



## **PC-Axis Reference Group Meeting, Helsinki, Finland**

# **Country Report on the Use of PC-AXIS Taiwan, R.O.C.**

### ***History***

In recent years, our government encountered the shortages of manpower and budget, but the need of statistical information service from various circles was increasing. Thus, after referring to PC-AXIS project of Statistics Sweden, we hoped to establish our governmental statistical data warehouse system under the limited resource by absorbing the experience from Nordic countries to keep in line with international technology. The PC-AXIS Family was introduced into Taiwan and we signed a rental contract with Statistics Sweden in October, 2003. We started to establish PC-AXIS statistical database in 2004. After large amounts of tests and interface revising, a new version of “The query system of regional data” was issued at the end of 2005. It’s the first time for external users to browse PX-files directly and draw statistical graphs and maps with PX-Web and PX-iMap. To comply with the change of interface for data query of statistical database in the website of “National Statistics, R.O.C. (Taiwan)”, we published the query system of national data of PX-Web form in April, 2006.

### ***Current Situations***

There are two PC-AXIS statistical databases running for data query service, namely, “The query system of national data” and “The query system of regional data”.

#### **1. The query system of national data**

It was formally released by PX-Web 2004 version in April, 2006, and has been updated to PX-Web 2006 version now. The system, bilingual with 267 PX-files in Chinese and 263 PX-files in English, provides statistical



information including national accounts, price statistics, labor force, earnings and productivity, international trade, and financial statistics, where the item searched most often is national accounts. As for the information for internal use only, there are 341 PX-files in Chinese and 277 PX-files in English with additional items including population, the survey of family income and expenditure, public finance, social indicators...etc. To enhance the efficiency of updating PX-files and solve the problem where the data in our comprehensive economic and social database can't be converted into PX-files directly, we use Excel VBA Macro to convert the data (.xls or .txt) into designated formats, then into PX-files.

## **2. The query system of regional data**

The system, completed at the end of 2005, based on main administrative information regionally and provides metadata. Currently, we developed the Chinese interface only. It contains 32 themes, 316 statistical indicators and 454 basic statistical items, supporting about 11,700 times of data query per month. We make use of ASP to develop a program for converting the data in original database into PX-files directly, and then upload to our website for query. In addition, a new developed program for query crossing classifications was issued this year, which would help users to select indicators or basic statistical items among different themes. This program could meet users' requirements because the frequency of use was increasing gradually, 271times in April, 2,259 times in May, and 3,356 times in June.

## **Outlook**

### **1. Keep on enriching national database**

Since April, 2006, the query system of national data of PX-Web form was formally released, supporting about 15,300 times of data query per month, 94% in Chinese and 6% in English, where the frequency was increasing gradually. In order to increase the utility of this information service, we will add more statistical indicators step by step to enrich the national statistical data warehouse system in the future.



## 2. Strengthen automatic converting functions of PC-AXIS national database model

After spending much effort and manpower on acquiring, converting, filtering, tidying and integrating original data from different structures, our national database model has been established, and in the future, we will keep on developing automatic converting functions and programs for the management of this model to provide a higher-quality statistical information service.

## 3. Promote the application of PC-AXIS Family

There are four governmental statistical institutions trying to test PX-Web under our authorization now, and the Accounting and Statistics Office, Kaohsiung County, one of the units accepting our free support, has established the system and provided data query service. In the future, we will keep on promoting PC-AXIS family to other statistical institutions, while expecting to use PC-AXIS format to the standard interchange of statistical information and use PX-Web to establish the statistical information service network for communication among these institutions.

### *Problems*

Tools	Illustration
PC-AXIS Module	main Is it possible to open original XML(SDMX) or converting functions (XML to PX, XML to Excel) directly?
PX-Web	1. Is it possible to open original XML(SDMX) or converting functions (XML to PX, XML to Excel) directly? 2. We suggest adding Chinese announcement of character set for the converting functions of XML.



	<p>3. Is it possible to use BIG-5 and UTF8 at the same time?</p> <p>4. Is it possible not to load unused languages? For example, Statfile1.asp only load LanguageEn.asp Statfile9.asp only load LanguageTw.asp</p>
PX-iMap	Is it possible to mark geographical names, figures and annotations?
PX-Map	Unable to open Chinese PX-files.
PX-Map2.0	We had prepared Chinese interface of Language.xml, but the announcement of <Itemid="LanguageDefault">tw</Item> can't be executed in config.xml.
PX-file	Is it possible for map announcements unlimited one layer?
PX-Web 2006 Run From CD	Unable to execute English PX-Web 2006□

### *Use of PC-AXIS Family Tools*

Tools	Use code	Comment
PC-Axis main module	x	It's to be used internally and externally.
PX-Web comp.	x	It's to be used internally and externally.
PX-Web	x	It's to be used internally and externally.
PX-Make		Not to be used currently.
PX-Edit	t	It's to be used to edit PX-files.
PX-Map		Unable to read Chinese PX-files.
PX-Map2.0	t	
PX-iMap	x	It's to be used internally and externally.



PC-Axis SQL Macro	t	It's to be used for connecting Macro Model to consult PX-files.
PC-Axis SQL Micro		Not to be used currently.
PXbatch_ param.exe		Not to be used currently.
PX-Batch		Not to be used currently.
PX-Publ		Not to be used currently.

t= testing, x= internal and external use