



# IBM Cloud Pak for Data



**Omer Mizrachi**  
Data & AI, IBM Israel

Learn more at: <https://www.ibm.com/analytics/cloud-pak-for-data>

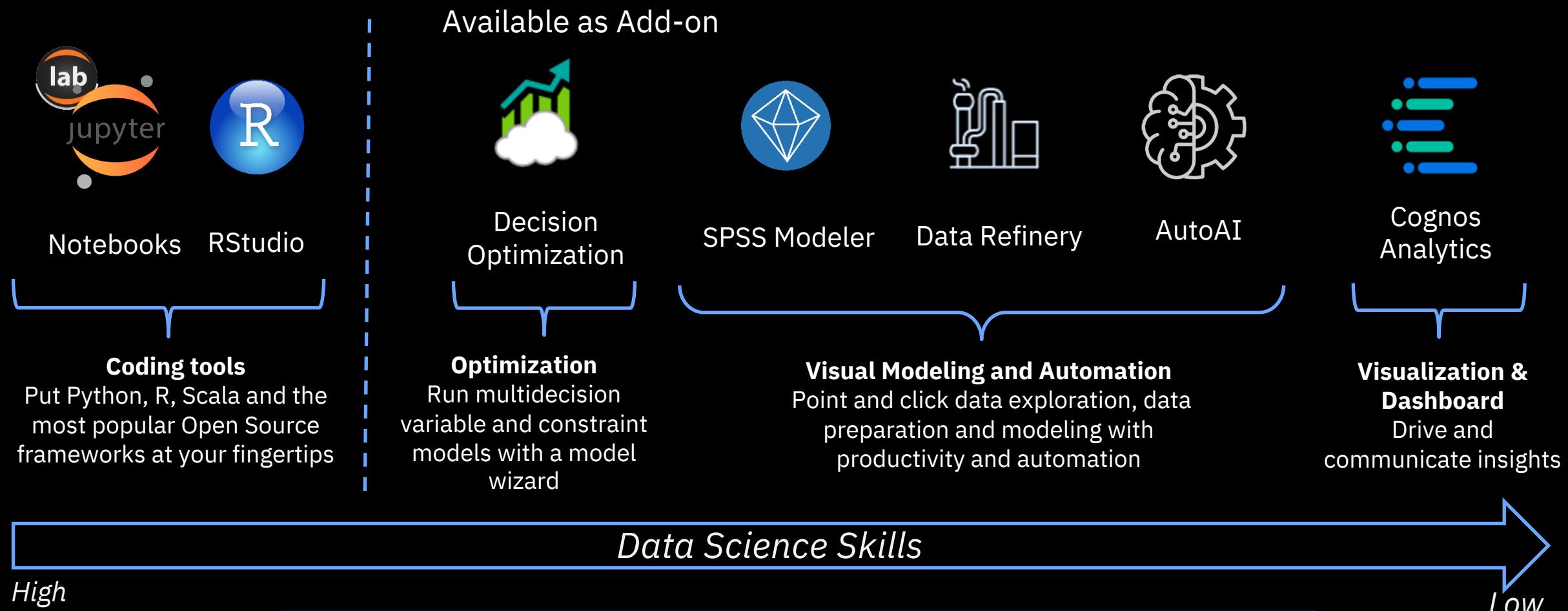


## Watson Studio



# Watson Studio and Watson Machine Learning Add-ons

**More powerful and flexible tools built for teams**



# SPSS

propensity

Montecarlo

Advanced analytics using SPSS Modeler

cluster

neural network

decission tree

K-means

# Statistics

management

variance

decision

tree

SQL

Weibull

# Analytic Server

Hadoop

accuracy

Map/Reduce

Stratified sample

gamma

type

Mlib

Spark

scoring

center

center

center

center

center

center

center

center

binomial

distribution

# regression

# IBM

Gini

# Modeler

# algorithm

# Statistics

R

PCA

R

# IBM

Gini

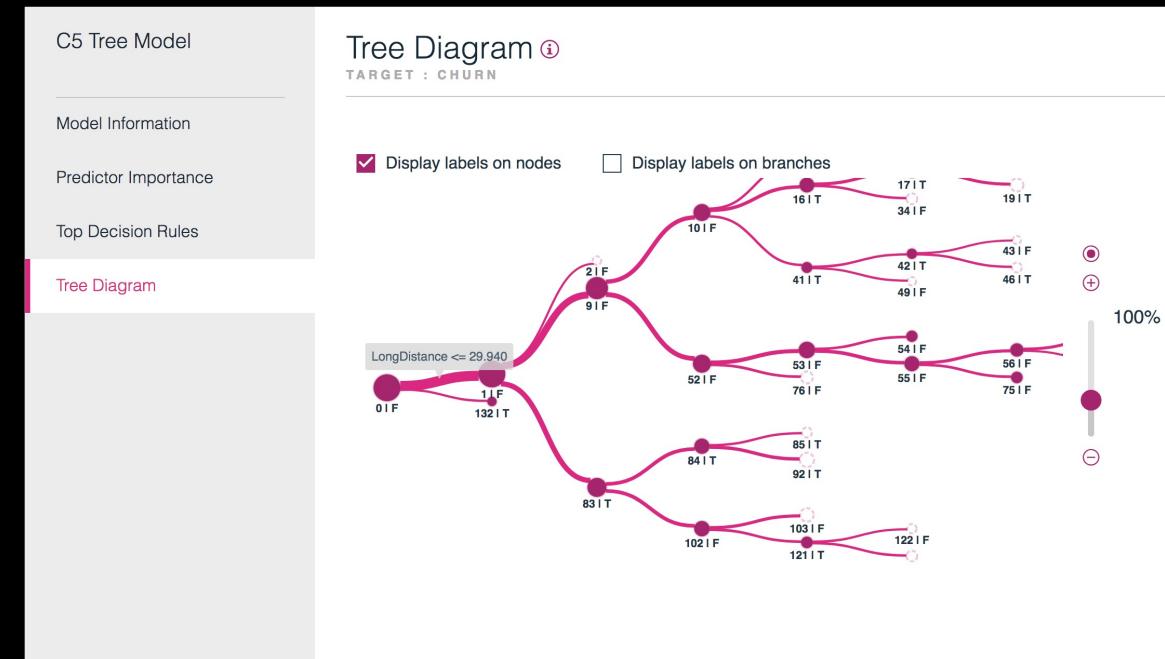
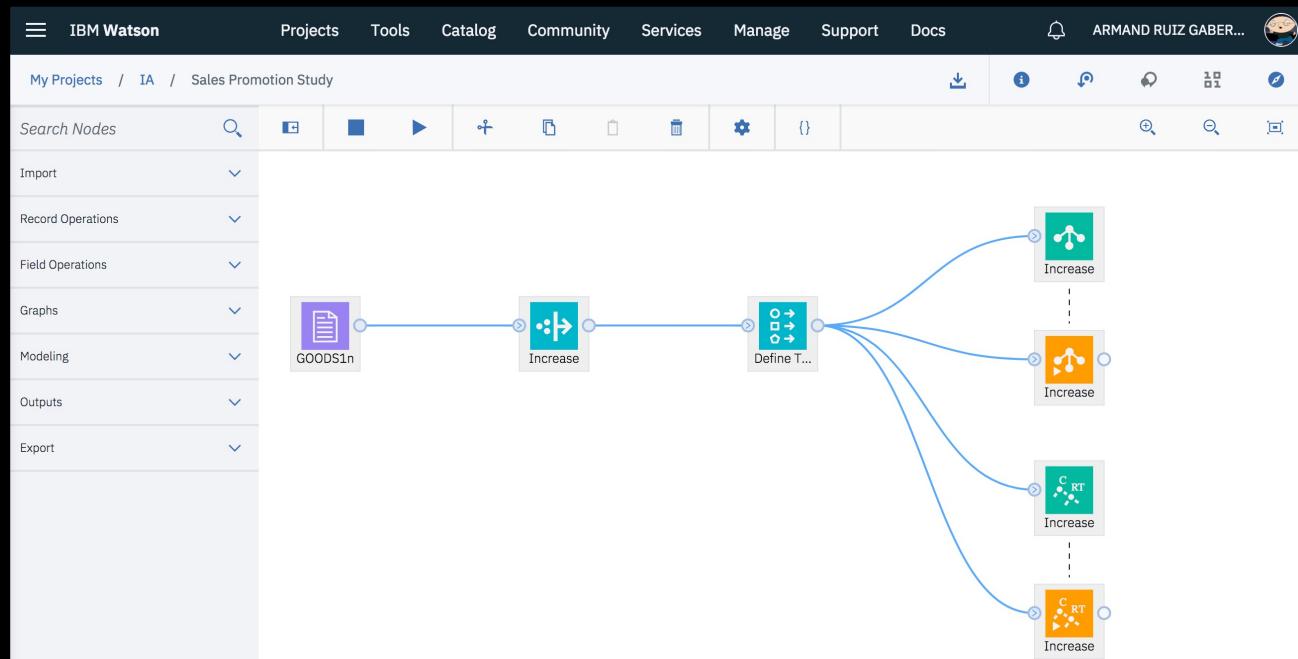
# Modeler

# algorithm

# Statistics

R

# SPSS Modeler Flow



- *Build and deploy predictive models without coding*
- *Built on trusted SPSS Modeler – used by industry experts for over 20 years*
- *Large selection of algorithms available to cover wide variety of use cases*

*Deploy models with one click to Watson Machine Learning*

*Execute Modeler flows on single node containers or Spark*

*Use flows to work on shared assets with collaborators inside your Watson Studio projects*

# IBM SPSS Modeler value

Accelerate time to value — from data discovery to machine learning and application development

On-premises deployment

✓ Flexible licensing options

POWERFUL ONE environment for data, algorithms, model development and machine learning

OUT-OF-BOX industry-leading algorithms and capabilities

“Drag & Drop” Data Science and Machine Learning

VERSATILE for data scientists with open source environment

MISSION-CRITICAL deployment and scale

Cloud deployment

# Simplify consumption

## Data aquisition Context

### Data

- Traditional
- Distributed



### Big Data

- Unstructured
- Surveys / research
- Sensors



## Analize Explore

### Organize



### Model



### Scale



### Simplify



## Actionable insights in business moment

### Plan / Colaborate

- Mobile
- Dashboards
- Insights



### Embed

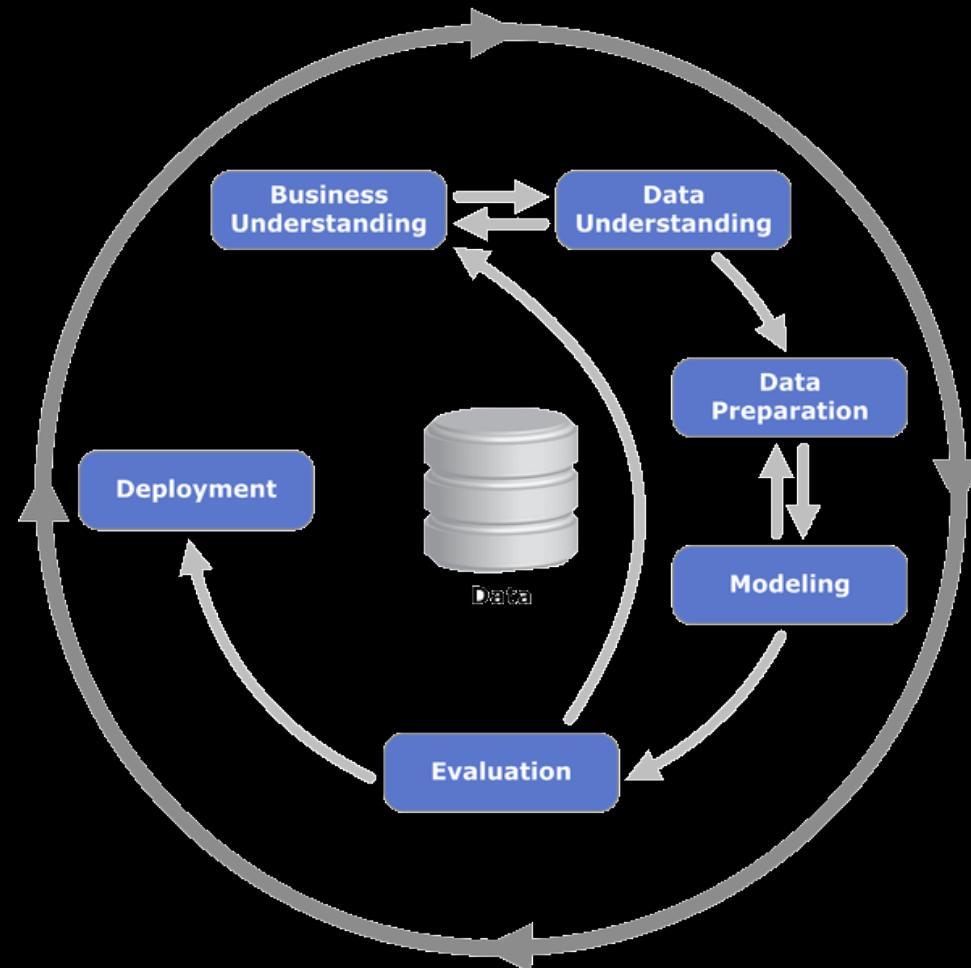
- Peple
- Processes



Analytic Server SPSS Statistics IBM R  
Hadoop Gini binomial regression  
Map/Reduce accuracy distribution  
variance variable scoring PCA Modeler  
Stratified sample algorithm Weibull Mlib  
propensity variable algorithm

# SPSS Modeler

- CRISP-DM, which stands for **Cross-Industry Standard Process for Data Mining**,



Analytic Server propensity binomial distribution regression  
Hadoop Gini Map/Reduce variable Weibull accuracy Mlib IBM R  
Scoring algorithm Stratified sample SPSS Statistics Spark decission tree PCA Modeler

You need an orchestrated approach to exploit code-based and visual based data science

accuracy

Hadoop

Map/Reduce

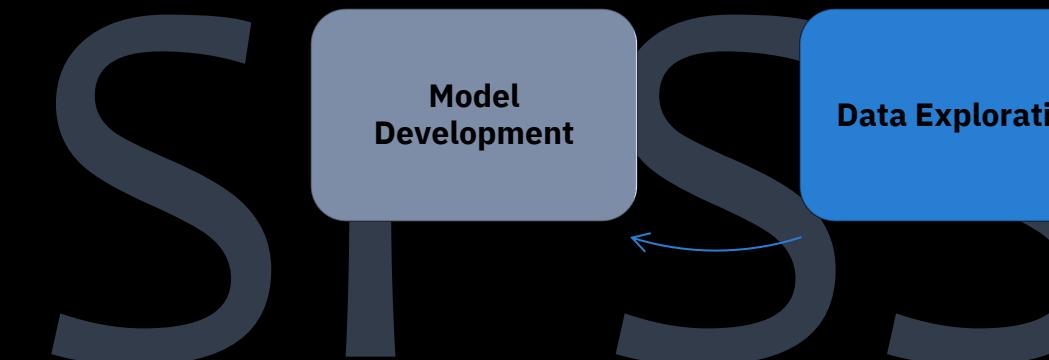
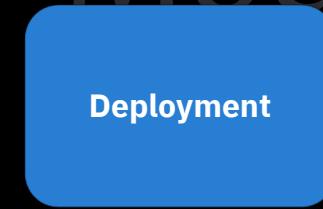
Stratified sample



Exploration



Production

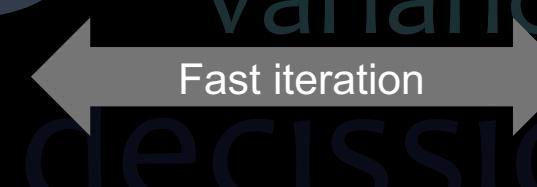


propensity

cluster

Montecarlo

neural network



Statistics

SQL

K-means

Weibull

# Editing a SPSS Flow Asset in Watson Studio

The screenshot shows the IBM Cloud Pak for Data interface with the following elements:

- Top Bar:** IBM Cloud Pak for Data, All, Search, Upgrade, Notifications, Omer Mizrachi's Account, and a user icon.
- Left Sidebar:** Projects / customer\_churn / IAI. Options include Find palette nodes (highlighted with a blue box), Run, Import, Record Operat, Field Operations, Modeling, Text Analytics, Graphs, Outputs, and Export.
- Middle Area:** A flow diagram with nodes: Data Asset (purple), Data Asset (purple), Merge (blue hexagon with arrows), Partition (blue hexagon with horizontal lines), Type (blue hexagon with vertical lines), and No Targets (green hexagon with dots). Arrows connect the nodes sequentially from left to right.
- Right Sidebar:** Data section with a file upload area ("Drop files here or browse for files to upload") and a Data Assets section ("Data Assets You may upload multiple data assets").
- Annotations:**
  - A blue box labeled "Node Search" surrounds the "Find palette nodes" search bar.
  - A blue box labeled "Stream Nodes" surrounds the "Merge" node.
  - A blue box labeled "Available Nodes" surrounds the "Data Asset" nodes.
  - A blue box labeled "Data Assets" surrounds the "Data Assets" section in the sidebar.

## Import

Data Asset

User Input

Sim Gen

Extension Import

Record Operations

Field Operations

Modeling

Text Analytics

Graphs

Outputs

Export



Record Operations

Select

Sample

Sort

Balance

Distinct

Aggregate

Merge

Append

Space-Time-Boxes

Streaming TS

SMOTE

RFM Aggregate

Extension Transform

Streaming TCM

Modeling

Auto Classifier

Auto Numeric

Auto Cluster

Bayes Net

C5.0

C&R Tree

CHAID

Quest

Tree-AS

Random Trees

Random Forest

Decision List

Time Series

TCM

GenLin

Sequence

Kohonen

Anomaly

K-Means

TwoStep

TwoStep-AS

Isotonic-AS

K-Means-AS

KDE Modeling

Gaussian Mixture

XGBoost-AS

XGBoost Tree

XGBoost Linear

One-Class SVM

MultiLayerPerceptron-AS

Text Analytics

Language Identifier

Text Link Analysis

Text Mining

Graphs

Charts

Plot

Multiplot

Time plot

Distribution

Histogram

Collection

Web

Evaluation



Outputs

Table

Matrix

Analysis

Data Audit

Export

Data Asset Export

Extension Export

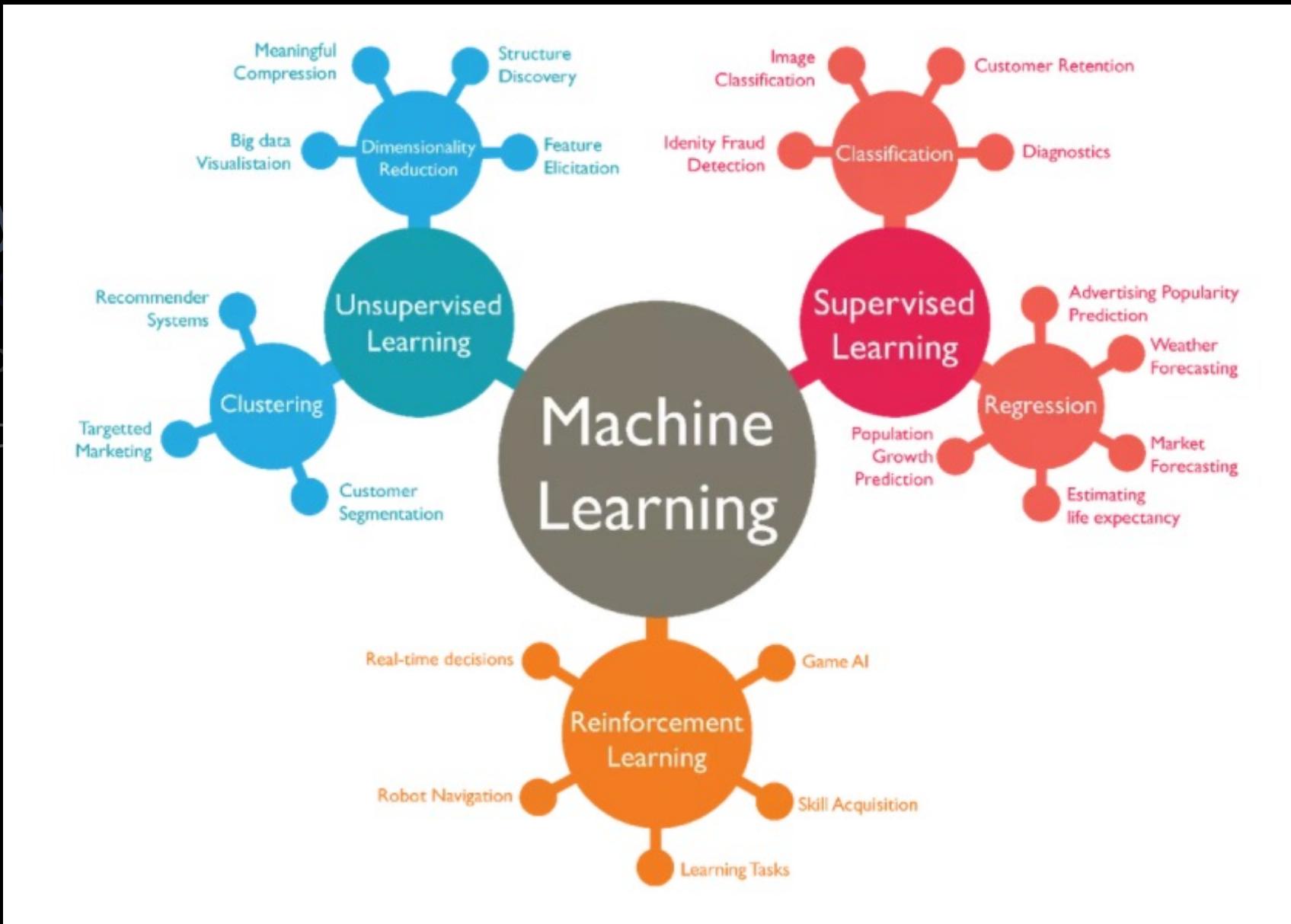
Analytic Server accuracy distribution regression  
Hadoop scoring Mlib Gini Spark IBM Modeler  
Map/Reduce gamma variance propensity PCA R  
Stratified sample SPSS Statistics binomial algorithm  
decission tree Weibull

# Modelling algorithms

Algorithms and techniques out of the box with SPSS Modeler

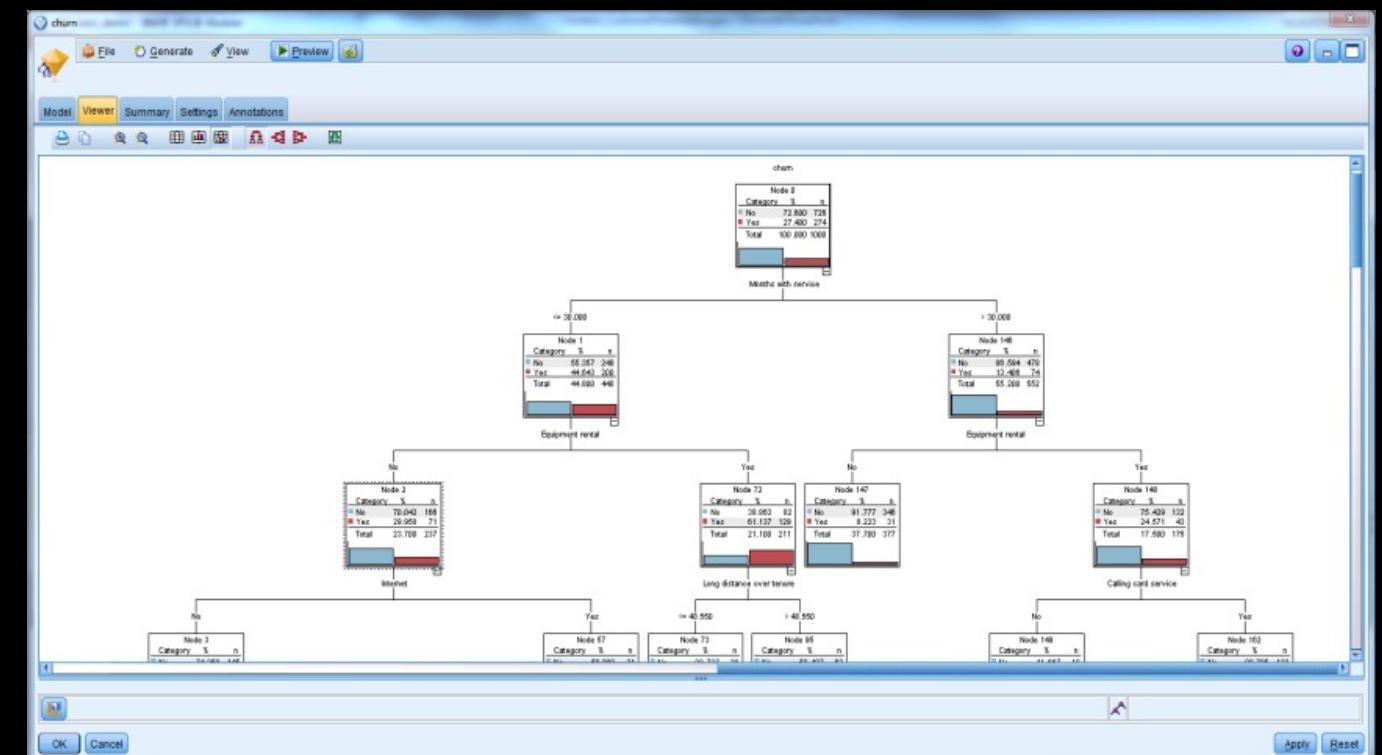
Analy  
Hadoop  
Map  
Stratified

ssion  
Modeler  
PCA R  
ithm Weibull



# Classification and Prediction

- Help to predict a result
  - Will a customer buy or leave
  - Does transaction fit a known pattern of fraud
  - Expected inventory levels
  - Forecast number of widget purchases
- Techniques included
  - Decision Trees
  - Bayesian Networks
  - Neural Networks
  - Decision List
  - Statistical Models
  - Time Series
  - Self Learning Response Models
  - Support Vector Models
  - Nearest Neighbor Models



Analytic Server propensity binomial distribution regression  
Hadoop Gini Map/Reduce variable Weibull scoring IBM R  
Scoring algorithm SPSS Statistics Spark Mlib PCA Modeler

# One example: Linear Regression

Given a data set of  $n$  statistical units,  $\{y_i, x_{i1}, \dots, x_{ip}\}_{i=1}^n$  a linear regression model assumes that the relationship between the dependent variable  $y_i$  and the  $p$ -vector of regressors  $x_i$  is linear

$$y_i = \beta_1 x_{i1} + \dots + \beta_p x_{ip} + \varepsilon_i = x_i^T B + \varepsilon_i, \quad i = 1, \dots, n$$

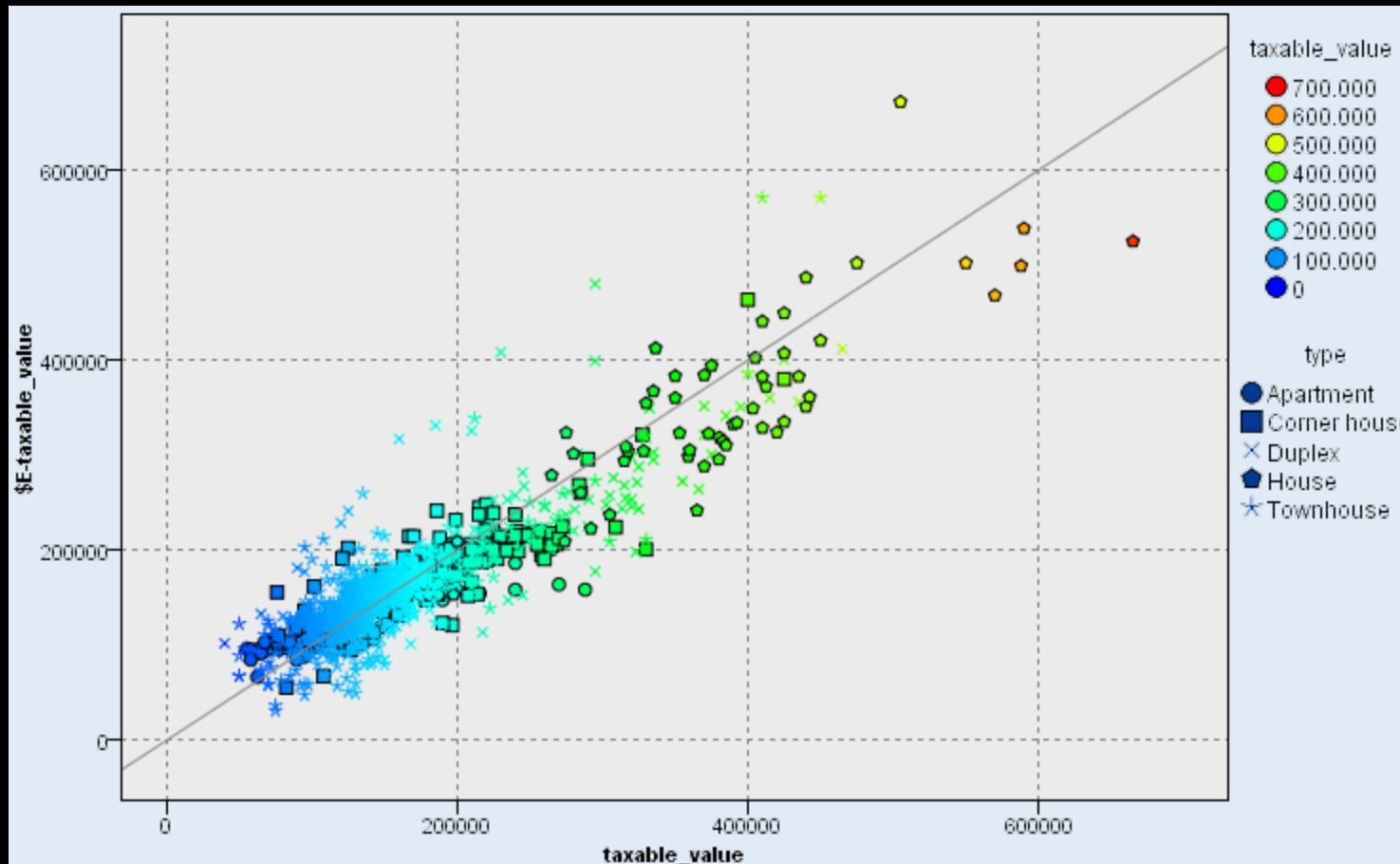
This relationship is modeled through a disturbance term or error variable  $\varepsilon_i$  — an unobserved random variable that adds noise to the linear relationship between the dependent variable and regressors.

$$Y = XB + \varepsilon$$

Often these  $n$  equations are stacked together and written in vector form as

$$Y = \begin{pmatrix} y_1 \\ y_2 \\ \vdots \\ y_n \end{pmatrix} \quad X = \begin{pmatrix} x_1^T \\ x_2^T \\ \vdots \\ x_n^T \end{pmatrix} = \begin{pmatrix} x_{11} & \dots & x_{1p} \\ x_{21} & \dots & x_{2p} \\ \vdots & \ddots & \vdots \\ x_{n1} & \dots & x_{np} \end{pmatrix}, \quad B = \begin{pmatrix} \beta_1 \\ \beta_2 \\ \vdots \\ \beta_p \end{pmatrix}, \quad \varepsilon = \begin{pmatrix} \varepsilon_1 \\ \varepsilon_2 \\ \vdots \\ \varepsilon_n \end{pmatrix}$$

# Linear regression



$$y = \text{Year}_{\text{con}} \cdot 901,787 + v_{\text{int}} \cdot 206,058 - v_{\text{other}} \cdot 156,426 + \text{field} \cdot 281,059 - 1743982,170$$

Analytic Server propensity Weibull binomial distribution regression R  
Hadoop Gini Map/Reduce variance variable scoring algorithm SPSS Statistics IBM Modeler  
Stratified sample

What is a natural grouping among these objects?



Clustering is subjective



Simpson's Family



School Employees



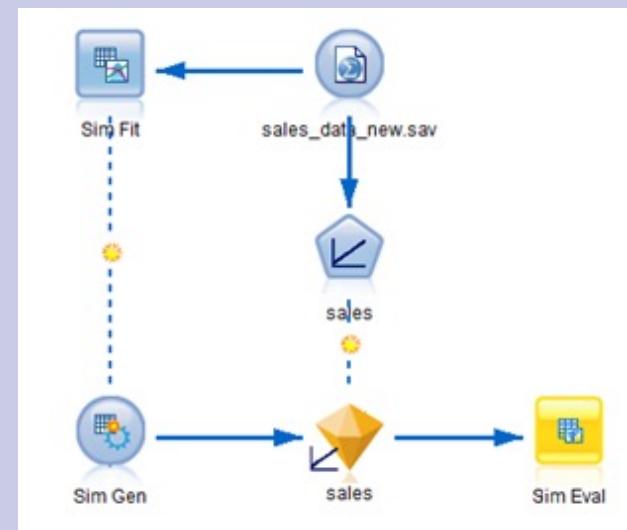
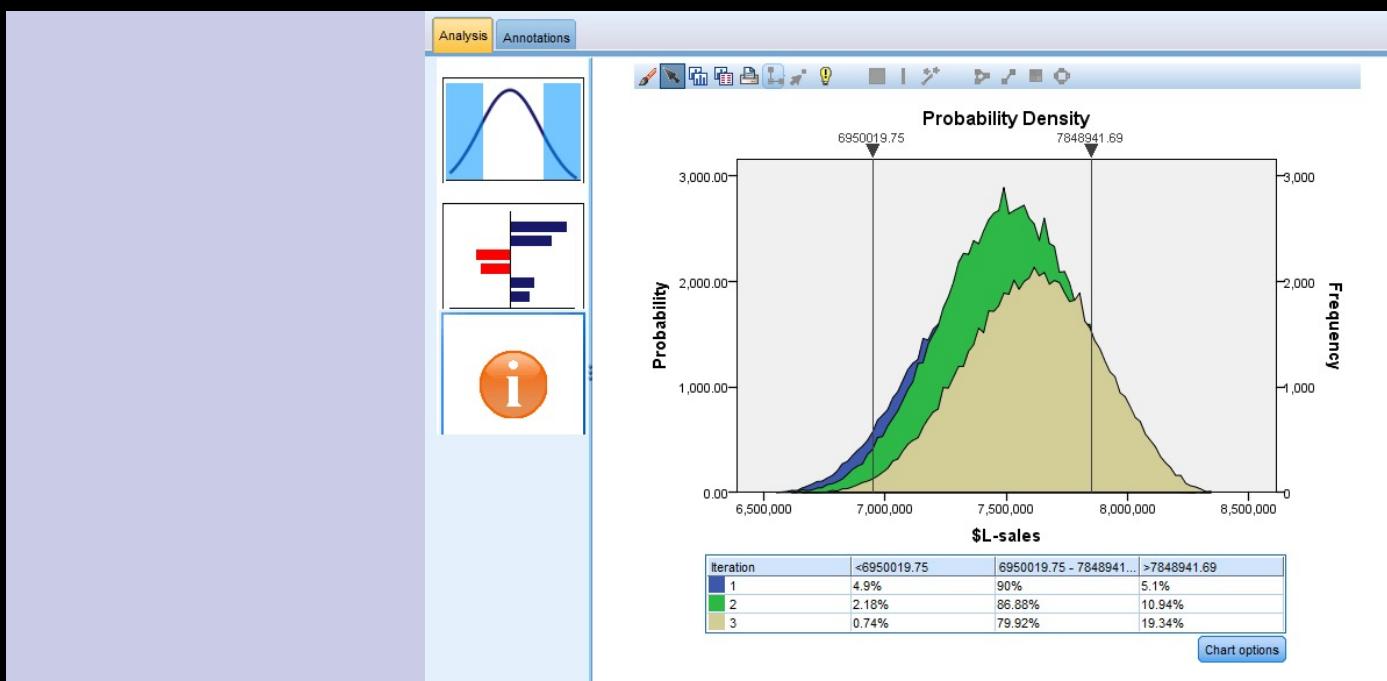
Females

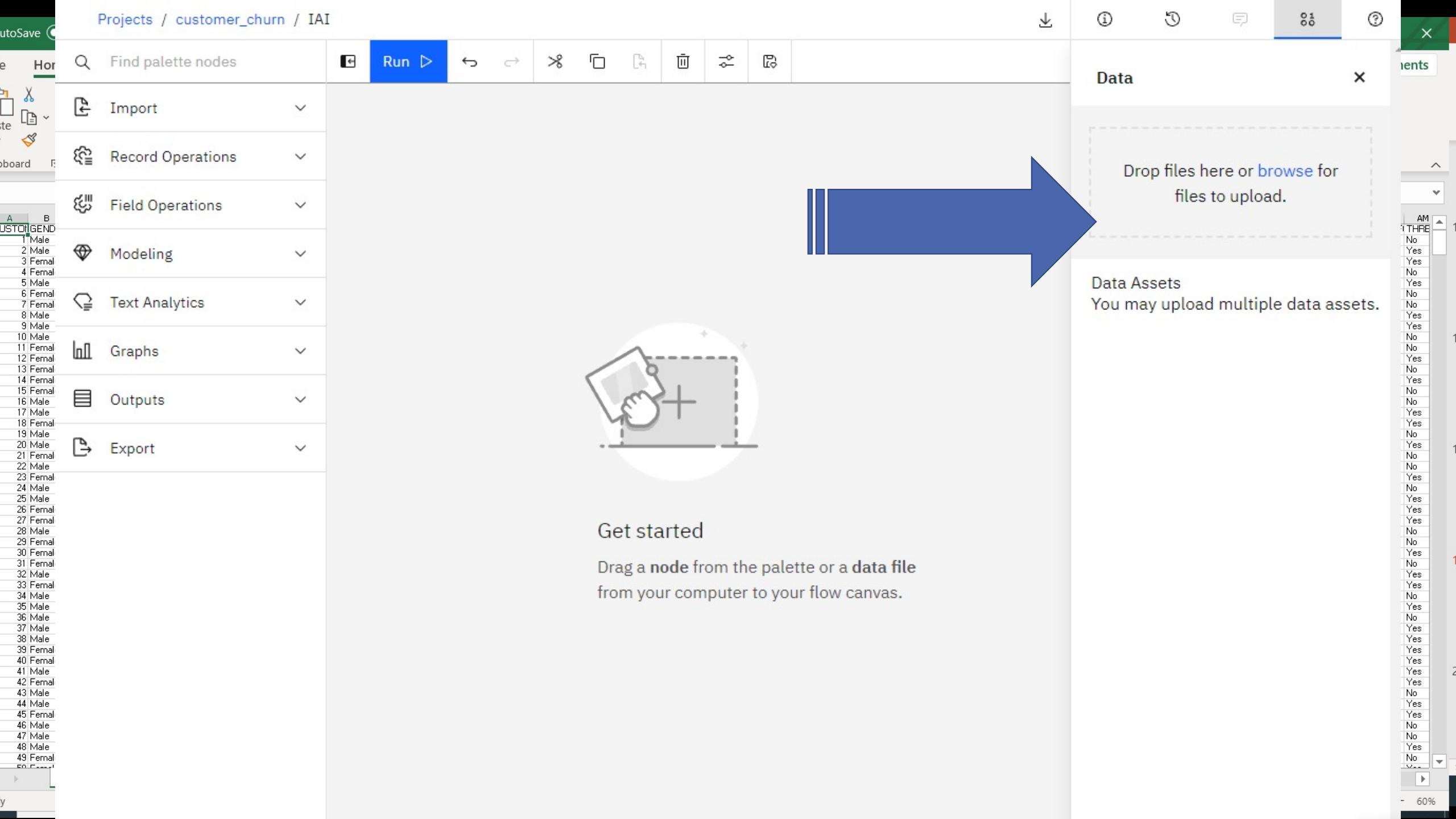


Males

# Monte Carlo Simulation

- Generate simulated data
- Fit distributions from existing data
- Evaluate the simulation





## Import

### Import

Data Asset

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Record Operations

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Text Analytics

Graphs

Outputs

Export

### Data preview



CUSTOMER_ID	GENDER	DOB	EDUC_LEVEL	MARITAL_STATUS	HOUSEHOLD_SIZE
-------------	--------	-----	------------	----------------	----------------

1	Male	1974-11-17	4	Married	2
---	------	------------	---	---------	---

2	Male	1985-09-16	5	Married	6
---	------	------------	---	---------	---

3	Female	1966-05-16	1	Married	2
---	--------	------------	---	---------	---

4	Female	1985-10-06	2	Unmarried	1
---	--------	------------	---	-----------	---

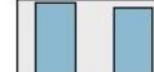
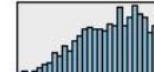
5	Male	1988-08-25	1	Married	4
---	------	------------	---	---------	---

6	Female	1979-04-21	2	Unmarried	1
---	--------	------------	---	-----------	---

7	Female	1996-02-19	2	Married	5
---	--------	------------	---	---------	---

8	Male	1983-09-22	2	Unmarried	
---	------	------------	---	-----------	--

## View Output: Data Audit of [42 fields]

	Field	Graph	Measurement	Min	Max	Mean	Std. Dev	Skewness	Unique	Valid
1	CUSTOMER_ID		Continuous	1	1000	500.500	288.819	0	--	1000
2	GENDER		Categorical	--	--	--	--	--	2	1000
3	DOB		Continuous	1941-01-10	2000-05-10	--	--	--	--	999
4	EDUC_LEVEL		Continuous	1	5	2.667	1.220	0.200	--	957
5	MARITAL_STATUS		Categorical	--	--	--	--	--	3	1000
6	HOUSEHOLD_SIZE		Continuous	1	81	2.420	2.906	20.115	--	996
7	HOUSEHOLD_INCOME		Continuous	9	1668	77.820	105.192	6.818	--	999

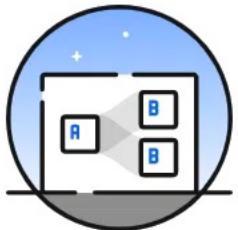


Set Globals

[← Back](#)

## Create a project

Choose whether to create an empty project or to preload your project with data and analytical assets. Add collaborators and data, and then choose the right tools to accomplish your goals. Add services as necessary.



### Create an empty project

Add the data you want to prepare, analyze, or model. Choose tools based on how you want to work: write code, create a flow on a graphical canvas, or automatically build models.

**NEW** AutoAI experiment tool: Fully automated approach to building a classification or reg...

#### USE TO

*Prepare and visualize data  
Analyze data in notebooks  
Train models*



### Create a project from a sample or file

Get started fast by loading existing assets. Choose a project file from your system, or choose a curated sample project.

#### USE TO

*Learn by example  
Build on existing work  
Run tutorials*



IBM Cloud Pak for Data

All Search

My projects / CreditRiskAnalysis

Overview Assets Environments Jobs Access Control Settings

What assets are you looking for?

**Data assets**

0 assets selected.

Name	Type	Created by	Last modified
german_credit_data_biased_training.csv	CSV		

Choose asset type

Available asset types

- Data
- Connection
- Connected data
- AutoAI experiment
- Notebook
- Modeler flow**
- Deep learning exper...
- Data Refinery flow

Add to project +

Data Load Files Catalog

Drop files here or browse for files to upload.

## New modeler flow

[New](#)[From File](#)[From Example](#)

Name

Type name here.

Description (optional)

Type description here.

Select flow type

 Modeler Flow  Neural Network Modeler Beta

Runtime

 IBM SPSS Modeler  Spark Beta

Cancel

Create

ibm.com/docs/en/wsd?topic=spss-modeler

IBM Documentation Search in IBM Watson Studio Desktop

IBM Watson Studio Desktop

# Creating SPSS Modeler flows

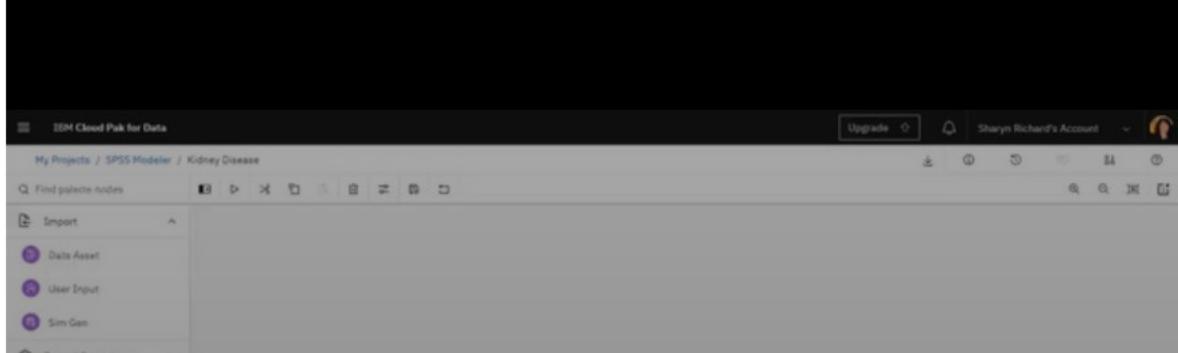
With SPSS Modeler flows in Watson Studio, you can quickly develop predictive models using business expertise and deploy them into business operations to improve decision making. Designed around the long-established SPSS Modeler client software and the industry-standard CRISP-DM model it uses, the flows interface supports the entire data mining process, from data to better business results.

Watson Studio offers a variety of modeling methods taken from machine learning, artificial intelligence, and statistics. The methods available on the node palette allow you to derive new information from your data and to develop predictive models. Each method has certain strengths and is best suited for particular types of problems.

Using the **Flow Editor**, you prepare or shape data, train or deploy a model, or transform data and export it back to a database table or a file. To create an SPSS model, add the **Modeler flow** asset type to your project, then select SPSS as the flow type.

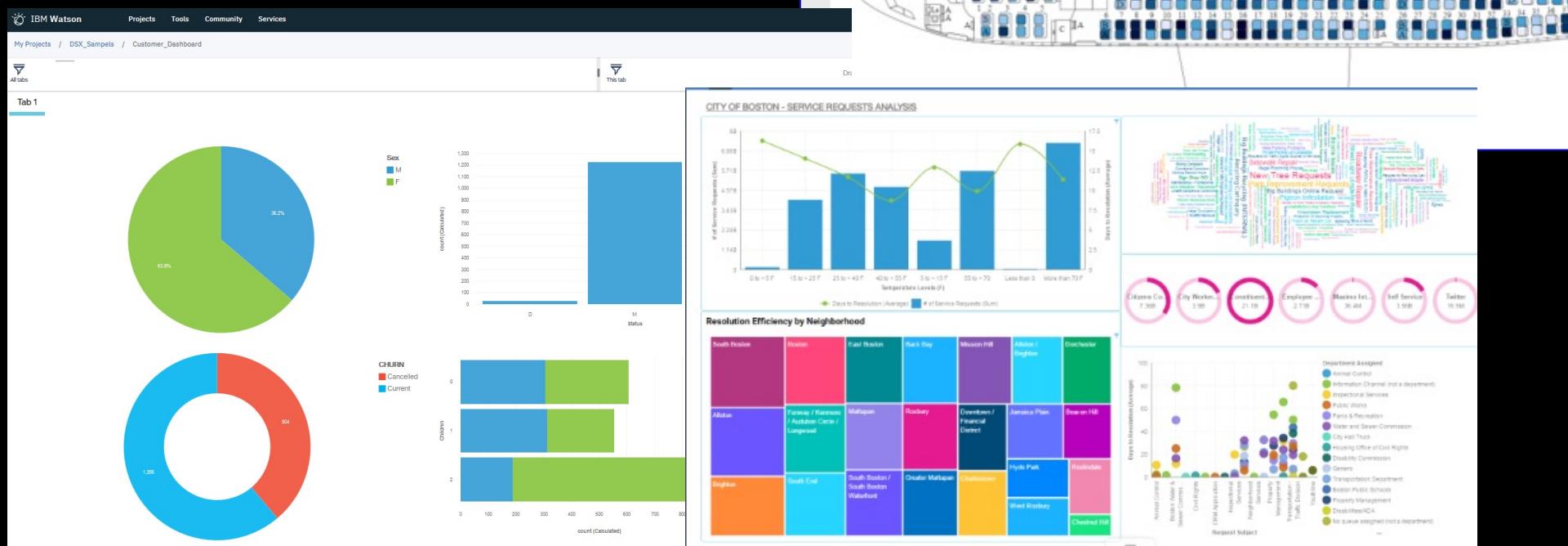
An example project is installed with the product that includes example data and flows. See [Example projects](#).

Watch these short videos for a few modeling examples:



# Cognos Analytics and Dashboards

AI-fueled business intelligence enhancements  
*Gives the ability to explore the data and easily communicate the analysis and insights that you discover.*



## New dashboard

[Blank](#)[From file](#)

Name

Customer

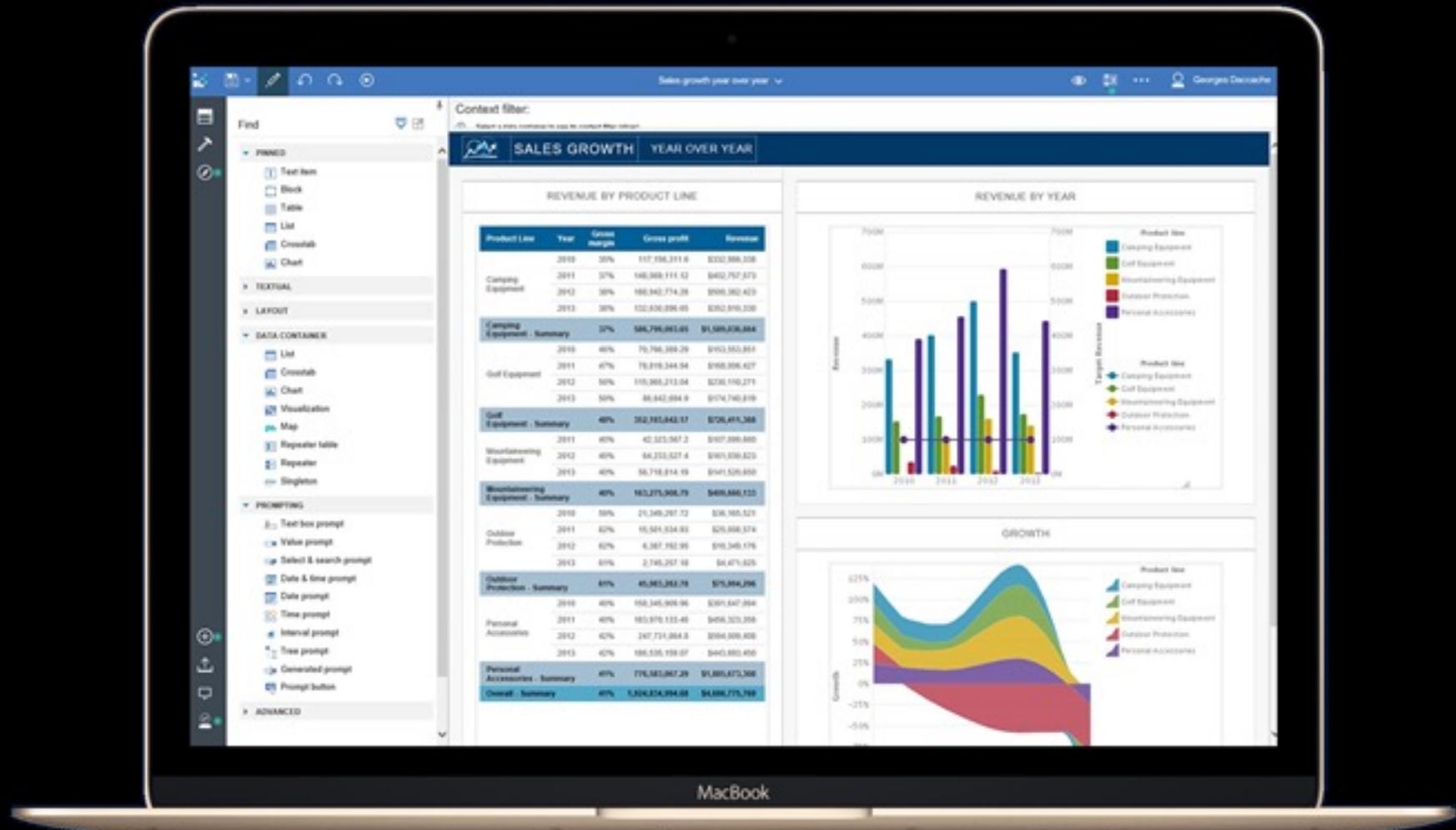
Description (Optional)

Dashboard description

IBM Cognos Dashboard Embedded service

Select Cognos Dashboard Embedded service from the list

[Cancel](#)[Create](#)



The image shows a tablet displaying the Cognos Analytics software interface. The interface includes a left sidebar with a navigation menu containing sections like PINNED, TEXTUAL, LAYOUT, DATA-CONTAINER, PROMPTING, and ADVANCED. The main area features three visualizations: a table titled 'REVENUE BY PRODUCT LINE' showing data for Camping Equipment, Golf Equipment, Hunting Equipment, and Personal Accessories; a bar chart titled 'REVENUE BY YEAR' comparing revenue across four years for the same product lines; and a line chart titled 'GROWTH' showing the percentage change over time for each product line. The top of the screen shows a context filter for 'Sales growth year over year' and a user name 'Georges Desautels'.



# Cognos Analytics

IBM Cognos Analytics

Welcome

1/3 Alerts Dismiss More Info

What's New To read about what's new in Getting Started, click More Info.

Show welcome

Home Search Folders (1) Clock

Hello. Welcome to IBM Cognos Analytics.

Unearth hidden insights with a personalized analytics experience driven by AI.

+ (1)

Assistant

7/21/2020

How can I help you?

All tabs

Drag and drop data here to filter all tabs.

...  
This tab

Drag and drop data here to filter this tab.

Tab 1 Tab 2 Tab 3 +

Activate Windows  
Go to Settings to activate Windows.

cre

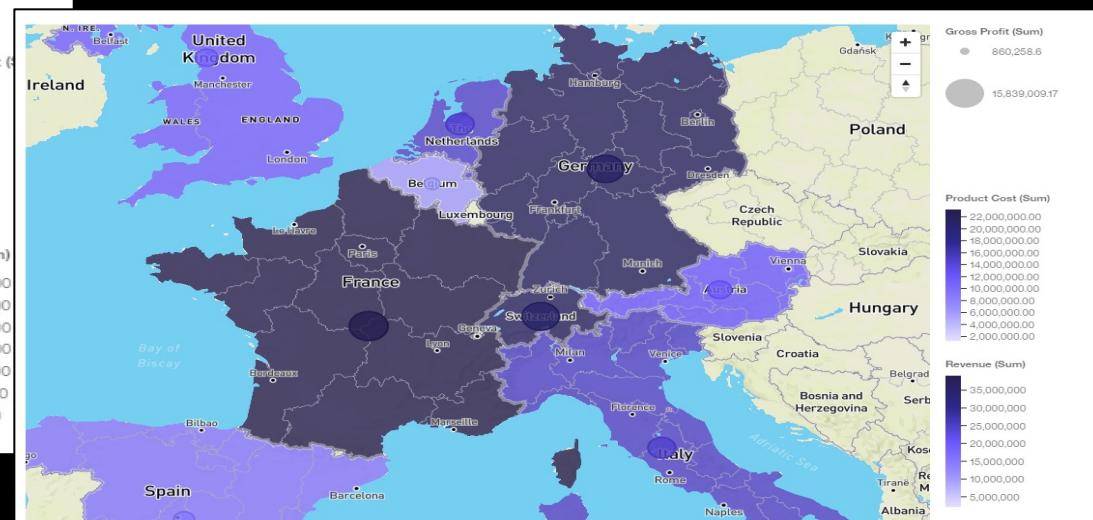
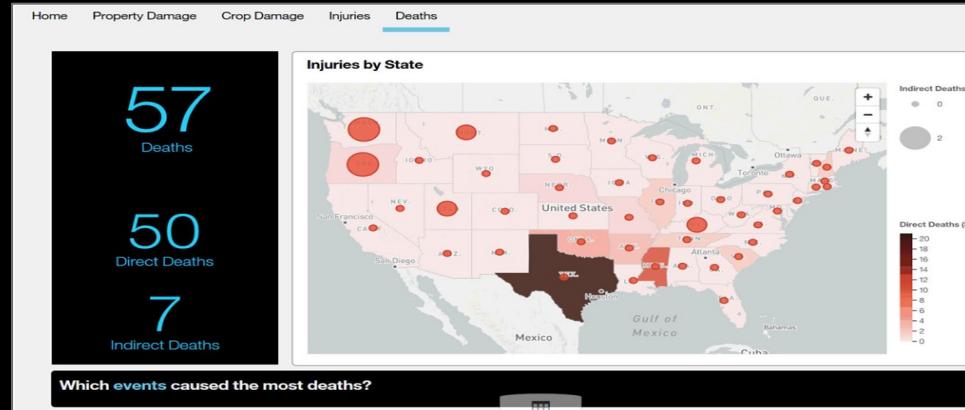
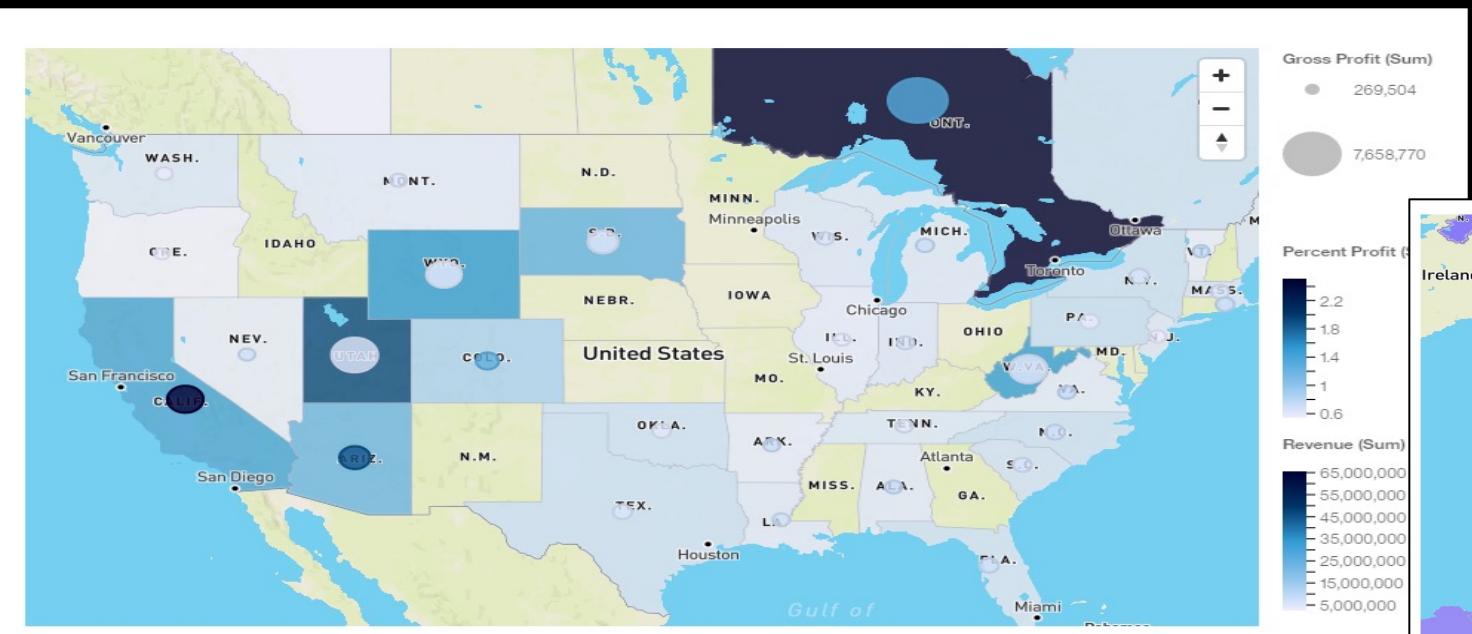
Windows Search Task View Internet Explorer Google Chrome File Explorer Task View Start 3:04 PM 7/21/2020



# maps with MapBox partnership

World class mapping solution

No added base cost to customers



Clipboard

Font

Alignment

Number

Styles

Cells

Editing

Ideas

Sensitivity

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Brand	Store Numbr	Store Name	Ownership	Street Address	City	Stat	Count	Postc	Phone Number	Timezone	longitu	Latitud	Sales	
2	Starbucks	47370-257954	Meritxell, 96	Licensed	Av. Meritxell, 96	Andorra la V	7 AD	AD500	376818720	GMT+1:00 Europe/Ando	1.53	42.51	60555		
3	Starbucks	22331-212325	Ajman Drive Thru	Licensed	1 Street 69, Al Jarf	Ajman	AJ	AE		GMT+04:00 Asia/Dubai	55.47	25.42	76505		
4	Starbucks	47089-256771	Dana Mall	Licensed	Sheikh Khalifa Bin Zayed St.	Ajman	AJ	AE		GMT+04:00 Asia/Dubai	55.47	25.39	33643		
5	Starbucks	22126-218024	Twofour 54	Licensed	Al Salam Street	Abu Dhabi	AZ	AE		GMT+04:00 Asia/Dubai	54.38	24.48	27116		
6	Starbucks	17127-178586	Al Ain Tower	Licensed	Khaldiya Area, Abu Dhabi Islan	Abu Dhabi	AZ	AE		GMT+04:00 Asia/Dubai	54.54	24.51	85053		
7	Starbucks	17688-182164	Dalma Mall, Ground Floor	Licensed	Dalma Mall, Mussafah	Abu Dhabi	AZ	AE		GMT+04:00 Asia/Dubai	54.49	24.4	44333		
8	Starbucks	18182-182165	Dalma Mall, Level 1	Licensed	Dalma Mall, Mussafah	Abu Dhabi	AZ	AE		GMT+04:00 Asia/Dubai	54.49	24.4	6155		
9	Starbucks	23359-229184	Debenhams Yas Mall	Licensed	Yas Island	Abu Dhabi	AZ	AE		GMT+04:00 Asia/Dubai	54.61	24.46	97131		
10	Starbucks	30781-99022	Khalidiya Street	Licensed	Khalidiya St.	Abu Dhabi	AZ	AE	26670052	GMT+04:00 Asia/Musca	55.69	24.19	61053		
11	Starbucks	20423-205465	Eastern Mangroves	Licensed	Al Salam Street, The Mangrove	Abu Dhabi	AZ	AE		GMT+04:00 Asia/Dubai	54.38	24.48	20447		
12	Starbucks	20424-205466	Nation Towers	Licensed	Corniche Street	Abu Dhabi	AZ	AE		GMT+04:00 Asia/Dubai	54.34	24.47	92629		
13	Starbucks	1579-122101	HCT Abu Dhabi Women's Coll	Licensed	Najda Street, Higher Colleges o	Abu Dhabi	AZ	AE	3167	26426280	GMT+04:00 Asia/Dubai	54.37	24.49	69420	
14	Starbucks	32595-122105	Standard Chartered Building	Licensed	Khalidiya St., Beside Union Coc	Abu Dhabi	AZ	AE	3167	26359275	GMT+04:00 Asia/Musca	55.69	24.19	42947	
15	Starbucks	24191-236428	International Tower	Licensed	Capital Center, Adnec, Abu Dh	Abu Dhabi	AZ	AE		GMT+04:00 Asia/Dubai	54.7	24.3	82517		
16	Starbucks	24604-238367	Yas Mall 3	Licensed	YAS Island	Abu Dhabi	AZ	AE		GMT+04:00 Asia/Dubai	54.6	24.48	35359		
17	Starbucks	32029-110804	Blue Tower A	Licensed	Street No.4, Muroor Road, Gro	Abu Dhabi	AZ	AE	26429255	GMT+04:00 Asia/Musca	55.74	24.21	34311		
18	Starbucks	29560-238539	Corniche Park DT	Licensed	Corniche Road , Abu Dhabi	Abu Dhabi	AZ	AE		GMT+04:00 Asia/Dubai	54.34	24.47	54986		
19	Starbucks	32239-100001	Khalidiya Mall	Licensed	Street No.26 of Khalidiya Area,	Abu Dhabi	AZ	AE	26354740	GMT+04:00 Asia/Dubai	54.35	24.47	13732		
20	Starbucks	31719-103601	Al Wahda Mall	Licensed	11th Street, Ground Floor, Mai	Abu Dhabi	AZ	AE	24437197	GMT+04:00 Asia/Dubai	54.37	24.47	75408		
21	Starbucks	20008-200004	Al Seef Village	Licensed	Salam Street, Ministries District	Abu Dhabi	AZ	AE		GMT+04:00 Asia/Dubai	54.38	24.48	83921		
22	Starbucks	32767-131566	Shangri-La Souq	Licensed	Shangri-La Souk, Um Al Nar	Abu Dhabi	AZ	AE	3167	25581641	GMT+04:00 Asia/Dubai	54.51	24.42	50857	
23	Starbucks	3886-141408	Abu Dhabi University, Men's	Licensed	Muroor Street, Abu Dhabi Mall	Abu Dhabi	AZ	AE	24422824	GMT+04:00 Asia/Dubai	54.35	24.46	87638		
24	Starbucks	29539-254261	MUshrif Mall 1	Licensed	25th st, Airport Road	Abu Dhabi	AZ	AE	971	GMT+04:00 Asia/Dubai	54.66	24.41	63529		
25	Starbucks	28809-251348	Boutik Mall Sun & Sky	Licensed	Shams Abu Dhabi, Al Reem Isla	Abu Dhabi	AZ	AE		GMT+04:00 Asia/Dubai	54.41	24.5	13670		
26	Starbucks	34262-62540	Marina Mall	Licensed	Marina Mall	Abu Dhabi	AZ	AE	02-6015000	GMT+04:00 Asia/Dubai	54.32	24.47	64392		
27	Starbucks	3178-141407	Abu Dhabi University, Women	Licensed	Road Al Ain Abu Dhabi Road N	Abu Dhabi	AZ	AF	25860492	GMT+04:00 Asia/Dubai	54.57	24.25	95249		

# IBM Cognos Analytics

Sign in with your Cognos Users ID

 Admin

 .....

**Sign in**

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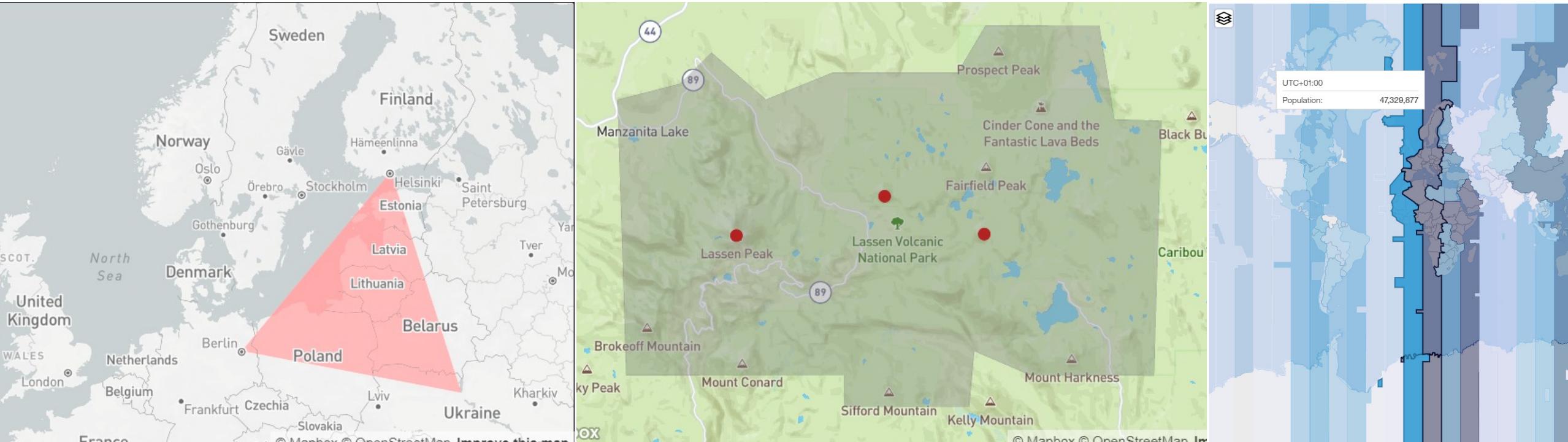
18%

Activate Windows  
Go to System in Control Panel to activate Windows.

## Setting up Mapbox to work with IBM Cognos Analytics

IBM® Cognos® Analytics supports the use of custom polygons in partnership with Mapbox.

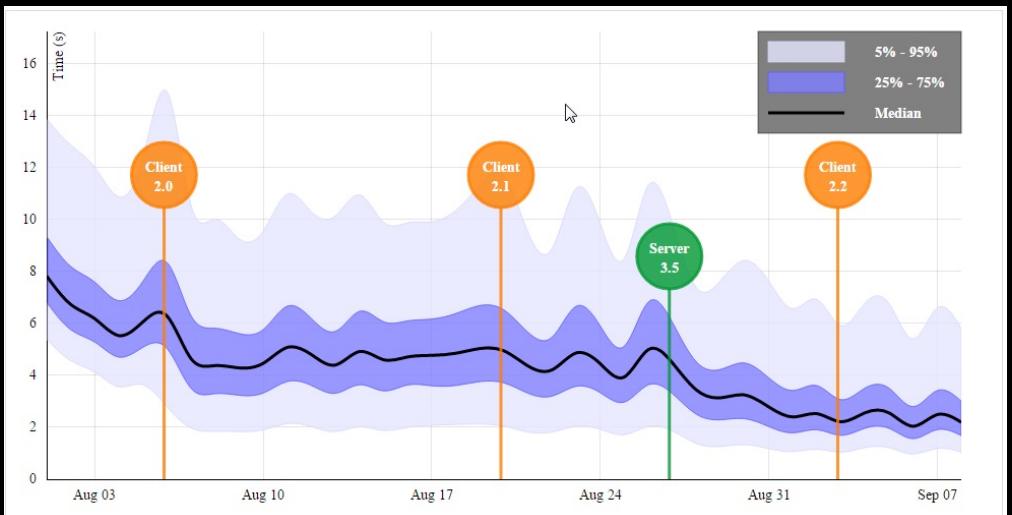
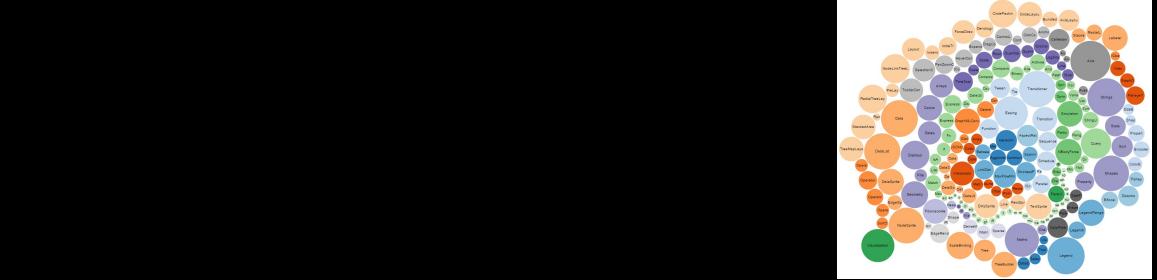
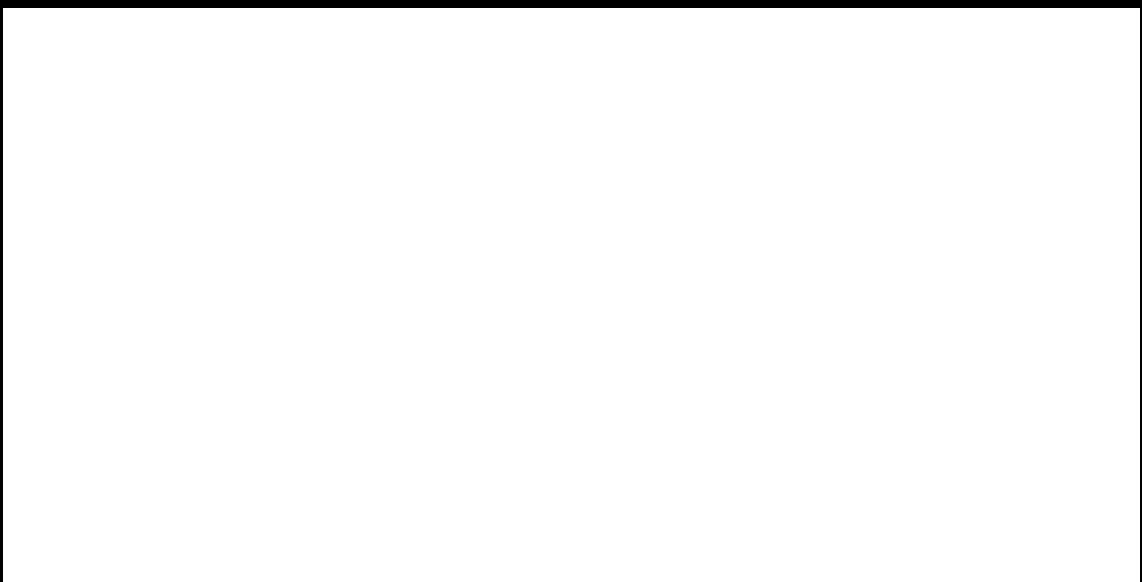
Create a free Mapbox account with 5 GB of space. When you have created your Mapbox account, upload your geoJSON custom polygon file to Mapbox as a tileset. A tileset is a compiled set of geoJSON that is optimized to render fast on a browser. For more information, see <https://www.mapbox.com/pricing/>.





RAVE2 - Visualizations in the box!  
Greater flexibility with support for D3 visualizations

Schematics  
implemented in Cognos Analytics using tagged  
shapes/polygons in an SVG file.





New dashboard ▾

1/3 Alerts ← → ⓘ What's New To read about what's new in Dashboards, click More Info. Dismiss More Info →

Visualizations

System Custom

Date All tabs This tab

Custom visuals

Revenue by Date colored by Sales Channel

Revenue by Product Line

Revenue

297M

Revenue

Date, Revenue, Planned

Revenue (\$sum) Planned (\$sum)

Gas Gauge GoogleCh... Highcharts KPI

38

The dashboard interface shows a navigation bar at the top with various icons and a "New dashboard" dropdown. Below the navigation is a blue header bar with "1/3 Alerts", a "What's New" link, and "Dismiss/More Info" buttons. The main area is divided into sections: "Visualizations" (with tabs for "System" and "Custom"), "Custom visuals" (listing various chart types like "Airbus", "Aster", "Bubbles Schematic", etc.), and three data visualizations. The first visualization is a line chart titled "Revenue by Date colored by Sales Channel" showing revenue over time from December 2014 to January 2015, with three series: Foodservice (blue), Supermarket (orange), and Vending (pink). The second is a donut chart titled "Revenue by Product Line" showing the distribution of revenue between Tea (yellow), Fruit Juices (green), and Carbonated Drinks (blue). The third is a bar chart titled "Revenue" comparing actual revenue (\$sum) and planned revenue (\$sum) across different dates. A large "297M" is prominently displayed above the revenue chart.



Red Hat

# Branding & Extensibility

The screenshot shows the IBM Cognos Analytics interface with several blue callout boxes containing placeholder text:

- Your logo here!** (top left)
- Your text here!** (top middle)
- Your color here!** (top right)
- Your button here!** (center, pointing to a large black button)
- Your background here!** (bottom left)
- Your toolbox item here!** (bottom right)

The interface includes a top navigation bar with the IBM Cognos Analytics logo, a search bar, and a "Welcome" dropdown. The main content area features a "Welcome to IBM Cognos Analytics" message and a "Your content will appear here" placeholder. A sidebar on the left contains links for Home, Search, My content, Team content, and Recent. A quick reference sidebar on the right lists Get started, Overview, Get started videos, Sample data, and Support.

The screenshot shows the branding and extensibility configuration interface with the following sections:

- PINNED**: Text item, Block, Table, List, Crosstab, Visualization
- TEXTUAL**
- LAYOUT**
- DATA CONTAINER**
- PROMPTING**
- ADVANCED**

The interface has a toolbar at the top with icons for file operations, a search bar, and a pinned element icon. The right side features a tree view of available items and a preview area.



# Branding & Extensibility

Portal customizations to meet customers look

Upload custom corporate themes

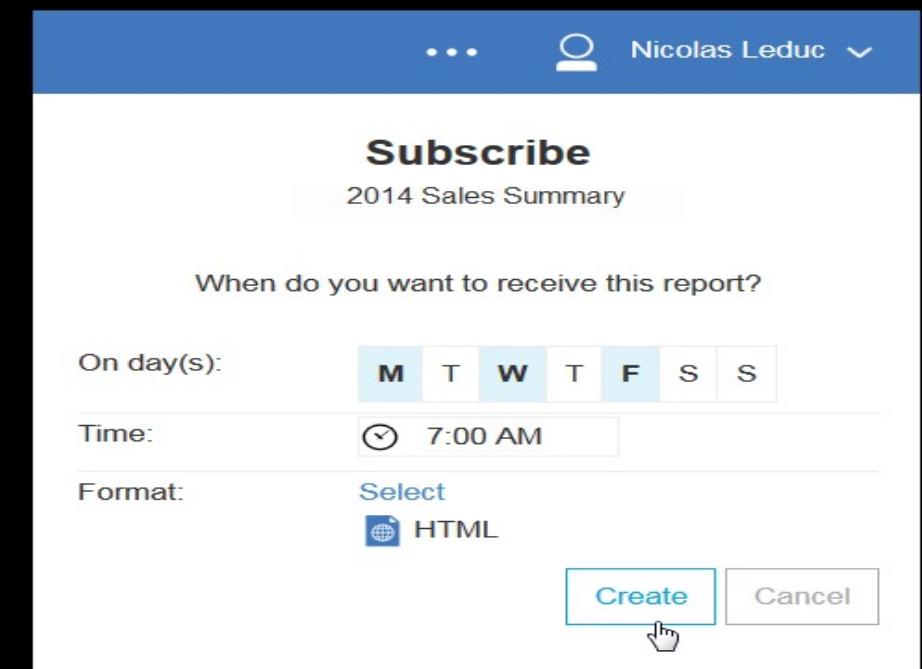
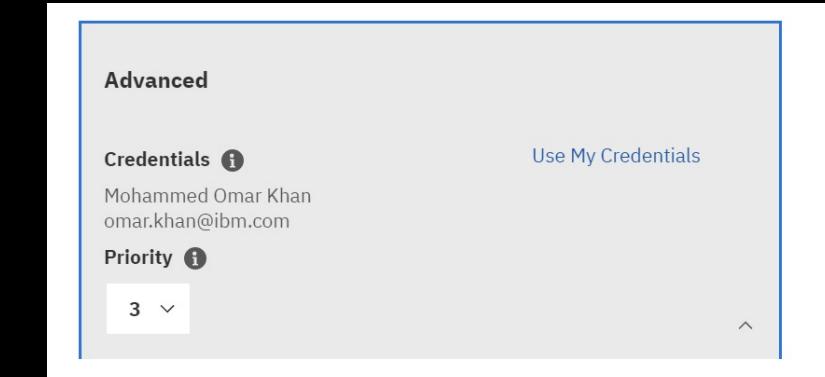
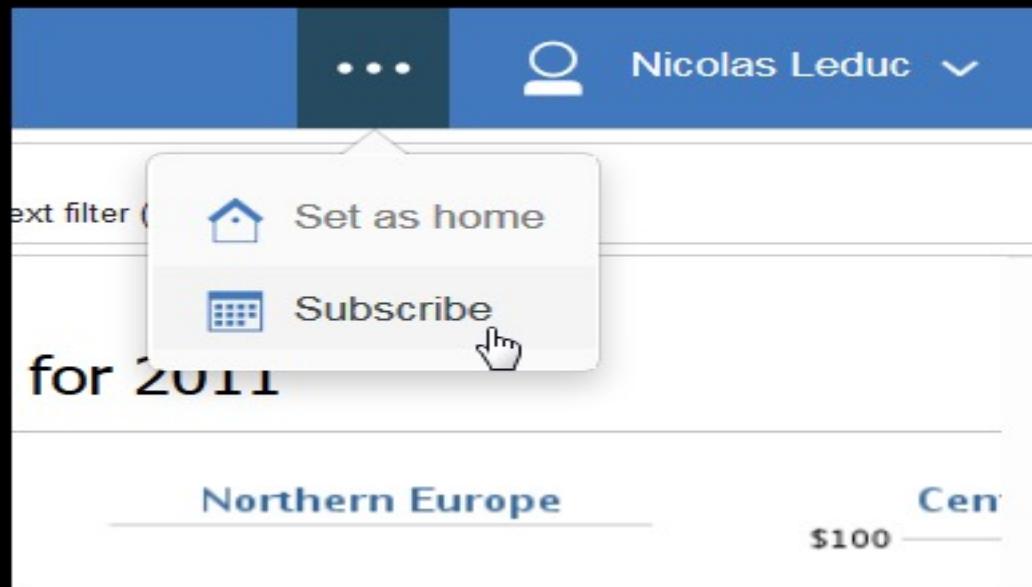
Extend the portal with custom buttons or hide existing per user





# Schedules and Subscriptions

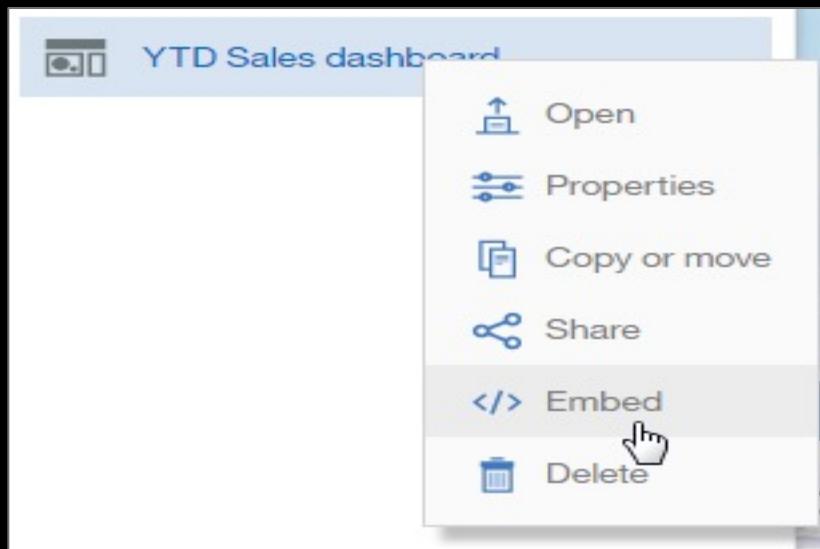
- A much simpler interface for business users and all the capabilities required by report authors - schedule creation not limited to a panel – visible in Schedule, Run As, and Jobs



# Embedding content into other portals

Place any reports or dashboards in portals or web pages

Remains interactive



A screenshot of a portal for "Great Outdoors Organization" featuring an embedded dashboard. The portal has a header with "PRODUCTS", "LOCATIONS", and "ABOUT US". Below the header, there are four categories: "CAMPING EQUIPMENT", "GOLF EQUIPMENT", "CLIMBING EQUIPMENT", and "FIRST AID", each with a brief description and a "Read More" link. The embedded dashboard is titled "YTD Sales dashboard" and includes sections for "Overview" and "Performance". It features a line chart showing revenue over three quarters, a world map with color-coded regions, and a bar chart comparing product lines. A table at the bottom provides detailed revenue data for different product types.

Product type	Revenue	Planned revenue	Goal
First Aid	846,984.93	981,985.53	86.25%
Golf Accessories	11,422,333.75	13,124,784.02	87.03%

← → ⌂ ⌂ https://dataplatform.cloud.ibm.com/home2?context=cpdaas

Most Visited Bookmarks Toolbar Pricing and licensing Mapping Viz vPlanner | CA-OM ALL COC supported softw... IBM Cognos Analytics ... Cognos Downloads CA Servers

IBM Cloud Pak for Data Upgrade A.A. KASUN ATTANAPOLA... KA

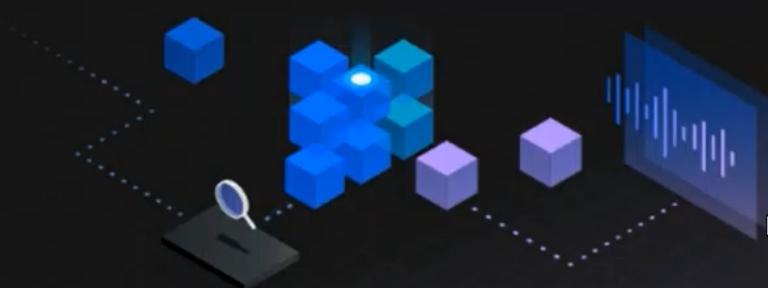
# Welcome Kasun!

Watson Studio • Try out other IBM Cloud Pak for Data apps

**Learn by example**  
Solve a specific business problem with a comprehensive tutorial in a sample project.  
[Take a guided tutorial](#)

**Start working**  
Create a project, add your team, and start preparing, analyzing, or modelling data.  
[Create a project](#)

**Add features**  
Create services with the tools, data, or other capabilities that you need.  
[Create a service](#)



Quick navigation

Projects

Support

Documentation

FAQ

What's new

SPSS-WH-CDA

## Overview

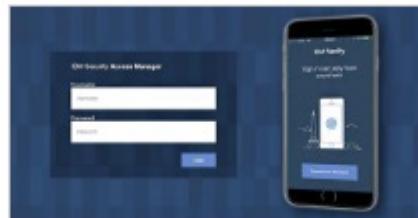
Recent projects	Notifications	Your services
WS-CA Demo Jul 10, 2020 5:38 PM AA HL	JIM BOLAND added A.A. KASUN ATTANAPOLA to new prod for testing Jul 24, 2019 10:16 AM	Watson Studio-41 Jun 22, 2020 3:17 PM Watson Studio
SPSS-WH-CDA Jul 24, 2020 4:52 PM AA HL	Watson Studio-25 Apr 12, 2019 5:29 PM Watson Studio	

# IBM Israel Events & Webinars



## Quantum Introduction

Introduction to Quantum computing and QISKit

[Replay](#)

## Remote access shield

How to secure access in remote connectivity with the functionality of IBM Security Access Manager products.

[Replay](#)

## Kubernetes Workshop

Advanced Workshop: What else can you do with Kubernetes? this session will cover the following topics: controllers, configmap, networking, helm and probes

[Replay](#)A screenshot of a Watson service interface showing a flowchart with nodes connected by arrows, and three smaller preview windows below it.

**Text Analytics**

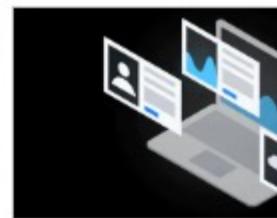
In this workshop you will learn the basics of Watson services which provides tools to analyse text and get the most from it in few lines of code.

[Replay](#)



## Blockchain Intro

Introduction to blockchain technology and solutions

[Replay](#)

## Visual Recognition

A workshop presenting Wa

Recognition at the Haifa Da

[Replay](#)

# IBM Watson®

Get started today [www.ibm.com/watson](http://www.ibm.com/watson)

# Thanks

