

About PxWeb

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Statistics Sweden

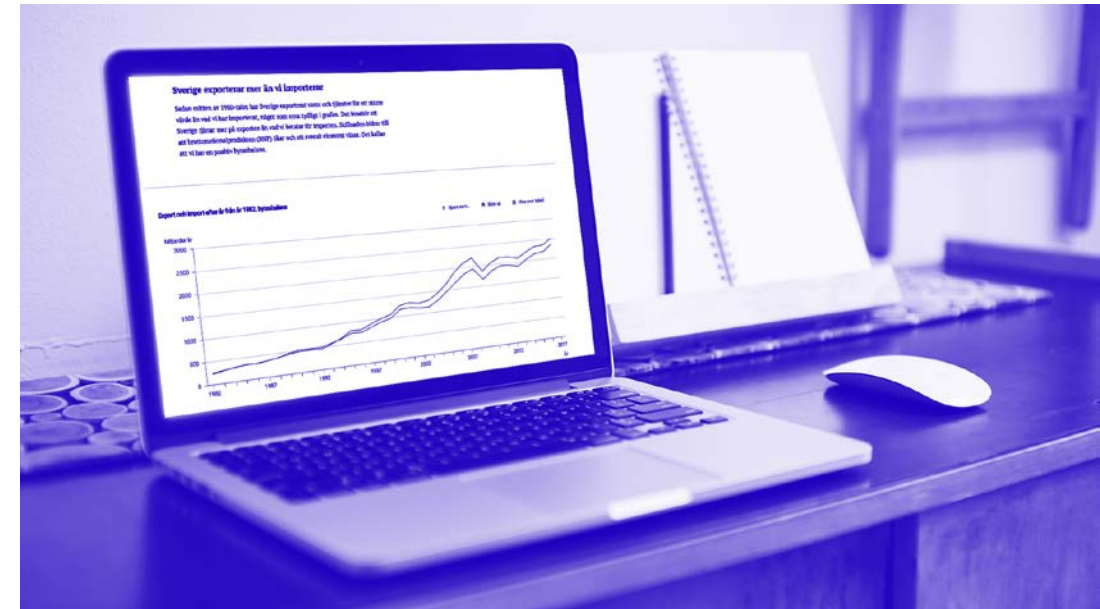


PxWeb 2020 v2



PxWeb 2020 v2

- Release in the middle of december
- User interface that follow WCAG rules
- Modernized PX platform
- Minor features and bug fixes



Improved user interface

- Following the WCAG (Web Content Accessibility Guidelines) rules
- Developed by Statistics Norway
- Customize by use of CSS



Population

01223: Population and changes so far this year (M) 1997K4 - 2020K2

Choose table Choose variables Show result

Open view

About table

Contents

Select all Deselect all

Search Beginning of word

Total 11 Selected 1

- Population 1 January
- Deaths
- Excess of births
- Immigration
- Emigration
- In-migration, domestic
- Out-migration, domestic

Quarter (a)

Select all Deselect all

Search Beginning of word

Total 68 Selected 1

- 2020Q2
- 2019Q4
- 2019Q3
- 2019Q2
- 2019Q1
- 2018Q4
- 2018Q3
- 2018Q2
- 2017Q4

Region

Municipalities 2020, aggregated time series

Select all Deselect all

→ Select values from group

Search Beginning of word

Total 259 Selected 0

- A-3001 Alesund
- A-3002 Moen
- A-3003 Sævi
- A-3004 Fredrikstad
- A-3005 Drammen
- A-3006 Kongsvinger
- A-3007 Ringebu
- A-3011 Mosjøen

Show table

Number of selected data cells are: 1
(maximum number allowed is 300 000)

Improved user interface

- Moving and merging code into Github in progress
- Selection page
- Part of presentation views
- Selection tree?



Population by age, sex, observations and year

Select variable About table

Mark your selections and choose between table on screen and file format. Marking tips
For variables marked * you need to select at least one value

observations *	age	sex	year *
--- Select classification --- [+][−][↔]	--- Select classification --- [+][−][↔]	[+][−][↔]	[+][−][↔]
Total 1 Selected 1	Total 102 Selected 2	Total 2 Selected 2	Total 159 Selected 5
Population	0 years 1 year 2 years 3 years 4 years 5 years Search [] <input type="checkbox"/> Beginning of word	men women Search [] <input type="checkbox"/> Beginning of word	2018 2017 2016 2015 2014 2013 Search [] <input type="checkbox"/> Beginning of word

Number of selected data cells are: 20 (maximum number allowed is 100,000)
Presentation on screen is limited to 1,000 rows and 30 columns

Show table [] Continue

Show table About table

Edit and Calculate Save table as Table - Layout 2 [] [] [] []

+ Table settings

+ Save your query

Population by age, sex, observations and year

		Population				
		2014	2015	2016	2017	2018
0 years	Men	59,584	59,994	61,005	59,899	60,032
	Women	56,296	55,884	58,018	56,715	56,807
1 year	Men	59,489	60,640	61,352	62,531	60,973
	Women	56,083	57,292	57,216	59,444	57,789

- Agriculture, forestry and fishery
- Business activities
- Democracy
- Education and research
- Energy
 - Annual energy statistics (electricity, gas, district heating)
 - Electricity supply in Sweden by type of power plants. Year 1986 - 2017 ☺
 - Electricity use in Sweden by area of use (NACE Rev. 2). Year 2008 - 2017 ☺
 - Consumption of fuels in electricity generation by type of commodities and power plant. Year 1990 - 2017 ☺
 - Consumption of fuels for steam and hot water production, by type of fuel and type of production type. Yearly 1990 - 2017 ☺
 - Monthly fuel, gas and inventory statistics
- Environment

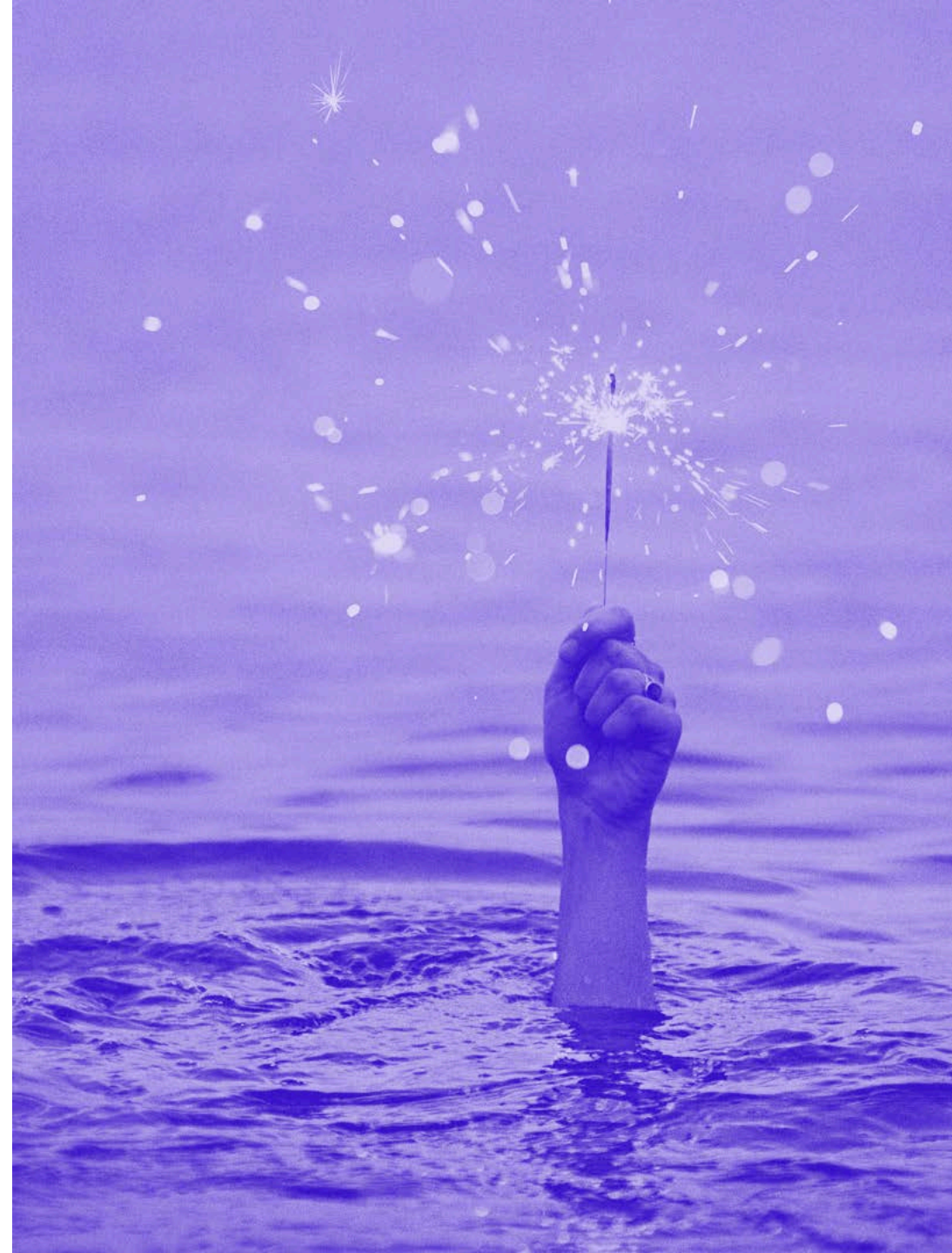
Modernized PX platform

- Converted PxWeb core components to .Net Standard 2.0
- Components available on Github and Nuget.org



Why?

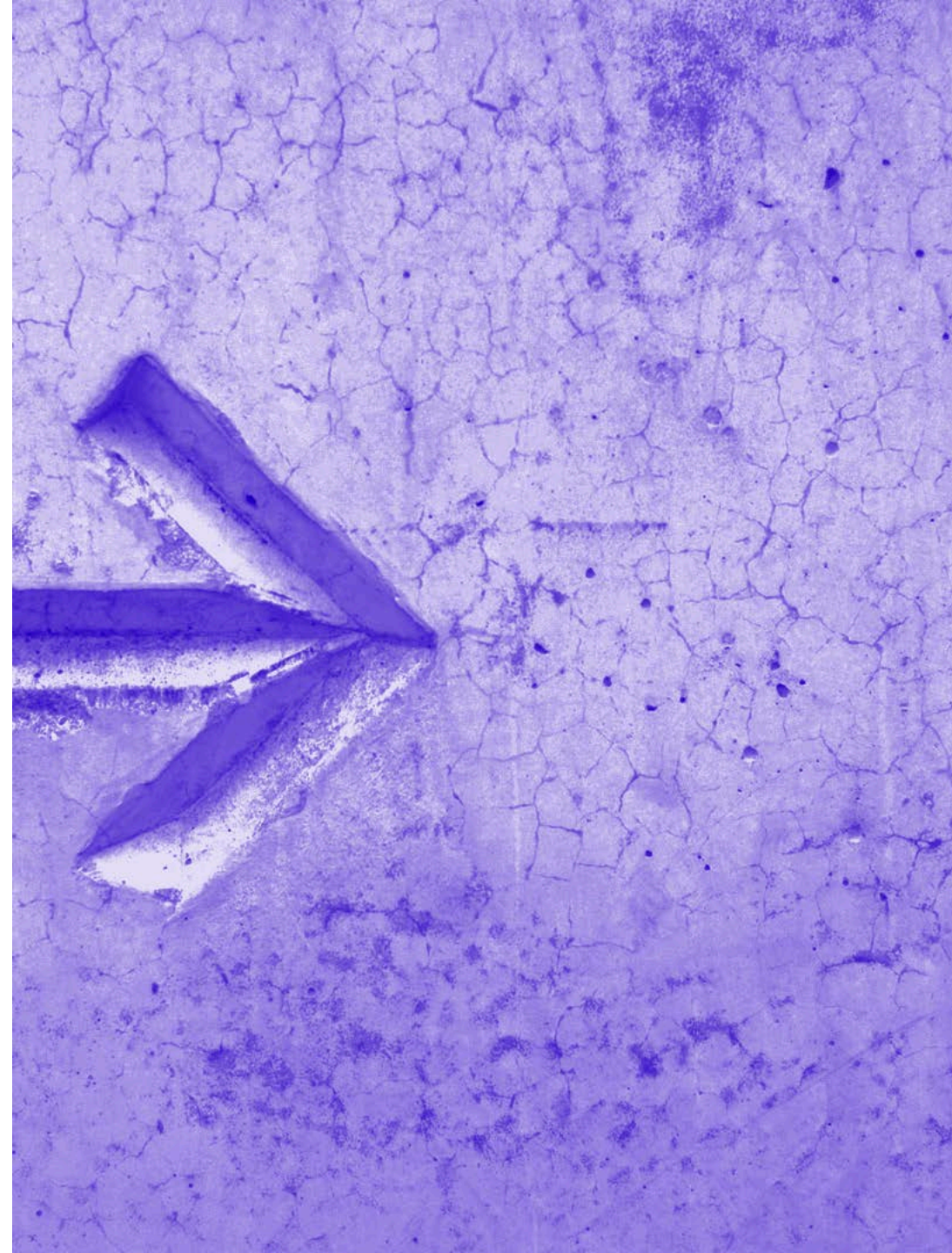
- PxWeb has been around for a while
- Building for the future
- .Net Standard (and .Net Core) is the technology used by Microsoft in new applications
- Cross platform
- It provides better conditions for building and evolving PxWeb
- First step towards PxWeb NextGen



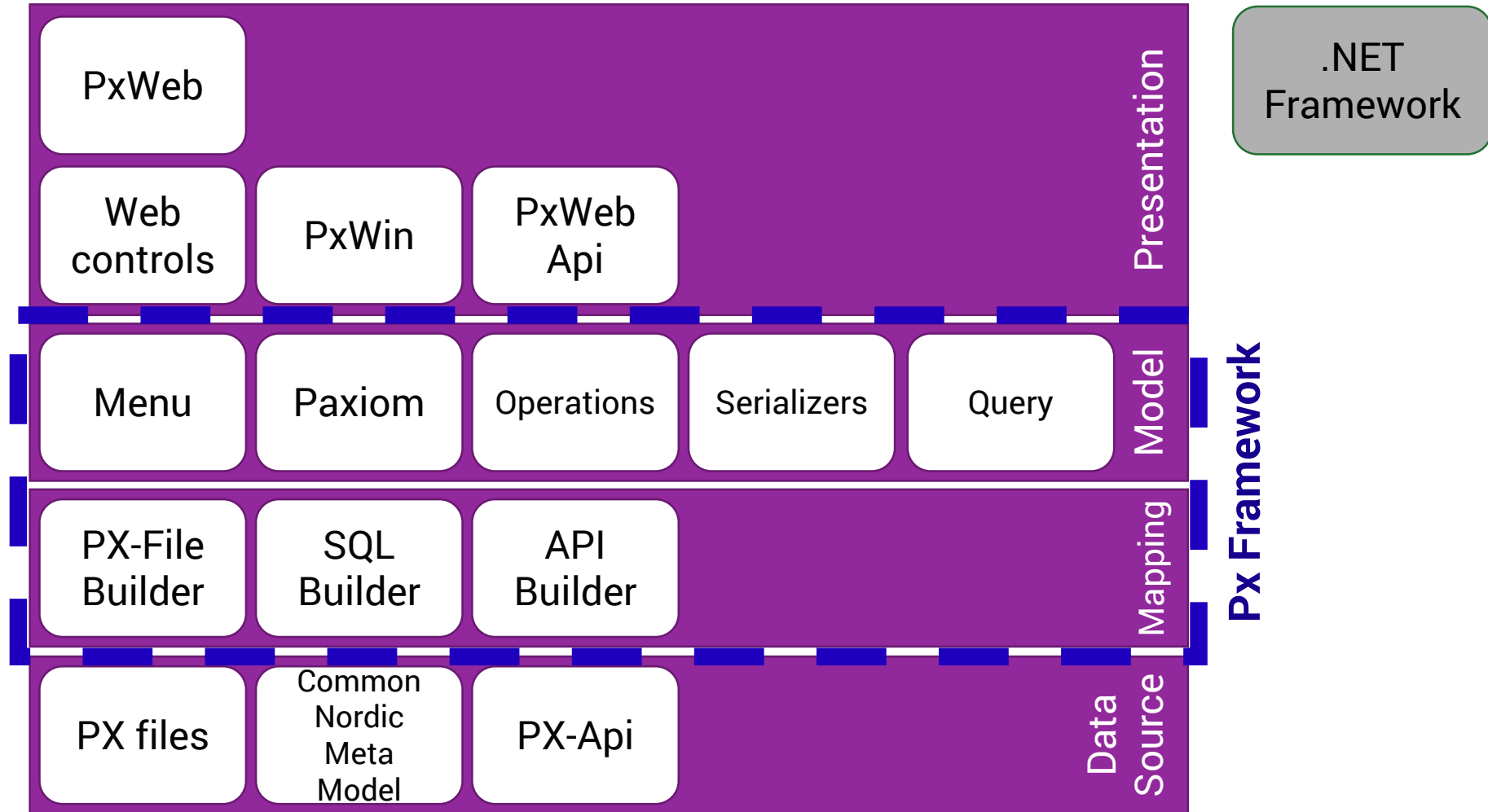
The rough plan

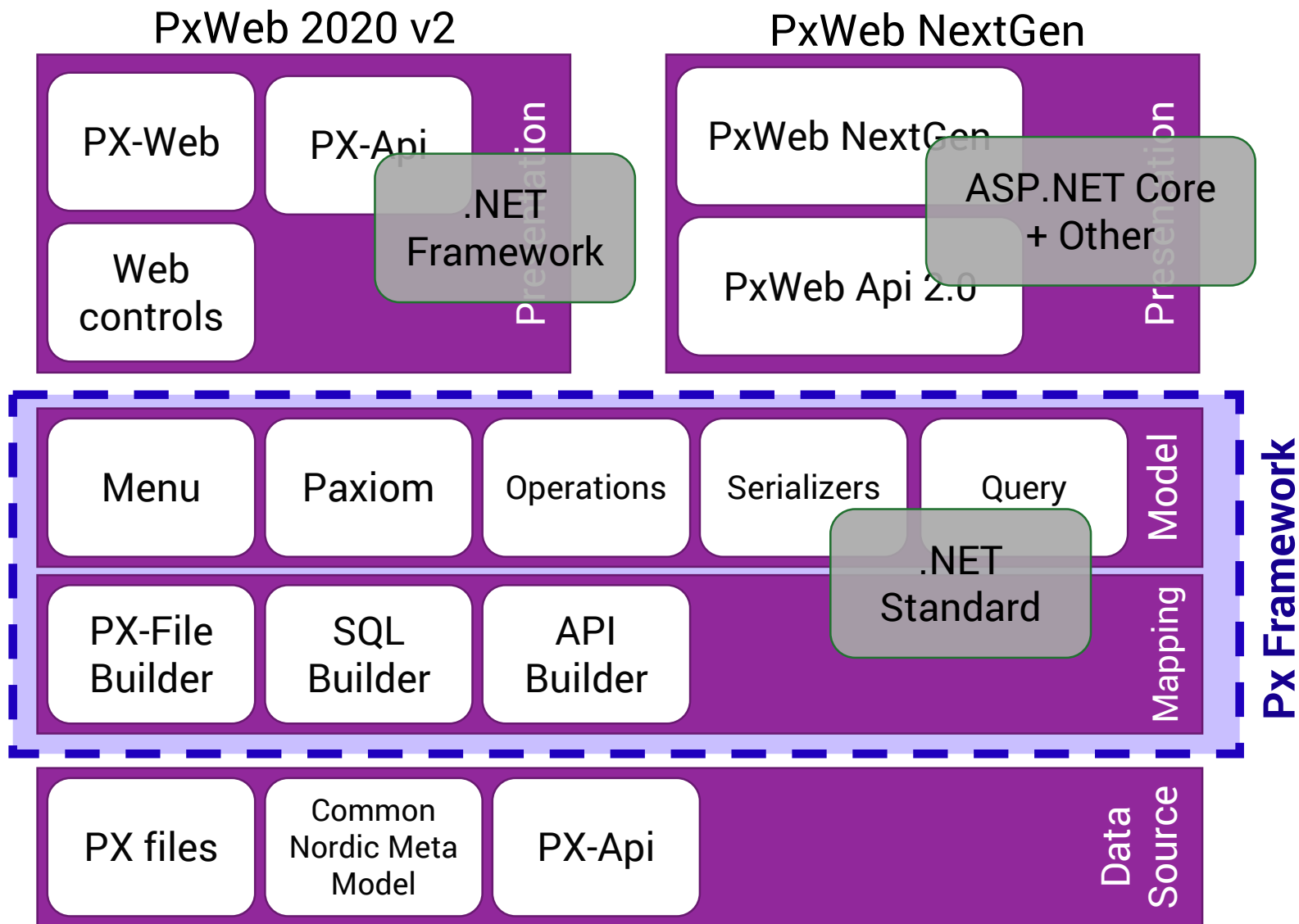


- Convert PX platform to .Net Core/Standard
- PxWeb NextGen
 - Start implementing PxWeb Api 2.0
- Make PxWin available as Open Source



PX Architecture





Separated PxWeb and components

- Before:
 - PxWeb and components where in the same place
- Now:
 - PxWeb has an own repository
 - Each component has an own repository



Components available on



[Github](#)



[Nuget.org](#)

PCAxis.Search

- Only beta version Lucene.Net using .Net Standard
- Not possible to convert



Testing

- Parallell websites
 - PxWeb 2020 v1
 - PxWeb with .Net Standard components
- Automated testing with PxWebComparer running saved queries and API calls and comparing the results

ResultForm

Start	Saved query meta	Saved query result	Api result																
SQ id	px	xlsx	xlsx_doublecolumn	csv	csv_tab	csv_tabhead	csv_comma	csv_commahe...	csv_space	csv_spacehead	csv_semicolon	csv_semicolonhead	json_stat	json_stat2	html5_table	relational_table	json		
69620																			
69621	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69622	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69623	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69624	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69625	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69626	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69627	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69628	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69629	False	True	True	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False	False
69630	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69631	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69632	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69633	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69634	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69635	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69636	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69637																			
69638	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69639	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True
69640	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True



Next year



Plans for next year

- Rebuild PCAxis.Search
 - Support for Lucene.Net using the old technology
 - Implement support for Elastic search using .Net Standard
- Implement PxApi 2.0
- Technical study for PxWeb NextGen
 - Client - server – mix
 - Frameworks
- More WCAG improvements

