


# 10 **ways** to empower your BI strategy with **Power BI**

The background of the slide is a stylized, low-poly cityscape. The buildings are rendered in various shades of green and blue, with a bright sun or light source in the center, creating a lens flare effect. The sky is a light, hazy blue, and there are a few white birds flying in the distance. The overall aesthetic is clean and modern.

Teo Lachev, Prologika  
[teo.lachev@prologika.com](mailto:teo.lachev@prologika.com)  
@tlachev

# Agenda

- Emphasize the value of Power BI
    - Organizational BI
    - Self-service BI
    - Cloud vs. on-premises
    - External reporting
    - ... and much more
  - Share best practices from my consulting practice
  - I welcome questions during and after presentation
- 

# About Teo



- Consultant, author, and mentor with focus on BI
- CEO of Prologika – BI consulting and training company based in Atlanta ([prologika.com](http://prologika.com))
  - Microsoft Gold Partner in Analytics
  - Power BI Red Carpet Partner
- Microsoft Data Platform MVP since 2004
- Founder and leader of Atlanta MS BI and Power BI Group ([atlantabi.pass.org](http://atlantabi.pass.org))



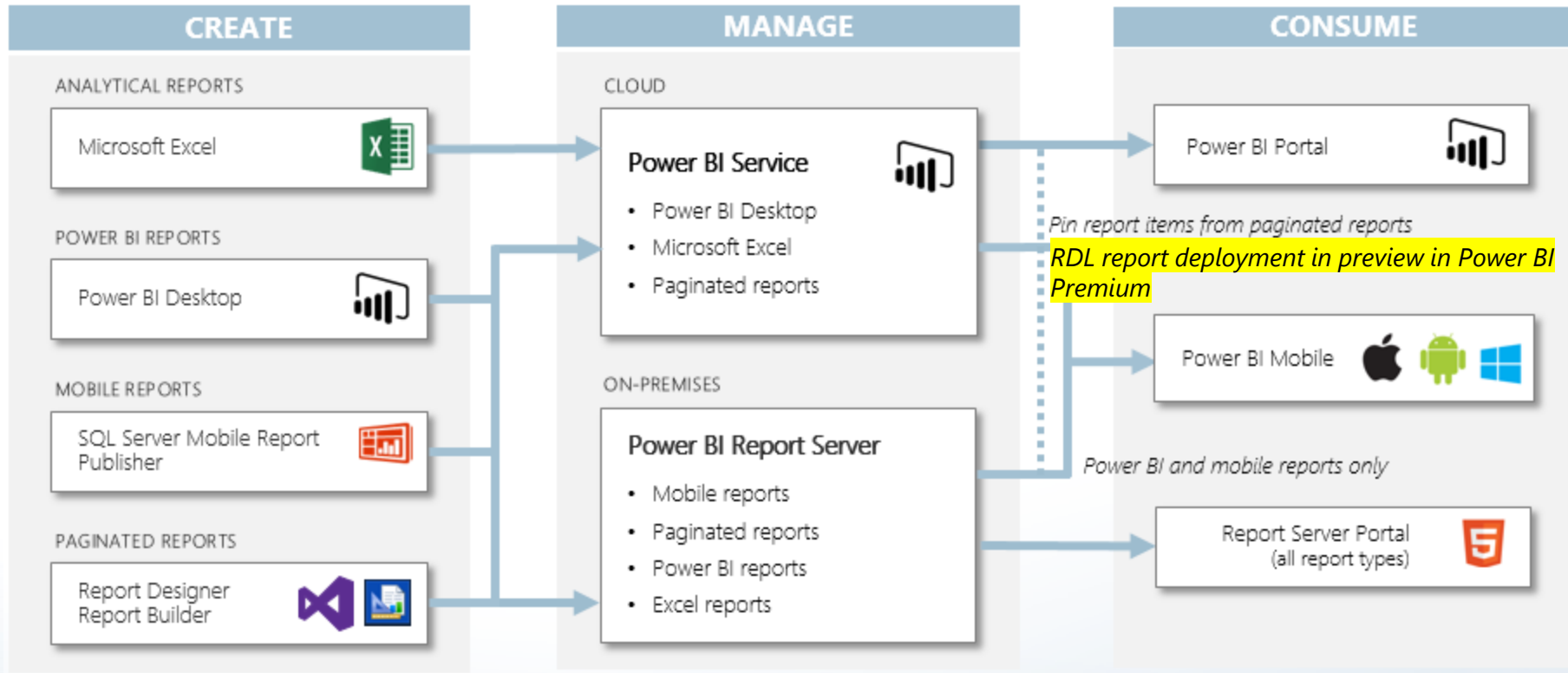
# What's Power BI?



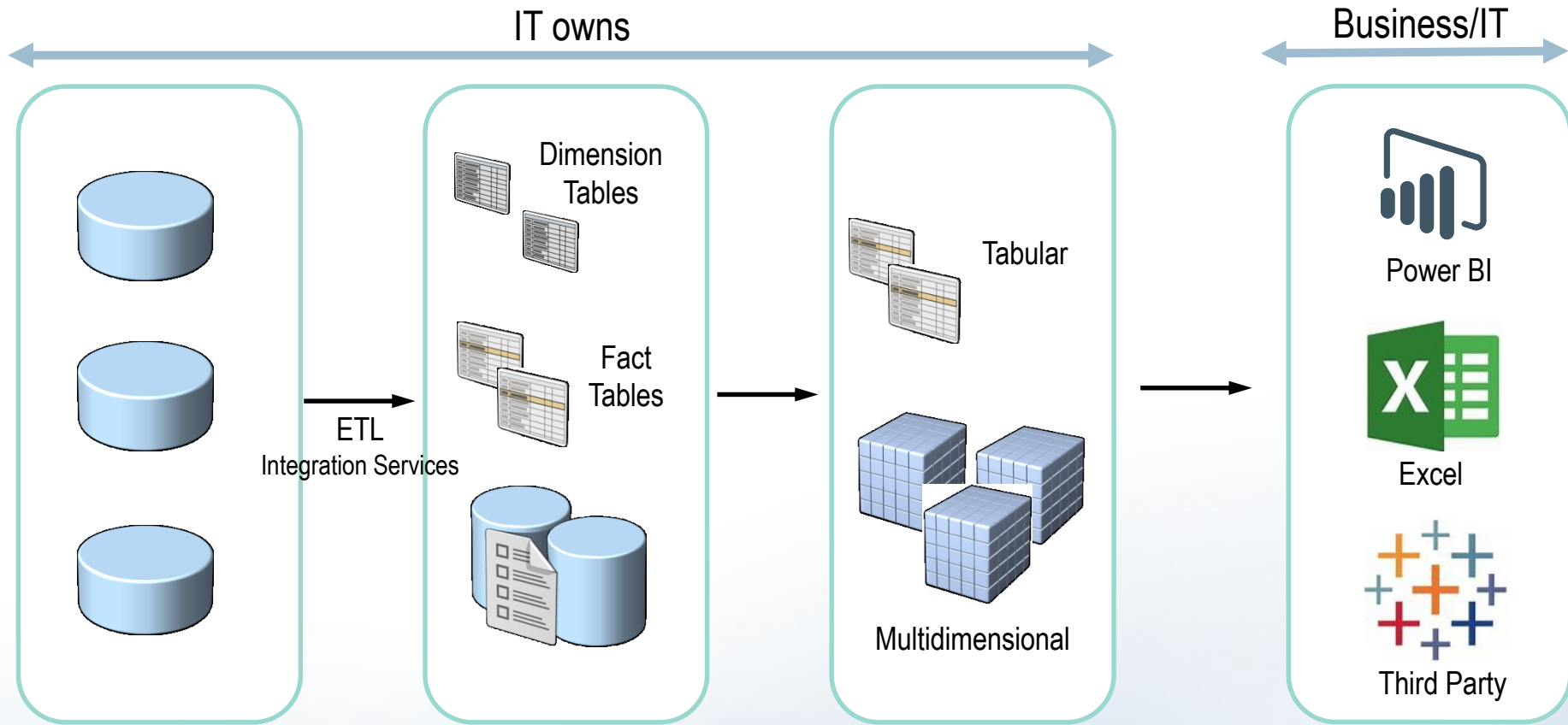
al products  
data models and reports  
freemium service  
ce environment  
d, and Windows devices  
embed Power BI reports in apps  
ports to on-premises server



# Deployment Options



# Presentation Layer for Organizational BI 1



## Main benefits

- |  |   |  |  |
|--|---|--|--|
| <ul style="list-style-type: none"> <li>• Improve user satisfaction with attractive and fast reports</li> <li>• Data is extracted from data sources, transformed, and loaded into DW</li> </ul> | <ul style="list-style-type: none"> <li>• Achieve single version of truth</li> <li>• Data is stored in dimensional schema consisting of dimension and fact tables</li> </ul> | <ul style="list-style-type: none"> <li>• Great performance</li> <li>• Business calculations</li> <li>• Reduced reporting effort</li> <li>• Security</li> <li>• Descriptive &amp; predictive analytics</li> </ul> | <ul style="list-style-type: none"> <li>• Dashboards</li> <li>• Ad hoc reporting</li> </ul> |
|--|---|--|--|

## Cautions:

- Not all Power BI features supported
- Power BI can connect to only one model

# Promote **Best** Self-service BI

2

- Option 1: Ad hoc reports from semantic layer
  - Pros: Single version of truth, consolidated view, security
  - Cons: IT can't keep up, data is not the DW/semantic layer
- Option 2: "Pure" self-service BI
  - Pros: Agility, mash up data from everywhere
  - Cons: "pbimarts", who do you trust?, skills, governance



Although every company is different, in general I recommend **80/20** split between organizational and "pure" self-service BI

# Empower Power Users

## Best platform for pure self-service BI

- Import and mashup data from **everywhere**
- Create **sophisticated** data models
- Cleanse and transform data
- Implement business calculations



# Deploy to Cloud (powerbi.com)

- Consider cloud deployment when
  - You want to avoid on-premises infrastructure
  - You need all Power BI features
  - Prefer “by user” or “by capacity” pricing ([powerbi.com/pricing](https://powerbi.com/pricing))
  - Hybrid architecture

Author	Share and collaborate	Scale large deployments
<p>Power BI Desktop</p> <p>Free</p> <p><a href="#">DOWNLOAD FREE &gt;</a></p>	<p>Power BI Pro</p> <p>\$9.99</p> <p>per user per month</p> <p><a href="#">TRY FREE &gt;</a></p>	<p>Power BI Premium</p> <p>Capacity pricing</p> <p>per node per month</p> <p><a href="#">PLAN YOUR COSTS &gt;</a></p>

# Deploy to on-premises Report Server

- Consider on-premises deployment when
  - You want to implement an on-premises report portal
  - You need most popular MS report types (RDL, Power BI, Excel)

Feature	Power BI	Power BI Report Server
Power BI Reports	Yes	Yes
Excel online reports connected to semantic layer	No	Yes (requires integration with Office Online Server)
Traditional SSRS (RDL) reports	<ul style="list-style-type: none"><li>• RDL report deployment in preview for Power BI Premium</li><li>• Report items pinned to dashboards</li></ul>	Yes
Server-side report edit and creation	Yes	No
Power BI Q&A	Power BI Service and Desktop	No
Power BI Quick Insights	Yes	No
Power BI subscriptions and alerts	Yes	No (RDL reports have their own subscriptions)
Power BI Dashboards	Yes	No (use dashboard-looking reports)
XMLA endpoint	Yes (Power BI Premium)	No
Mobile access	Yes	Yes
New features release cycle	Every month	Every 4 months
Security	Workspaces and groups	SSRS Windows security based on user identity

# Empower Business Users with Basic BI

6

- Users can create reports directly in Power BI Service (powerbi.com)
- Users can access data and reports with apps
- Natural questions with Q&A
- Viewers don't need license with Power BI Premium
  - Dashboard and report sharing
  - Distribution via apps

# Access Reports Everywhere

- Power BI reports are accessible on any modern browser
- Power BI Mobile for optimized mobile viewing
  - iOS (download Power BI app from AppStore)
  - Android (download Power BI app from Google Play)
  - Windows (download Power BI app from Microsoft Store)

# Apply Predictive Analytics and Natural Interfaces

- Predictive analytics
  - Automated Machine Learning and Integration with Azure ML/Cognitive Services
  - Key influencers
  - Quick Insights
  - Explain Increase/Decrease in Power BI Desktop
- Other predictive features
  - Clustering
  - Time series forecasting
  - R and Python scripts
- Natural interfaces
  - Q&A in Power BI Service and Power BI Desktop
  - Data narratives and story telling

# Share Reports with External B2B/B2C Partners 9

- Share reports and dashboards in Power BI Service
  - Three licensing options
    - External user brings Power BI Pro license
    - Your organization provides Power BI Pro license
    - No separate license required if your org is on Power BI Premium
- Embed reports in custom apps (recommended)
  - Power BI Premium or Azure licensing plans (start at \$700 month)
  - Feature parity with Power BI Service
    - View reports (Q&A supported)
    - Edit reports
    - Create new reports

# Build Integrated Solutions

- Flexible integration scenarios
- Power Platform
  - Power Apps and Flow
- Descriptive analytics
  - Azure SQL, Azure SQL DW, Azure Analysis Services
  - Integrate with PowerApps and Flow
- Predictive analytics
  - R scripts
  - Azure Machine Learning (cloud)
  - SQL Server Machine Learning Services (on premises)
  - Spark
- Real-time analytics
  - Live connections to RDBMS
  - Power BI Push API
  - Azure StreamInsight integration

# Summary

- Power BI has so much to offer
- Plan for it and use it – why not, most of it is free!
- Stay in touch
  - Email: [teo.lachev@prologika.com](mailto:teo.lachev@prologika.com)
  - Blog: [prologika.com/blog](http://prologika.com/blog)
  - Training: [prologika.com/training](http://prologika.com/training)
  - Books: [prologika.com/books/](http://prologika.com/books/)