

Microsoft Power BI

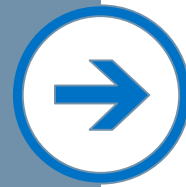
Alireza Mohammadi
Sahar Nafisi
Data Mining presentation
Supervisor: Dr. Vahidipour



The opportunity
is bigger than
you may think

\$1.6T

data dividend available
to businesses that embrace data
over the next four years



How?



@
speed

Power BI: experience your data

Any data, any way, anywhere

MICROSOFT CLOUD

Microsoft Azure Office 365
Microsoft Dynamics

Stream Analytics

NON-MICROSOFT CLOUD

Acumatica Marketo salesforce GitHub
COMSCORE Intuit QuickBooks twilio

Machine Learning

Statistical Analysis

ON-PREMISE DATA

Hadoop SAP Microsoft SQL Server
ORACLE TERADATA IBM

Intelligent Apps

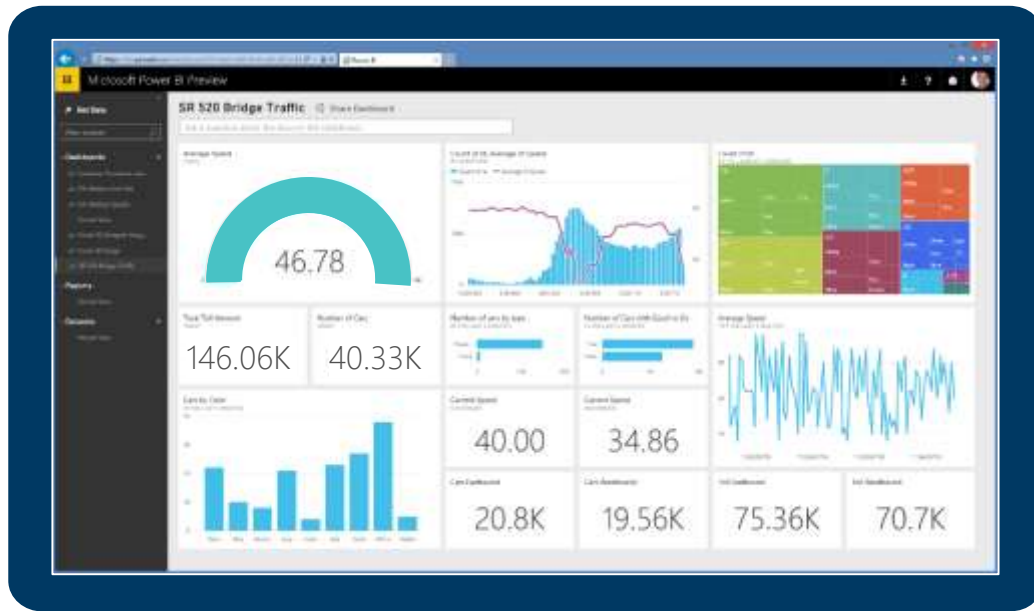
INTELLIGENCE



45,000
organizations
500,000
unique users
185
countries

See all your data in a single pane of glass

Live dashboards and interactive reports



- ➔ Monitor live dashboards for the data that matters most
- ➔ Track your data in real-time with support for streaming data
- ➔ Drill through to underlying reports to explore and discover new insight
- ➔ Pin new visualizations to monitor performance

Stay connected from any device



- ➔ Native apps for iPad, iPhone, and Windows devices
- ➔ Receive alerts to important changes in your data
- ➔ Share and collaborate with colleagues and take action



Windows



iOS



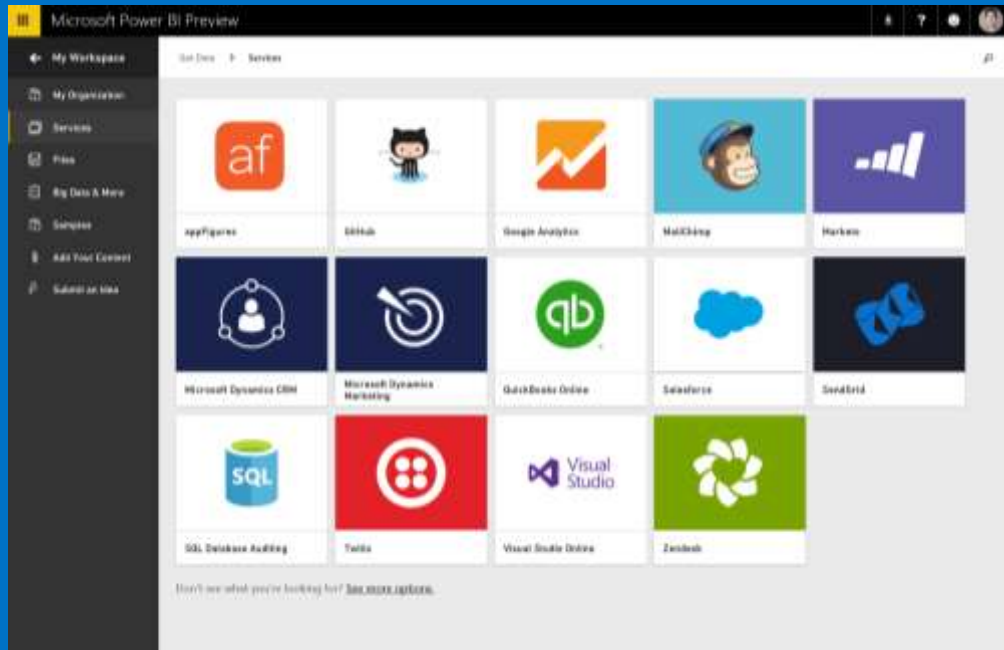
Android



HTML5

Power BI Content Packs

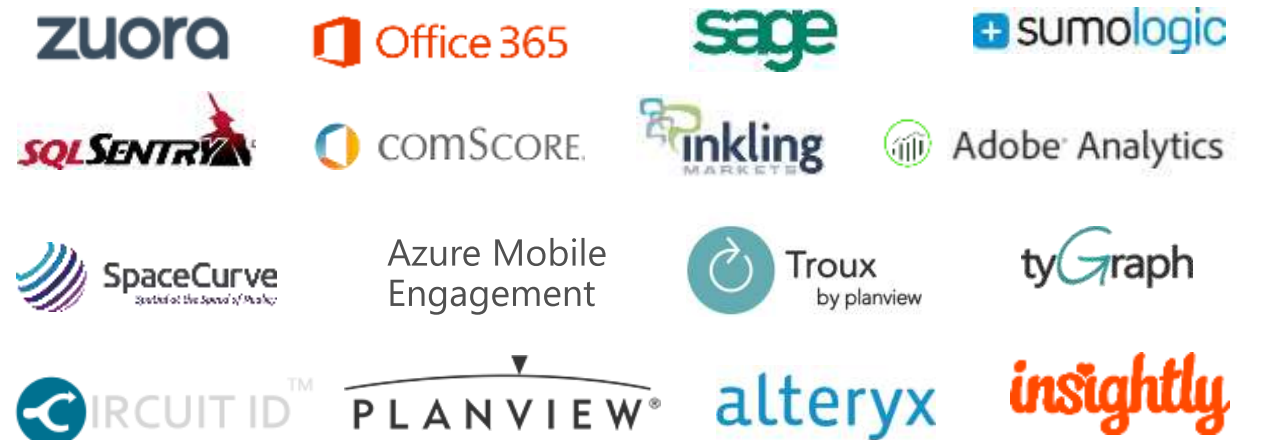
Prebuilt Power BI experience for your service



TODAY



COMING SOON



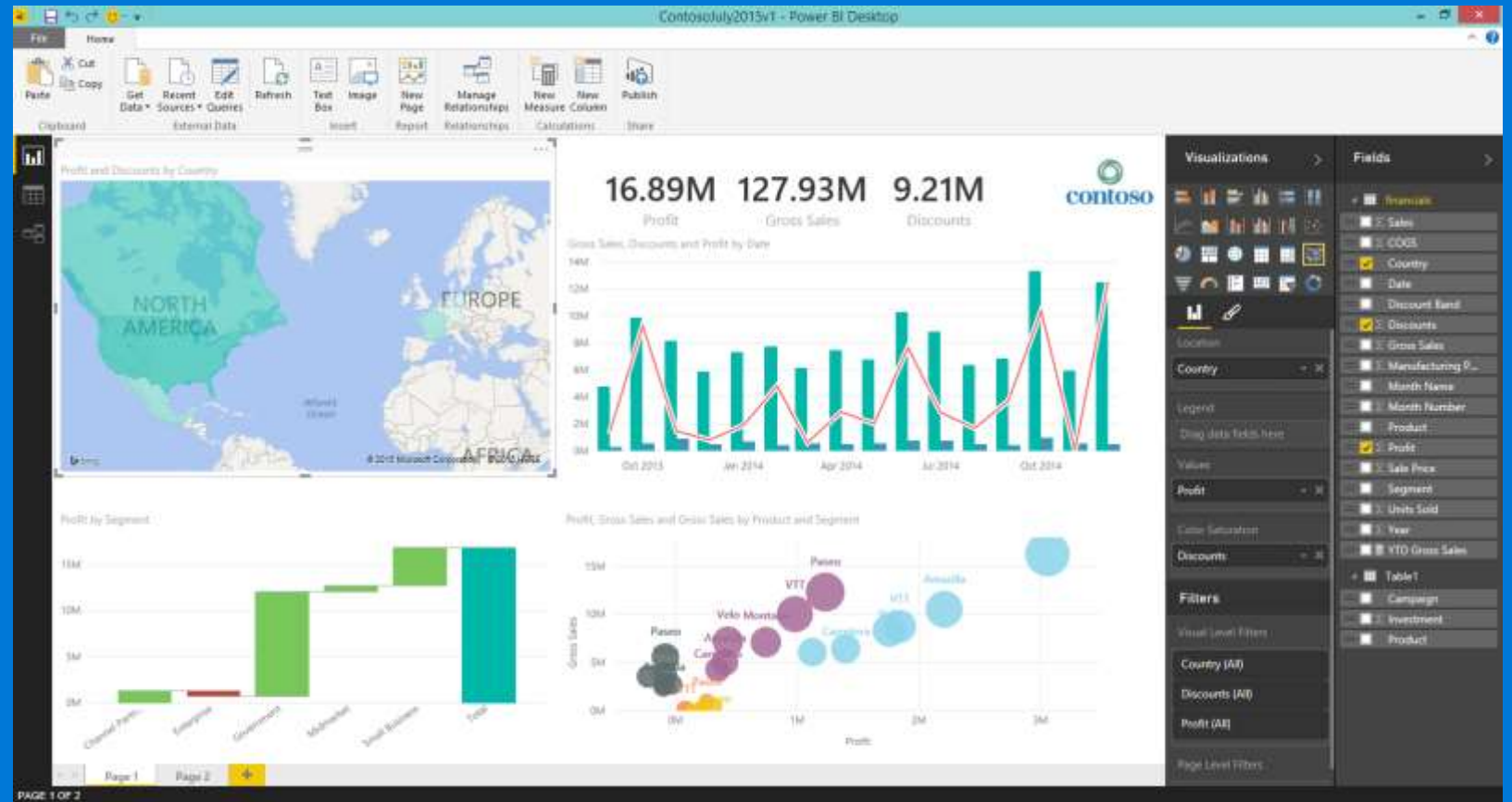


Create Power BI content

Visual data exploration & interactive reporting

Desktop tool for data exploration and interactive reporting

Freeform drag and drop canvas



Connect live to your data

Live Query & Scheduled Data Refresh

Live Power BI reports
& dashboards



Live
Query



SQL Server
Analysis Services

Scheduled
Refresh



Data Source



Deploy quickly with a hybrid BI solution



Manage and secure data on-premises with SQL Server Analysis Services

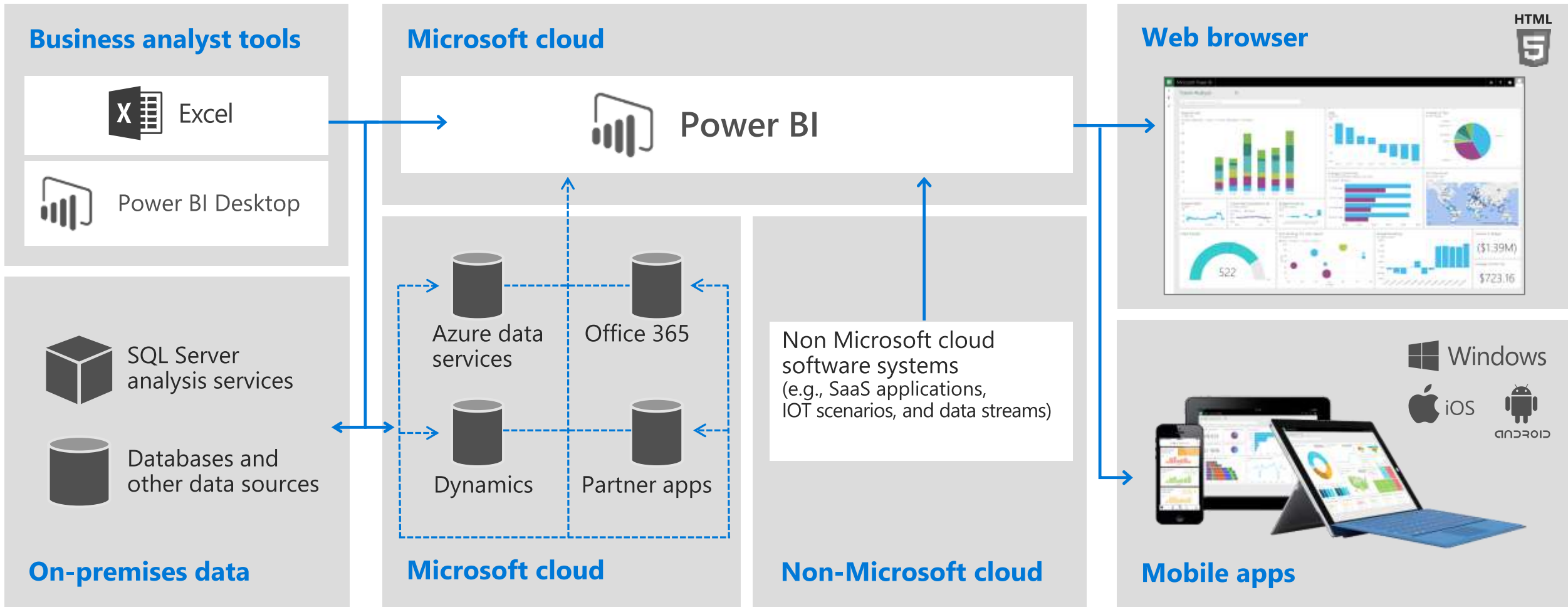


Optimized query performance for interactive data exploration



Scheduled refresh from on-premises data sources

Power BI overview



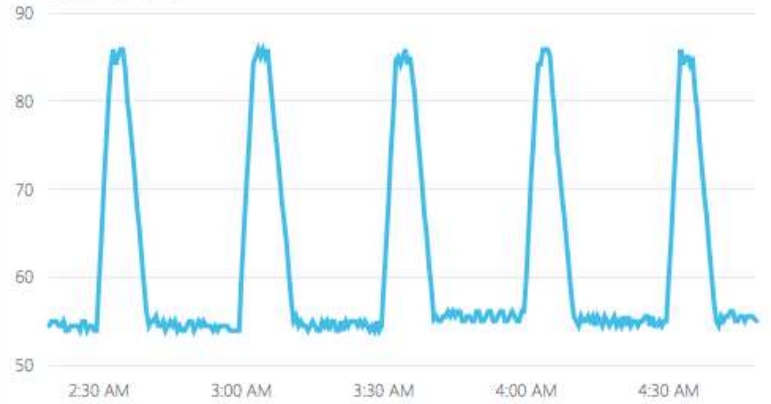
Monterey Water Share Dashboard

Ask a question about the data on this dashboard

Plant Power (kW) - Submeters @ 30 sec.
BY START_DATETIME2, METER_NAME2



Influent Pond %
BY START_DATETIME2



Mains Power (kW) - @ 30 sec.

start_datet_	start_time2	value_kw_
5/1/2015	11:49:30	605.51
5/1/2015	11:48:30	504.06
5/1/2015	11:47:30	385.42
5/1/2015	11:46:30	294.17
5/1/2015	11:45:30	544.65

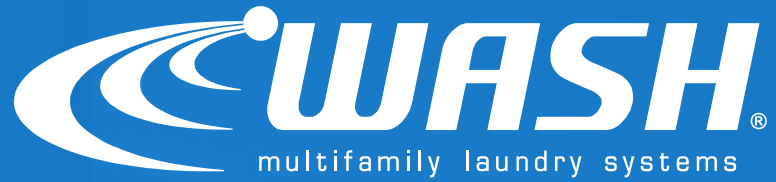
Monterey Regional Water Pollution Control Agency
Marina, California



California
Data-driven irrigation with
Azure Stream Analytics
and Power BI eases water
distribution in California.

Analytics Log

full_message	start_datetime2	start_time2	value_kw_	production_kwh	meter_name2
11:33:30-INTERVENTION: Discretionary loads coming back online	5/1/2015	11:33:30			
11:32:30-Notice: Restoring normal activity	5/1/2015	11:32:30			
11:32:30-Notice: Pond load at normal level	5/1/2015	11:32:30			
11:32:30-Notice: Extra pump coming online	5/1/2015	11:32:30			
11:11:30-INTERVENTION: Discretionary loads coming back online	5/1/2015	11:11:30			
11:10:00-Notice: Restoring normal activity	5/1/2015	11:10:00			
11:10:00-Notice: Pond load at normal level	5/1/2015	11:10:00			
11:10:00-Notice: Extra pump coming online	5/1/2015	11:10:00			
11:03:30->INTERVENTION: New Pump turned ON to handle Pond Overload	5/1/2015	11:03:30			
11:02:30->Notice: Starting new Pump to handle load	5/1/2015	11:02:30			
11:02:30->Notice: Detected Overloading Influent Pond	5/1/2015	11:02:30			
11:02:30->INTERVENTION: Turning OFF discretionary loads to accomodate new pump	5/1/2015	11:02:30			



Using Power BI to combine and analyzing service data, revenue data, and macro-economic data to drive 3x increase in revenue.



MediaCom

“Power BI will fundamentally change the way we manage campaign performance.”

Lowell Simpson
CIO



Metro Bank

“We go live with mobile banking, and in less than a week we have a full business intelligence suite to track it. It’s pretty cool. Power BI was instrumental in this.”

Bruce Rioch

Head of Business Information
and Customer Systems



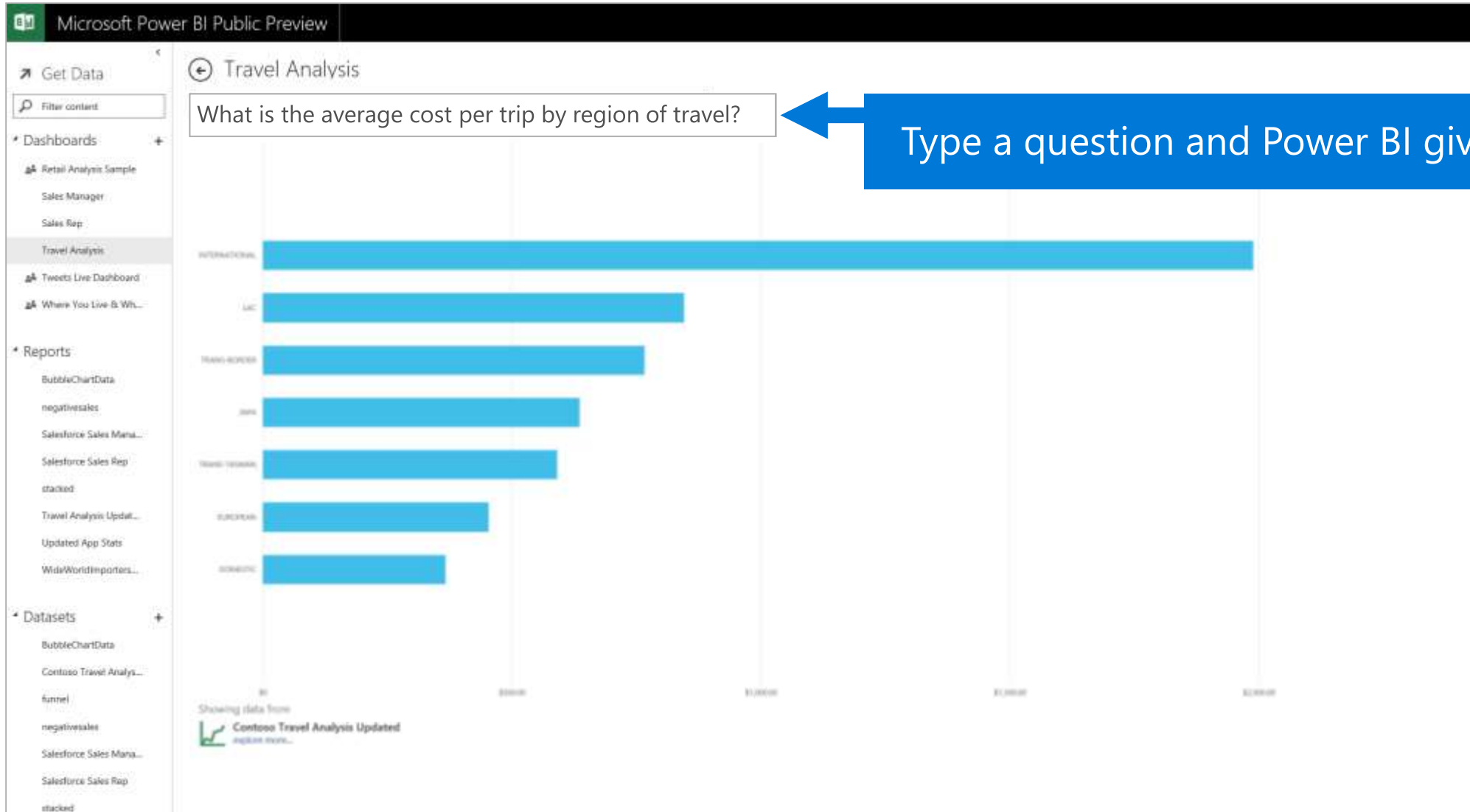
A modern office interior with large glass windows overlooking a city building. The office is furnished with a conference table and several black office chairs. The ceiling features recessed lighting. The text is overlaid on a yellow rectangular background.

It's easy to get started...

PowerBI.com

Ask questions of your data

Natural Language Query



Type a question and Power BI gives you the answer