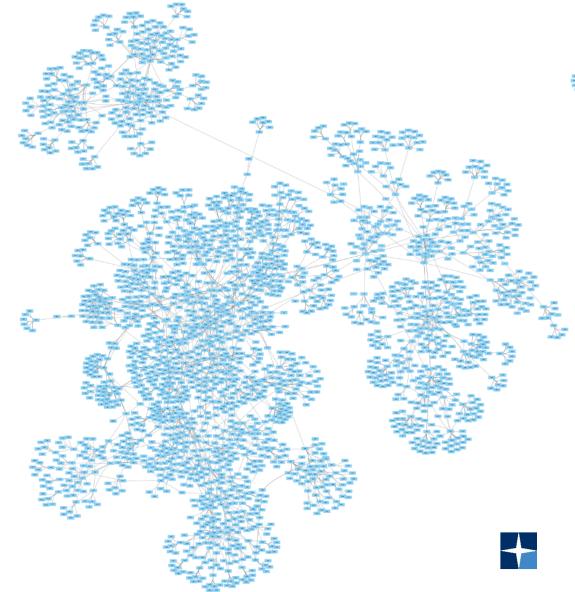
## Taxonomy data generator

# Eurofiling conference



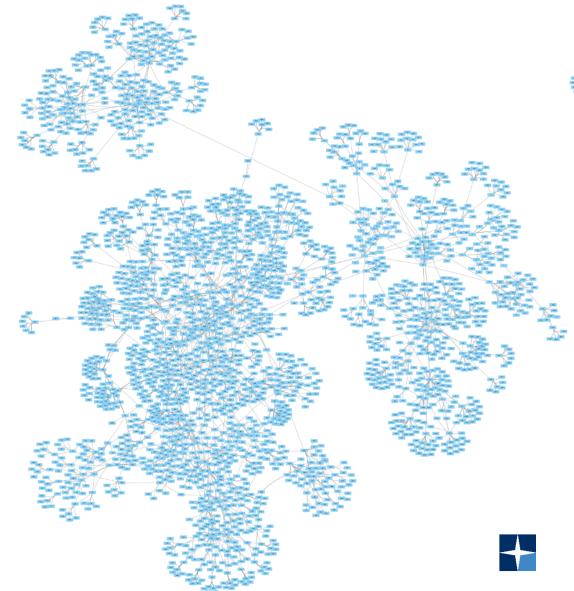
### Problem

- Lots of validation rules improve data quality
- 100's or 1,000's rules
- 10,000's of data points
- Impossible to create test data that support best practice development



## Opportunity

- Lots of validation rules improve data quality
- 100's or 1,000's rules
- 10,000's of data points
- XBRL Formula network has all the information required to create test data (and more...)



## DEMO

Request demo

View on LinkedIn

+

				ies	t data genera				
Package bank-of-england-banking-351-cflv1.0.zip V			Taxonomy Leverage ratio				Real-time updates Open in Beacon		
				-			Open in Beacon		
				OF	PTIMAL in 0.007	's			
		<ul> <li>Select all tables</li> </ul>				Assertion ID	Tables	Expression Q	Generator status
V40.00.00.01(L	LR1) Alternative treatme	nt of the exposure meas	sure		+	boe_boe_v10247_h	LV40.00.00.01	iaf:numeric-equ	
	0010	0020	0070	00'	+	boe_boe_v10262_s	LV40.00.00.01	\$v0 >= 0	OK
0010	95,728	1,000,000	1,000,000	*	+	boe_boe_v10261_s	LV40.00.00.01	\$v0 >= 0	ОК
0020	2,388	3,624	62,978	3!	+	boe_boe_b0003	LV40.00.00.01	\$v0 >= 0	ОК
0030			45,361		+	boe_boe_b0002	LV40.00.00.01	\$v0 >= 0	ОК
0040			17,617		+	boe_boe_b0001	LV40.00.00.01	\$v0 >= 0	OK
0050	43,405	43,405	896,726	2:	+	boe_boe_v10098_m	LV40.00.00.01	\$v0 <= \$v1	ОК
0060	49,935	952,971	40,296		+	boe_boe_v10244_h	LV40.00.00.01	iaf:numeric-equ	ОК
0071	20,242	1,000,000			+	boe_boe_v10097_m	LV40.00.00.01	iaf:numeric-equ	ОК
0090	39,427	1,000,000			+	boe_boe_v10095_m	LV40.00.00.01	\$v1 >= \$v0	OK
0095			1,631		+	boe_boe_b0027	LV47.00.00.01	iaf:numeric-equ	ОК
0210		49,436			+	boe_boe_b0026	LV47.00.00.01	iaf:numeric-equ	ОК
0220		41,813			+	boe_boe_b0025	LV47.00.00.01	iaf:numeric-equ	ОК
0230		22,877			+	boe_boe_b0024	LV47.00.00.01	iaf:numeric-equ	ОК
0240		40.217		*					

Generator UI: Table explorer on left, validation explorer on right. Selecting the table generates valid data.



Home > tdGen-testData.csv > LV40.00.00.01(LR1) Alternative treatment of				bmr@corefili	ng.com English	× =
	Searc			h 0 hit		
		Accounting balance sheet value	Accounting value assuming no netting or other CRM	Notional amount/ nominal v	alue Capped notic	Ce
		0010	0020	0070	0075	$\checkmark$
Derivatives	0010	£85,734.00	£1,000,000.00	£500,12	3.00	-
Credit derivatives (protection sold)	0020	£24,753.00	£43,387.00	£48,85	8.00	
Credit derivatives (protection sold), which are subject to a close out clause	0030				7 00	-
Credit derivatives (protection sold), which are not subject to a close out cla	0040			£48,73	1.00	×
Credit derivatives (protection bought)	0050	£44,353.00	£44,353.00	£434,33	1.00	0
Financial derivatives	0060	£16,628.00	£912,260.00	£16,93	4.00	0
Security Financing Transactions	0071	£28,251.00	£1,000,000.00			
Other assets	0090	£23,798.00	£1,000,000.00			
Off-balance sheet items	0095			£8,70	8.00	
Cash collateral received in derivatives transactions	0210		£23,721.00			
Receivables for cash collateral posted in derivatives transactions	0220		£39,654.00			
Securities received in a SFT that are recognised as an asset	0230		£36,675.00			
SFT cash conduit lending (cash receivables)	0240		£15,814.00			
Central bank exposures	0380	£4,551.00				
Total assets	0410	£17,076.00				

Certified XBRL validation, document management and data export from the True North Data Platform



		1	lest data generator			
	Package		Taxonomy	Real-time updates		
nk-of-eng	gland-banking-351-cflv1.0.zip \vee		Leverage ratio	V	Open in Beacon	
			OPTIMAL in 0.005s			
	Assertion ID Calles	Expression			Generator status	
-	boe_boe_v10247_h LV40.00.00.01	iaf:numeric-equal(\$v0,iaf:su	ım(\$v1))		OK	
	Index	XBRL result	Matching table set	Test setting	Active	
	<ul> <li>boe_boe_v10247_h_0</li> </ul>		LV40.00.00.01	Fail 🗸		
	Variable name	RC Codes		Data Point	Value	
	v0	LV40.00.00.01:0010:0070			500123	
	v1	LV40.00.00.01:0020:0070			51174	
	v1	LV40.00.00.01:0050:0070			29587	
	v1	LV40.00.00.01:0060:0070			4069	
+	boe_boe_v10262_s	\$v0 >= 0			OK	
+	boe_boe_v10261_s LV40.00.00.01	\$v0 >= 0			ОК	
+	boe_boe_b0003	\$v0 >= 0			ОК	
+	boe_boe_b0002	\$v0 >= 0			OK	
+	boe_boe_b0001	\$v0 >= 0			ОК	
+	boe_boe_v10098_m LV40.00.00.01	\$v0 <= \$v1			OK	

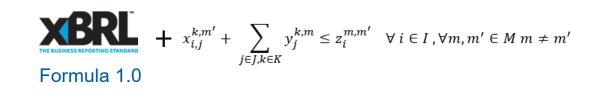
Using settings in the assertion explorer to generate a fail case for an individual assertion.



#### Solution

• Idea is easy a = b + c 2 = 1 + 1 3 = 1 + 1

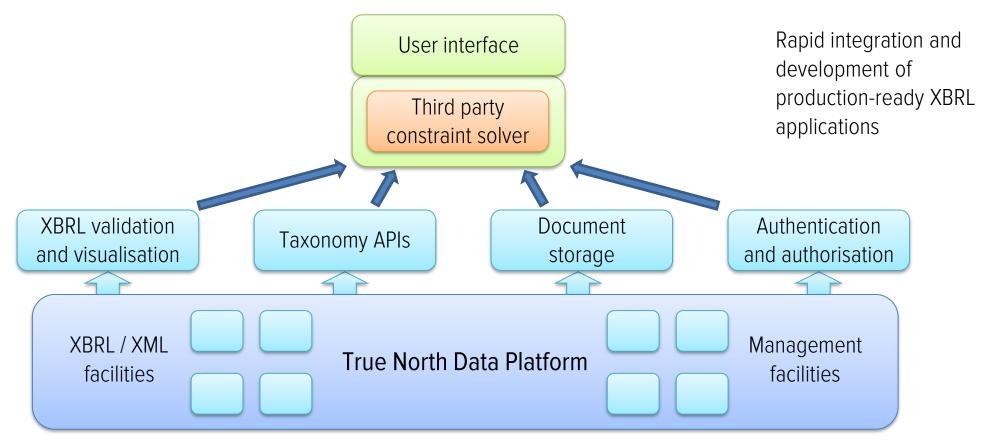
• Logic/math non-trivial



• Useful software harder



#### Platform strategic innovation





## THANK YOU

Any questions?

Find out more

