of classification classes, more on-line text, special characters
Use of concepts, layout
User documentation
Documentation of SHP2SVG with examples.

FAO mentions a big need for layers with information, at least two. This is very important for the possibility to analyse for instance rainfall and crops (presented in two different layers).

PX-Edit 2.4

PX-edit is used for:

Manual or batch use

Syntax checking

Metadata enrichment

It can be used on any structured files (px, text files Excel, clipboard)

News since last meeting:

- User interface has undergone smaller changes.
- CoSSi/XML as output,
- HTML output
- Support for the new PX-format (DATANOCELL, DATASYMBOL, NIL behaviour (exact zero))
- New key word order
- Enhanced support for Excel
- Read the MAP list

Not yet implemented: multi lingual keywords + LANGUAGES, DATANOSUM

PX-Tool 2.4 works on several files (in principal a whole database) at the same time and is used by administrators inside Statistics Finland.

Version 3.0 of PX-Edit will contain multilingual file support, batch file controlled multi-purpose batch.

Statistics Finland gave a demonstration of PX-Edit.

PX-SDMX

The SDMX developer team has on request from FAO developed a converter tool from PX-files to SDMX. The transformation can go both ways between PX and SDMX. It should also work with the UN database DevInfo. It is ready and working. After a test and presentation in September to the FAO directors, the tool will be available for the reference group members. It looks very promising.

CoSSi in practice

CoSSi is a XML based dissemination model, which is supposed to be found at

www.stat.fin/cossi

It is building on matrices and reminds in the large of PC-AXIS, however, it is in xml.

It is mainly developed in order to be able to publish data from the PX-database to the web site in an automatic and structured way. There is conversion between PX and CoSSi format – both ways. A demo of the format and the way it can be used was given.

PC-AXIS Forum

Statistics Slovenia has established a forum that is intended for exchange of experiences and ideas: <http://www.vpc-kavsek.com/phpBB2> .

They invite the PC-Axis group to use it, and ask for formal support either to continue with them as coordinators– or to hand over the initiative to Statistics Sweden. The reference group saw this as a very good initiative. They asked Slovenia to apply for the necessary resources for continuing the coordination job.

SAS input

Statistics Finland uses SAS as the primary tool for table creation. In order to secure that these tables are also loaded into their PC-AXIS databases they have developed the transformation tool from SAS to PC-AXIS.

A demo of this transformation was given. It can be downloaded with some documentation. It can be found from the PC-AXIS site. (

http://tilastokeskus.fi/tup/pcaxis/lataus_tyokalut_en.html)

NPM

Null, Point, Missing covers the notation used instead of figures in a cell.

On the PC-AXIS site a test version of the program files including NPM can be downloaded. Statistic Norway has implemented 6 different characters in their database model, not yet in the user interface.

Data run through the NPM component will show the published presentation of the notation as well as the notation used inside the PC-AXIS file.

Creating data cubes

UNECE gave a demo of their application for loading metadata and data from an Sql database to the SCB model macro database. It includes also user/administrator access control and validation possibilities. It will still undergo some polishing.

Wishes from last meeting that are fulfilled

PC-Axis Main Modul for the 2006 version	
<p>Hierarchical variables should be supported. See separate paper on hierarchical variables. A working group consisting of Croatia, Ireland, Slovenia, Norway, UNECE, Sweden (Sweden takes the lead) Look into needed changes in the metadata model</p>	Ready
<p>Keywords to be saved by PC-Axis is the Finish INFO and Vartype(Region)=Region etc for time, classification and content. (Slovenia) Level(Region)="Text" (Slovenia) Survey="Text" (Slovenia, FAO) to be presented for the user in the information together with the table Update frequency (like the structure in Timeval) Next update (Finland) can also be presented for the user in the information together with the table Directory path (Finland) so file knows where it belongs PX Server, the file knows what server it belongs to Link (Slovenia) Link with brackets for each language. The link will turn up selection of variable and presentation of table.</p>	Ready

Xml format investigation ongoing. DTD based on the PC-Axis file format as a first version was included in PC-Axis 2004 and component for PX-Web.	2 formats ready, one started
“ Clear all selections ” Click on a variable name to select or deselect all values.	ready
Save information on code presentation only (PXQ), Slovenia 2005	ready or does it mean that texts should not be stored in px file?
PXQ also to include link with tables and calculate between tables (Estonia)	ready
PX-Web 2005 (asp) or 2006 (asp.net)	
Option to divide the list boxes in several lines in Varval or contents variable in a separate line, or for long text folders as the alternative in PC-Axis	ready
Mandatory presentation of keywords: source, unit, contact person etc. Add in the old button layout. .??? Done with the new css option?	?
Allow code/ text/ code+text option for selection and presentation for each variable having both codes and text. In layout with button	ready
Allow code/ text/ code+text option for selection for each variable having both codes and text for layout with drop down lists	ready
Additional logging of what the user has selected, UN/ECE 2005, if more is suggested to be logged, send it on e-mail to Louise	ready
Sort the table by data size in column. Javascript	ready
Characters in Excel export will be solved via XML, until then the csv-file can be used. (Solved in PX-Web)	new asp to xls
Incheader on every page as for Incfooter, Slovenia 2005	ready
New keyword to indicate a default chart type to be used (Slovenia), Defaultgraph=1 etc	keyword ready
Linking and calculating with table in PX-web components (DK) (no user interface yet)	ready in component, no gui

Item	Priority
Sql Macro	
To maintain up-to-date SQL script for the English version DB containing the Create Tables and the Create Constraints (PK, FK, NULL and Check values),	ready?
Data model: Russian characters needed in the SQL data model	ready

Item	Priority
An option to use TableId for the keyword MATRIX instead of PresCode from Contents table. Ireland	ready
PX-Batch with the macro and micro database	
browse button in the PX-Batch interface.	ready
PC-Axis Web site	
RSS info when the website is updated	ready

PX-Web wishes from Swedish users	
The most commonly used buttons for Sum Save etc are kept, while the rest is in a drop-down list	ready
Variables from which you have to select from are marked.	ready
Securing that all select boxes are shown at one page	ready
Latest time period show at top as a default	Ready The end user can make the sorting

Annex 1 List of participants

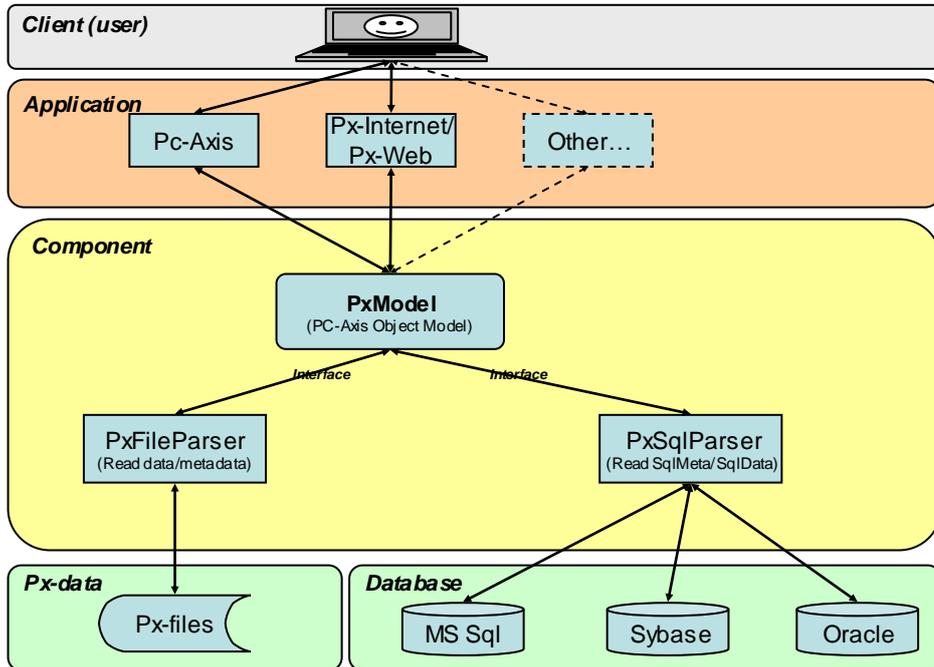
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Reports total								6

Annex 2 PC-AXIS component overview

PC Axis component overview



Annex 3 Priority list for future developments 2006-2007

Wish list for the PC-AXIS Family

PC-AXIS and PX-WEB will move to .NET for the 2007 version. To be able to use it the user needs the .NET framework on the PC (part of service pack 2). The old version will still be available for download for some years in addition

Proposals for developments (with priorities from the International reference group).

- I+ =Most important,
- I =Important,
- L =Less important,
- N =Not important. ,
- W =also in PX-Web

Additional proposals and priorities from the SCB PC-Axis User Group:

- S =SCB

<i>Item</i>	<i>Priority</i>	<i>Wish from</i>
PC-Axis Main Module for the 2006 version		
Xml format: 2 ready one remaining. Harri is making documentation.	I, Ongoing	
When presentation of the table is made as matrix it should be possible to get the variable name as column heading in stub. See separate paper	L, S, W changes for Dot.net	
Show footnote under the table in the grid (1 week). In Dot.net.	L	
Symbols to mark notes for values and variables	L, W+	
Introduce colour or a symbol when a cell note is available. Hyperlink could be a good solution, most important for the PX-Web. Like in Excel	I, W+	
Finland and others makes suggestions of icons of the PC-AXIS tools.	I, W	
Possibility to select time periods in the list with variable values in descending order. (Only if the file has the keyword TIMEVAL). An option to use reversed order as default in PCAX2000.INI. See also below and SQL Macro on meta data.	I, W	
<i>A new keyword for time series to be sorted in the selection box as default.</i>		
Convert to XML that can be used as input to Excel. Norway is looking into it. From Dot.net object model Norway will do it.	I+	
Linking two tables more flexible . Delete or fill out with. for empty cells. Just merge that is in common between two tables. For end users. Will be in Dot.net	I, W	DK
Links to other documents should work as real hyperlinks in the	I	

<i>Item</i>	<i>Priority</i>	<i>Wish from</i>
footnote page of PC-Axis. Dot.net		
PXQ to save codes instead of the position of the value, 2005. Will be made in XML saved queries.	I	Fi, Si, Is
The lengths of texts should be the same for all keywords. 1, 20 or 256.		
Split time (which includes timeval) into two variables year and month, Main module presentation only. To get a matrix with year and months. Add text for each language to replace M01 with January etc. Hierarchical variables.	I+	Si, HRA, Ie, Fi
Date stamp should be ISO standard (ISO 8601) Standard for dates, then decide for a standard yyyy-mm-ddThh:mm (Handbook on geographic information systems and digital mapping, Department of Economic and Social Affairs, Statistical Division. Studies methods Series F No. 79. UN NY 2000) Consequence in the GESMES format to be handled	I+	
<i>Rounding rules in PC-Axis(Banking rule) is not the same as in Excel(arithmetic rule). A new keyword for rounding rules. Default should be arithmetic. 2006.</i>	I	Fi, Si
<i>A second symbol to be "exact zero". Today "-" can be used.</i>	W	No
Classifications		
Improvements wanted for creation/changing aggregates . Possibility to add a new value in a group in a special order. (1 week) Make the interface more like the SQL grouping interface (4 weeks). Dot.net V-type variables can get a better interface rather easy.	L	FAO
PX-Web 2005 (asp) or 2006 (asp.net)		
Investigate the Danish Excel web queries. Request html tables on fly allows to make Excel query file. Lars K send an e-mail to Louise. A third option to save it as a web query.	I	
More possibilities when selecting variables and values. Refining a search . To be investigated for better solutions (at least as the Danish)	I	DK, Si
Automatic update of the list of contents when an updated PX-file is entered into the database. (Not in PX-WEB 2005) Optional, can be solved in .NET. An option in the 2007 version.	I	

<i>Item</i>	<i>Priority</i>	<i>Wish from</i>
Search in the whole database: show maximum of 30 or 40 hits. Finland sends code.	I	
Print with header and stub repeated /locked. see CSS version 3. Slovenia checks a java-script in their second database.	I	Si, UNECE , Fi
Rescaling of the graph axis is not possible at present. To PX- iGraph	Own section	
Decimals when exporting. More than is showed is expected to be exported to Excel. An option to change the number of decimals by the user. Show decimals to be changed to max 15. A parameter when save to Excel to select saved decimals or show decimals.	I	Is, Fi, Si, UNECE
Back and forward in the aggregation list selection, 2005. Dot.net		Is, FAO
Investigate if possible to have hyperlinks to footnotes for menu selection in the tree list of contents. See separate paper.	I+	UN/EC E
For the list of contents to have an option to have the date from the Keyword Last Updated. 2006		Si
The following keyword to be showed on the information page: Survey, update frequency, next update, link. 2006.		Si, FAO
List of content sorted by recently updated files, an option in PX- Web. 2006. Either date for PX-file or keyword last updated.		Ie
Option to sort the search result by last modified date. 2006.		Ie
Administration page to have an option to use the last updated keyword and checkbox to select all or deselect all. 2006		Si
A new option when looking at the saved table also to see all the menus for Edit and Save. 2006		Si
Possibility for the user to select number of decimals. 2006		Is, Si, UNECE
Upgrade of the Admin/AdmWhoWantsit.asp. Katja talks to Louise		Si

Item	Priority	<i>Wish from</i>
Sql Macro		
Select from large value sets (4 weeks). Enter codes to select from large value sets. A search box like Stockholm, Oslo, Copenhagen...., or fish*	L, S	HRA
To maintain up-to-date the User's manual with an attached demo Access database, Goga	I+, S	
Data model Sorting of footnotes by variable value not by footnote	I+	UNECE

Item	Priority	<i>Wish from</i>
number This is for cell notes. When using 2.1 version of the data model		
Data model: New information for hierarchical variables. In version 2.2	I+	
New column in MainTable for rule on rounding? Discussion continues in the Nordic database group in October.		No, Ie
Column in Maintable for status for the table. Internatal, published on the web. 2006.		UNECE
Many users want time series in ascending order in the selection box. In the Meta data model, MainTable.		No
PX-Batch with the macro and micro database		
New ini file , or information in pxsb file, with default directory for batch. The log in information as well.	L	
New program from Geneva recreating tree structure from menuSelection. Will be on the PC-Axis website for download. John and Marlen sends to Louise.		
PX-Publ, the link to the database		
DS-Publ, the macros, Denmark, Sweden, Norway, Estonia		
Documentation. Local changes shall be documented and send to kbk@dst.dk	I++++	
PX-Map		
Dot signs/symbols problem. Todays version. Needs to be checked.		
PX-Map 2		
Version 2 will be SVG (scalable vector graphics). January 2007		
Open different layers in a stack to use in a map. No analysis function.		

Item	Priority	<i>Wish from</i>
Layers with labels. Basic comparison, the layout on the screen, freeze a map and open next and freeze etc. Beta version available from the Iceland meeting website.		
Use the PC-Axis forum for ideas on the new PX-Map		
PX-iMap		
Non Latin characters not shown correctly. Not supported in present version.		FAO, UNECE
Label and figures for the regions. Finland has done it. Hans send it to Louise for test.		FAO, UNECE Tanzania and several
PX-Make, >6 countries use it.		
ODBC interface replacing MS-Access interface		Ie, FAO
Limits of the files, the grid shall take very large files, more than 65 000 rows. To be checked and correct this list.	?	
Will be update according to changes in the PC-Axis file format. For next year to discuss. The relation between PX-Make and PX-Edit.		
Multiple language option and language in default list and drop down, will be implemented.		
Right click menu in the Data tab is not anymore available.		Is
Installation routine more user friendly.	I	
On the Variables tab, Domain and Map should both have Browse... buttons.		
On the Footnotes and ValueNotes tabs, the difference between Note and Notex could be explained on the screen itself.		
PX-Edit (Comments to Veli-Matti)		
Easy aggregation, to make aggregation lists and use aggregation lists.	I	FAO, Fi

Item	Priority	<i>Wish from</i>
ODBC like in PX-Make		
PC-Axis Web site		
Link to the PC-Axis Forum		

Annex 4 List of documents

Country reports:

Croatia
Denmark
Estonia
FAO
Finland
Iceland
Ireland
Lithuania
Mozambique
Norway
Slovenia
Spain, INE
Spain, Basque Countries
Sweden

Other documentation:

PC-AXIS documentation .Net
Calendar2006
NewPC-AXIS 2005
NewPC-AXIS 2006
NewPX-Web 2005
NewPX-Web 2006
Whishes 2005-2006 Done
Whishes 2005-2006 Remaining