About PxWeb

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Statistics Sweden
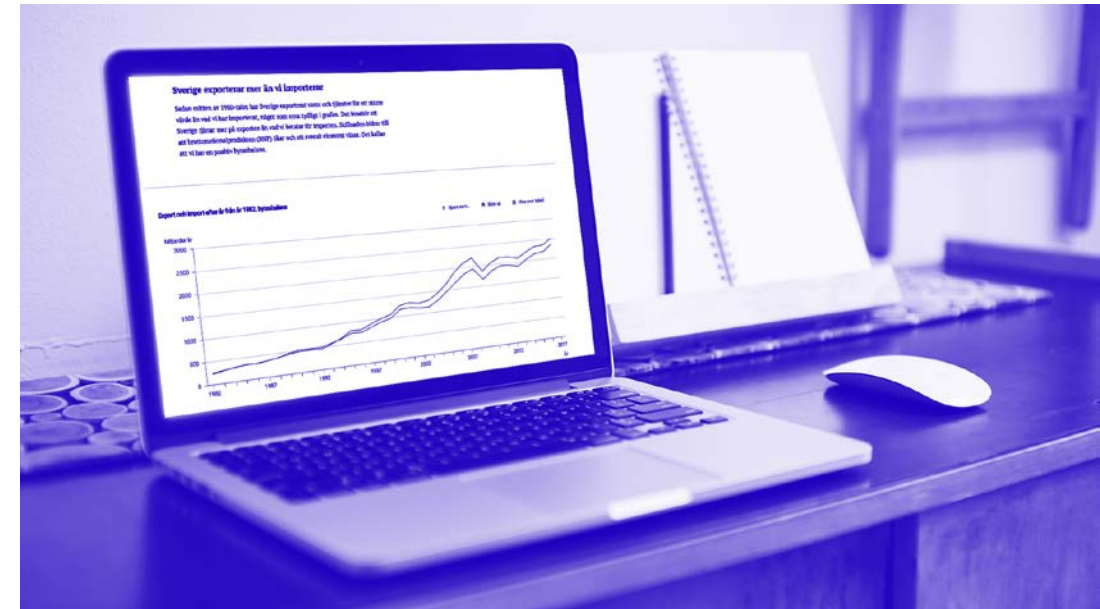
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PxWeb 2020 v2

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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

Improved user interface

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

Modernized PX platform

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

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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

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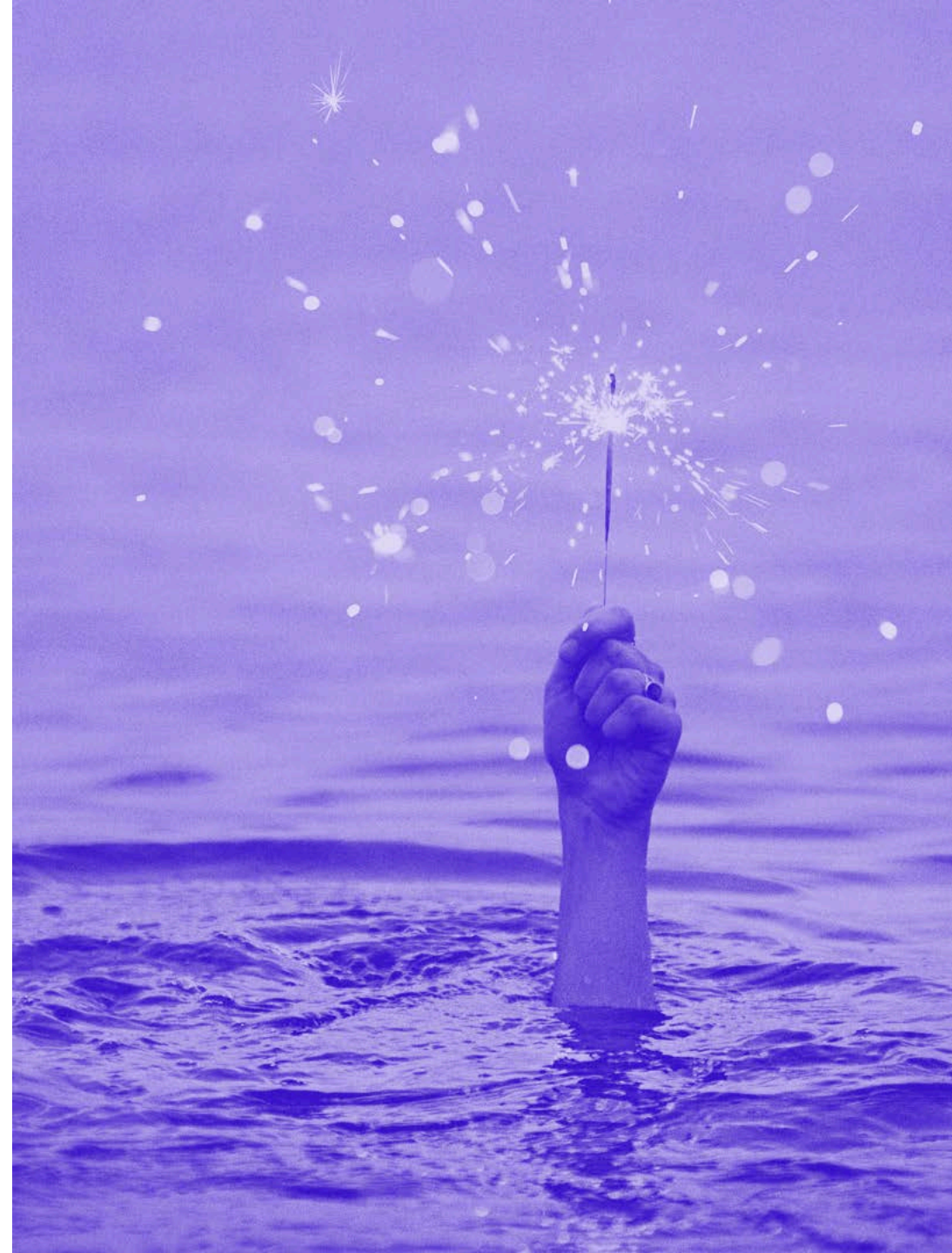
The rough plan

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

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PX Architecture

PxWeb 2020 v2

PX-Web	PX-Api	
Web controls		Presentation

.NET Framework

PxWeb NextGen

PxWeb NextGen	
PxWeb Api 2.0	Presentation

ASP.NET Core + Other

Px Framework

Menu	Paxiom	Operations	Serializers	Query	Model
PX-File Builder	SQL Builder	API Builder			Mapping

.NET Standard

PX files	Common Nordic Meta Model	PX-Api	Data Source

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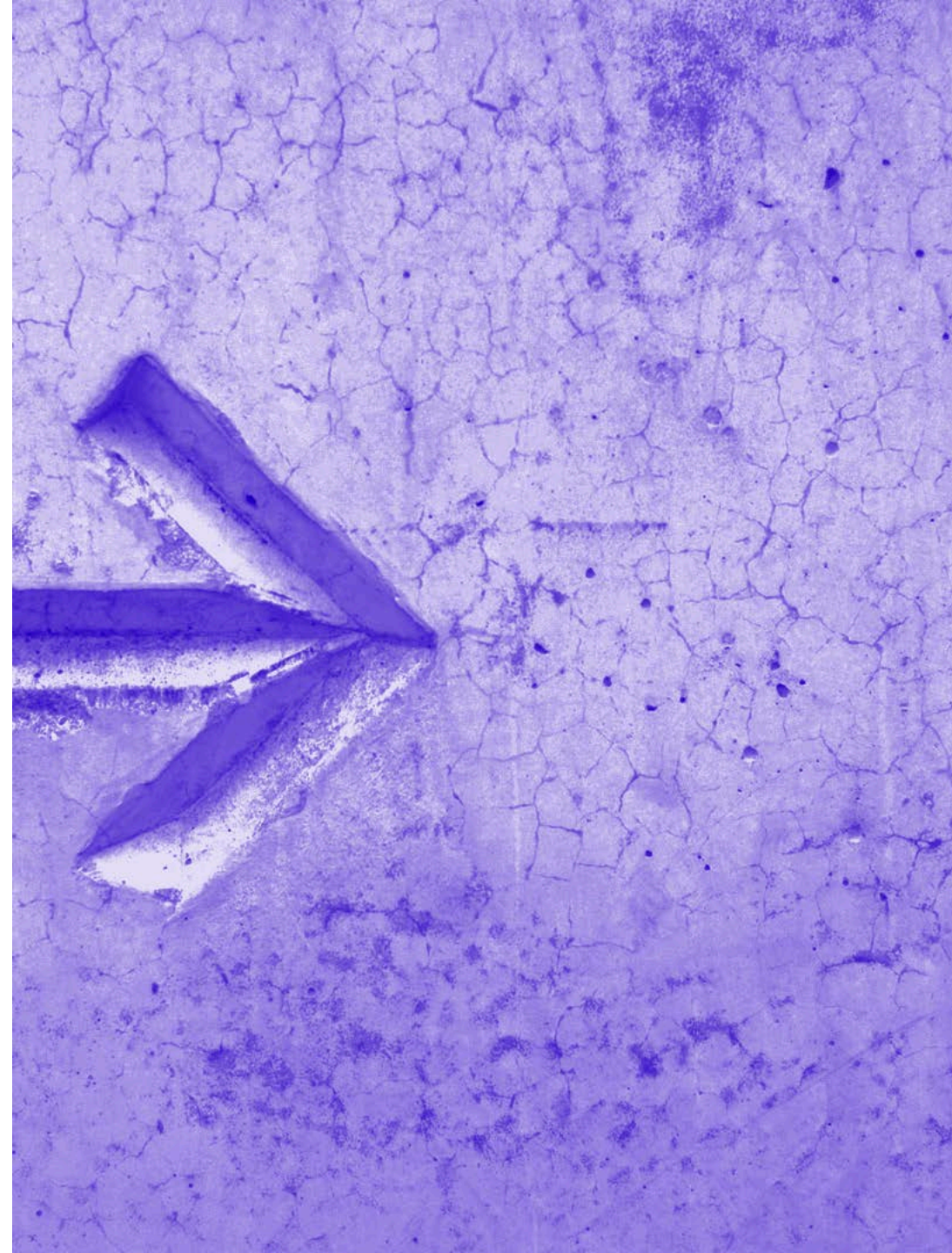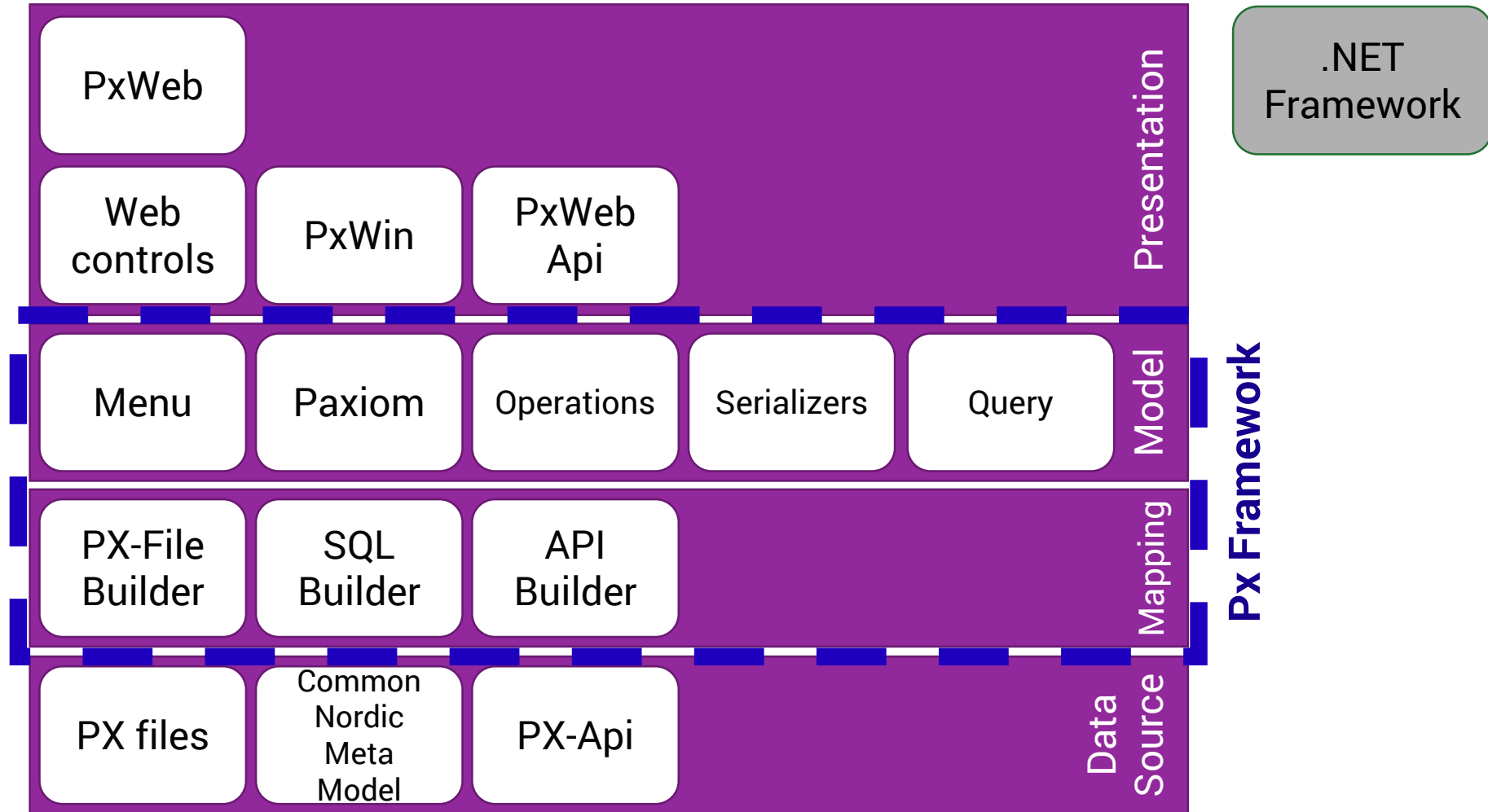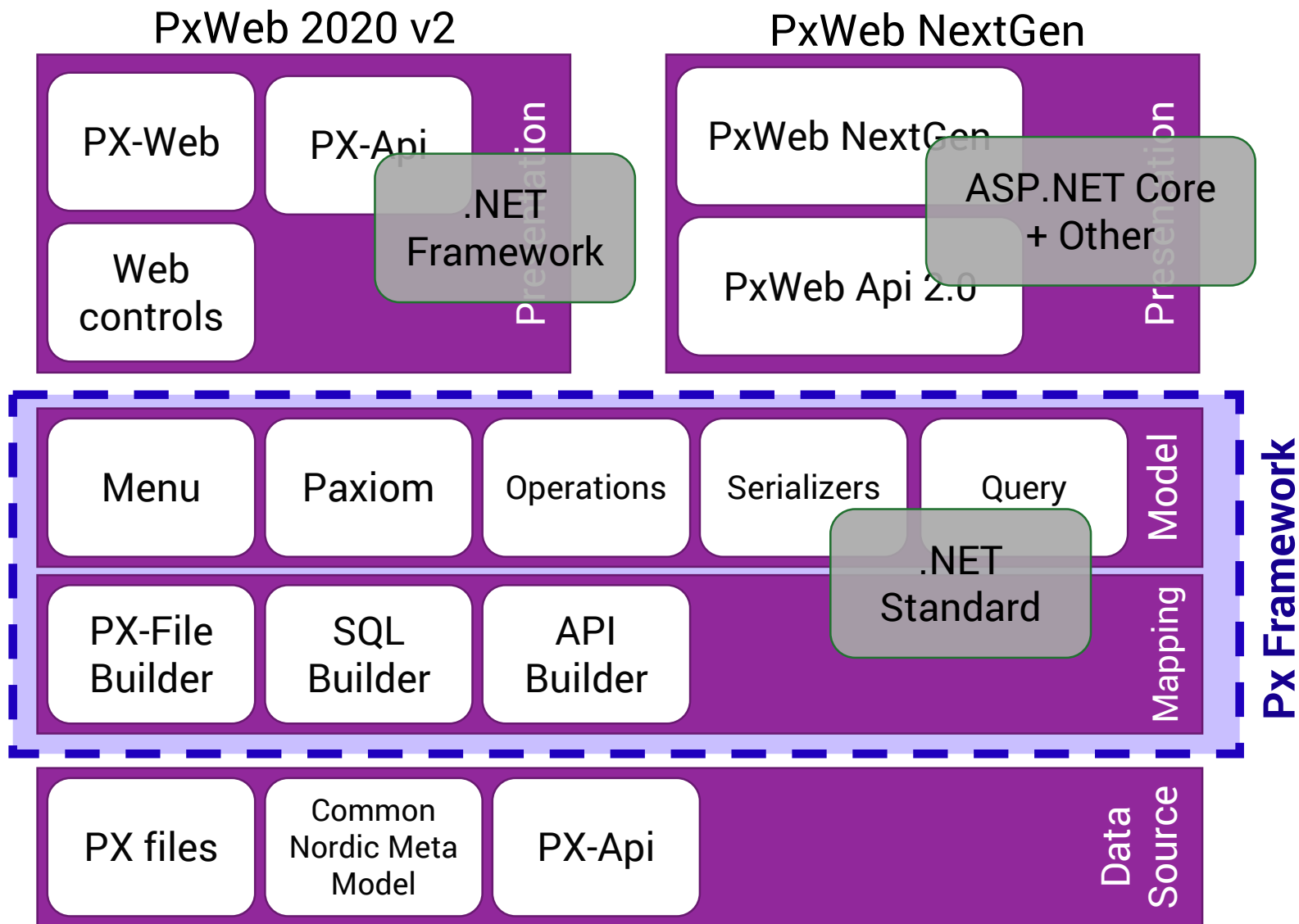
Separated PxWeb and components

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

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Components available on

Github

Nuget.org

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PCAxis.Search

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

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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
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69640	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True	True

Next year

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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

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