

# PX-Web 2019 and more...

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**and more...**

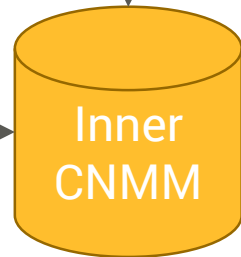
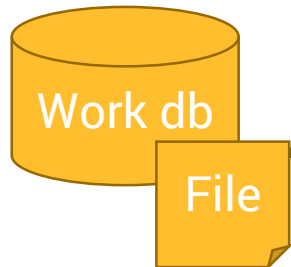


# PX-Software at Statistics Sweden

## Inner environment

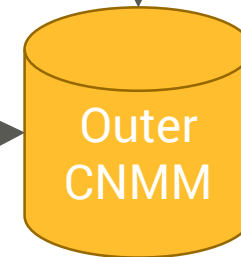
- Input and 09:30 publication

- Tool used by statistical producers to load data from the source (local database or file) to the production database
- API for automated loading from other systems



## Outer environment

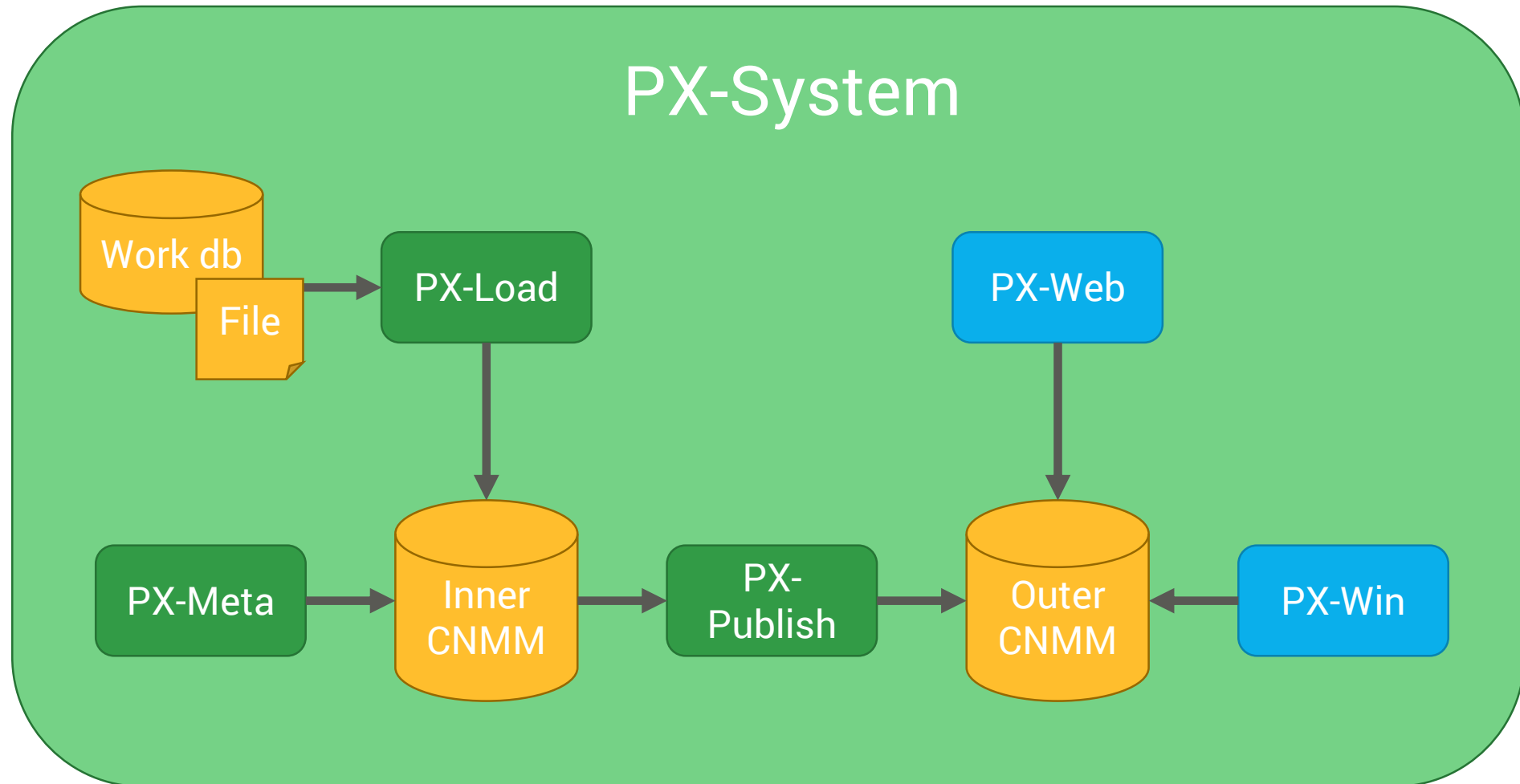
- Output and presentation



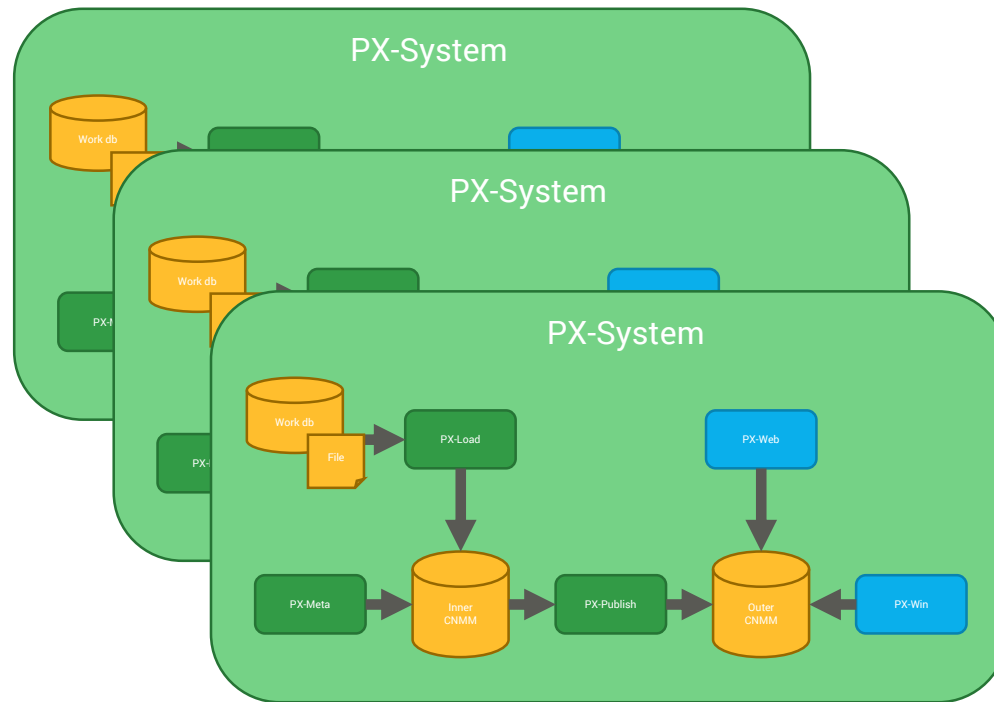
Tool for managing the metadata in CNMM databases

Scheduled publishing of statistical data and metadata so it can be accessed by external users

# PX-System



# PX-System



The statistical database

System A

System B

System C

System D

# PX-Web 2019



# About PX-Web 2019



- Statistics Norway (SSB) has started using PX-Web
- SSB has developed most of the new functionality
- Close cooperation between Statistics Sweden (SCB) and SSB
- Web project at SCB to modernize our web site
- New requirements for saved queries
- Being developed right now
- Release at the end of this year?



# New functionality



- Improvements in user interface
- New settings i Administration tool
- Output formats
- CNMM (Common Nordic Meta Model) improvements
- Extensions to Saved Queries



# Improvements in UI



## Browser tab

Possible to display table title in browser tab

## Menu page

Menu explanation

## Selection page

New search method

Fixed bug in search method when many values

Remember selected values and groupings

Improved performance

Firefox bug fix for sizing selection boxes

## Contact information

Only display relevant information

Changed information order under About table

Email-addresses are clickable

Firefox bug fix for Contact and information

## Chart

Display of text for single values in chart title

## Table

Optimized performance for DATACELLNOTES

## Sorted table

Data values are aligned to the right

Correct sorting of NPM values

## Saved query

Information about loaded saved query

**Population by region, period, age and sex**

	2004		2005				
	15	16	15	16	15	16	
Women	11,398	11,651	11,067	12,770	12,297	12,096	11,475
Men	2,103	2,079	1,983	2,306	2,101	2,199	2,110

**Information**

Official statistics  
Yes

Latest update  
12/7/2017

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Unit  
Population 1 November:  
number

**PX-WEB ADMINISTRATION**

HOME SETTINGS TOOLS FEATURES USERS

GENERAL CHARTS API SAVED QUERY SEARCH BACKGROUND WORKER PROCESS

**GENERAL**

**Saved Query settings**

Storage type  ?

Enable cache  Yes ?

Cache time  ?

Enable CORS  Yes ?

Show period and id  Yes ?

Population by region and year. marrie

Population by region and year. marrie

number

year

01 Stockholm county 03 Uppsala county

# API settings



- URL root API
- Default response format

Hide

Send (POST) the following JSON query to the URL below or copy to the API Console.

**URL:**  
`http://tstw36/PX-Web_2017_v1/api/v1/en/Example_PX/Population/BE0101A1elimitot.px`

**JSON query:**

```
{
  "query": [
    {
      "code": "period",
      "selection": {
        "filter": "item",
        "values": [
          "3",
          "4"
        ]
      }
    }
  ],
  "response": {
    "format": "json-stat"
  }
}
```

More information about the Statbank API

PX-Web ADMINISTRATION

HOME SETTINGS TOOLS **FEATURES** USERS

GENERAL CHARTS **API** SAVED QUERY SEARCH BACKGROUND WORKER PROCESS

**GENERAL**

**API settings**

**PX databases** ?

	no	sv	en
Cellinformation_PX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Demo_PX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Example_PX	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sverige_PX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sweden_PX	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**CNMM databases** ?

	no	sv	en
ssd	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Route prefix  ?

URL root API  ?

Max values returned  ?

Max cells returned  ?

Limiter requests  ?

Limiter timespan  ?

Enable CORS  ?

Enable cache  ?

Show API help  ?

Default response format  ?

# CNMM - Common Nordic Meta Model



- Support for CNMM 2.4
- Improved performance
- More relevant logging
- Automatic footnotes for NPM values (“..”)
- Metald for groupings

**maternal age**

--- Select classification ---  
10-year intervals  
5-year intervals

Total 37 Selected 0

-14  
15  
16  
17  
18  
19  
20

Search

Beginning of word

# Output formats



- Relational table – changed file extension from .scb to .txt
- CSV – Removed DATANOTECELLS
- HTML5 table
- JSON output format (from PX-API)
- JSON-stat - Support for geographical variables also for CNMM

```
"role": {  
  "geo": [  
    "Region"  
  ],
```

# Output formats – HTML5 table



```
<table id="BE0101G9" >
<caption>Average age of the population by region and year</caption>
<thead>
<tr>
<th></th>
<th scope="col">2012</th>
<th scope="col">2013</th>
</tr>
</thead>
<tbody>
<tr>
<th scope="row">0115 Vallentuna</th>
<td>37.8</td>
<td>38.0</td>
</tr>
</tbody>
</table>
```

**Average age of the population by region and year**

	2012	2013
0115 Vallentuna	37.8	38.0

# Saved queries



- Support for CORS and preflight requests
- Open saved query links from MS Office documents
- Optimized pivot operations
- User authentication
- Change output format
- Redirect to selection page

# Saved queries – Change output format



Saved query link:

<http://www.mypxweb.com/sq/3213d6d2-1e56-43c8-9d66-4599bbb4befb>

Get as Excel-file:

<http://www.mypxweb.com/sq/3213d6d2-1e56-43c8-9d66-4599bbb4befb.xlsx>

# Saved queries – Change output format



.px	- PX-file
.xlsx	- Excel-file
.xlsx_doublecolumn	- Excel-file with double column
.csv	- Default csv-file
.csv_tab	- Tab separated csv-file without heading
.csv_tabhead	- Tab separated csv-file with heading
.csv_comma	- Comma separated csv-file without heading
.csv_commahead	- Comma separated csv-file with heading
.csv_space	- Space separated csv-file without heading
.csv_spacehead	- Space separated csv-file with heading
.csv_semicolon	- Semicolon separated csv-file without heading
.csv_semicolonhead	- Semicolon separated csv-file with heading
.json_stat	- JSON-stat-file
.html5_table	- HTML5 table



# Saved queries – Redirect to selection page



Saved query link:

<http://www.mypxweb.com/sq/3213d6d2-1e56-43c8-9d66-4599bbb4befb>

Redirect to selection page:

<http://www.mypxweb.com/sq/3213d6d2-1e56-43c8-9d66-4599bbb4befb?select>



# Other



- Error page generates HTML 500 Internal Server Error
- Possible to create customized [URL:s](#)
- Removal of rxid in [URL:s](#)?
- More responsive UI?
- Bug fix for changed sort order of operations, output formats and views when saving in the Administration tool

# PX-Web 2019 test site



- <https://www.h6.scb.se/pxwebtest>

# Demo!

