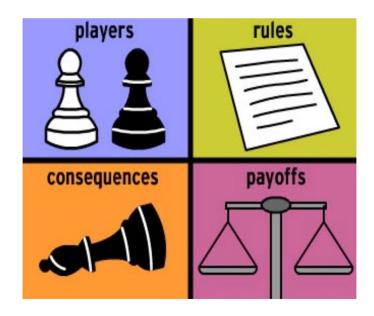
ALIGNING INCENTIVES IN IMPORT SUPPLY CHAINS

A CARROTS AND STICKS APPROACH

SUSIE HESTER IPRRG, Poznań 3-6TH SEPTEMBER 2019

PRESENTED BY ANDREW ROBINSON



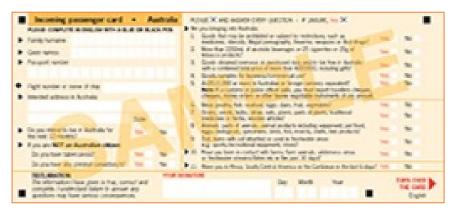


Key messages

- 1. Humans behave strategically and respond to incentives in all domains of the economy including biosecurity!
- 2. All regulations, by default, possess incentives for stakeholder compliance
- 3. It is possible to design 'incentive-compatible' rules and policies







Aligning incentives in import-supply chains

Understand what motivates stakeholders:

Actors	Motivation
Importer	Profit motivated
Domestic consumer	Maximise welfare from consuming goods
Domestic producers	Profit motivated
Biosecurity agency	Implement the Biosecurity Act
Government	Welfare across the whole economy Maintain environmental stocks

Note that the motivations of stakeholders are not aligned with national goals

Consider responses of importers when designing inspection rules:

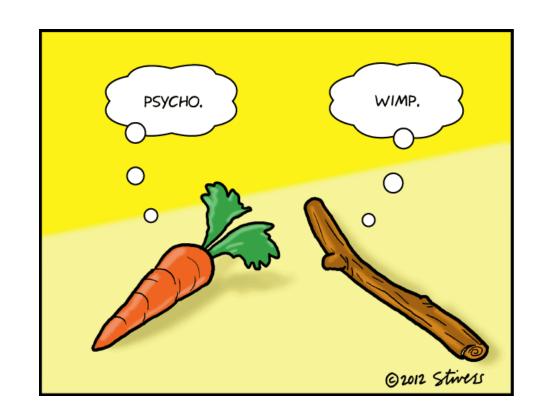
- Take account of (expected) behaviour of regulated entities, not just the regulator's objectives
- 'incentive regulation'

CSP-3/CBIS inspection rolled out in 2013

what are its incentives?

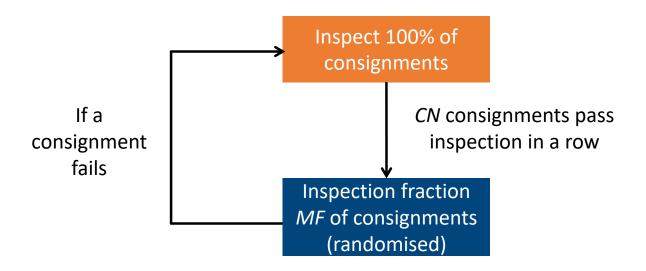
Design and trial biosecurity inspection protocols that encourage compliant behaviour, using:

- Analysis of Department of Agriculture's (DA) inspection data
- Stakeholder interviews
- Economic theory and economic experiments
- Field trial



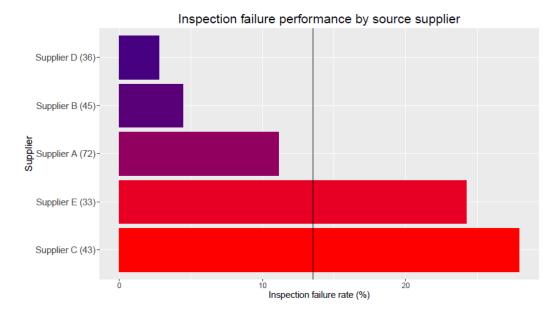
Field trial:

• CSP-1



• Feedback reports (opt-in, quarterly)

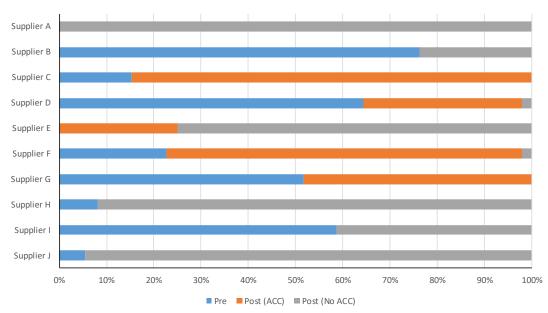
Supplier performance



• Two pathways: vegetable seeds for sowing and peat

Evaluation of the trial (mixed methods approach):

- Many unforeseen issues and complications (IT, legislation, pathway peculiarities)
- some supplier switching was evident
- Internal DA communication/processes could be more consultative to implement change
- Tailored communication (via feedback reports) with importers was well-received and more effective than existing DA communication
- Industry bodies can be a great ally to help with communication



Volume by supplier pre trial and trial imports

Impact and outcomes:

- Feedback reports are now routinely sent to importers on a growing number of pathways
- DA now publishes its CBIS inspection rules on its website

More broadly:

- A methodology to incorporate incentives into inspection-rule design
- New techniques: economic experiments; stakeholder interviews, qualitative analysis
- Wider DA acknowledgement of need to investigate strategic behaviour of stakeholders

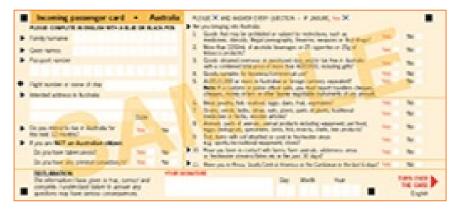


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Acknowledgements:



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