



Can Power BI replace SSRS and should you?

# Thank you to our sponsors!



# Who am I

Erik Svensen

CTO @ CatMan Solution A/S – supplier of BIAAS

Customers within the FMCG and Retail industry

Works with Excel, Power BI, SSAS, SSRS and SharePoint

Have been working with SSRS report design for the last 7-8 years and Power BI since it beginning

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# Agenda

Answer to the question

Installation

Datasources and data model

Visualization

Parameters/Filters

Share

Revisit the answer

# Who are you

How many develop in SSRS today

SharePoint mode ?

Running against

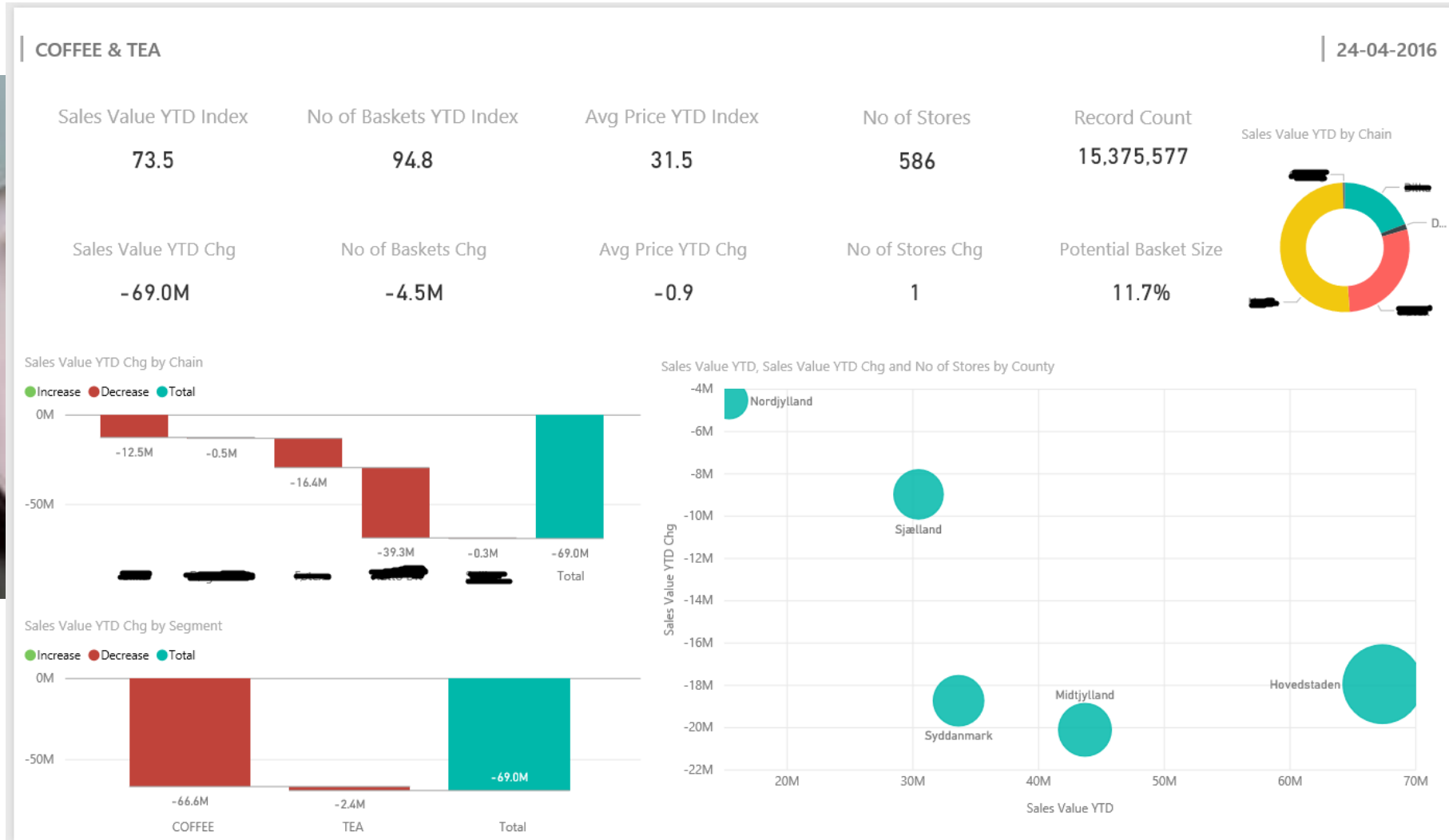
SQL Server database

SSAS

How many of you uses Power BI in production today

# How does your Report designer look like

When you ask for a new report like this



# So can Power BI replace SSRS

The answer is

Yes

But there are still limitations

# Scope

## Focus on

Power BI Desktop Client / Power BI Service

(Not Excel)

SSRS 2016

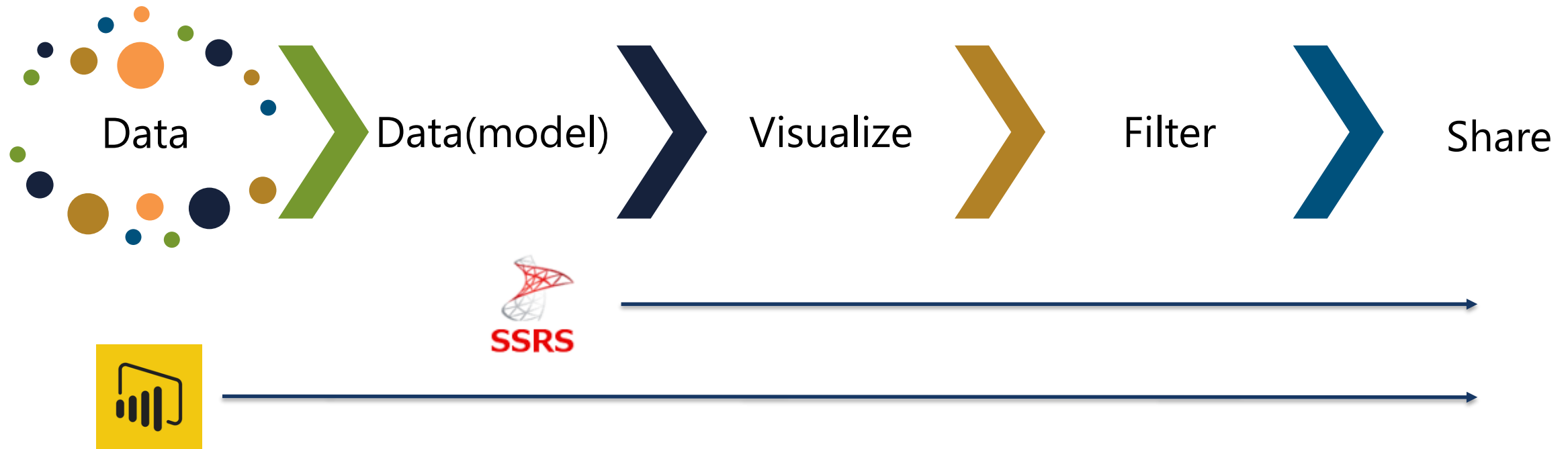
Report Builder

Not SQL Server mobile reports (Datazen)

No focus on gateways and other security issues about access to data



# Flow from data to report



# Tools - installation

## SSRS

- Install SQL Server Reporting services on a server
- Configuration
- SQL Server Data tools – with bi templates
- Report builder
- SQL Server mobile reports

## Power BI

- Install Power BI Desktop on the client
- Sign up for Power BI /mail your Office 365 admin

# Data sources/data model

## SSRS

Shared data sources

Shared datasets

Report datasets

You must know the data model

## Power BI Desktop

Get data

Same as SSRS

Online services

And others

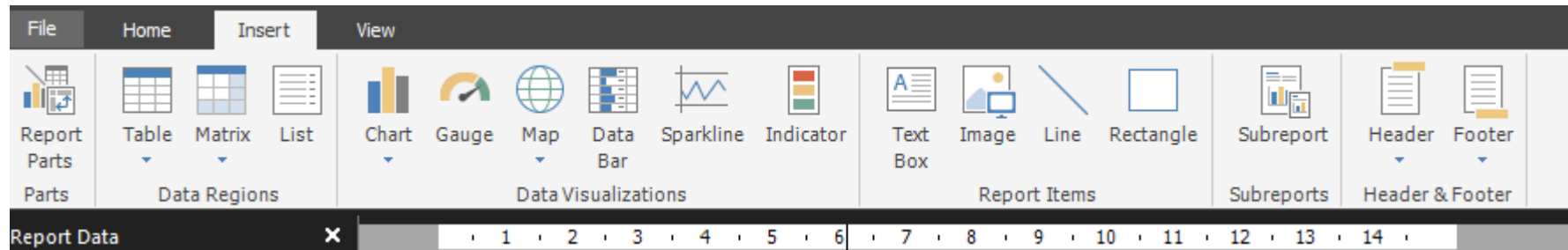
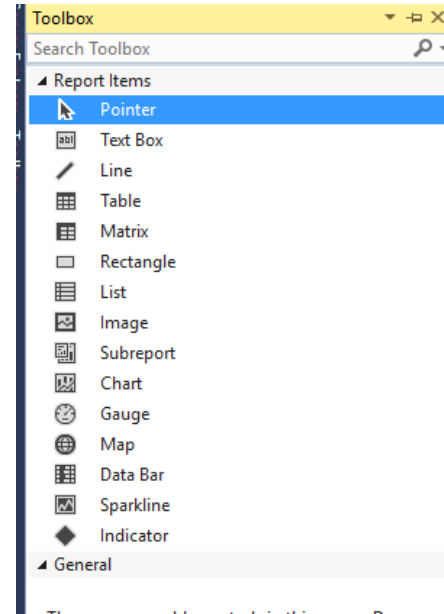
You must design a data model or just start visualizing

# DEMO

# SSRS - Visualization

SSDT

Report Builder



# Power BI - Visualization

## Builtin

27 built in visualizations

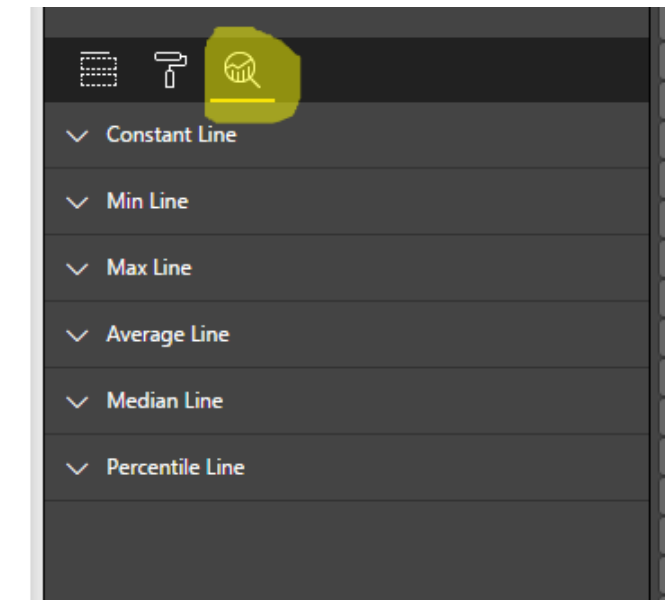
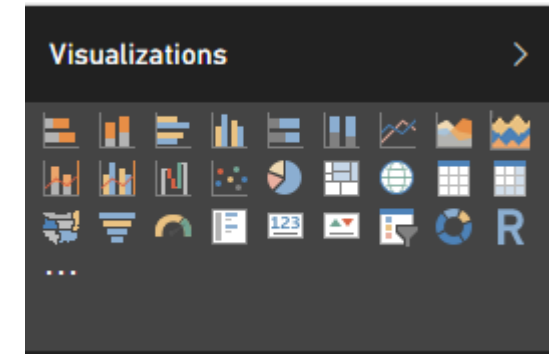
## Custom visuals

<https://app.powerbi.com/visuals/>

## Create your own visualizations

## Rapid development

## Analytics - tab



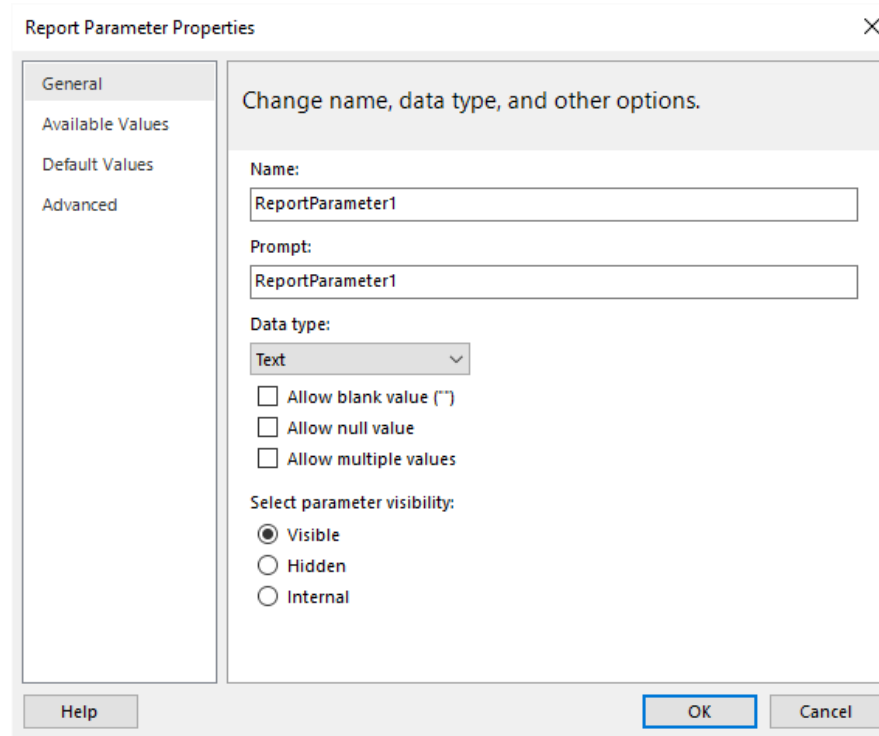
# DEMO

# Parameters / Filters in SSRS

Design your Report parameters

Element filters

Dataset filters



The screenshot shows the 'Report Parameter Properties' dialog box. On the left is a sidebar with four tabs: 'General' (selected), 'Available Values', 'Default Values', and 'Advanced'. The main area is titled 'Change name, data type, and other options.' and contains the following fields and options:

- Name:** A text box containing 'ReportParameter1'.
- Prompt:** A text box containing 'ReportParameter1'.
- Data type:** A dropdown menu set to 'Text'.
- Allow blank value (""):** An unchecked checkbox.
- Allow null value:** An unchecked checkbox.
- Allow multiple values:** An unchecked checkbox.
- Select parameter visibility:** Three radio buttons: 'Visible' (selected), 'Hidden', and 'Internal'.

At the bottom of the dialog are three buttons: 'Help', 'OK', and 'Cancel'.



# Parameters/Filters – Power BI

Visual filters

Slicers

Report filter

Page level filter

# Demo

# Filter by User

SSRS

Built In field – User ID

Power BI

Row Level Security

# Share – Publish Reports

## SSRS

Native Mode – to a folder on the reportserver

Folder (and item) security possibility

SharePoint Integrated Mode – to a SharePoint Document library

Folder (and item) security possibility

# Share – Publish Reports

## Power BI

- Share the pbix file (as the file or via SSRS or SharePoint document library)

- Publish to Power BI

  - My Workspace

  - Group Workspaces

- Content packs

- QR Codes

- Publish to web (not for groups)

- Power BI Embedded

- Security

  - Office 365 Groups

- OBS – No source control (but you could use Office365 Group Workspaces)

# Demo<sub>+</sub>

# Mobile

## SSRS 2016

- Design for mobile

- Better browsing experience to report portal from mobile device

- SQL Mobile Reports – (Datazen)

## Power BI mobile apps

- Windows 10

- iPhone (incl barcode scanner and AR)

- iPad

- Android

# Back to the question

Yes – I think so

Main missing features

- Subscriptions
- Export to pdf
- Table features (not good enough)
- On Premise
- Data alerts only available in mobile
- Actions

Main cool features

- Ease of development
- No installation
- Cool visualizations
- Analyze with Excel
- Make's it so much more fun to create reports/dashboards
- More would want to become report developers
- Strong community and userviceice
  - Please vote for features – here - <https://ideas.powerbi.com/forums/265200-power-bi>



# One big challenge

## Moving from tables and figures to visualisation

SQLSatOslo2016\_Template | Power BI Desktop | Microsoft | Power BI Desktop August 2016 | Reporting Services - Stc

cmsv3.cloudapp.net/rynkebydk/\_layouts/15/ReportServer/RSViewerPage.aspx?rvt=ReportUrl=/rtnkebydk/Standard%20Rptc

CatManSolution > Rynkeby > Standard Reports

Actions | 1 of 2 ? | Find Not |

### Store Ranking

Dataset: Coop

Period: 2016 Uge 01 - 2016 Uge 33

Chain: DagliBrugsen, Færøerne, Fakta, Fakta Q, Grønland, Irma, Kvickly, SuperBrugsen

Store: All

Sales Rep: All

Sort By: Sales Value

Division: All

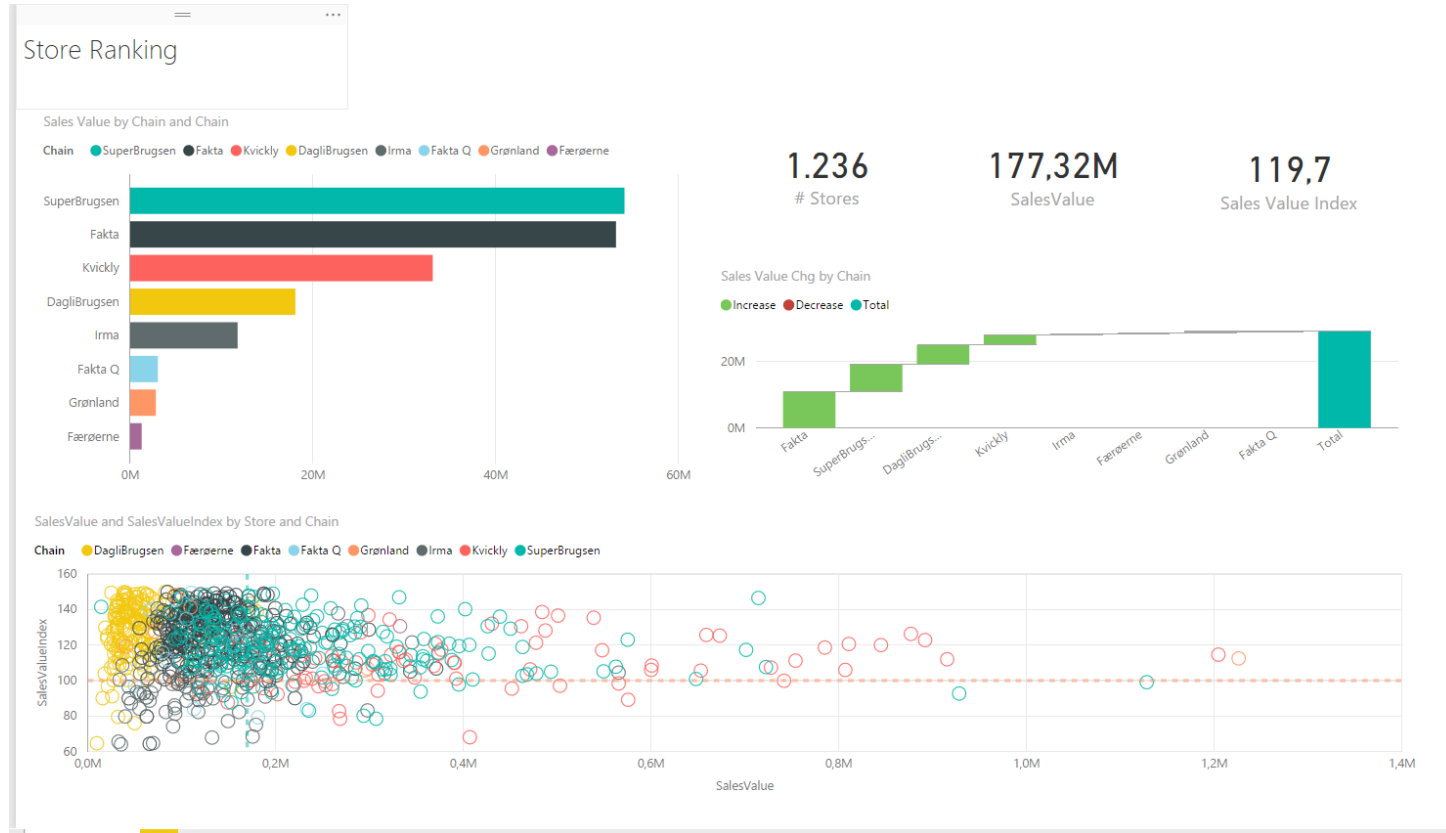
Category: All

Main Brand: More than 10 Items selected

Brand: More than 10 Items selected

Product: All

	Sales Value	Sales Value Index	Sales Units	Sales Units Index	Average Price
SuperBrugsen	54,094,254	116,9	4,092,735	118,7	13,22
Superbrugen - Kbh Ø	1,128,305	99,1	68,691	91,4	16,39
Superbrugen - Kbh V (Matthæusgade)	928,490	92,7	55,120	79,0	16,84
Superbrugen - Hedensted	722,625	107,6	69,161	111,5	10,45
Superbrugen - Kbh N	714,560	146,5	44,728	156,5	15,98
Superbrugen - Kbh S (Islands Brygge)	701,458	117,3	38,734	108,6	18,11
Superbrugen - Fredensborg	648,104	100,9	46,128	108,6	14,05
Superbrugen - Løkken	575,265	123,0	41,064	137,1	14,01
Superbrugen - Lystrup	562,736	107,8	44,640	106,2	12,61
Superbrugen - Kerteminde	549,590	105,2	47,000	109,3	11,69
Superbrugen - Ullerød	493,601	105,0	33,102	107,5	14,91
Superbrugen - Kbh K (Chr Havn Torv)	477,974	104,0	26,474	108,0	18,05
Superbrugen - Odense C (City)	471,550	151,1	41,705	164,3	11,31
Superbrugen - Gilleleje	467,854	103,5	31,517	113,9	14,84
Superbrugen - Svenstrup J	463,263	118,9	39,930	119,7	11,60
Superbrugen - Fensmark	463,224	102,7	37,488	93,2	12,36
Superbrugen - Hvidrup	450,383	129,2	32,483	125,5	13,87
Superbrugen - Nordby	439,173	136,0	32,334	150,8	13,58
Superbrugen - Lyngby-Uggeløse	427,109	115,2	31,916	113,2	13,38
Superbrugen - Hørning	426,119	130,6	33,740	124,9	12,63
Superbrugen - Næstved	420,229	155,2	32,851	171,1	12,79
Superbrugen - Hinnerup	410,085	100,6	31,218	97,4	13,14



# And one more

## On-premise is not present

## Pyramid analytics

[Link](#)

5,324

votes

Vote

### PowerBI reports and dashboard on-premise hosting

195 comments · Power BI Ideas » Licensing · Flag idea as inappropriate...



**STARTED** · Riccardo Muti (Admin, Microsoft Power BI) responded

Hi everyone,

We've now started work in this area, so I'm updating the status to "Started."

We're working toward our reporting roadmap:

<https://blogs.technet.microsoft.com/dataplatforminsider/2015/10/29/microsoft-business-intelligence-our-reporting-roadmap/>.

Two specific goals of that roadmap:

- Step 1, in SQL 2016 RTM: Provide an on-premises solution for mobile BI by adding Mobile Reports (built on the Datasen technology we recently acquired) to SSRS.
- Step 2, after SQL 2016 RTM: Provide an on-premises solution for self-service BI. Power View was a first step in 2012, but we want to provide a solution that works across modern browsers and mobile devices (read: doesn't require Silverlight) and that doesn't necessarily require SharePoint.

Having delivered on Step 1 in SSRS 2016, we've now started on Step 2.

About that "on-premises solution for self-service BI:" We plan to enable you to publish a Power BI Desktop report to an on-premises report server and view it in...



Riccardo Muti (Admin, Microsoft Power BI) commented · June 17, 2016

@Mithran, we don't intend to wait the traditional ~2 years between SQL Server releases, if that helps. As soon as we have a useful first iteration of the feature, we'll find or create a release vehicle to get it into your hands.



Riccardo Muti (Admin, Microsoft Power BI) commented · June 17, 2016

@Ron, I couldn't comment on licensing for a future feature at this point since it's TBD.

# QR Code example



Don't forget... 😊

Session Evaluations

Sponsor Raffles

After Party

# Questions

## Reach me

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