

# DRIVING ALERTS AND ACTIONS ON YOUR DATA

LARS ANDERSEN MICROSOFT





#### 16 edycja konferencji SQLDay



13-15 maja 2024, WROCŁAW + ONLINE

partner platynowy -

# lingaro

partner złoty







partner srebrny













#### Agenda

- About me
- How to make data more actionable
- What is Data Activator

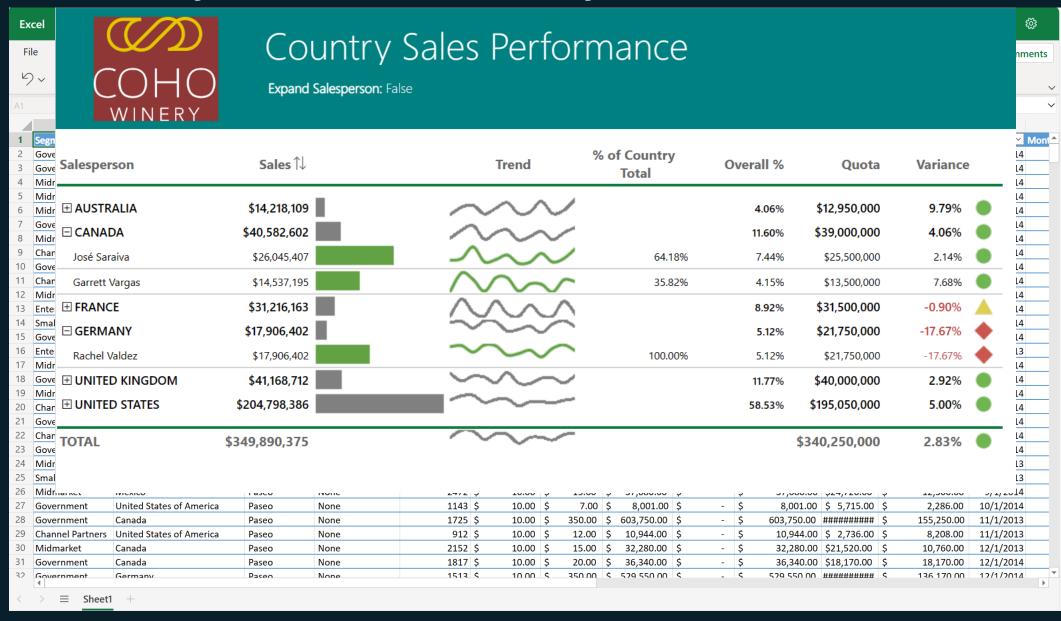


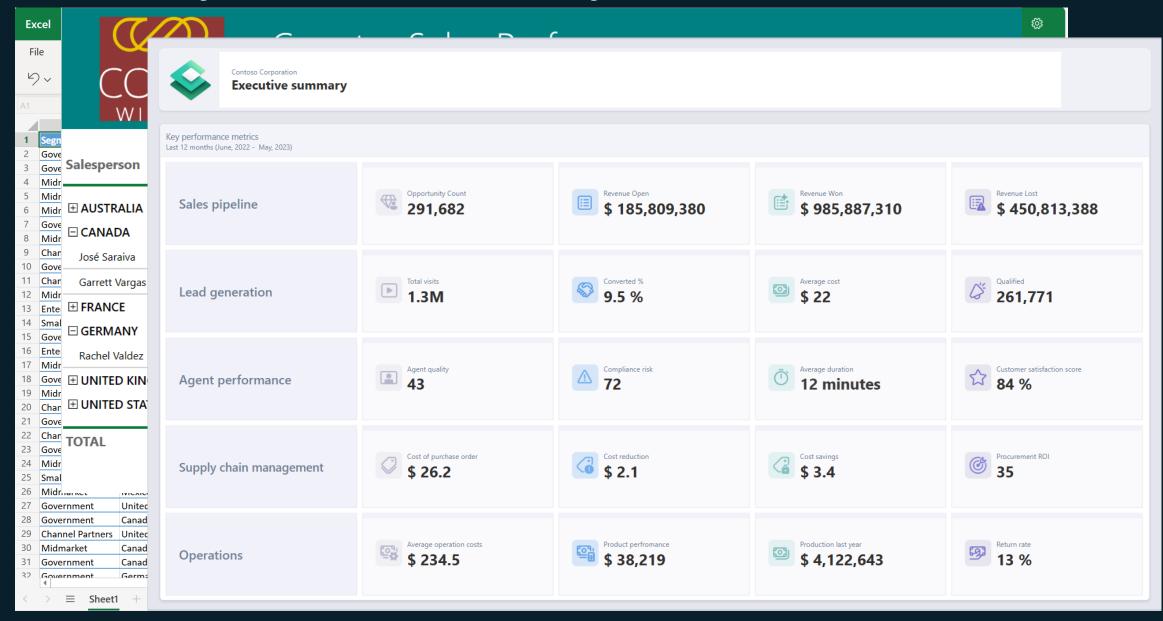


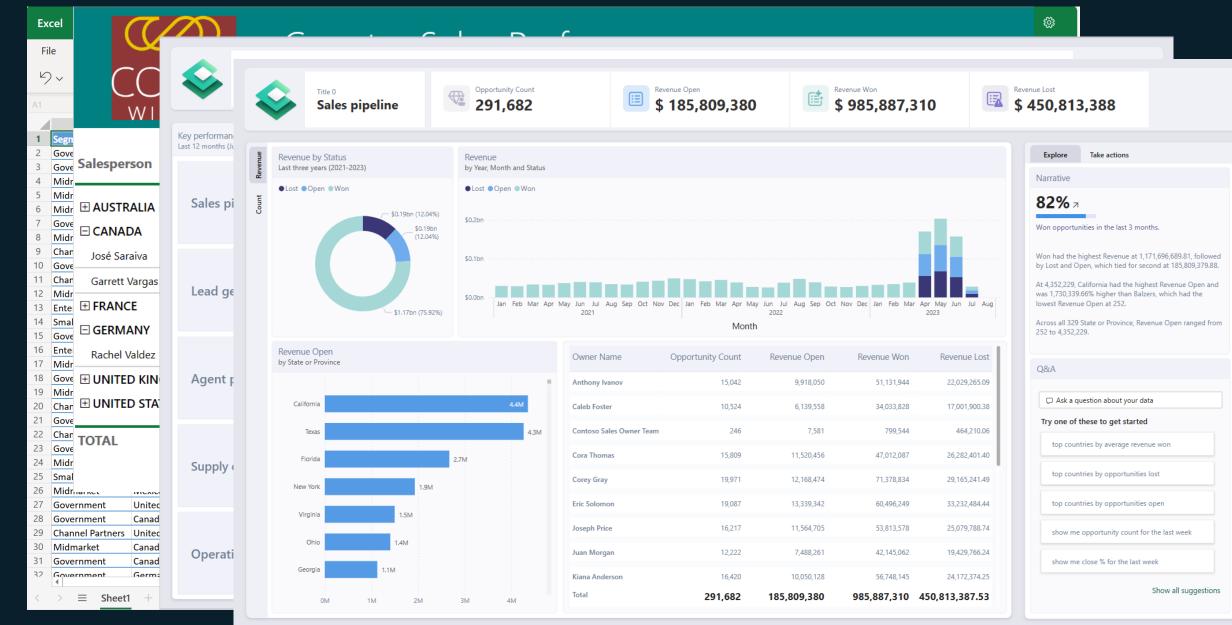
- Worked with data since 1999
- Joined Microsoft in January 2014
- 7.5 years at Microsoft Denmark
- Part of Fabric (Power BI) CAT since September 2021

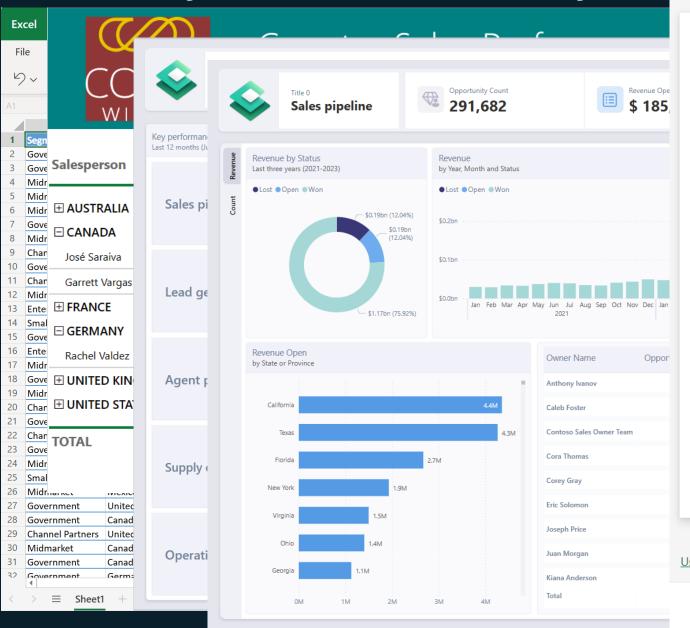
#### How to make data more actionable

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	Α	В	С	D	Е	F	G	Н	I		J	K	L	М
1	Segment Y	Country	Product ~	Discount Band	✓ Units Sold ✓	Manufacturi Sal	e Price 💌	Gross Sales 💌	Discounts ~	Sales	~	cogs ~	Profit	Date ✓ Mont≜
2	Government	Canada	Carretera	None	1618.5	\$ 3.00 \$	20.00	\$ 32,370.00	\$ -	\$	32,370.00	\$16,185.00	\$ 16,185.00	1/1/2014
3	Government	Germany	Carretera	None	1321	\$ 3.00 \$	20.00	\$ 26,420.00	\$ -	\$	26,420.00	\$13,210.00	\$ 13,210.00	1/1/2014
4	Midmarket	France	Carretera	None	2178	\$ 3.00 \$	15.00	\$ 32,670.00	\$ -	\$	32,670.00	\$21,780.00	\$ 10,890.00	6/1/2014
5	Midmarket	Germany	Carretera	None	888	\$ 3.00 \$	15.00	\$ 13,320.00	\$ -	\$	13,320.00	\$ 8,880.00	\$ 4,440.00	6/1/2014
6	Midmarket	Mexico	Carretera	None	2470	\$ 3.00 \$	15.00	\$ 37,050.00	\$ -	\$	37,050.00	\$24,700.00	\$ 12,350.00	6/1/2014
7	Government	Germany	Carretera	None	1513	\$ 3.00 \$	350.00	\$ 529,550.00	\$ -	\$	529,550.00	##########	\$ 136,170.00	12/1/2014
8	Midmarket	Germany	Montana	None	921	\$ 5.00 \$	15.00	\$ 13,815.00	\$ -	\$	13,815.00	\$ 9,210.00	\$ 4,605.00	3/1/2014
9	Channel Partners	Canada	Montana	None	2518	\$ 5.00 \$	12.00	\$ 30,216.00	\$ -	\$	30,216.00	\$ 7,554.00	\$ 22,662.00	6/1/2014
10	Government	France	Montana	None	1899	\$ 5.00 \$	20.00	\$ 37,980.00	\$ -	\$	37,980.00	\$18,990.00	\$ 18,990.00	6/1/2014
11	Channel Partners	Germany	Montana	None	1545	\$ 5.00 \$	12.00	\$ 18,540.00	\$ -	\$	18,540.00	\$ 4,635.00	\$ 13,905.00	6/1/2014
12	Midmarket	Mexico	Montana	None	2470	\$ 5.00 \$	15.00	\$ 37,050.00	\$ -	\$	37,050.00	\$24,700.00	\$ 12,350.00	6/1/2014
13	Enterprise	Canada	Montana	None	2665.5	\$ 5.00 \$	125.00	\$ 333,187.50	\$ -	\$	333,187.50	#########	\$ 13,327.50	7/1/2014
14	Small Business	Mexico	Montana	None	958	\$ 5.00 \$	300.00	\$ 287,400.00	\$ -	\$	287,400.00	##########	\$ 47,900.00	8/1/2014
15	Government	Germany	Montana	None	2146	\$ 5.00 \$	7.00	\$ 15,022.00	\$ -	\$	15,022.00	\$10,730.00	\$ 4,292.00	9/1/2014
16	Enterprise	Canada	Montana	None	345	\$ 5.00 \$	125.00	\$ 43,125.00	\$ -	\$	43,125.00	\$41,400.00	\$ 1,725.00	10/1/2013
17	Midmarket	United States of America	Montana	None	615	\$ 5.00 \$	15.00	\$ 9,225.00	\$ -	\$	9,225.00	\$ 6,150.00	\$ 3,075.00	12/1/2014
18	Government	Canada	Paseo	None	292	\$ 10.00 \$	20.00	\$ 5,840.00	\$ -	\$	5,840.00	\$ 2,920.00	\$ 2,920.00	2/1/2014
19	Midmarket	Mexico	Paseo	None	974	\$ 10.00 \$	15.00	\$ 14,610.00	\$ -	\$	14,610.00	\$ 9,740.00	\$ 4,870.00	2/1/2014
20	Channel Partners	Canada	Paseo	None	2518	\$ 10.00 \$	12.00	\$ 30,216.00	\$ -	\$	30,216.00	\$ 7,554.00	\$ 22,662.00	6/1/2014
21	Government	Germany	Paseo	None	1006	\$ 10.00 \$	350.00	\$ 352,100.00	\$ -	\$	352,100.00	##########	\$ 90,540.00	6/1/2014
22	Channel Partners	Germany	Paseo	None	367	\$ 10.00 \$	12.00	\$ 4,404.00	\$ -	\$	4,404.00	\$ 1,101.00	\$ 3,303.00	7/1/2014
23	Government	Mexico	Paseo	None	883	\$ 10.00 \$	7.00	\$ 6,181.00	\$ -	\$	6,181.00	\$ 4,415.00	\$ 1,766.00	8/1/2014
24	Midmarket	France	Paseo	None	549	\$ 10.00 \$	15.00	\$ 8,235.00	\$ -	\$	8,235.00	\$ 5,490.00	\$ 2,745.00	9/1/2013
25	Small Business	Mexico	Paseo	None	788	\$ 10.00 \$	300.00	\$ 236,400.00	\$ -	\$	236,400.00	##########	\$ 39,400.00	9/1/2013
26	Midmarket	Mexico	Paseo	None	2472	\$ 10.00 \$	15.00	\$ 37,080.00	\$ -	\$	37,080.00	\$24,720.00	\$ 12,360.00	9/1/2014
27	Government	United States of America	Paseo	None	1143	\$ 10.00 \$	7.00	\$ 8,001.00	\$ -	\$	8,001.00	\$ 5,715.00	\$ 2,286.00	10/1/2014
28	Government	Canada	Paseo	None	1725	\$ 10.00 \$	350.00	\$ 603,750.00	\$ -	\$	603,750.00	###########	\$ 155,250.00	11/1/2013
29	Channel Partners	United States of America	Paseo	None	912	\$ 10.00 \$	12.00	\$ 10,944.00	\$ -	\$	10,944.00	\$ 2,736.00	\$ 8,208.00	11/1/2013
30	Midmarket	Canada	Paseo	None	2152	\$ 10.00 \$	15.00	\$ 32,280.00	\$ -	\$	32,280.00	\$21,520.00	\$ 10,760.00	12/1/2013
31	Government	Canada	Paseo	None	1817	\$ 10.00 \$	20.00	\$ 36,340.00	\$ -	\$	36,340.00	\$18,170.00	\$ 18,170.00	12/1/2014
32	Government	Germany	Paseo	None	1513	\$ 10.00 \$	350.00	\$ 529 550 00	٠ -	<	529 550 00	******	\$ 136 170 00	12/1/2014
<	⇒ ≡ Sheet1	+												









#### **Manage alerts** X + Add alert rule Ŵ ^ Revenue alert Active On ,388 Alert title Revenue alert Take actions Set alerts rule for Revenue Open 2 ies in the last 3 months. shest Revenue at 1,171,696,689,81. followed Condition Threshold en, which tied for second at 185,809,379,88. lifornia had the highest Revenue Open and Above 1000000 5% higher than Balzers, which had the Open at 252. Maximum notification frequency :ate or Province, Revenue Open ranged from At most every 24 hours ( ) At most once an hour Alerts are only sent if your data changes. stion about your data ese to get started By default, you'll receive notifications on the service in ies by average revenue won the notification center. ies by opportunities lost Send me email, too ies by opportunities open pportunity count for the last week Use Microsoft Power Automate to trigger additional actions Show all suggestions Save and close Cancel

#### Driving actions from your data







### Driving actions from your data

	Α	В	С	D	Е	F	
1	Segment ~	Country	Product ~	Discount Band Y	Units Sold Y	Manufacturi	
2	Government	Canada	Carretera	None	1618.5	\$ 3.00	
3	Government	Germany	Carretera	None	1321	\$ 3.00	
4	Midmarket	France	Carretera	None	2178	\$ 3.00	
5	Midmarket	Germany	Carretera	None	888	\$ 3.00	
6	Midmarket	Mexico	Carretera	None	2470	\$ 3.00	
7	Government	Germany	Carretera	None	1513	\$ 3.00	
8	Midmarket	Germany	Montana	None	921	\$ 5.00	
9	<b>Channel Partners</b>	Canada	Montana	None	2518	\$ 5.00	
10	Government	France	Montana	None	Ur	ita c 5.00	is lower red ning!!!
11	<b>Channel Partners</b>	Germany	Montana	None		112 2019	ic la
12	Midmarket	Mexico	Montana	None	tha	n evn	3 lower
13	Enterprise	Canada	Montana	None		· ~hect	ied
14	Small Business	Mexico	Montana	None	<u> </u>	SOMOTA	:
15	Government	Germany	Montana	None	2146	\$	iingiji
16	Enterprise	Canada	Montana	None	345	\$ 5.00	
17	Midmarket	United States of America	Montana	None	615	5.00	
18	Government	Canada	Paseo	None	292	\$ 10.00	
19	Midmarket	Mexico	Paseo	None	974	\$ 10.00	
20	<b>Channel Partners</b>	Canada	Paseo	None	2518	\$ 10.00	
21	Government	Germany	Paseo	None	1006	\$ 10.00	

#### Examples

Finance: request payment for overdue invoices

Manufacturing: if a shipment is delayed, warn the recipient

Retail: if freezer temperature is too high, warn me

#### How do you drive actions from your data?

Manual



Staff diverted Hard to scale Hard to keep consistent Code



Lack of agility **Expensive** Hard for IT to scale No-code



**Empowered experts Fast iteration Every department** 

#### More examples

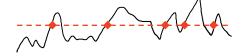
Greater than a threshold

"Alert me when the temperature exceeds 32F."



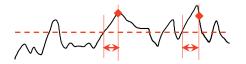
Crosses above a threshold

"Trigger an alert when the temperature becomes more than 32F."



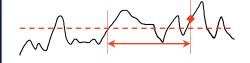
Crosses above and stays above

"File a ticket upon any freezer crossing and staying above 32F for 15 minutes."



Crosses above 3 times in an hour

"File a ticket whenever any freezer exceeds 32F three times in an hour."

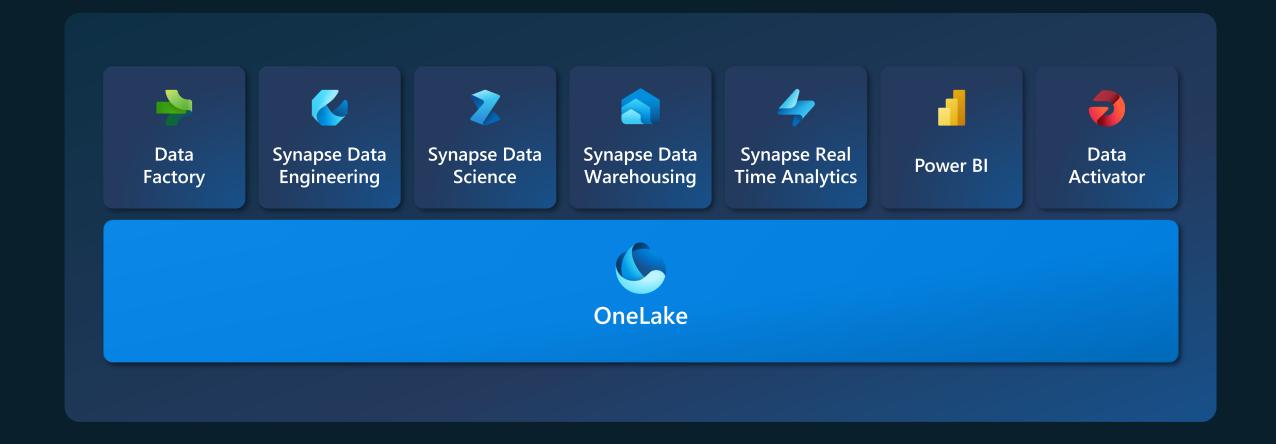


### What is Data Activator?





## Microsoft Fabric The data platform for the era of Al





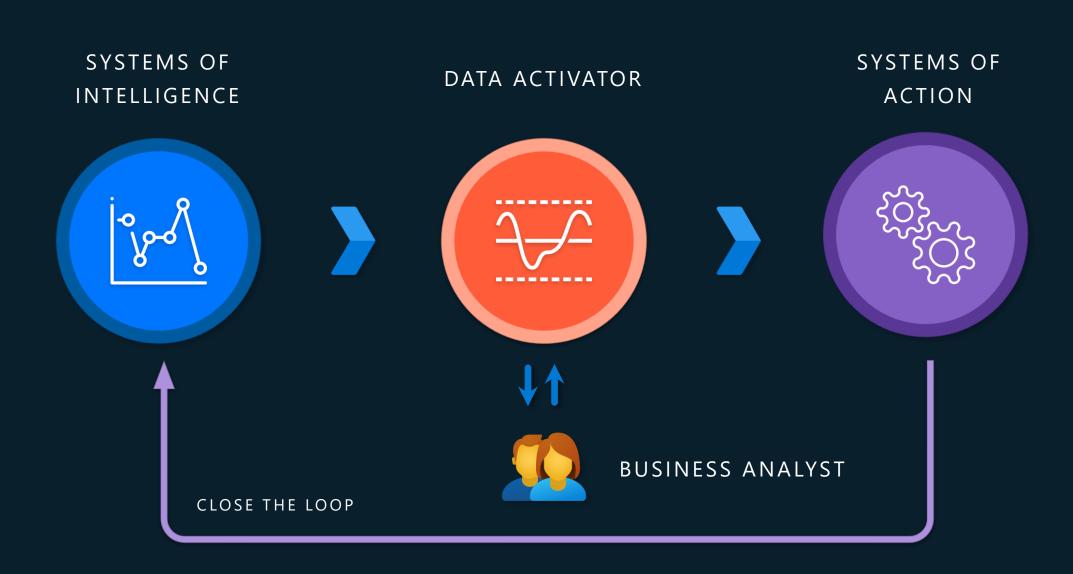
# Microsoft Fabric The data platform for the era of Al



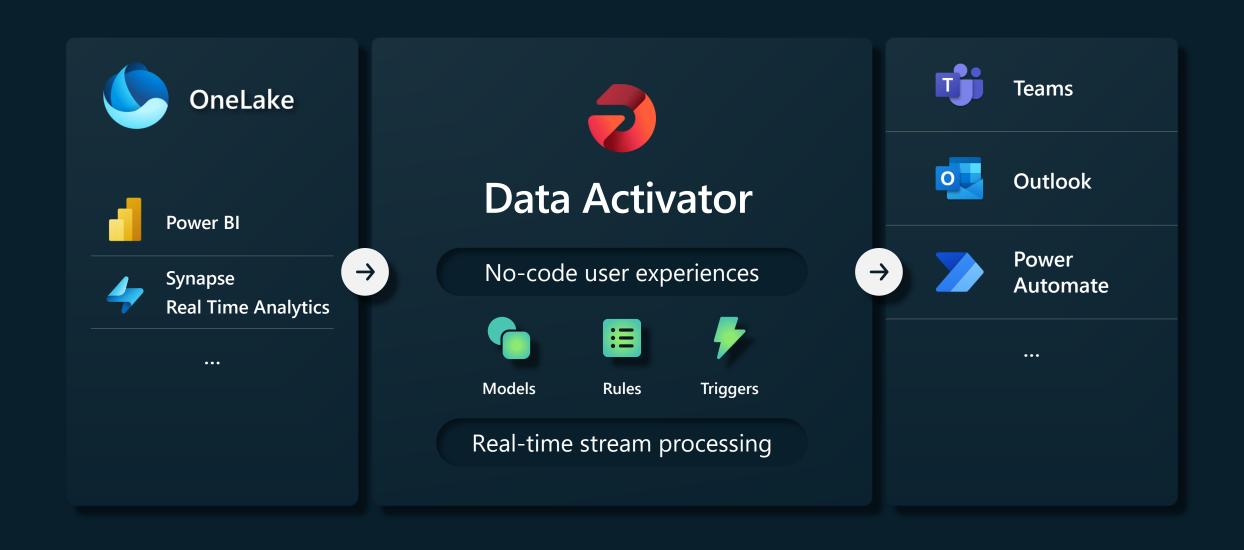
#### How can we get to no-code actions?



#### **Envisaging a new Solution: Data Activator**



### Trigger actions on all your data, from one place



#### Demo Scenario: London Bicycle Hire



- 800 docking stations with bikes to hire
- API to stream data into Fabric

#### **Demo: Streaming data**

- Use real-time data from docking station API
- Monitor docking stations across London
- Alert if docking station has too few bikes, or too many

#### Demo: Power BI report

- Create alert from Power BI visual
- Alert is number of occupancy percent is below a threshold

#### **Demo: Power Automate**

• Create custom action using Power Automate

#### **Key points**

- Drive automatic actions from your data
- Define complex alert conditions without writing code
- Connect to Eventstreams & Power BI
- Drive actions in email, Teams and from Power Automate flows

#### Next steps

- Announcing the Data Activator public preview
- <a href="https://blog.fabric.microsoft.com">https://blog.fabric.microsoft.com</a>
- https://community.fabric.microsoft.com



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13-15 maja 2024, WROCŁAW + ONLINE

partner platynowy -

# lingaro

partner złoty







partner srebrny











