

# Power Platform World Tour

PowerBIUG PowerAppsUG FlowUG



# Data Analytics a su máxima expression con PowerBI, Cognitive Services y AI

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BI Big Data Lead Architect & Global BI Manager @  
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Future Data Mining PhD

[www.sqlpass.es](http://www.sqlpass.es) , SQLSaturday Madrid/Barcelona  
founder

Speaker: PASS BA Chicago, SQLSaturdays,  
Codemotions, TechDays, Sharepoint Conferences...



Ex Microsoft Data Platform MVP (Reconnect)

Mentor and Technical advisor at SolidQ

Master Big Data And Analytics

[www.sqlpass.es](http://www.sqlpass.es) , SQLSaturday Madrid/Barcelona co-  
founder

Speaker: SQLSaturdays, TechDays, Universities, ...

# Objetivo

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Llevarte 1000 ideas para trastear en casa



Desmitificar la Inteligencia Artificial y ver lo sencilla que es en PowerBI

# Agenda

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De 0 a 100 en PowerBI



Un paso más allá



Nuevos visuales: Key Influencers Vs R-Studio



Powerbi y Automated ML



# De 0 a 100 en PowerBI

A large audience is seated in a conference hall, facing a stage with presentation screens. The room is modern with a high ceiling and large windows. The audience is diverse in age and appearance, and many are looking towards the stage. The stage features two large projection screens displaying content, and a person is visible standing near the screens. The overall atmosphere is professional and focused on learning.

“Without data you’re just another person with an opinion.”

W.Edwards Deming

# Ecosistema de PowerBI

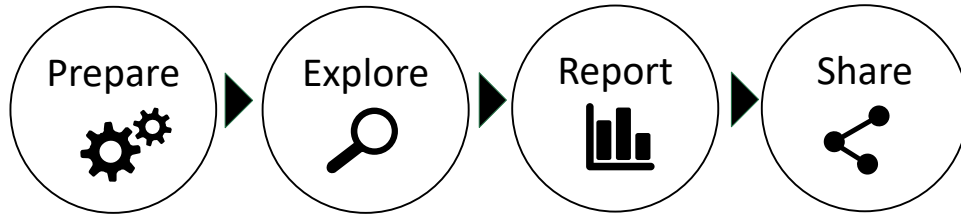


Power BI Desktop  
(Free Client 32/64 bits)

+



Power BI Service [www.PowerBI.com](https://www.PowerBI.com)  
(Free & Pro)



Content packs



Live dashboards



Visualizations



Reports

01001  
10101

Datasets



Data refresh



Natural language query



Sharing & collaboration



Power BI REST APIs

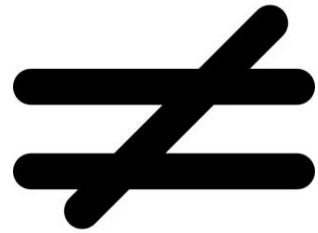
```
{  
  "name": {String},  
  "tables": [  
    ...  
  ]  
}
```

Power BI Apps





Herramienta  
de usuarios  
de negocio



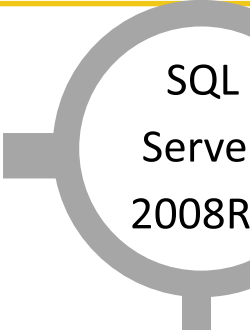
Sin potencia

# DEMO: Poder con control

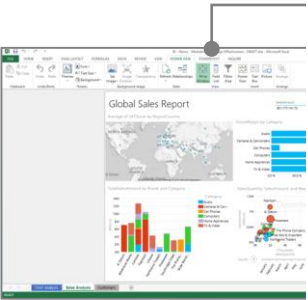




Está



Power Pivot a  
Excel 2010



Power Platform  
World T

FORRESTER RESEARCH

THE FORRESTER WAVE™

Enterprise BI Platforms (Vendor-Managed)

Q3 2019



151235

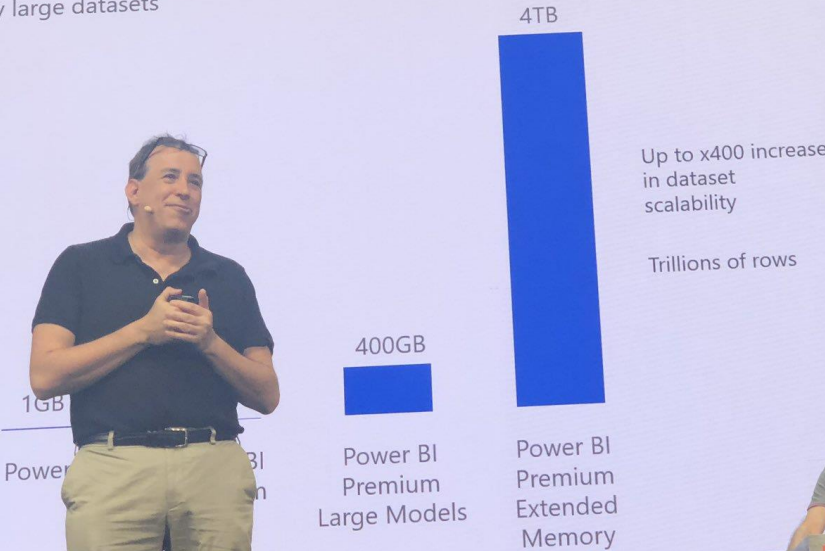
Source: Forrester Research, Inc. Unauthorized reproduction is prohibited.

The Forrester Wave™: Enterprise BI Platforms (Vendor-Managed)

THOUSANDS OF ROWS IN THE DATASETS  
I THINK

Enterprise Semantic Models

Extremely large datasets



# Guardate estos Tips (PowerBI)

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Data Model

Power Pivot / Analysis Services  
Tabular

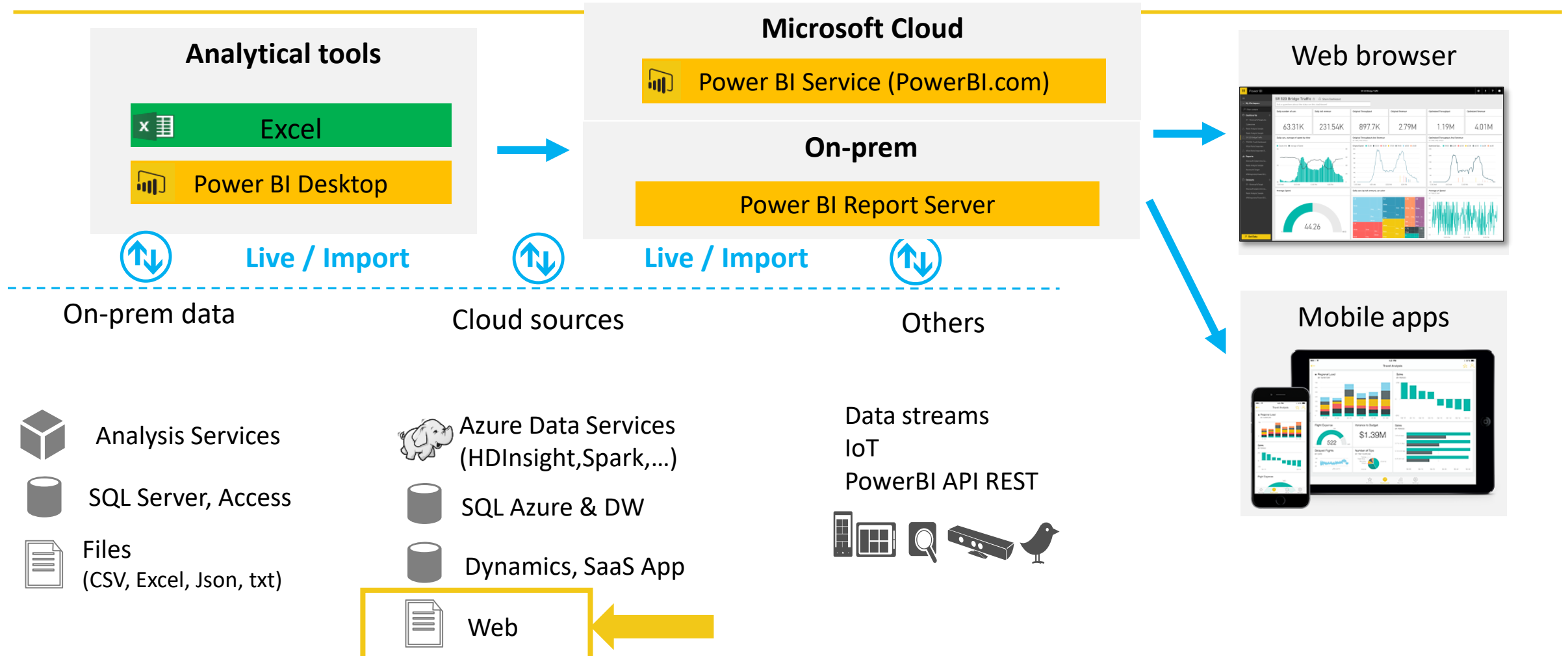
DAX Language

Data transformation

Power Query  
M Language

Power BI from 0 to 100

# Trabajando con PowerBI





# DEMO: Trabajando con APIs





## Top 3 goal scorers

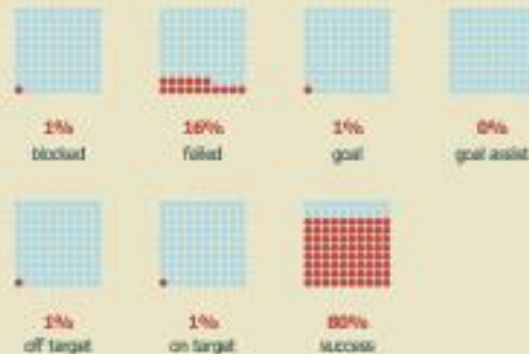
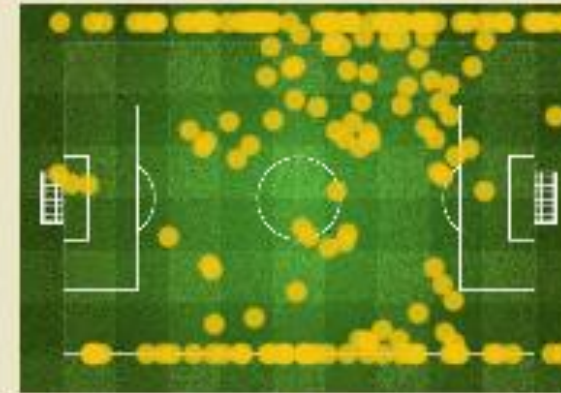
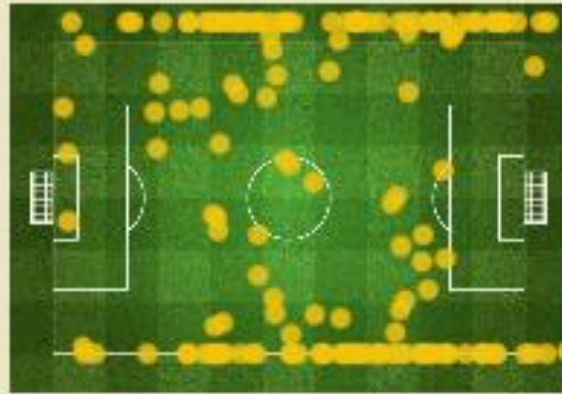
## Real Madrid

## FC Barcelona

## Top 3 goal scorers



VS



2013\_14 2014\_15 2015\_16

### Passes/shots

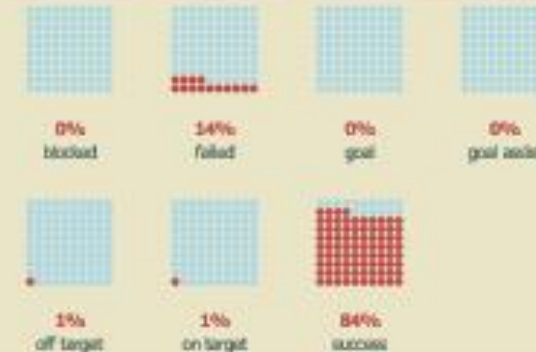
- ☐ blocked
- ☐ failed
- ☐ goal
- ☐ goal assist
- ☐ off target
- ☐ on target
- ☐ success

### Home team

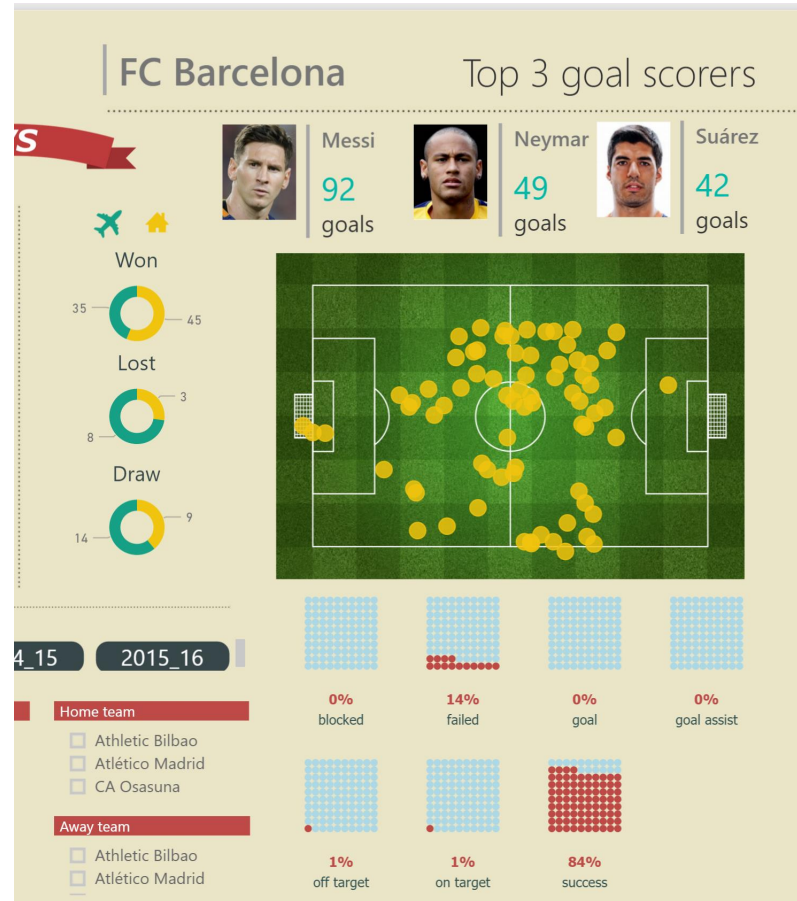
- ☐ Athletic Bilbao
- ☐ Atlético Madrid
- ☐ CA Osasuna

### Away team

- ☐ Athletic Bilbao
- ☐ Atlético Madrid



# Think different.



# Think different.





# Think different.



# Un paso más allá

A large audience is seated in a modern conference hall, facing a stage. The room has a high ceiling with recessed lighting and large windows on the right side. Two large projection screens are visible on the stage, displaying presentation content. The audience is diverse in age and appearance, and many are looking towards the stage.

# Sin límites

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## Visualizaciones

Official, R Visuals, [visuals.powerbi.com](https://visuals.powerbi.com), Custom

## Integración

Export to CSV, Import from Excel, Pin to Excel, SSRS,

## Lenguajes

M, DAX, R, Source transformations.



# Personal branding



**Ruben Pertusa Lopez**  
@rpertusa  
BI BigData Architect; Microsoft SQL Server

Tweets	Following	Followers	Likes	Lists	Moments
1,406	452	1,152	772	3	1

**Tweets**   **Tweets & replies**   **Media**

📌 Pinned Tweet

 **Ruben Pertusa Lopez** @rpertusa · 16 Mar 2016  
Aquí podéis ver el [#PowerBI](#) dashboard del webcast de ayer

# Beneficios de tu Personal Branding

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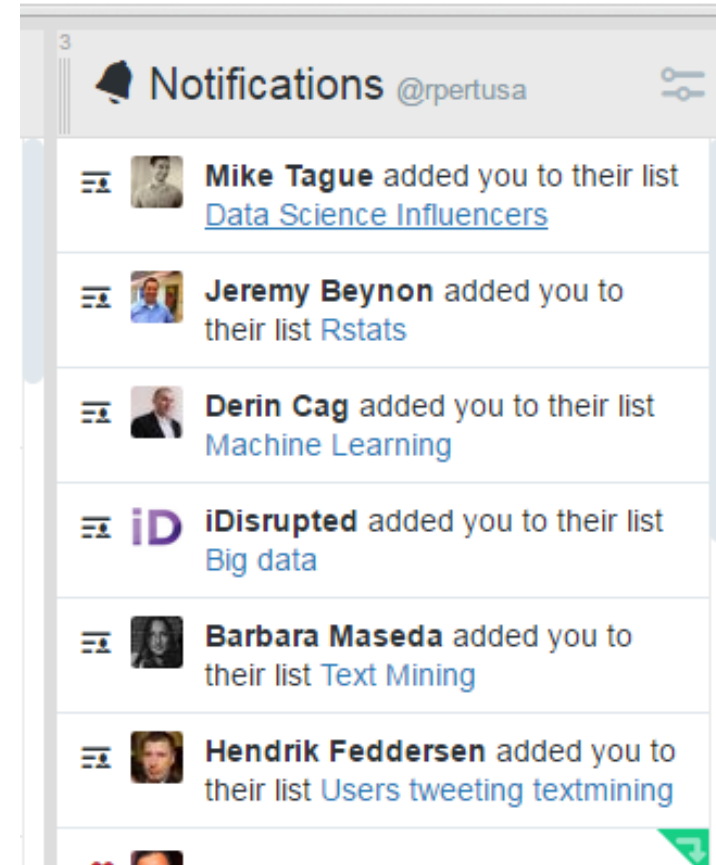
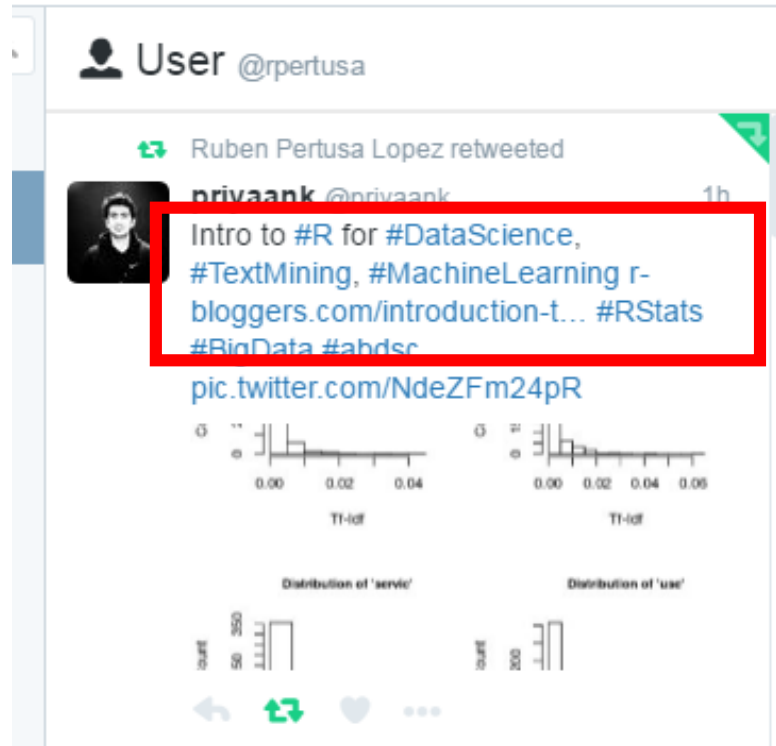
Conexión directa con tu audiencia objetivo

Credibilidad

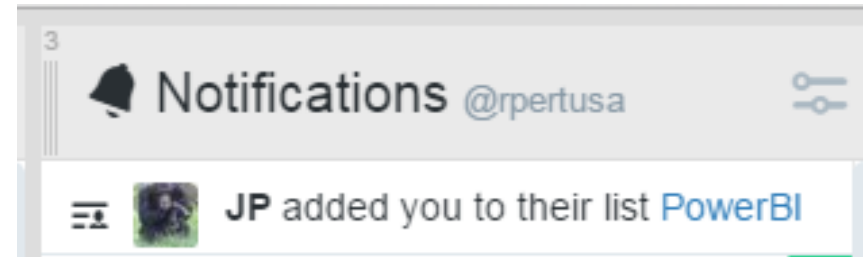
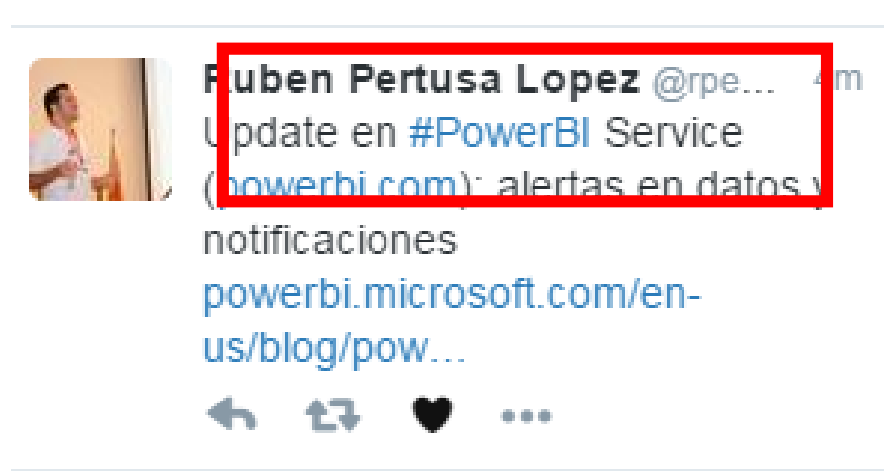
Exposición pública

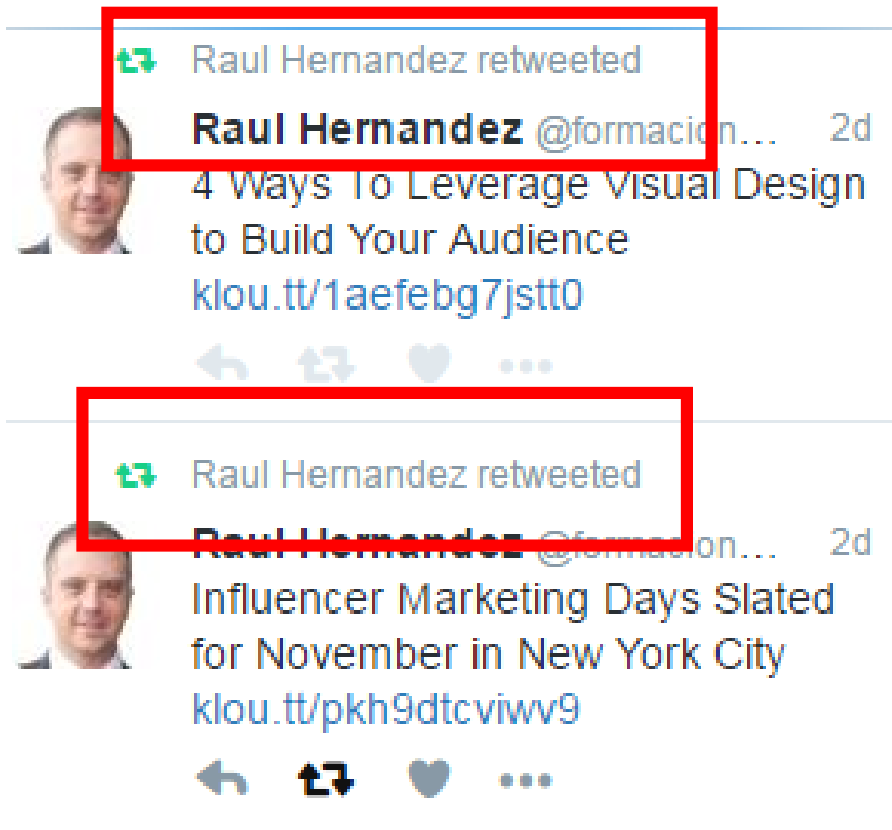
Marcar la diferencia entre tú y tu “competencia”

# Hay alguien ahí?



# Hay alguien ahí?







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DEMO: Mejorando

**PERSONAL  
BRANDING**





# Nuevos visuales: Key Influencers Vs R-Studio



Data Scientists



Analistas



Todos los usuarios

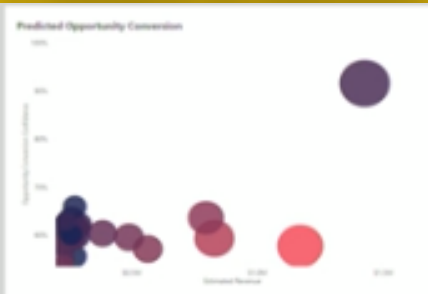
### Extender con Azure ML



### Integración con R



### Integrar en informes



### Integración con Python



### Crear Modelos de ML



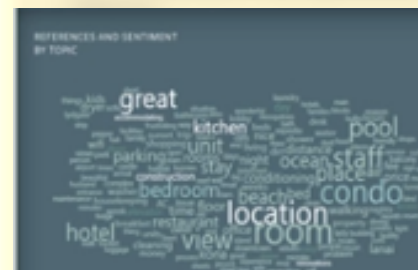
### Explorar Predicciones



### Analisis de sentimiento

Score	Title
0.75	Great room, loved the pool and view.
0.00	Disappointing.
0.79	Will be returning to Grand Kallua again!
0.94	Nice Condo, excellent location in Kona, HI
0.03	Outdated, dirty unit in good location.
0.06	Fabulous place - have ever stayed
0.04	condition of room - VERY DISAPPOINTING!!!
0.71	Nice hotel that is walking distance to everything
0.89	Reasonable beach condo - well located
0.88	Great location for ocean sunset views
0.97	Nice hotel on the beach
0.78	Best location in Kailua home.
0.88	SCAM! DID NOT STAY HERE!
0.80	Nice hotel close to the beach. Spectacular livingrooms
0.12	Avoid at all cost
0.84	Absent location, also excellent facilities

### Extraccion de palabras clave



### Visualizaciones de AI



### Lenguaje Natural



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# DEMO: Inteligencia Artificial





# En resumen

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1000 ideas para trastear en casa **¡Esperamos!**



No hace falta tener un master es estadística para entender y usar las herramientas  
**Visión de la IA desde el punto de vista de la ingeniería**

# No puede faltar en vuestra librería personal

