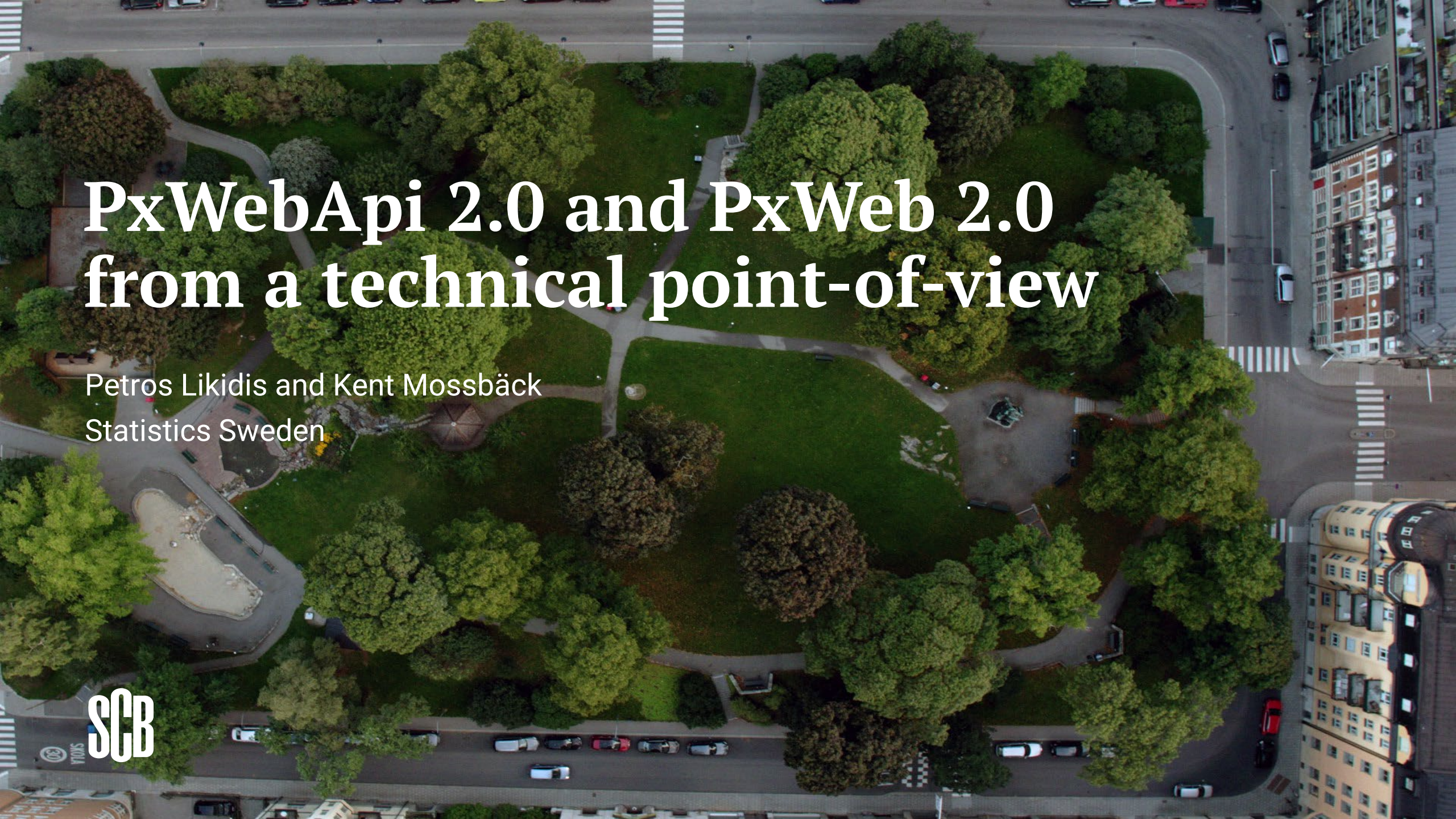
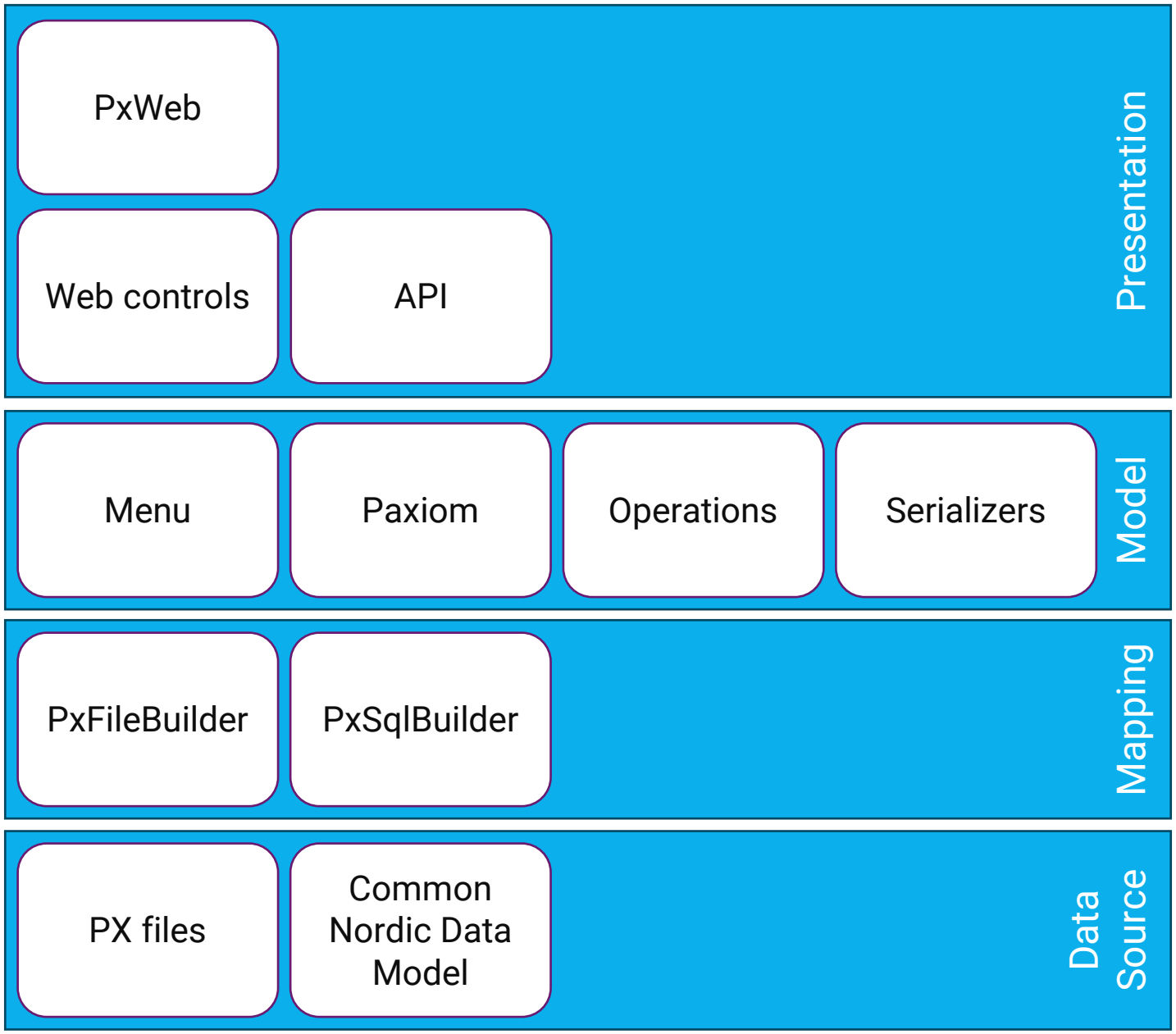
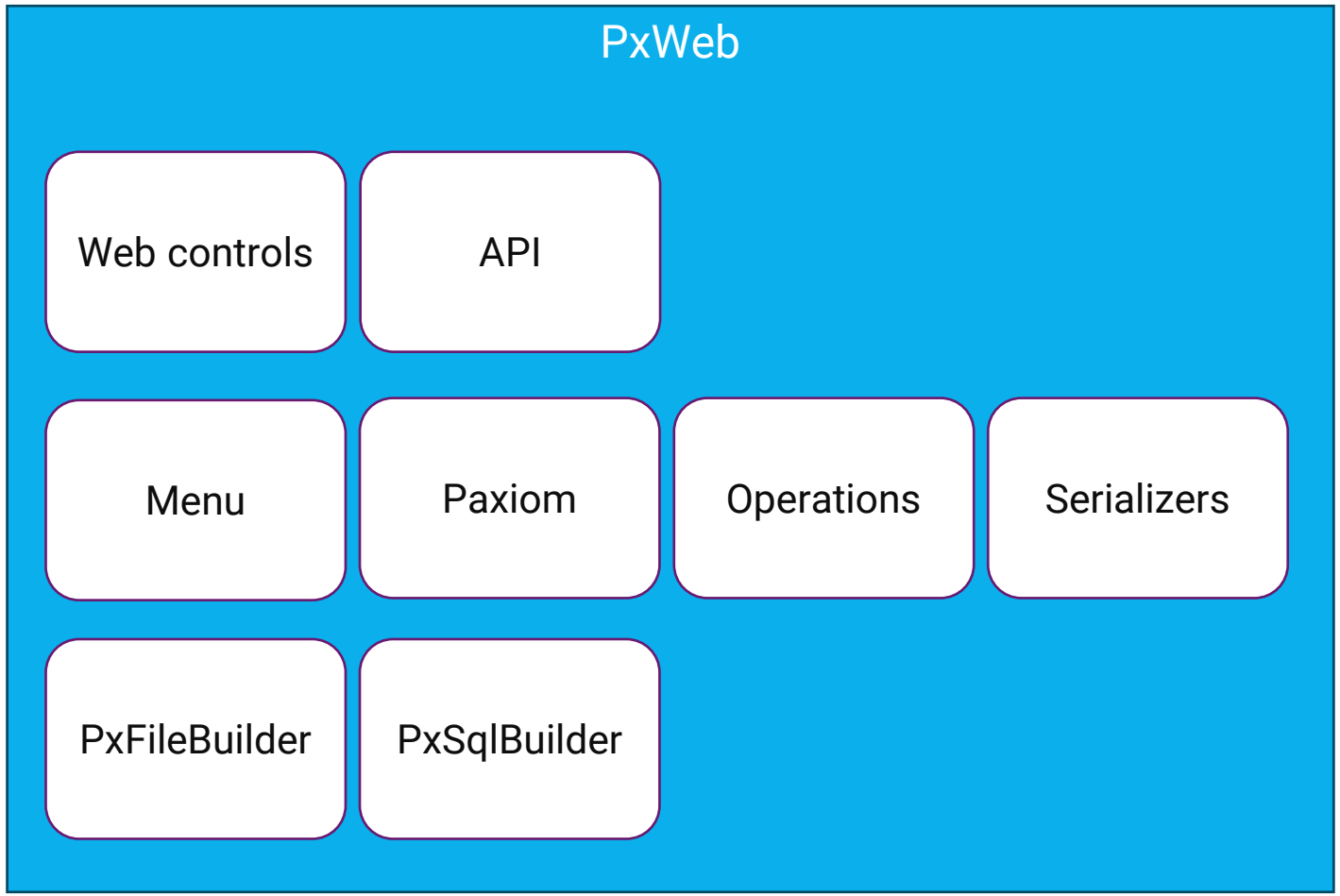


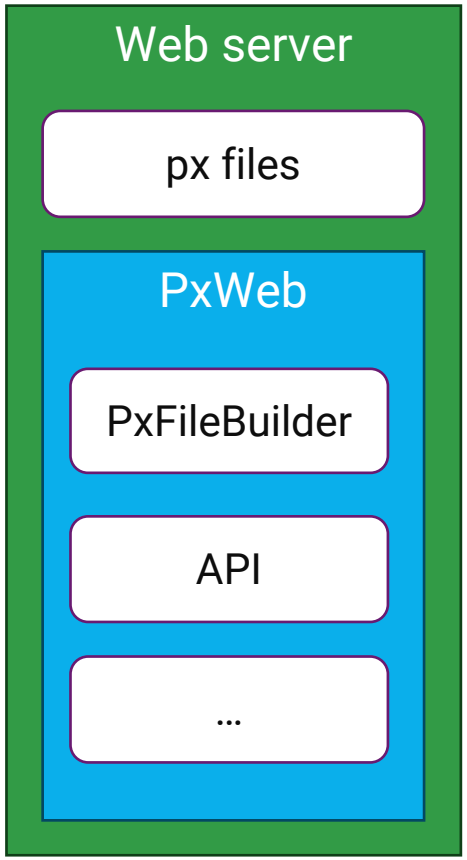
# PxWebApi 2.0 and PxWeb 2.0 from a technical point-of-view

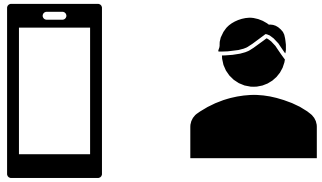
Petros Likidis and Kent Mossbäck
Statistics Sweden

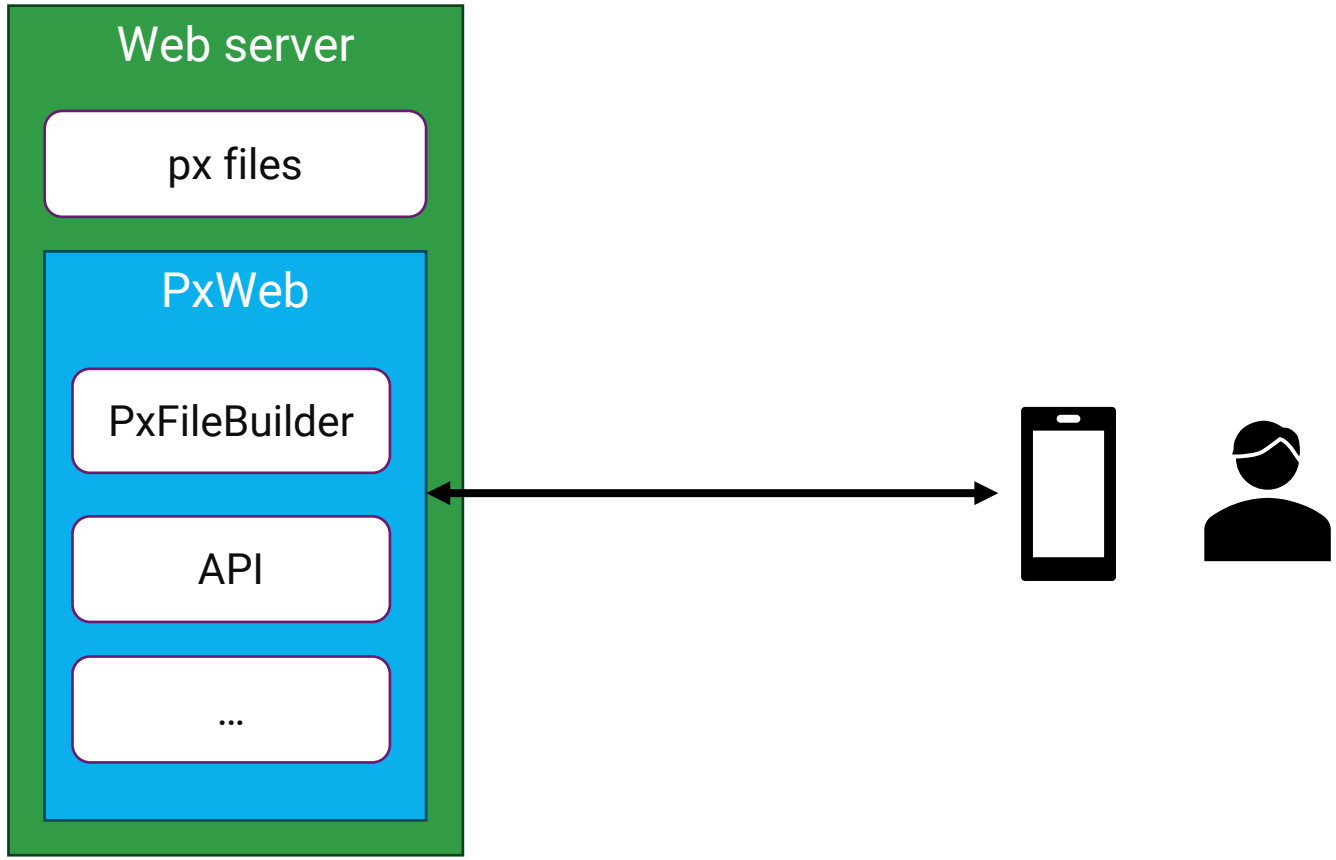
# PxWeb today


PxWeb
Web controls
API
Presentation
Menu
Paxiom
Operations
Serializers
Model
PxFileBuilder
PxSqlBuilder
Mapping
PX files
Common Nordic Data Model
Data Source


PxWeb
Web controls
API
Menu
Paxiom
Operations
Serializers
PxFileBuilder
PxSqlBuilder

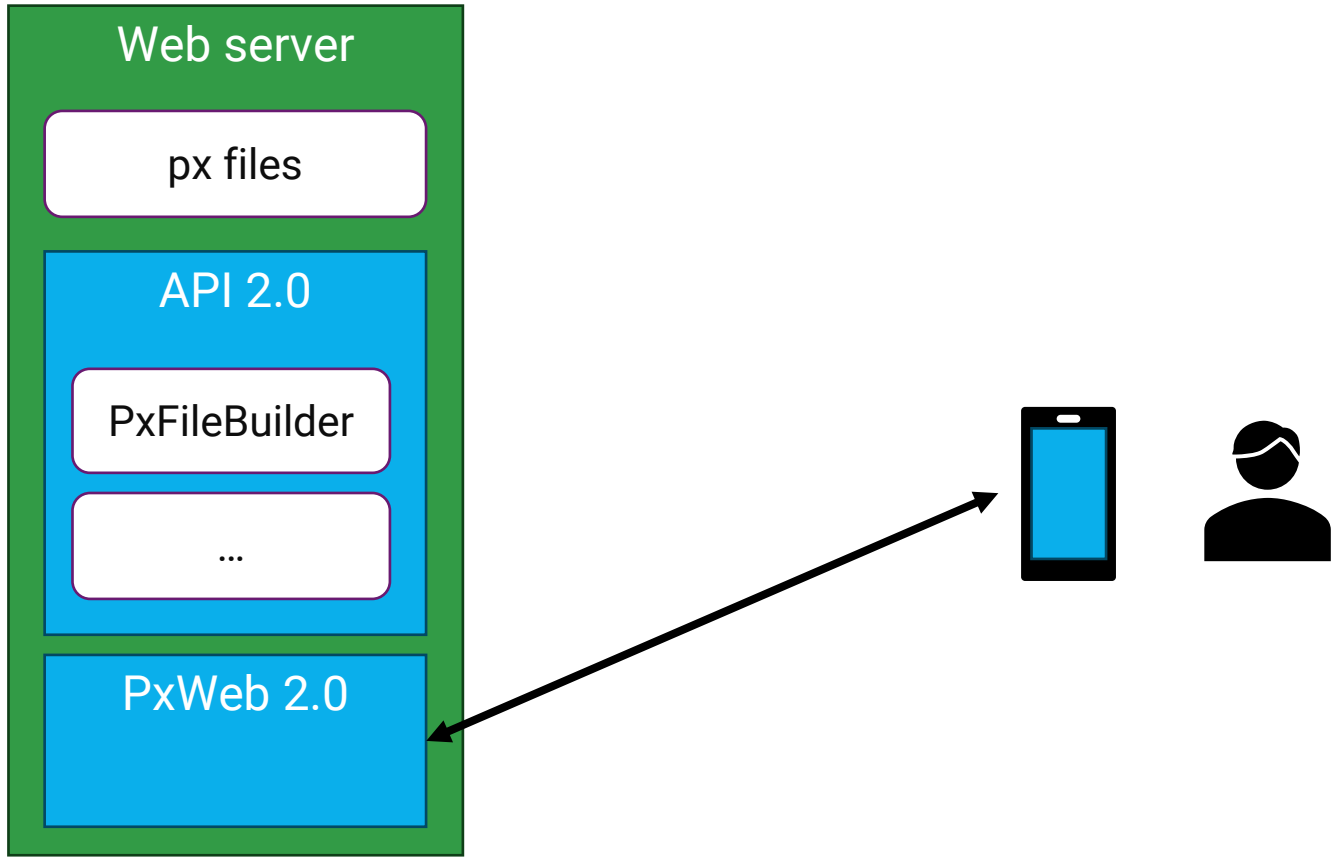

Web server
px files
PxWeb
PxFileBuilder
API
...

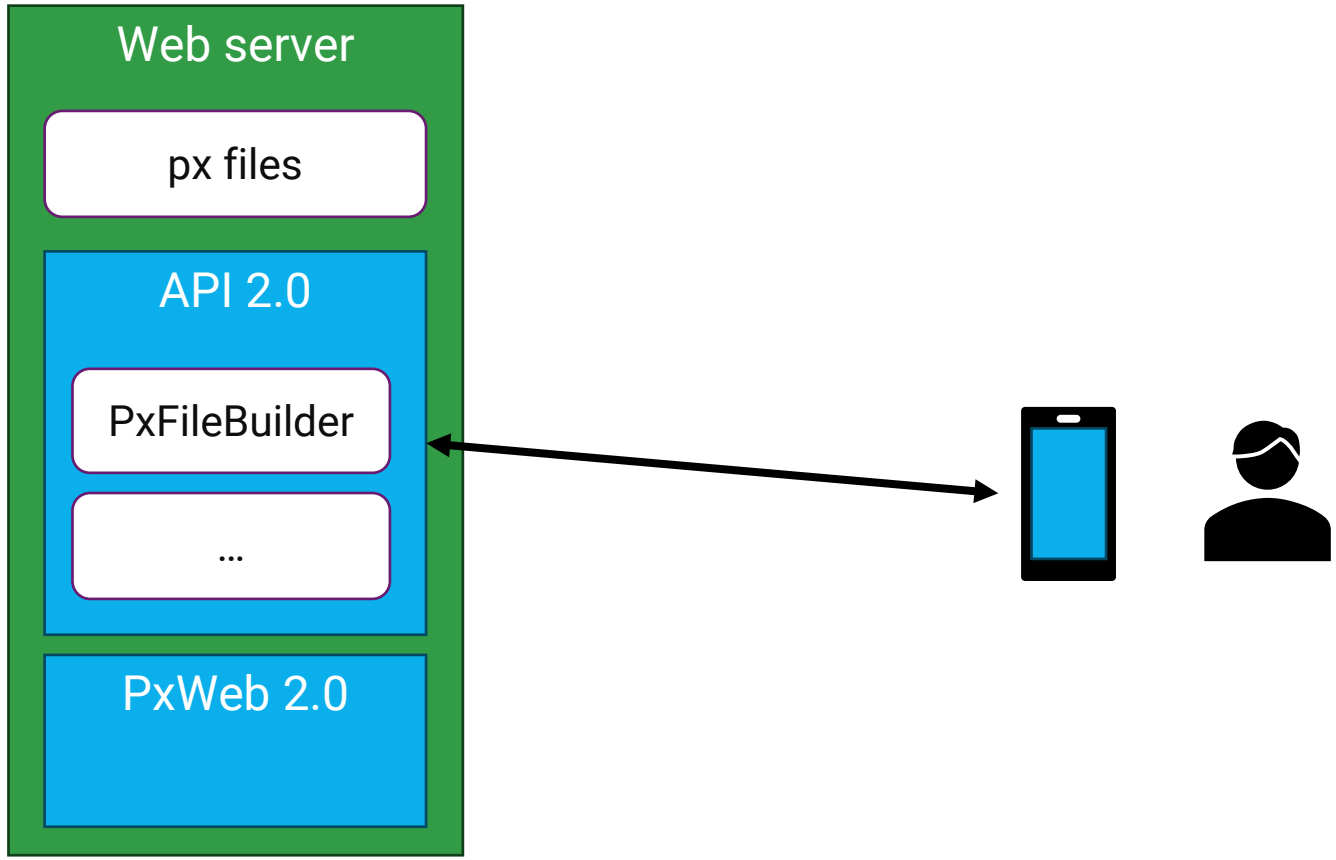


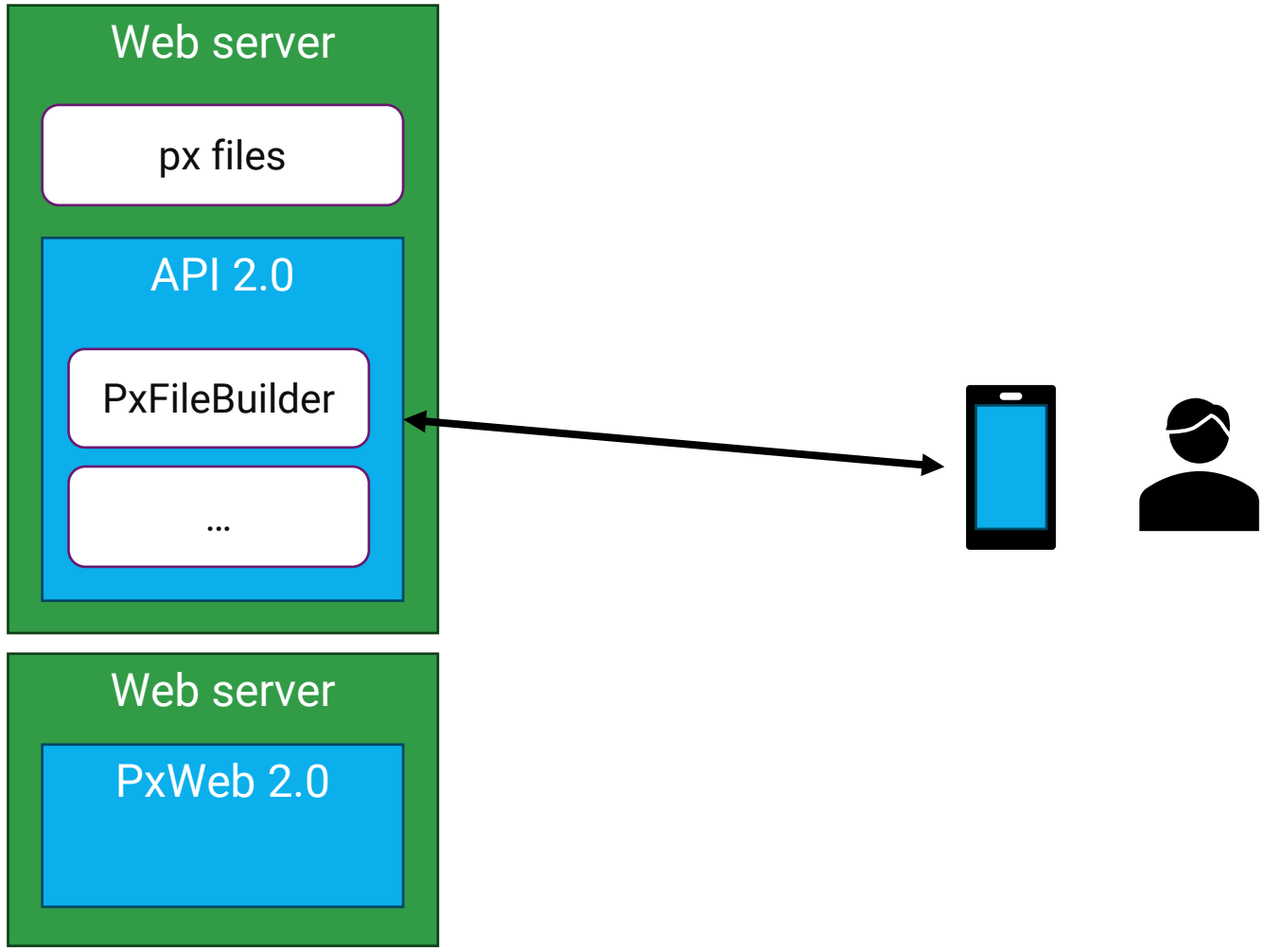

Web server
px files
PxWeb
PxFileBuilder
API
...

D-Link
ASUS
Dual Band
Win10

# PxWeb 2.0


Web server
px files
API 2.0
PxFileBuilder
...
PxWeb 2.0


Web server
px files
API 2.0
PxFileBuilder
...
PxWeb 2.0


Web server
px files
API 2.0
PxFileBuilder
...
Web server
PxWeb 2.0

# Changes in the PxWebApi 2.0

# Changes in the API - Overview

- Default selection
- Table metadata drop px-json
- Operations
- Saved queries
- Output formats

# Operations planed to be added in the API

- Pivot
- Sum
- Change value order
- *Change code/text presentation
- (Change text on values)

# Operations that did not make the first cut

- Percentage
- Split time
- Delete value
- Delete variable

SCB

# Operation expressions

- **SUM(NEW_CODE, NEW_LABEL, COMMA_SEPARATED_LIST_OF_CODES )** – A new value is created with the code NEW_CODE and label/text of NEW_LABEL the data of the new value is the sum of values listed in COMMA_SEPARATED_LIST_OF_CODES. COMMA_SEPARATED_LIST_OF_CODES must have at least to value codes.
- **RECODE(OLD_CODE, NEW_CODE, NEW_label) –** Renames and/or recodes the value with code OLD_CODE to NEW_CODE, NEW_LABEL

# Value order

- The order in the selection expression is the order of the values in the result.

# Pivot

- New optional parameters to data endpoint
  - Stub
  - Heading
- If only one is given the rest of the unspecified variables are located on the opposite location.

# Saved queries

- More in sync with what you can do in the API
- New format
- Serv as default selection instead of the algorithm
- Old saved queries

SCB

# Migration application

- 98 % of Statistics Sweden's Saved queries can be migrated. Even higher percentage if Statistics Norway and Statistics Finland.
- Migrate old saved queries to new place and format.
- Run once or continuously

SCB

# New API endpoints for saved queries

- New endpoints for saved queries for
  - Creating
  - Viewing
  - Running

SCB

# Output formats

- Split the format into 2 variables
  - Format
  - Control paramters for the format
- Make it easier for the users with good defaults
- json-stat is dropped in favor for json-stat2
- Recommended and optional

xlsx
xlsx_doublecolumn
csv
csv_tab
csv_tabhead
csv_comma
csv_commahead
csv_space
csv_spacehead
csv_semicolon
csv_semicolonhead
csv2
csv3
json
json-stat
json-stat2
parquet
html5_table
relational_table
px

**px**
**csv**
**json-stat2**
parquet
html
xlsx
px-json