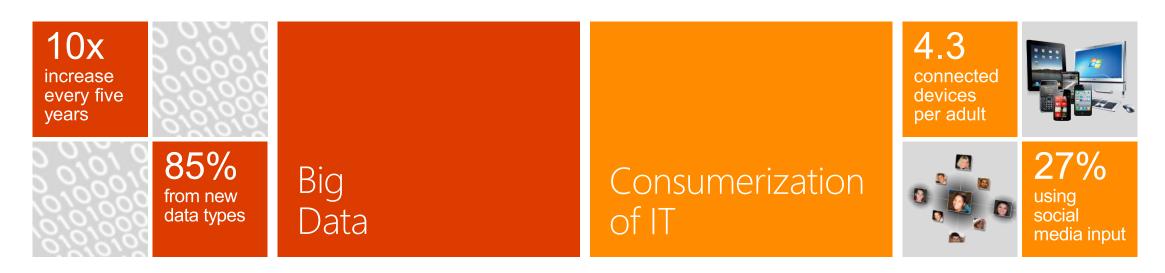


# The world of data is changing



"By 2015, organizations that build a modern information management system will outperform their peers financially by 20 percent."

- Gartner, Mark Beyer., "Information Management in the 21st Century"



#### The NFP sector is increasingly under pressure to do more with less

There is a pressing need for the NFP sector to do things differently. Government is changing the way they work with the sector. Corporates and philanthropic trusts are also changing the way the work with NFPs. Supporters increasingly want to understand how their contributions make a difference. Digital technologies help NFPs respond to these changes. They can drive productivity, improve efficiency and service delivery effectiveness, allowing organisations to adapt and respond to these changes.

#### Government

#### Government is looking for ways to reduce spending

Governments want new models which devolve greater responsibility to the NFP sector and reduce traditional levels of funding. They also increasingly require demonstrable outcomes from funding commitments.

This creates pressure on NFPs to become more efficient, competitive and sophisticated in measuring impact and outcomes.

#### **Funding**

#### Traditional sources of funding are shifting

Corporates now more commonly seek alignment between their operations and social outcomes. Further, crowd sourcing through social media has made it easier to establish a social enterprise.

NFPs who rely on traditional forms of funding are under threat at multiple levels. There is an increased need for NFPs to demonstrate alignment to corporate goals, as well as reinvent themselves to decrease dependence on traditional funding sources.

#### Supporter engagemen

#### Supporters increasingly want to see the impact of their investment

The public now expects far more information about the project the funding is being sought for and will actively engage through social media to do this. Social media is growing as a key factor in supporter engagement strategies, particularly as today's youth become the principal source of public investment for NFPs.

NFPs are under pressure to maintain engagement with supporters to drive ongoing investment, and must harness the power of social media.

#### The need for overall efficiency drives the urgency for effective use of data and digital technologies

Historically NFPs have under-invested in digital technologies, with spending usually directed towards frontline service delivery. Without the right technology to drive supporter engagement, enable staff to deliver services efficiently, measure client and community outcomes and communicate success in a professional manner, organisations will be unable to compete.



# Most NFPs don't have good information at their fingertips

Analysis of our non-profit tech survey (Feb 2018, 385 respondents) showed:

- » 50% of organisations reported their system aren't capable of capturing information about client outcomes
- y 49% of organisations reported they can't easily get the information and reports from their systems they require to inform planning, improvement and reporting
- » 45% of organisations reported that they don't understand the outcomes they achieve over time and how they vary by client circumstances and situation



## Data analytics and insights



 Year

 2011
 2012
 2013
 2014
 2015
 2016

Total Cases **539** 

Services
Total #
12979
Avg #
24
Total Hrs
9451
Avg Hrs

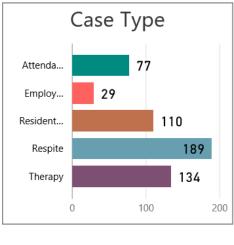
17.54

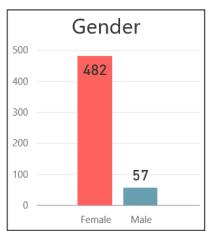
Travel Hrs

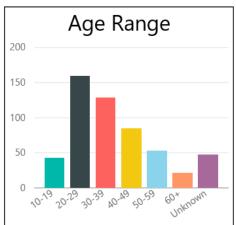
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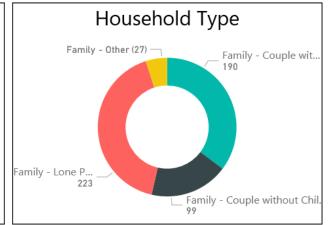
Avg Travel

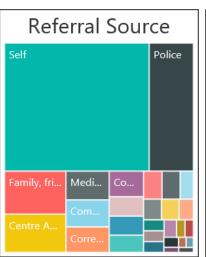
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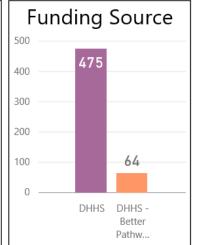


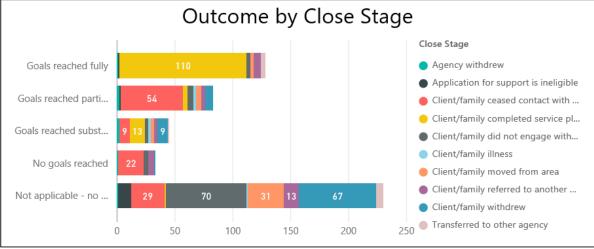










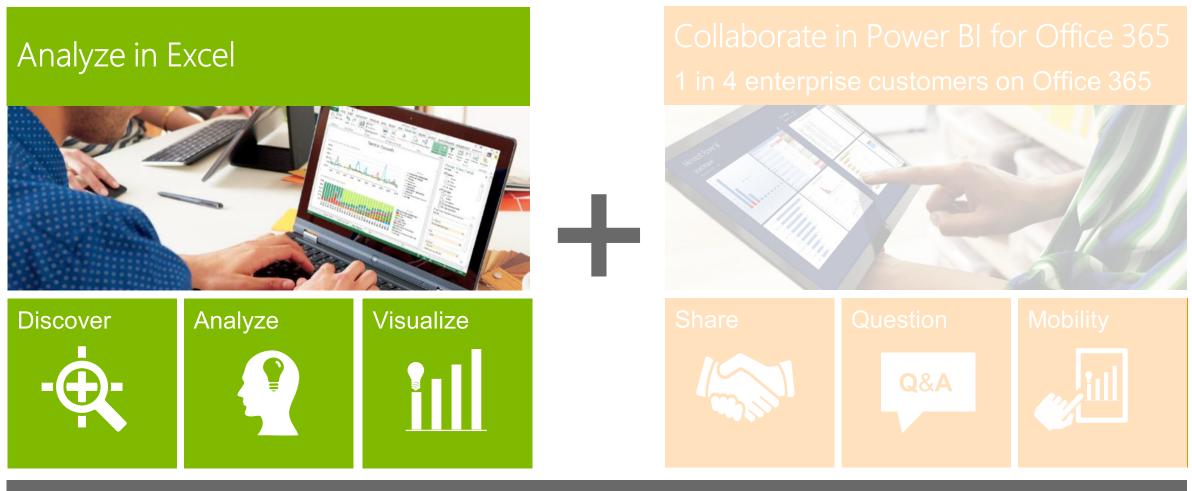




# Power Bl

# A powerful new way to work with data

Self-service business intelligence and analytics with Excel and the power of the cloud



Scalable | Manageable | Trusted

# A powerful new way to work with data

Self-service business intelligence with familiar Excel and the power of the cloud



Scalable | Manageable | Trusted

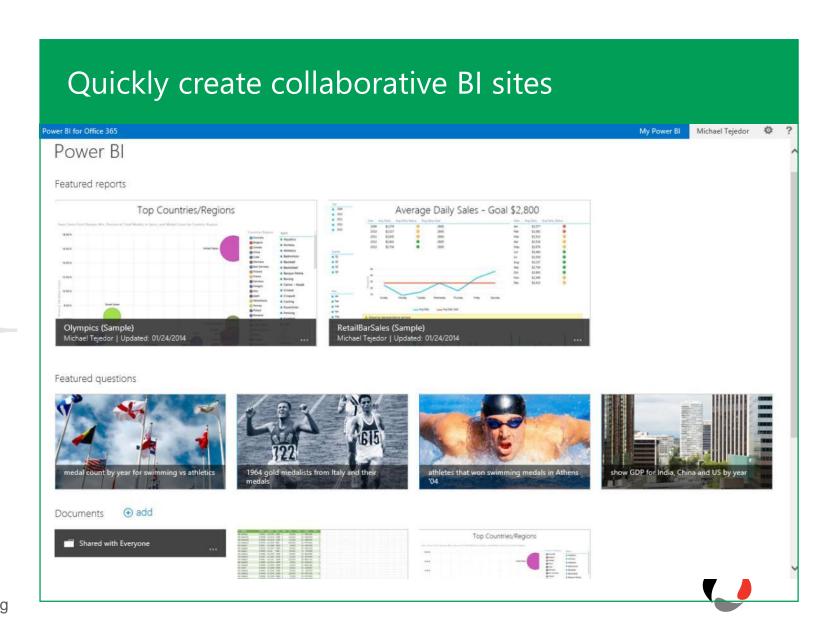




Data Refresh

Data Search

Mobile Access





BI Sites



Shared Queries



Data Refresh

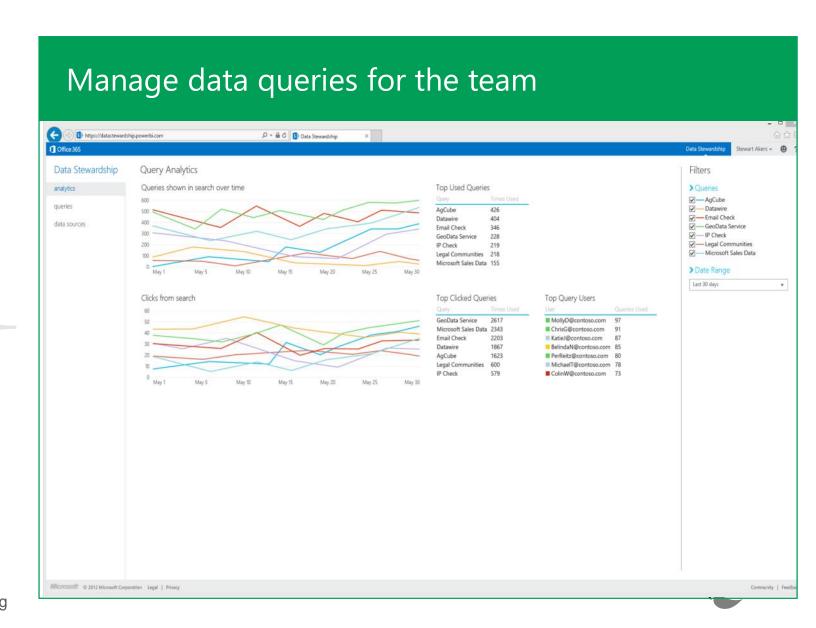


Data Search



Mobile Access







BI Sites



Shared Queries



Data Refresh

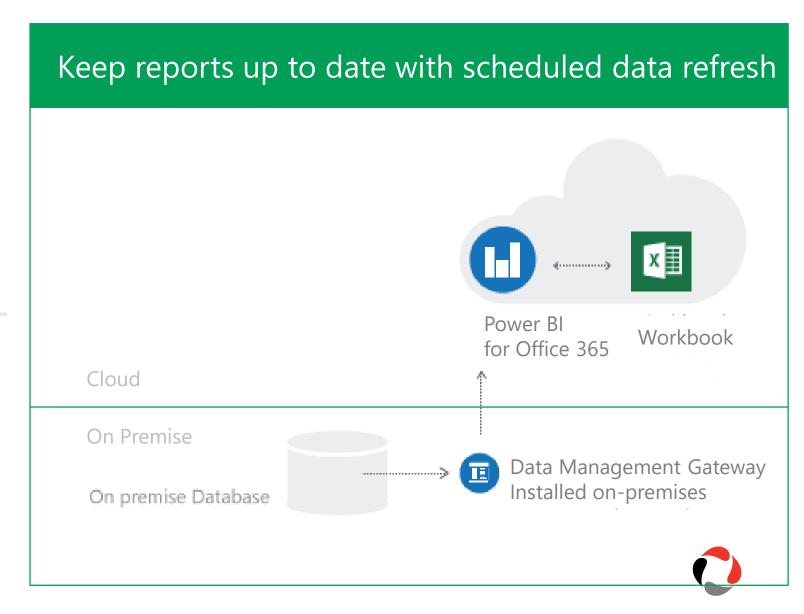


Data Search



Mobile Access





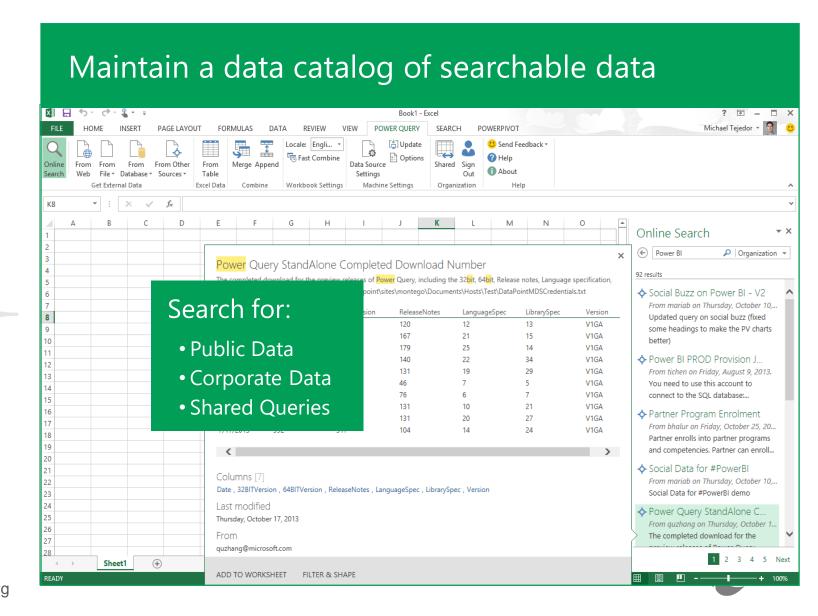






Data Search

Mobile Access







Data Refresh

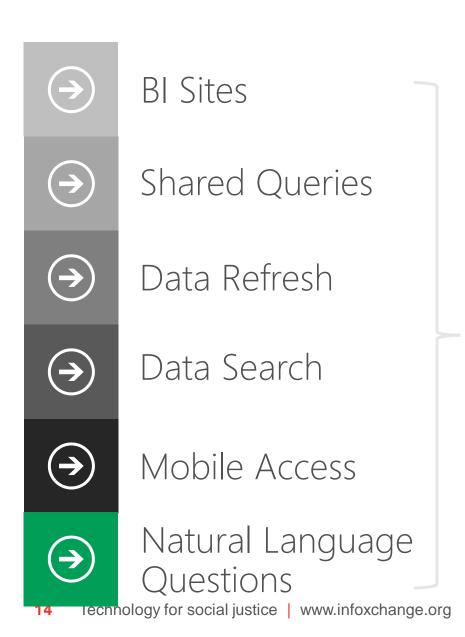
Data Search

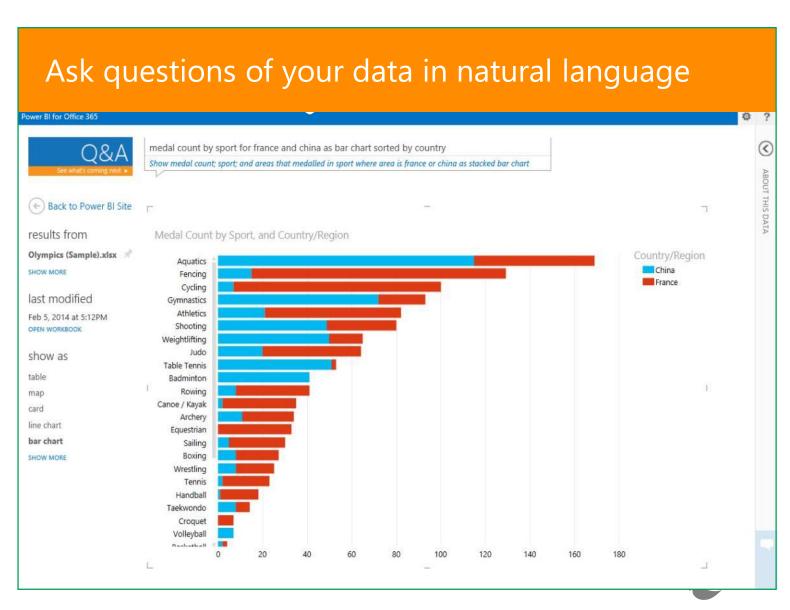
Mobile Access

Natural Language Questions

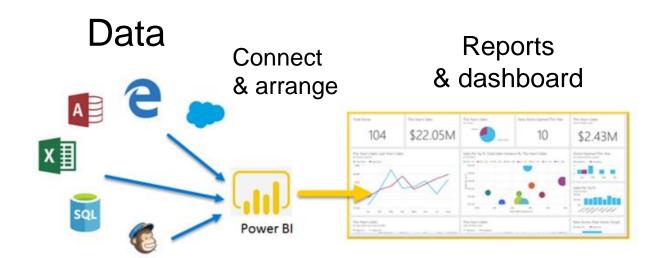
Stay connected with mobile access to your reports







# **Key Power BI components**



Dataset A

Dataset C

Power BI: free (NFP pricing)

Power BI Pro: \$4.10/user/month (NFP pricing)

Pie Charts Line graphs Histograms Scatterplots Tree maps Waterfall
Funnel charts
Gauge charts
Cards
Geospatial

# DEMONSTRATION

POWER BI TO EXPLORE YOUR OUTCOMES

# Note: This demonstration uses 'dummy' data

# **Specialist Housing Outcome Data**

$\square$	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	О	Р	Q	R	S	T
1	Person ID	Alpha (	Cod Given Nam	Family Na	Sex	Note ID	Date	Worker	Stage	Completed	Motivation	Self care a	Managing	Social nety D	rug and a	Physical he	<b>Emotional</b>	Meaningfu	Managing	Offending
2	1234	ILNDR	Bill	Anderson	male	12198	29/09/2014	Angela Percy	0. Initial Ass	essment	4	4	4	3	10	4	4	7	4	10
3	1234	ILNDR	Bill	Anderson	male	12199	30/09/2014	Angela Percy	1st Review		6	5	5	6	10	6	6	6	5	10
4	1234	ILNDR	Bill	Anderson	male	13820	30/12/2014	Gerard Palk	2nd Review		2	3	5	4	4	5	6	7	6	6
5	1234	ILNDR	Bill	Anderson	male	13821	31/12/2014	Anthony Laura	3rd Review		3	4	5	6	7	7	6	5	4	3
6	1234	ILNDR	Bill	Anderson	male	13829	12/01/2015	Gerard Palk	0. Initial As	Client	4	4	5	6	6	6	5	5	6	6
7	1334	ARRME	Gary	Armless	male	12880	3/12/2014	Training Eleve	1st Review		7	5	7	5	7	5	7	6	7	8
8	1334	ARRME	Gary	Armless	male	12837	3/12/2014	Training Eleve	0. Initial Ass	essment	2	5	1	3	6	1	1	1	3	2
9	1183	ROAGI	Frodo	Baggins	male	15134	1/10/2015	Training Eight	0. Initial As	Client and	5	3	4	1	1	1	4	1	6	10
10	1183	ROAGI	Frodo	Baggins	male	15142	13/10/2015	Training Eight	1st Review		7	5		3	4	7	5	5	3	3
11	1183	ROAGI	Frodo	Baggins	male	15143	13/10/2015	Training Eight	2nd Review	Client and	7	7	5	5	3	3	7	7	5	3
12	1183	ROAGI	Frodo	Baggins	male	15145	13/10/2015	Training Eight	4. Ongoing	Review	10	9	9	9	8	7	6	5	5	5
13	1183	ROAGI	Frodo	Baggins	male	15144	13/10/2015	Training Eight	3rd Review		9	8	7	6	5	4	3	2	1	2
14	1430	REASE	Fred	Bassett	female	13294	9/12/2014	Training Ten	1st Review		4	8	5	8	3	7	4	5	4	5
15	1430	REASE	Fred	Bassett	female	13300	9/12/2014	Training Ten	2nd Review		9	6	6	5	5	5	7	6	5	6
16	1430	REASE	Fred	Bassett	female	13286	9/12/2014	Training Ten	0. Initial Ass	essment	5	7	3	7	5	7	5	4	5	6
17	2017	ASEA2	Jasmine	Bean	female	14552	14/08/2015	Angela Percy	0. Initial As	Client	8	6	6	7	6	5	6	3	4	2
18	2017	ASEA2	Jasmine	Bean	female	14553	14/08/2015	Angela Percy	1st Review	Client	7	8	7	6	7	6	5	5	6	5
19	1363	AREA2	Barbra	Bear	female	13012	5/12/2014	Training Two	1st Review		1	1	6	6	10	6	4		8	1
20	1262	VDEVJ	Darbra	Door	fomalo	12202	0/12/2014	Training One	O Initial Acc	occmont	Λ	2		6	0	า	7		2	0



# DEMO

# Tips when starting out

- 1. Start learning PowerBI using a dataset that
  - 1. You are familiar with
  - 2. Is easy to access
- 2. Success with Power BI requires buy-in from the executive **and** management. This is most effective when you are solving a real problem for them that causes difficulty e.g.
  - Tracking contract targets
  - Understanding outcomes
  - Managing workload/caseload
- 3. Initially your data is likely to be dirty. Develop a strategy & monitoring to fix the solution at the 'source' e.g. when the data is initially entered
- 4. If you need resources (\$\$, expertise, access to staff or commitment to clean up data), ask for it once you have built support for the program
- 5. If your systems or data is a mess, think very carefully about how to navigate the likely pitfalls
- 6. If you don't have access your data, don't assume this will be simple
- 7. It is easy to get lost in the analysis. Best to start with a hypothesis, or a question
- 8. Don't be afraid to ask for help



# If needed, Infoxchange can help with

- » Developing a Power BI dashboard for your organisation
- » Developing an information systems strategy
- » Reporting on your activities, contract targets and outcomes
- » Taking your business Intelligence & analytics environment to the next level



# QUESTIONS AND DISCUSSION

Try Power BI at <a href="https://www.powerbi.com">www.powerbi.com</a>

Search YouTube for "PowerBI"

## THANK YOU

#### PLEASE GET IN TOUCH



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- mharvey@infoxchange.org

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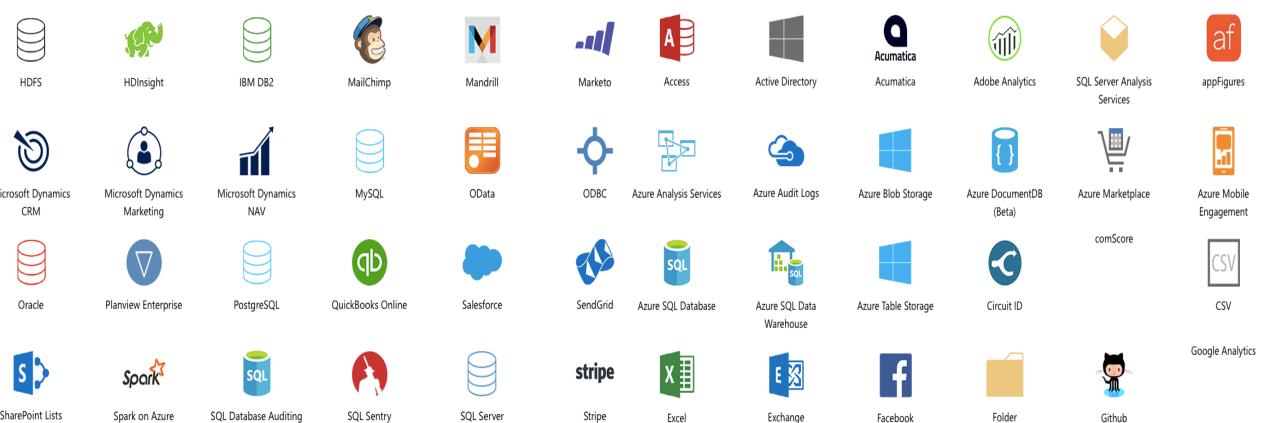
An Nguyen

Consultant

03 9452 6435

anguyen@Infoxchange.org

### **Data**





**HDInsight**