

# IBM Watson & Cognitive IoT

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Channel Manager – IBM Analytics

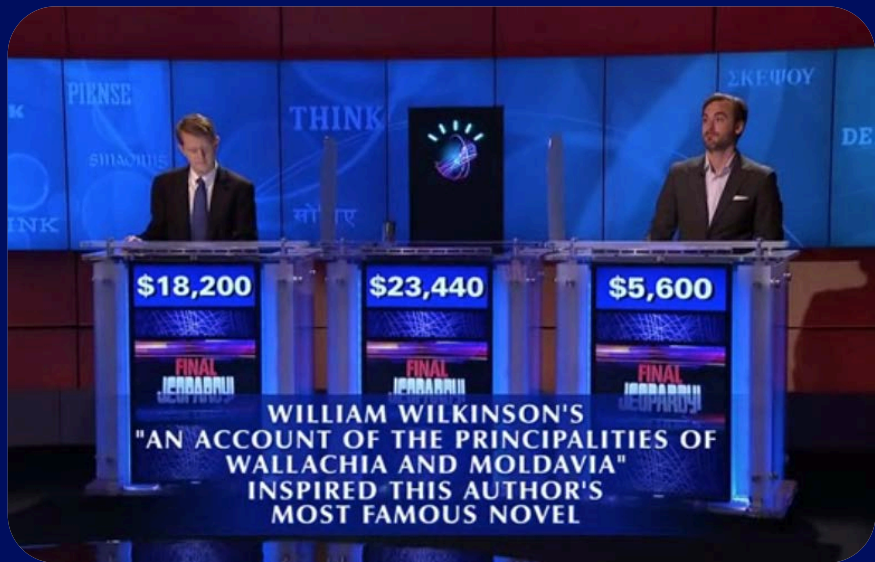
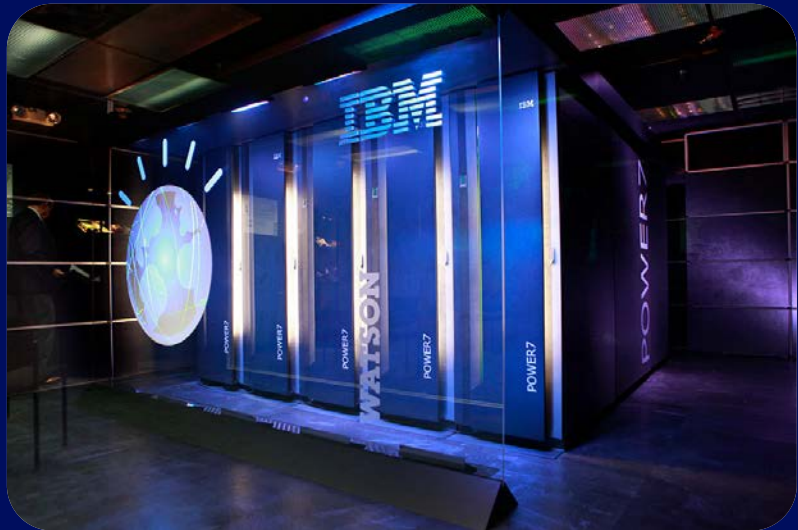
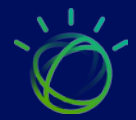


# 3 ting jeg håber I tager med fra denne præsentation

1. Et overblik over hvad Watson er og hvad Watson kan.
2. Et perspektiv på det at finde værdi i data – Dette er alftafgørende for at gøre Watson relevant.
3. Konkret inspiration som sætter de 2 ovenstående punkter i det rette perspektiv med en konkret historie baseret på det arbejde vi har påbegyndt med Vitani



# IBM Watson – da vi startede ...



# IBM Watson – I mellemtiden ...



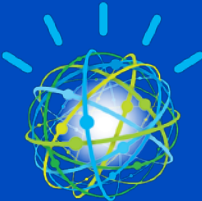
IBM Research Project  
(2006 - )



R&D




Jeopardy!  
Grand Challenge  
(Feb. 2011)



Demonstration



Watson for  
Healthcare  
(Aug. 2011)

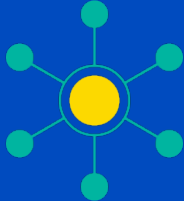


IBM Watson Health

Commercialization



Watson Industry  
Solutions  
(2012 - )



Cognitive solutions  
cross-industry

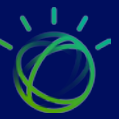


Watson  
Ecosystem  
(2014 - )



Cognitive building  
blocks to power  
solutions

# IBM Watson – 1 dag!



Applications, solutions and services

Targeted solutions for enterprise businesses



AI

Cognitive building blocks for developers



Data

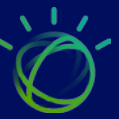
Tools to prepare data for cognitive



Cloud Infrastructure

A highly scalable, security enabled infrastructure

# Watson Data Platform



Data engineering



Data science



Business analysis



Application development

## Experiences

Task-specific, collaborative

## Data and analytics services

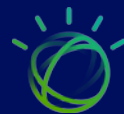
Comprehensive



**IBM Watson Data Platform**

Open — Intelligent — Hybrid

# IBM Watson – Vores eksistens er retfærdiggjort af data!



“Data is the new oil,”

**Shivon Zilis**  
*Partner, Bloomberg*

"I believe that data is the new oil. I believe that the prosperity that oil brought in the last 50 years, data will bring in the next 50, 100 years if you use it the right way,

**Ajay Banga**  
*CEO, MasterCard*

**The  
Economist**

**The world's most valuable resource is  
no longer oil, but data**

*The data economy demands a new approach to antitrust rules*





# Men det med Data kan også være svært!



“Many executives find themselves drowning in so-called Big Data, for instance, and don’t know where to start or how to proceed.”

**Leonard D’Avolio**

*Assistant Professor, Harvard*

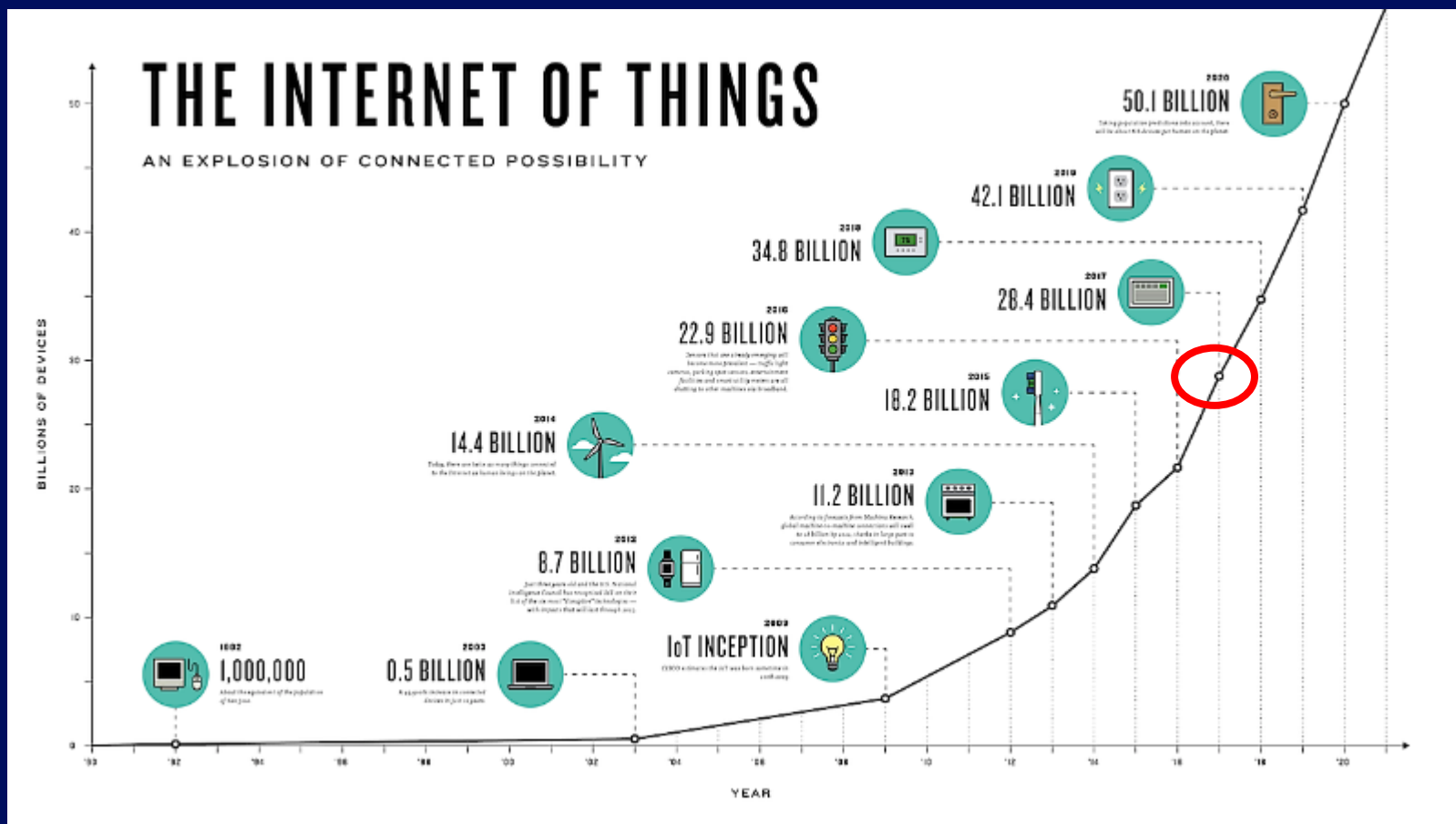


Data in the 21st Century is like oil in the 18<sup>th</sup> Century: an immensely, untapped valuable asset.

**Joris Toonders**

*Wired Magazine*

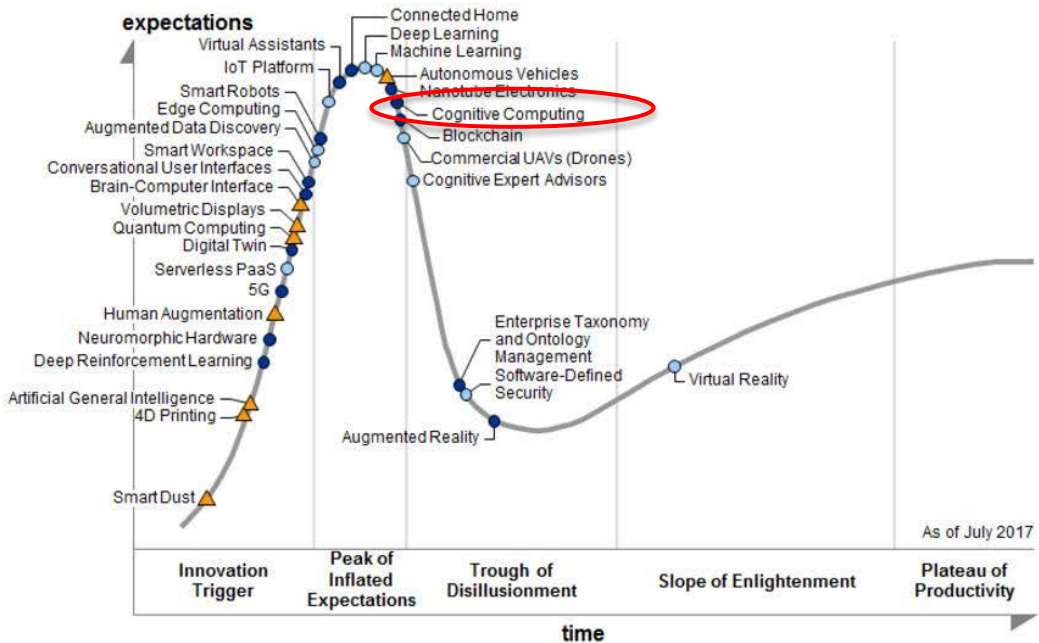
# Og det er der en rigtig go' grund til!



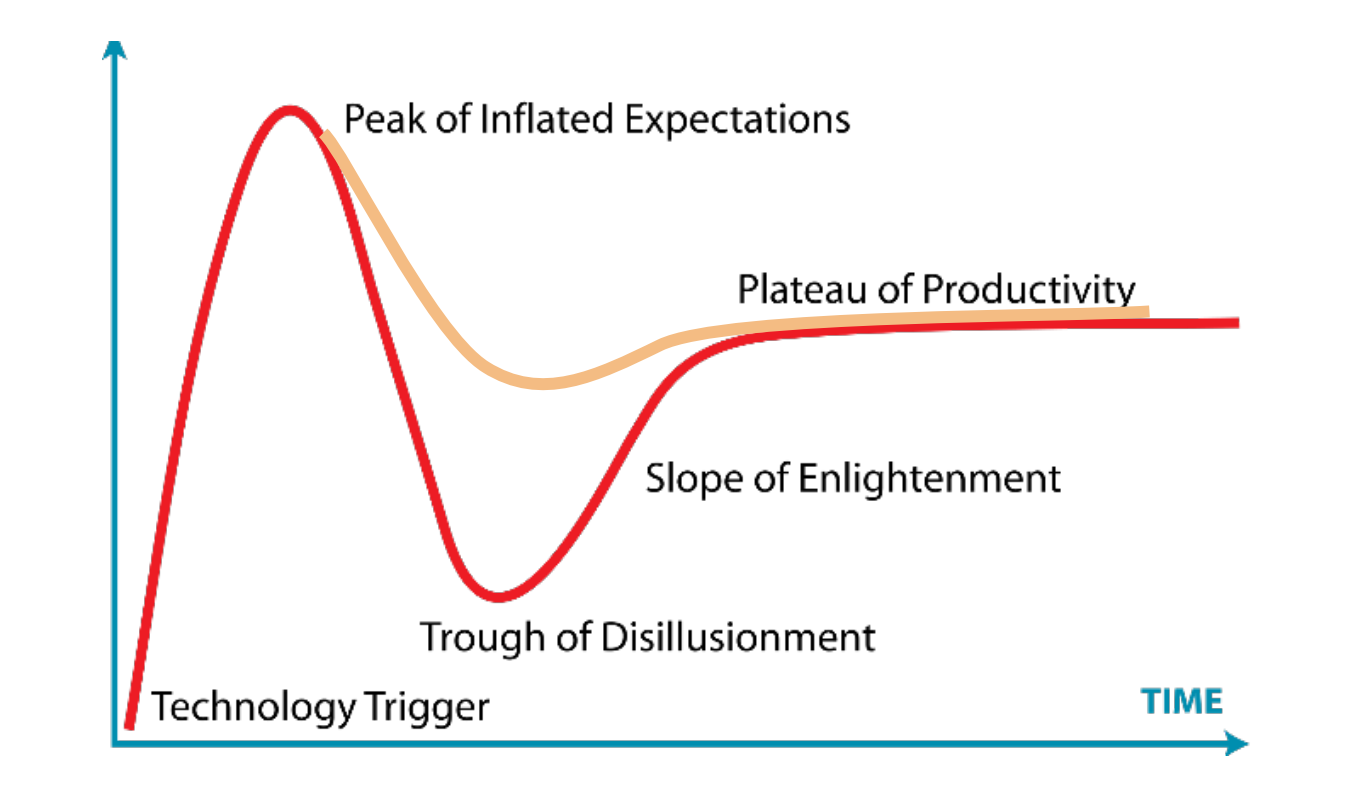
# Gartner Technology Hype Cycle



Hype Cycle for Emerging Technologies, 2017



# Gartner Technology Hype Cycle



# Vi kan heldigvis lære af tidligere erfaringer



## Opdagelse



Erkendelse af fundet af noget potentielt værdifuldt

## Data indsamling



Internt  
Eksternt  
Struktureret  
Ustruktureret

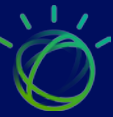
## Analyse



Machine Learning  
Cognitive Computing  
Predictive Analytics  
Prescriptive Analytics

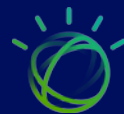


**"Information is the oil of the 21st century, and analytics is the combustion engine."**



1. Vitani råder over data. Rigtig meget data.
2. Erkendelse af at der ligger et stort potentiale, men også en uforløst kompetitiv fordel og værdi, hvis denne data er gemt væk.
3. Identifikation af de rette analytics discipliner som fundamentet for Vitani's Analytics "forbrændingsmotor".
4. Starter i det små med værktøjer som Watson Analytics. Vi udforsker data og værktøjerne hjælper os hurtigt på sporet af potentielle værdifulle datadrivere, som kan være interessante at arbejde videre i dybden med
5. Inspireret af findings i data og inspireret af erfaringer fra industrien sporer vi os ind på de rette use case.

# IBM & Vitani – En begyndende analytics rejse



## Start with data

Load a spreadsheet or connect to relational data, report data or data in a cloud storage service.



## Discover insights

Choose a recommended starting point—or type a question—and instantly get visualizations.



## Find business drivers

Ask what drives a business outcome to create a target and quickly see its top influencers.



## Display your findings

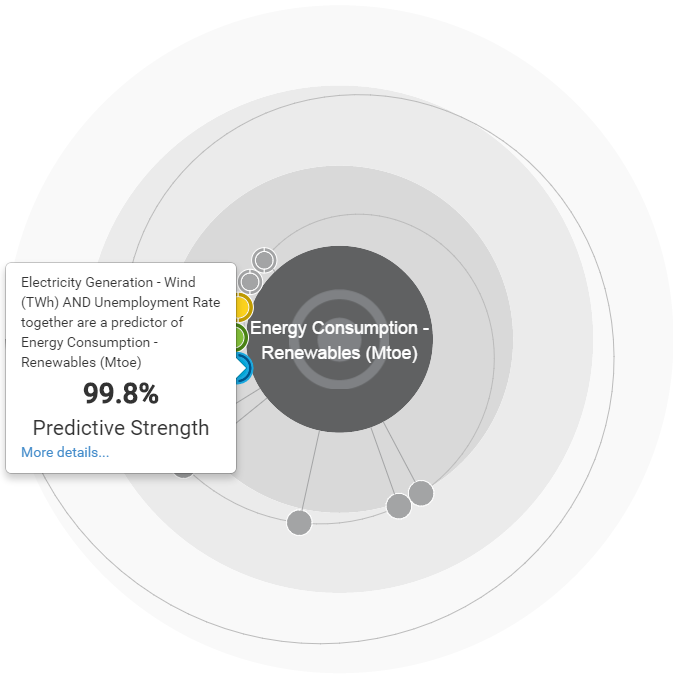
Select a template you can drag and drop data into and create a dashboard to tell your story.



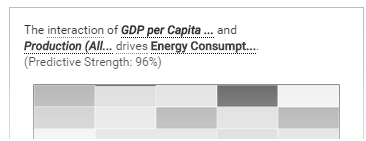
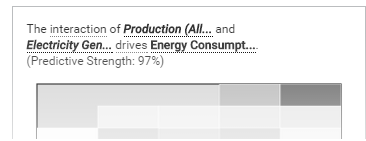
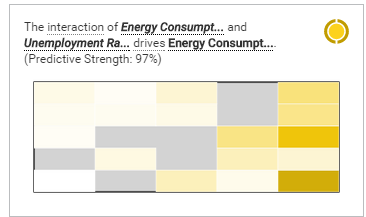
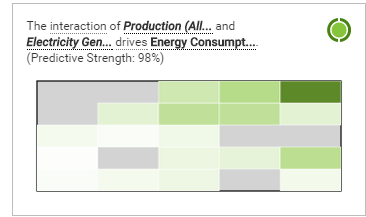
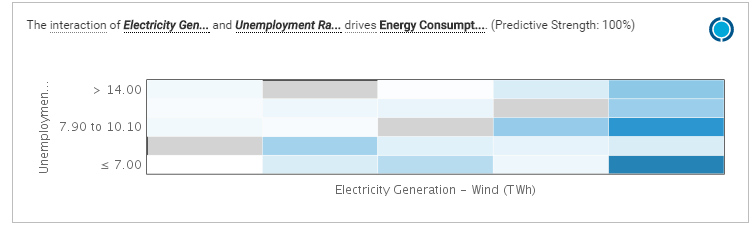
<b>TARGETS</b> This workbook has <b>3 targets</b> <a href="#">Edit</a>	<b>GOOD DATA QUALITY</b> There are 29 issues with your data, click below to learn more. <b>70</b> <a href="#">View</a>	<b>ANALYSIS DETAILS</b> 20/20 inputs were potentially useful. <b>100</b> <a href="#">View</a>	<b>TOP FIELD ASSOCIATIONS</b> 72 strong associations were found between fields. <a href="#">View</a>	Co2 Emissions (Million Ton) Predictors were found for this target. <a href="#">View</a> <a href="#">Export</a>	Electricity Generation - Renewables Predictors were found for this target. <a href="#">View</a> <a href="#">Export</a>
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## Top Predictors of Energy Consumption - Renewables (Mtoe)

- More Predictive
- Combination
  - Two Field
  - One Field
- Easier to Understand



### What influences Energy Consumption - Renewables (Mtoe)?

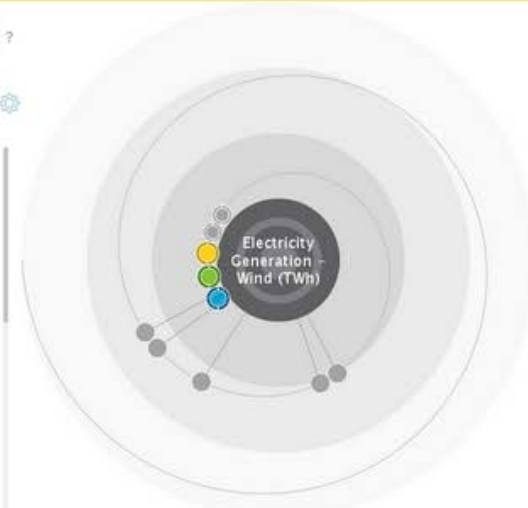
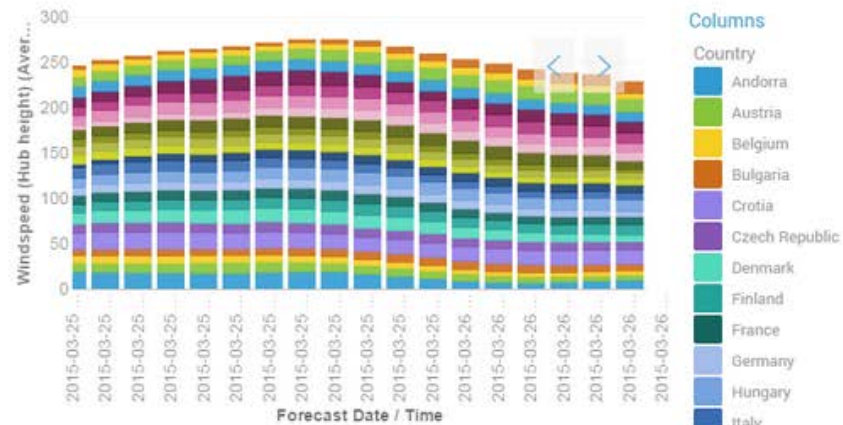




# 10-Day Forecast for Europe - Where will wind power generation be highest?



How do the values of **Windspeed (Hub height)** compare by **Forecast Date / Time** and **Country** ?



Filter by Country

- Andorra
- Austria
- Belgium
- Bulgaria
- Croatia
- Czech Republic
- Denmark
- Finland
- France
- Germany
- Hungary

7.971

Forecasted Temperature (Average)

77.481

Forecasted Humidity (Average)

26.4

Windspeed (Hub height) (Maximum)

What is the breakdown of **Windspeed (Hub height)** by **Country** ?





- BlocPower er en amerikansk start-up, der arbejder med energirådgivning.
- BlocPower hjælper små virksomheder, offentlige institutioner og bygningsejere med at identificere bygninger der er energi ineffektive.
- BlocPower bruger Internet of Things og Machine learning til at bygge en platform til skalering af grøn energi i Amerikanske byer.
- De bruger Data Science disciplinen til at give bygningsejere indsigt og de rette argumenter for at investere i bygningsopgraderinger og sænke omkostninger.
- Ved hjælp af BlocPower platformen er bygningsejere i stand til at benchmarke deres bygnings effektivitet med lignende bygninger.





# Demonstration

<https://ibmdatascience.shinyapps.io/SparkSummitDemo/#data-exploration>

<http://bloccmaps.blocpower.io/?lat=40.709094&lon=-74.008541&zoom=15.7&tilt=35.0&rotation=0.0>



# Tak!

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