Norm-oriented collusion Cartels in Japan:

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Heaven for cartels

- 1,002 permitted cartels in 1963 Legal cartels were abundant.
- 523 in manufacturing sector 4 trillion yen or 28% of total shipment
- Illegal cartels were abundant, too.
- ⇒ Easy to suspect.

Method of Detection (Japan)

								1			
Total	1972	1971	1970	1969	1968	1967	1966	1965	1964	FY1963	
*					N.		1000				new
1,018	116	98	132	111	138	104	96.	148	34	41	new investigation (※1)
							J. V.		3		detec
389	44	44	44	29	63	44	41	54	13	13	detected by JFTC (※2)
629	72	54	88	82	75	60	55	94	21	28	complaint (※3)

Method of Detection (Japan) footnotes:

- *1 # of cases investigation started in the corresponding fiscal year
- **%2** # of cases detected by JFTC (Antimonopoly act 45:4)
- 3 # of cases investigation started based on the report from public (ibid 45:1)

Source: JFTC Annual Report 1963-1972

Norms and Conventions

- Sense of permission

"Many are permitted, why not ours?"

- "Everyone does it, so it's ok."
- game. Equilibrium selection in a repeated
- "Let's collude rather than compete."

Against norm-oriented cartels

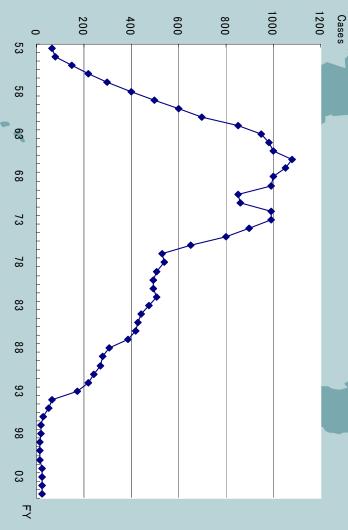
Reduce the number of legal cartels

Create the norm:

"following the rule of the game pays."

Reduce # of legal cartels (source: JFTC annual report)





Equilibrium Selection

Norms matter in sustaining collusion.

Not because they are irrational, but repeated game played by rational firms. because there are many equilibria in a

Prisoners' dilemma

	,0	
12	33	
		(O
N		
4, 4	2, 12	U
	N	

Grim trigger strategy

If both firms take such a strategy, Take "C" until "D" is observed. collusion is sustained.

Defect: 12, Follow it: 10, 10, 10, 10, ...

Gain/loss: 2, -6,

⇒Collude if $\delta > 1/4$.

With Antimonopoly act

12, 2	50	
4, 4	2, 12	

With Antimonopoly act II

If both firms take such a strategy, Take "C" until "D" is observed. collusion is sustained.

Defect: 12, Follow it: 6

Gain/loss: 6,

With Leniency program

16, 2	6,06	C
4, 4	2, 16	

With Leniency Program

If both firms take such a strategy, Take "C" until "D" is observed. collusion is sustained.

Follow it: 6

Defect:

Gain/Loss:10, -2,

 \Rightarrow Collude only if $\delta > 5/6$, i.e., very patient.

Joint defection from cartels

- It makes more sense to consider the through negotiation. cartels esp. when cartel was formed possibility of joint defection from
- ⇒30% each after investigation begins may be not so bad.

Game between firms and JFTC

firms try to fluctuate the price. If JFTC uses it to screen, cartel. (Harrington-Chen) Less price fluctuation is a sign of a

Competition between authorities

- US: federal—DOJ/FTC; states
- EU: EU commission; countries
- Japan: JFTC; ???