

Vertical Relations (1)

6 octobre 2025

Introduction : vertical relations and vertical contract

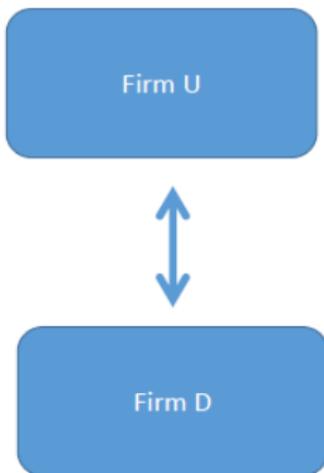
- Vertical relations : relations between firms that belong to the same vertical chain
- Many vertical externalities : promotional effort, input qualities...
- Critical issue : ensure vertical coordination
- For that purpose : vertical contract includes many provisions on :
 - revenue sharing between parties
 - constraints of firms' behaviour

Introduction : vertical restraints

- Revenue sharing : Non linear tariff
- Firms' behaviour :
 - Resale Price Maintenance
 - Exclusive territories
 - Exclusive dealings
 - Quantity fixing
- Economic issues : are these provisions pro/anti-competitive?

- Competition authorities' view of vertical restraints :
 - Agreements between non competitors : more lenient than for horizontal agreements
 - Agreements on prices are prohibited (RPM) except in the US
 - Other provisions are allowed except exclusionary provisions imposed by dominant firms : case by case examination

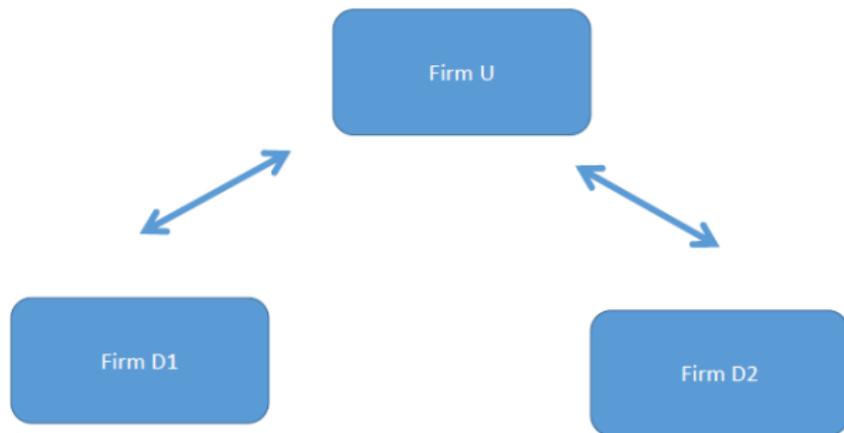
Vertical coordination



Introduction : main configurations

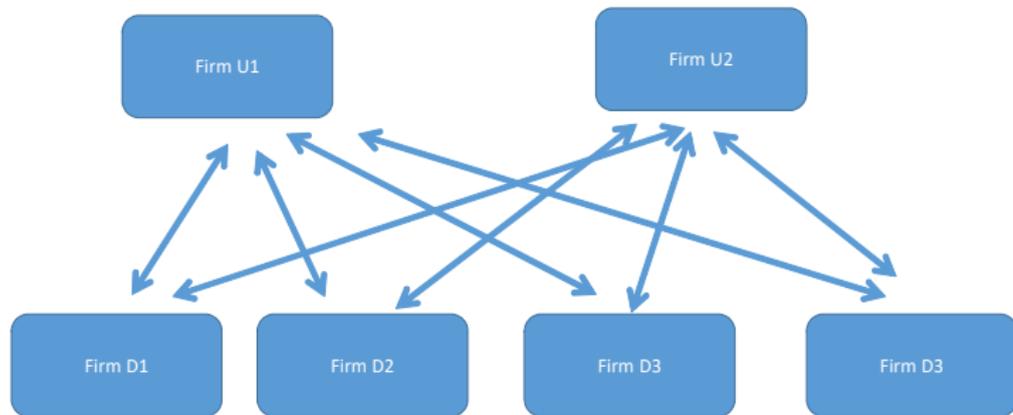
Vertical coordination with intra-brand competition

- Do Vertical restraints (exclusive dealing) exclude one retailer ?
- Do Vertical restraints (exclusive territories) restrain competition downstream ? (distribution of drugs, Pay-TV with geoblocking...)



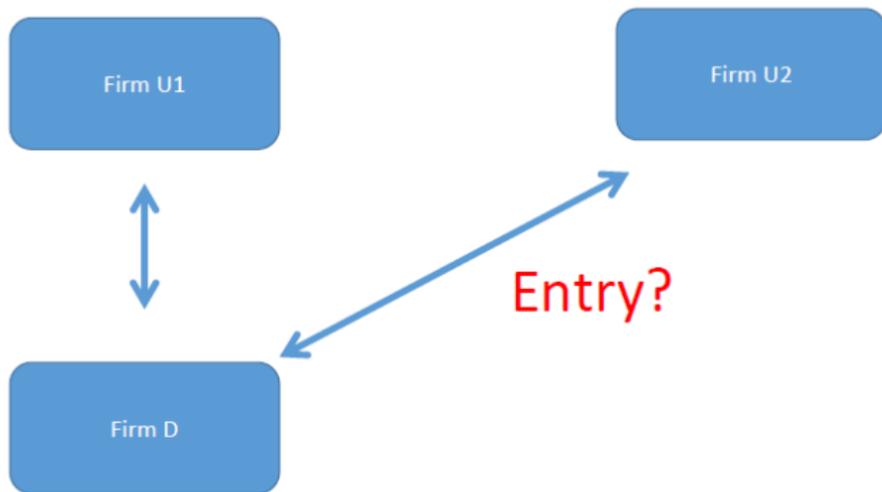
Introduction : main configurations

- Vertical coordination with inter-brand competition.
- Do Vertical restraints dampen competition ?
 - exclusive dealing to exclude some distributors
 - exclusive territories



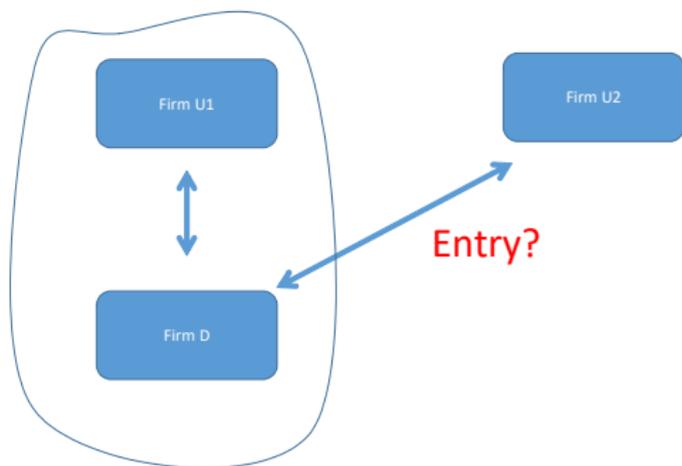
Introduction : main configurations

- Vertical coordination with interbrand competition
- Do Vertical Restraints deter entry (exclusive dealing contract between Apple and Qualcomm for chipsets)



Introduction : main configurations

- Vertical coordination with interbrand competition and with vertical integration
- Do Vertical Restraints deter entry (Google Shopping)



- ① Intra-brand competition
- ② Interbrand competition
 - ① Short run (no entry)
 - ② Long-run (entry)

- BP chapter 17
- *"Economics of vertical restraints", Handbook of Antitrust, Rey and Vergé, 2006, (RV)
- **Competition Policy*, Motta (chapter 6), (M)
- *"Exclusive dealing" (sections I to III), Bernheim and Whinston, 1998, *JPE*, (BW)

- Four main provisions studied : two-part tariff, RPM, exclusive territories and exclusive contracts

Intra-brand competition : double marginalization (M, RV)

- Two monopolies :
 - Producer (M) : unit cost c
 - Distributor (D) : demand $D(p)$. No cost
- Vertical contract : wholesale price w
- Firm D : $p^* = p^m(w) > w$
- Firm M : $Max (w - c)D(p^m(w))$. $w^* > c$
- Double marginalization : $w^* > c$ and $p^m > w^*$

Intra-brand competition : double marginalization

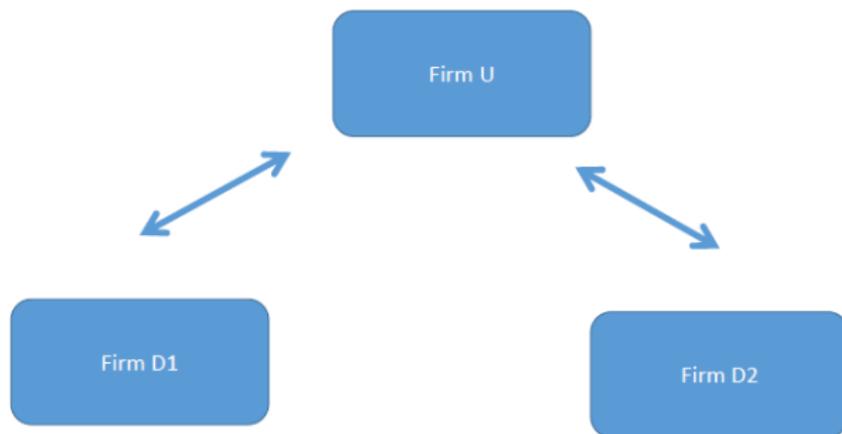
- Vertical integration : $Max(p - c)D(p)$
- Solution : $p^m(c) < p^m(w)$
 - Higher profit for the vertical structure
 - Lower price for consumers
- Vertical externality :
 - higher w has a negative externality on D
 - higher p has a negative externality on M

Intra-brand competition : double marginalization

- Vertical contract : F, w
- Firm M sets $w = c$ to maximize the vertical structure profit
- The fixed fee is set to share the maximized profit.
- The contract is better for all parties : both firms and consumers
- Other possible contract : RPM with $p = p^m(c)$ and w to share the profit

Intra-brand competition : promotional effort (M)

Idea : retailer services have a public good dimension. Risk of under provision



- First work : Mathewson and Winter, 1994, *AER*
- The vertical structure :
 - Monopoly upstream (cost c)
 - Duopoly downstream : total demand : $D(p, e) = v + e - p$
- Promotional effort (retail services) :
 - public good : $e = e_1 + e_2$
 - cost $c(e) = e^2$
- Effort e_i non contractible

- Benchmark : vertical integration (no externality).
- Determine : e^{VI} and p^{VI}
- Vertical separation with linear contract : e^{VS} and p^{VS} ?
- The Game :
 - 1 U proposes contracts $(w_i; F_i)$ to each D_i (public)
 - 2 D_i chooses e_i
 - 3 Bertrand competition between D_i

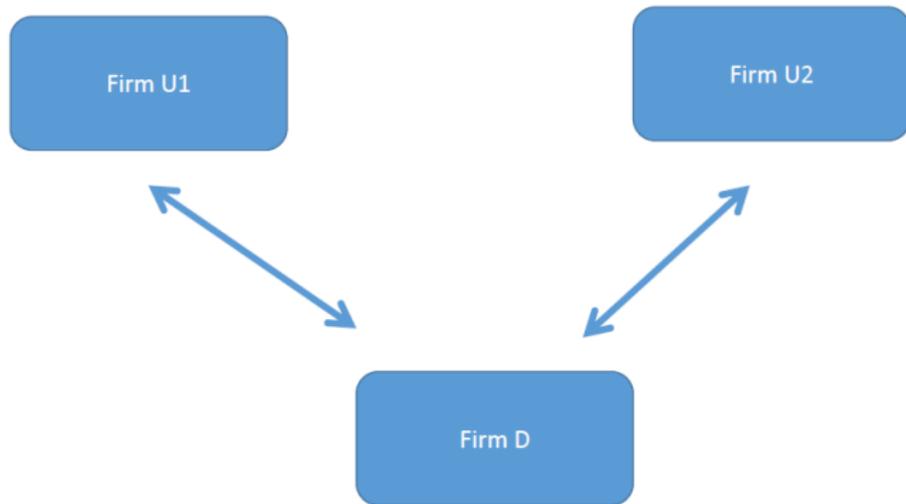
- Which VR are required to reproduce VI ?
- Exclusive territories with Non linear tariff ?
- RPM with Non linear tariff ?

- Vertical restraints improve vertical coordination
- Provisions may be substitutes
- Does competition between vertical chains dampened by vertical restraints?

- Contractual provisions may soften competition between vertical chains (brands)
 - in the short run : make competition softer
 - in the long run : exclusion of more efficient competitors
- We consider here : are exclusive contracts anticompetitive ?

Inter-brand competition : exclusive dealing

Does one producer impose ED to avoid competition ?



Inter-brand competition : exclusive dealing

- Argument developed by Bernheim and Whinston, 1998
- Two producers 1 and 2 and one retailer (common agency, D)
- Retailer : utility : $u(q_1, q_2)$
- Producer i : production cost c and tariff : $T(q_i) = p_i q_i + F_i$
- Public contracts

Inter-brand competition : exclusive dealing

- Full integration : $Max u(q_1, q_2) - cq_1 - cq_2$
- We assume that $q_i^{**} > 0$
- Full profit : Π^{**}
- Can producers share Π^{**} ?

The game :

- 1 Upstream firms propose contracts
- 2 Firm D accepts a contract
- 3 Firm D sells the products

We consider exclusive contracts and non exclusive contracts