

Screening procurement data for signs of bid-rigging The UK's experience to date

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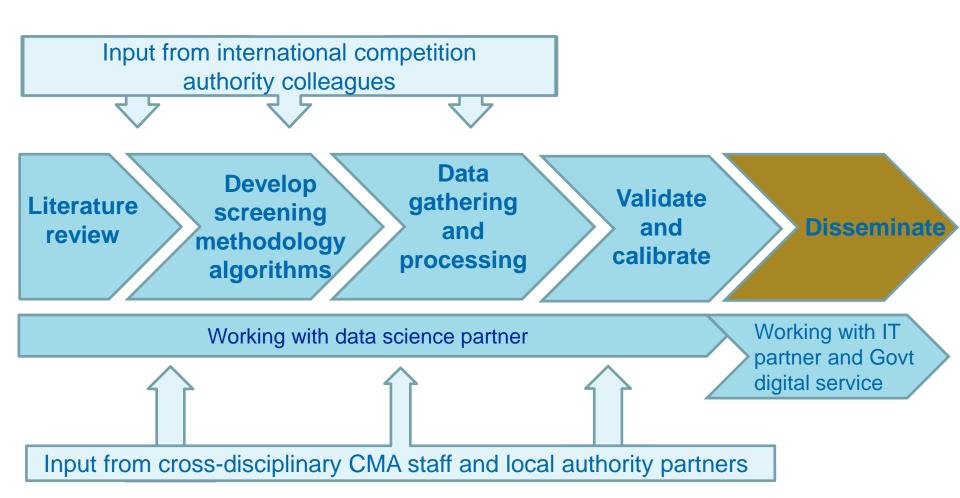
2017 ICN Cartel Workshop

Ottawa, Canada

Mini Plenary #2

We have engaged with partners through the development process





Our approach has been moulded by the challenges we faced



The right indicators

What we <u>want</u> to test v
 What we <u>can</u> test

Pragmatic relative risk approach

Data

Access

Overcoming legal and policy constraints

Quality

 Getting data that is complete, accurate, in readable format

Volume

 Getting enough data to test and calibrate

Participation

Generating and sustaining interest Distributed model

Embed in awareness campaign

We filtered out indicators we could not test...



Theme	Indicators chosen	Indicators rejected	Reasons for rejections
Number and pattern of bidders	Low no of bidders Single bid	Submission timing Withdrawn bid Tender based competitiveness	Data unlikely to be consistently available Impossible to benchmark
Suspicious pricing patterns	Outlier pricing Similar loser pricing Costs appear to be made up (Benford's Law)	Losing price data Price stickiness	Require multiple tender and cross area data - unlikely to be consistently available
Suspicious document origin	Metadata check for authorship Low effort submission Text similarity	Language patterns Online entry logs Losing bid quality Submission source	Hardest to test metrics unlikely to improve on easiest to test
Suspicious award pattern		Awards to incumbents Taking turns Supplier dominance	Require time series and cross area data - unlikely to be consistently available

The tool is based on 8 indicators and 4 combination tests

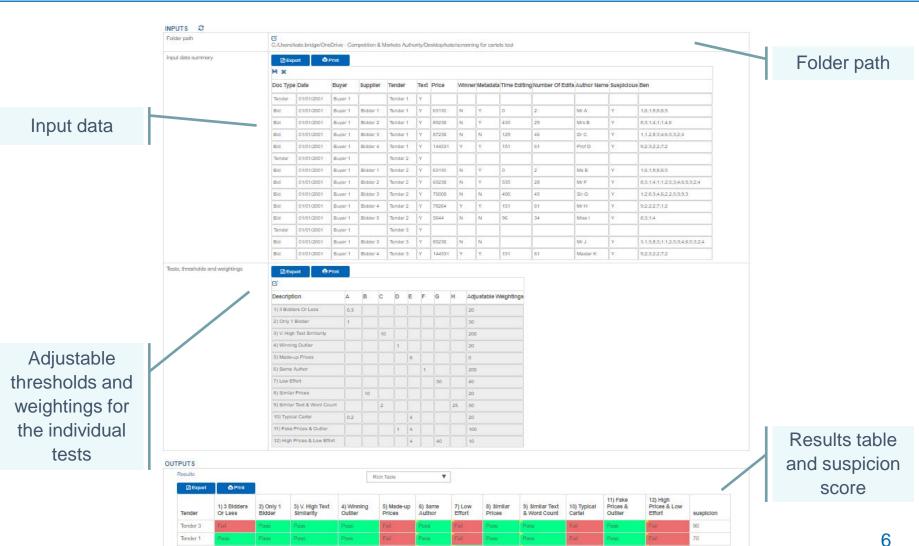


Theme	Indicators chosen							
Number and pattern of bidders	Low number of bidders Single bid							
Suspicious pricing patterns	 Winning price is outlier Similar pricing across bids Costs appear to be made up 							
Low effort submissions	 Same authors in two or more bids Low endeavour losing bids (number of edits/time spent editing) Similar text in losing bids 							
Combination tests	 Similar text and word count in losing bids Low number of bidders and made up prices Winning price is outlier and made up prices Low endeavour losing bids and made up prices 							

The tool is easy and straight forward to use

Tender 2





The thresholds and weightings can be adjusted to fit circumstances



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Description	Α	В	С	D	Е	F	G	Н	Adjustable Weightings		
1) 3 Bidders Or Less	0.5								20		
2) Only 1 Bidder	1								30		
3) V. High Text Similarity			10						200		
4) Winning Outlier				1					20		
5) Made-up Prices					7.6				40		
6) Same Author						1			200		
7) Low Effort							75		40		
8) Similar Prices		15							20		
9) Similar Text & Word Count			5					6.7	50		
10) Typical Cartel	0.3				7.6				20		
11) Fake Prices & Outlier				1	7.6				10		
12) High Prices & Low Effort					7.6		50		10		

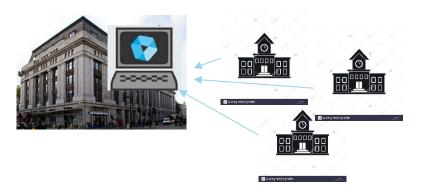
The results show which (if any) of the tenders are most suspicious



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Tender	1) 3 Bidders Or Less	2) Only 1 Bidder	3) V. High Text Similarity	4) Winning Outlier	5) Made- up Prices	6) Same Author	7) Low Effort	8) Similar Prices	9) Similar Text & Word Count	10) Typical Cartel	11) Fake Prices & Outlier	12) High Prices & Low Effort	suspicion
Tender 3	Pass	Pass	Fail	Fail	Pass	Fail	Fail	Pass	Pass	Pass	Pass	Pass	460
Tender 6	Pass	Pass	Fail	Fail	Fail	Pass	Pass	Fail	Pass	Pass	Fail	Pass	290
Tender 1	Pass	Pass	Fail	Pass	Fail	Pass	Pass	Pass	Pass	Pass	Pass	Pass	240
Tender 5	Pass	Pass	Pass	Fail	Fail	Pass	Fail	Fail	Pass	Pass	Fail	Fail	140
Tender 4	Fail	Fail	Pass	Pass	Fail	Pass	Pass	Pass	Pass	Fail	Pass	Pass	110
Tender 2	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	0

We have distributed a tool rather than run a screening programme



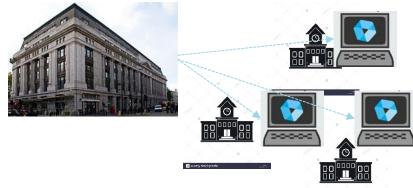




- Maintain control over tool development
- Easy to capture and build on learning
- Ease of cross-authority comparison

Requires

- Ongoing resources from competition authority
- Authorities to be willing and able to share data



Advantages

- No need to share data
- Builds a user community
 - Spreads awareness
 - Creates deterrence
- Better prospects of innovation, development, dissemination

Requires:

- IT Risk management
- Winning hearts and minds

The tool is only one part of our efforts to tackle bid rigging



• In addition to the tool at:

https://www.gov.uk/government/publications/screening-for-cartels-tool-for-procurers/about-the-cartel-screening-tool

We have a suite of information on bid rigging detection and prevention, including:

- access to an e-learning tool
- a 60 second summary
- a video



- Available at https://www.gov.uk/government/news/procurement-tool-targets-bid-rigging-cheats
- Successful procurement events; more being planned