

Committing to raise expectations

*the interplay between competition
authorities and firms*

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All opinions expressed here are my own

Introduction

- Goal competition authority:
 - Effective competition;
 - Cartel deterrence & desistance.
- Cartel deterrence & desistance driven by:
 - Actual detection probability;
 - Expected detection probability.
- Both deterrence and desistance are important to competition authorities.

Introduction

- How to influence actual cartel detection probability
 - More efficient use of ‘capital’:
 - Improve investigative methods
 - Innovate investigative methods
 - More efficient use of ‘labor’:
 - Internal organization
 - Training personnel
 - Optimal allocation of resources

Introduction

- How to influence expected cartel detection probability
 - Change actual detection probability
 - Indirect observation by cartels
 - Detection lag
 - Communicating about investigative efforts or efficiency
 - Credibility
 - Commitment

Central questions

- Competition authorities communicate about investigative efforts to influence expected detection probability & increase deterrence
- Examples:
 - NL: Financial Sector Monitor & annual agenda
 - EC: Sector inquiries financial services & energy
 - IR: Several investigation in financial sector
 - UK: Setting up monitoring unit & annual agenda
- Will firms believe everything competition authorities communicate about their investigative strategies?

Lack of credibility

- Assume a competition authority can reallocate resources unnoticed (in the short term) by firms
- Suppose competition authorities claim to allocate resources t_1 to sector 1 and t_2 to sector 2, aiming to induce corresponding expectations.
- *This is not credible if given these expectations, the competition authority would want to reallocate resources.*



Lack of credibility

Utility of competition authority: improvement in welfare due to expected probability plus illegal profits of detected cartels in sector 1 and 2

$$U(\bar{\mathbf{t}}, \mathbf{t}) = \sum_{i=1,2} [W_i(\bar{t}_i) + \beta_i(t_i)\Pi_i(\bar{t}_i)]$$

Total budget is constrained

$$t_1 + t_2 = 1$$

Lack of credibility

Optimal allocation: marginal benefits of investing in sector 1 equal to marginal benefits in sector 2

$$\beta'_1(t_1)\Pi_i(\bar{t}_1) = \beta'_2(t_2)\Pi_i(\bar{t}_2)$$

In equilibrium: expected detection probability equal to actual detection probability

$$\bar{t}_i = h_i(\bar{t}_1, \bar{t}_2); \quad i = 1, 2$$

Commitment

If competition authorities can commit, expected allocation never differs from actual allocation

$$U(\mathbf{t}, \mathbf{t}) = \sum_{i=1,2} [W_i(t_i) + \beta_i(t_i)\Pi_i(t_i)]$$

$$t_1 + t_2 = 1$$

In equilibrium (Commitment v.s. No Commitment)

$$U(\mathbf{t}_C, \mathbf{t}_C) \geq U(\mathbf{t}_{NC}, \mathbf{t}_{NC})$$

Conclusions

- investigative efforts communicated to influence expected detection probability & increase deterrence
- Not all communications are credible
- Expected detection probabilities influenced more effectively if competition authorities can commit
- Some possible means to achieve commitment are
 - Hiring external consultants
 - Acquiring external financing
 - Publishing results of economic analysis
 - Making resource allocation transparent

Further research

- Objective function competition authority
- Asymmetric information
 - Internal organization of competition authorities
 - Uncertainty about competition authorities' or firms 'type' ('signaling')