Collusion and Cartels: Successes and Challenges

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William Kovacic (OECD Conference, October 2013), former Chair of the U.S. Federal Trade Commission:

No modern development in antitrust law is more striking than the global acceptance of a norm that condemns cartels as the market’s most dangerous competitive vice [but] is modern antitrust cartel enforcement attaining its deterrence goals?

- Are policies reducing the cartel rate?
- Some challenges a competition authority faces
  - if there has not been success in lowering the cartel rate.
  - if there has been success in lowering the cartel rate.
Are There Fewer Cartels?

Enforcement Trends

- Competition laws are more widespread.
- Many competition authorities are intensely engaged in enforcement.
- Widespread adoption of leniency programs.
- Increase in corporate penalties in some jurisdictions (e.g., U.S. and EU).
- Expansion of criminalization.
Are There Fewer Cartels?

Enforcement Trends

- Higher penalties reflecting more convictions and higher penalty rates.

**European Commission - Fines**

- But penalties remain low in some jurisdictions ⇒ collusion is still profitable.
- But penalties are tied to revenue (e.g, up to 10% of turnover) in most jurisdictions ⇒ cartels with high profit/sales ratio may not be deterred.
Are There Fewer Cartels?

Enforcement Trends

- 12 countries with incarceration as a penalty.
- U.S.: More executives are going to jail and for a longer time.

U.S. Department of Justice, Antitrust Division

- But incarceration is rarely used outside of the U.S.
Are There Fewer Cartels?

Enforcement Trends

- Leniency programs adopted in more than 50 countries and unions.
- Active in many jurisdictions including Brazil and South Africa.

South Africa: Leniency Applications

But not active everywhere. For example, it is rarely used in Chile, Estonia, Israel, Latvia, Lithuania, Poland, Turkey (OECD Policy Roundtable, 2013).
Are There Fewer Cartels?

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Are There Fewer Cartels?

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- Encouraging signs
Are There Fewer Cartels?

- In some jurisdictions:
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    - Many convictions
Are There Fewer Cartels?

- In some jurisdictions:
  - Encouraging signs
    - Many convictions
    - Many leniency applications

- Discouraging signs
  - Many convictions
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U.S. Department of Justice (1987-2014)
Are There Fewer Cartels?

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U.S. Department of Justice (1987-2014)

![Bar chart showing total criminal cases filed by fiscal year from 1987 to 2014.](chart_image)
Are There Fewer Cartels?

Fact: Cartels continue to be discovered at a significant rate and include some of the largest in history (auto parts, foreign exchange, LIBOR).

- Cartels keep forming in the U.S. in spite of
  - aggressive enforcement
  - higher government fines
  - incarceration
  - vibrant private litigation with treble customer damages

- What does this portend for jurisdictions with
  - lower corporate fines
  - absence of private litigation or only single customer damages
  - no incarceration
Are There Fewer Cartels?

- There is no compelling evidence (yet) of significant deterrence of cartel formation.
- Contrary to an oft-stated claim, we do not know how many cartels go undiscovered.
OECD Secretariat - "Serial Offenders" (Oct 2015):

*Cartel studies generally conclude that only about 10 to 30 percent of all such conspiracies are discovered and punished.* (Quoting from Connor, 2010)

These incorrect claims are based on a misinterpretation of estimates.
Are There Fewer Cartels?

Harrington and Yao, “What Can the Duration of Discovered Cartels Tell Us About the Duration of All Cartels?,” Sept 2015

- Empirical model of cartel birth, death, and discovery
  - Cartel can die because it internally collapses or is discovered.
  - Cartel death rate (annual probability of a cartel ending) = discovery rate + collapse rate - discovery rate × collapse rate

- Cartel duration data can (at best) allow us to estimate the cartel death rate.
  - Estimates reveal there is a 17% chance each year that a cartel dies.
  - Fraction of cartels that are undiscovered = \( \frac{\text{death rate} - \text{discovery rate}}{\text{death rate}} \)
  - As we only know the death rate, we do not know the fraction of cartels that are undiscovered.
Are There Fewer Cartels?

Takeaways

- There is no compelling evidence that there are fewer cartels.
- It is of first-order importance to address:
  - Is the cartel rate lower?
  - Are policies reducing the cartel rate?
- Enforcement should entail
  - Detection (of cartels)
  - Prosecution (and conviction of cartels)
  - Penalization (of convicted cartels)
  - **Evaluation (of enforcement policies)**
    - Propose collaboration between competition authorities and academic scholars.
Disabling Cartels

- If there is uncertainty as to whether enforcement is deterring cartels then it is prudent to intensify efforts to shut down active cartels.

- Enhancing the detection of cartels
  1. Concerns about over-reliance on leniency programs.
  2. Screening [to be covered later today]
  3. Whistleblower rewards
Disabling Cartels

Leniency Programs

- Leniency programs have proven instrumental in prosecuting cartels but are they
  - discovering active cartels?
  - lowering the cartel rate?

- Concerns that leniency programs
  - are largely used by dying cartels and thus their value lies more in increasing penalties than in shutting down active cartels.
  - are more effective against the least stable cartels.
  - could be enhancing the duration of the most stable cartels.
Disabling Cartels

Increased reliance on leniency program.

U.S. DOJ: Growth in Role of Leniency Applications

Figure 8: Number of Criminal Cartel Cases Filed Each Fiscal Year, Broken Out by Those Assisted and Not Assisted by a Leniency Applicant

Source: GAO analysis of Antitrust Division data.
Too much reliance on the leniency program?

U.S. Senator Bill Blumenthal speaking to Assistant Attorney General William Baer:

"My concern is that most of the cases that are brought today are ... generated exclusively from firms that decided to come forward and seek a leniency application . . . . I’m worried that the success of the leniency program combined with budget constraints that your Division faces will, in effect, give you incentives to pursue only the companies that come forward . . . [A]s I know from personal experience, some of the most egregious and harmful of the cartels may have nobody coming forward."

- U.S. Senate Hearing on “Cartel Prosecution: Stopping Price Fixers and Protecting Consumers" - November 14, 2013
A leniency program may be disproportionately used by dying cartels.

- EC official Olivier Guersent expressed this concern at the 11th Annual EU Competition Law and Policy Workshop (June 2006)
- Only 13 out of 110 EC cases with a leniency awardee (over 1996-2012) involved applications before the death of the cartel.
- António Gomes, President of the Portuguese Competition Authority (2014):

  Cartels which have already become unstable ... are more likely to lead to a leniency application. On the other hand, cartels whose members are successful in maintaining stable collusion rules for several years ... are more difficult to be detected through leniency programs.
Disabling Cartels
Leniency Programs

Harrington and Chang (Journal of Law and Economics, 2015)

Theoretical model of cartel birth, death, and discovery finds:

- Leniency program is extensively used by dying cartels.
- Competition authority that focuses on cartels with a leniency applicant is using scarce resources on prosecuting cartels that have already collapsed.
- More stable cartels could be less likely to be caught because non-leniency enforcement is weaker.
Disabling Cartels

Leniency Programs

It is possible for a leniency program to raise the cartel rate.

Cartel Rate (Simulations)
Theoretical analysis shows:

- a leniency program can:
  - have many applications
  - reduce the expected duration of relatively unstable cartels (and deter some from forming)
  - *increase* the expected duration of relatively stable cartels

- a leniency program need not decrease the cartel rate when
  - leniency cases do not sufficiently save on resources
  - penalties are not sufficiently severe.
The main takeaway is not that leniency programs are counter-productive but rather

- number of leniency applications is not a measure of success (though can be an encouraging sign).
- it is unclear that they are effective at shutting down *active* cartels.
- not to overly rely on leniency programs as a method of detection.
Disabling Cartels
Whistleblower Rewards

- Whistleblower programs provide rewards to those who are (typically) not involved in a cartel and report a suspected cartel to the government.

- Sales representatives (and other employees) of the colluding firms may become suspicious because, for example,
  - of a lack of concern of competitors’ reactions
  - of instructions not to deviate from the price list even when business may be lost.

- Industrial buyers may become suspicious because, for example,
  - some suppliers are no longer willing to bid for their business
  - firms’ price changes are much more coincident in time.
Cement cartels reported by employees:

- Argentina: "disgruntled employee revealed to a newspaper that the cement companies were exchanging information and dividing their market shares".
- Brazil: Former employee of Votorantim Cimentos reported cartel.

Why wait for them to depart or be disgruntled? *Incentivize them with financial rewards.*
Disabling Cartels
Whistleblower Rewards

Some cases in which employees suspected something was awry but did not report:

- **Carbonless paper:** “A Sappi employee admits that he had very strong suspicions that two fellow employees had been to meetings with competitors. They would come back from trade association meetings with a very definite view on the price increases that were to be implemented and ... were relatively unconcerned by competitor reactions.” (EC Decision, 2001)

- **Fine arts auction houses:** “Some of [Sotheby’s] personnel commented that they had a ‘feeling’ that the introduction of the fixed vendor’s commission structure may have arisen out of some sort of understanding with Christie’s.” (EC Decision, 2002)

Why fail to have them share their suspicions? *Incentivize them with financial rewards.*
Disabling Cartels
Whistleblower Rewards

Only four countries have whistleblower rewards

- South Korea (2005) - Rewards of up to 1 billion Korean Won (approx. 800,000€)
- United Kingdom (2008) - Rewards of up to £100,000 (approx. 135,000€)
- Hungary (2010) - at least 1% of government fine up to a maximum of 50 million forints (approx. 160,000€)
- Taiwan (2015) - (details not yet released)
Disabling Cartels
Whistleblower Rewards

- DOJ has expressed opposition because “jurors may not believe a witness who stands to benefit financially from successful enforcement action against those he implicated.” (GAO Report, 2011)

- Concern seems misplaced because
  - rewards are paid only upon conviction and the standards for conviction are high.
  - very small percentage of cases go to trial.
  - an investigation initiated by a whistleblower is likely to induce a leniency application if there is a cartel.

- Recommendation: Allow a whistleblower’s company to apply for leniency.
  - If it induces a leniency application then the whistleblower’s credibility is substantiated.
  - Enhances an employee’s incentive to report.
Response of Collusive Practices to Effective Enforcement

Suppose a competition authority has had success in deterring hard core cartels.

- How might this impact future collusion?
- What can be done if collusion becomes less explicit?
Response of Collusive Practices to Effective Enforcement

Case: Market for turbine generators

- 1960: General Electric, Westinghouse, and Allis-Chambers were indicted for an explicit price-fixing cartel and subsequently convicted.
- 1963: GE decides to pursue "less explicit" collusion with Westinghouse (with Allis-Chambers having exited the market).

Practices

- GE released a pricing book that allowed one to compute the book price of any GE generator.
- GE announced a standard multiplier it would apply to the book price to calculate the final price.
- GE announced it would not offer discounts off of that final price.

Outcome

- GE and Westinghouse had identical multipliers and book prices for the next 12 years.
- They effected no generator price decreases.
Is the turbine generator market a microcosm of what will occur in BRICS and other countries that have experienced success?

- Prior to the introduction of competition laws, colluding firms will use the most effective methods to communicate and coordinate.
- With the introduction of competition laws, colluding firms are likely to pursue similar methods while making them clandestine.
- If a competition authority is effective in its enforcement, some colluding firms may turn to methods that are less susceptible to detection and prosecution.
Why do they engage in less effective communication methods?
Because it makes it more difficult to be detected and, in the event of detection, to be convicted.
Response of Collusive Practices to Effective Enforcement

- Challenge: More difficult to detect and prosecute because
  - some coordinating actions may be public and have legitimate rationales
  - direct contact is less frequent and extensive
  - leniency program is not as effective because there is less "smoking gun" evidence.

- Responding to these challenges
  1. Pursue cases that push the boundary of legal precedent regarding
     - liability - expand the definition of unlawful collusion
     - evidentiary standards - promote acceptance of economic evidence.
  2. Develop a legal environment conducive to private litigation.
Response of Collusive Practices to Effective Enforcement

*United States v. Foley* (1979)

- At a dinner party with competing real estate agencies, one firm announced it was raising its commission rate from 6 to 7%.
- No evidence of communications regarding a formal agreement.
- 7% commission rate was adopted over the ensuing months by many of those in attendance.
- Combination of an announced intention (among firms, excluding customers) and subsequent behavior proved sufficient for the court.

Case exemplifies

- less explicit collusion
- expanded evidentiary standards
Advance price announcements as a facilitating practice

- A firm announces a future price increase through some public medium.
- If rivals respond with similar announcements then proposed price increases are implemented.
- If rivals do not respond in kind then the initial firm retracts the proposed price increase.
  - Airlines submitted fare changes which were then disseminated to airlines and consumers through computer reservation systems.
  - A fare change with a future first ticket date was a pre-announcement of a future price change in that a consumer could not buy a ticket at that price until the first ticket date.
  - Consent decree prohibited the use of first ticket dates for ten years.
Response of Collusive Practices to Effective Enforcement
Price Signalling Using Advance Price Announcements

- **Australia (2012) - banking sector**
  - Law prohibiting anti-competitive price signalling and information disclosures in relation to taking deposits and making loans.

- **European Commission (2013) - container liner shipping**
  - Since 2009, companies made regular (and similar) public announcements of future price increases through press releases.
  - "This practice may allow the companies to signal future price intentions to each other and may harm competition."

- **Israel (2014) - "Public Comments Draft"**
  - "In recent years antitrust authorities worldwide ... have demonstrated increased interest in the competition difficulties arising from statements, information exchanges and messages between competitors that are overt and made in public."
"Invitation to collude" cases

- High-ranking company official publicly comments about the "excessive" intensity of competition.
- Proposes a plan that, if adopted, would reduce competition.

Free-standing newspaper inserts (FTC, 2006) - News American and Valassis.

- Valassis’ CEO opened the company’s second quarter earnings call in July 2004 by detailing its strategy to
  - abandon its 50 percent market share goal
  - aggressively defend its existing customer base and market share
  - submit price bids at levels substantially above current market prices
  - resume the price war if News America competed for Valassis customers.
Response of Collusive Practices to Effective Enforcement
Public Announcements of a Collusive Plan: Coordinated Price Increase

Truck rental market (FTC, 2010) - Budget and U-Haul

- U-Haul’s CEO instructed regional managers to raise prices above Budget’s rates and to "let Budget know" about the higher rate with the object of Budget matching it.
- Used an earnings call to coordinate with Budget.
  - Emphasized that U-Haul was demonstrating "price leadership."
  - Complained that Budget’s aggressive pricing strategy produced "turbulence that results in no economic gain for the group."
  - Conveyed that U-Haul managers had been instructed to "hold the line at a little higher [price]" in order for prices to "stabilize"
  - Suggested that he could tolerate a 3-5% price differential with Budget but that U-Haul would respond if its market share eroded.
Airline baggage fees (U.S. private litigation, on-going) - AirTran and Delta

- Plaintiffs claim that
  - AirTran announced that, while it was prepared to initiate a first-bag fee, it preferred “to be a follower . . . rather than a leader.”
  - Soon thereafter, Delta announced that it would begin charging a $15 first-bag fee, which was then matched by AirTran.

- Court concluded it was plausible to infer that AirTran and Delta used the analyst conferences to communicate with each other.
Response of Collusive Practices to Effective Enforcement
Public Announcements of a Collusive Plan: "Capacity Discipline"

Steel producers (U.S. private litigation, on-going)

- At a series of industry venues, senior executives conveyed a message of curtailing supply and reducing capacity.
  - Mittal executive: "If we are going to see improved conduct and thus improved performance, it will only be because the consolidation we have undergone encourages a change in behavior to match the industry structure. This means ... a focus on profits rather than on tons ..."
  - Steel Dynamics CEO: "I’ve been around the industry for 20 years. And I haven’t seen this kind of discipline ... everybody is, to some degree, giving that pint of blood."

- Plaintiffs claim that these public announcements were followed with output reductions and the shuttering of capacity in spite of projections of demand growth.
Airfares vs. Jet Fuel Costs
Airlines have modestly cut fares amid a sharp decline in jet fuel costs. Price change from year earlier:

- **Airfares**
- **Jet Fuel**

2002-2014: Load factor on U.S. passenger planes to U.S. airports went from 71.78% to 83.43%.

Fares have not fallen in spite of drastically declining jet fuel prices.

*Why has capacity not increased?*
July 2015 - U.S. Dept of Justice opened an investigation into collusion among airlines because:

- airlines seem to have decided to limit their capacities at roughly the same time.
- airline executives have expressed in public statements (such as at investor conferences and trade shows) their commitment to their new business model and the hope that other airlines will adopt it.
- June 2015 annual meeting of the International Air Transport Association - numerous airlines executives independently endorsed "capacity discipline."
Importance of private litigation in the U.S.

- Enhances corporate financial penalties by following up on government convictions.
- Shuts down cartels by initiating cases not pursued by the government.
  - Lande and Davis (2013): Of 60 recent large private antitrust suits, 40% of them were initiated by the plaintiffs.
  - Private litigants are more willing to take on "less explicit" collusion.
Response of Collusive Practices to Effective Enforcement

Develop a Legal Environment Conducive to Private Litigation

Competition authority attaches more weight to winning cases than to large penalties.

- May not be inclined to take on risky cases that would push the legal boundaries.
- Lande and Davis (2011)
  - DOJ obtained convictions in 92% of 699 cases filed over 1992-2008.
  - "The DOJ appears much more willing to tolerate a false negative (a failure to prosecute a violation of the antitrust laws) than a false positive (litigating a case when in fact there was no violation)."
Private litigants and plaintiff lawyers are more concerned with *expected profit* than the probability of winning.

- Willing to take on cases with low probability of winning as long as the damages could be large.

Combined public and private enforcement cover more legal ground because

- public enforcers are more willing to take on low payoff-high probability of success cases.
- private litigants are more willing to take on high payoff-low probability of success cases.
Response of Collusive Practices to Effective Enforcement

Develop a Legal Environment Conducive to Private Litigation

Fines or Damages

Public Enforcement

Private Enforcement

Cases pursued by private litigants but not by public enforcers

Cases pursued by public enforcers but not by private litigants

Probability of Success
Concluding Remarks

- Enforcement has significantly intensified but we do not yet know whether it has lowered the presence of cartels in economies.

- If enforcement is not proving successful (in lowering the cartel rate), this calls for more effort to discover and shut down active cartels by
  - not excessively relying on leniency programs
  - adopting whistleblower programs
  - engaging in screening.

- If enforcement is proving successful then firms may choose to engage in less explicit forms of collusion and this will call for
  - a broader notion of unlawful collusion
  - greater use of economic evidence to prove liability
  - an environment that promotes private litigation.