

Market definition

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Market definition and market power

- Market definition is an essential element of a plaintiff's case
- Core issue in most antitrust cases
- The goal is to identify the “area of effective competition” in which to assess market power. What does that mean?
- Boils down to two questions and a limited universe of acceptable answers
 - “Who competes with the defendant(s)?”
 - (a) Whoever sells **reasonable substitutes**—*demand side, product (and trade area) focus*
 - (b) Whoever could enter the market quickly to sell reasonable substitutes—*supply side*
 - “How significant are those competitors?”
 - (a) Direct evidence (e.g., ability of defendant(s) to raise prices without losing sales)
 - (b) Circumstantial evidence (e.g., market shares and entry barriers)

Product market: hM + SSNIP

Not profitable
Not a market

10% price increase
30% drop in quantity

P1

Step 1: The hypothetical monopolist (HM) raises prices by 10% and loses 30% of its customers. The price increase is not profitable. (Price elasticity of demand = 3). P1 is not a relevant product market.

Not profitable
Not a market

10% price increase
20% drop in quantity

P1
P2

Step 2: We add another product, P2. The HM increases price for P1 and P2. Still not profitable.

Not profitable
Not a market

10% price increase
15% drop in quantity

P1
P2
P3

Step 3: Yet another product, P3. The HM increases price for P1, P2, and P3. Still not profitable.

Profitable
= Market

10% price increase
8% drop in quantity

P1
P2
P3
P4

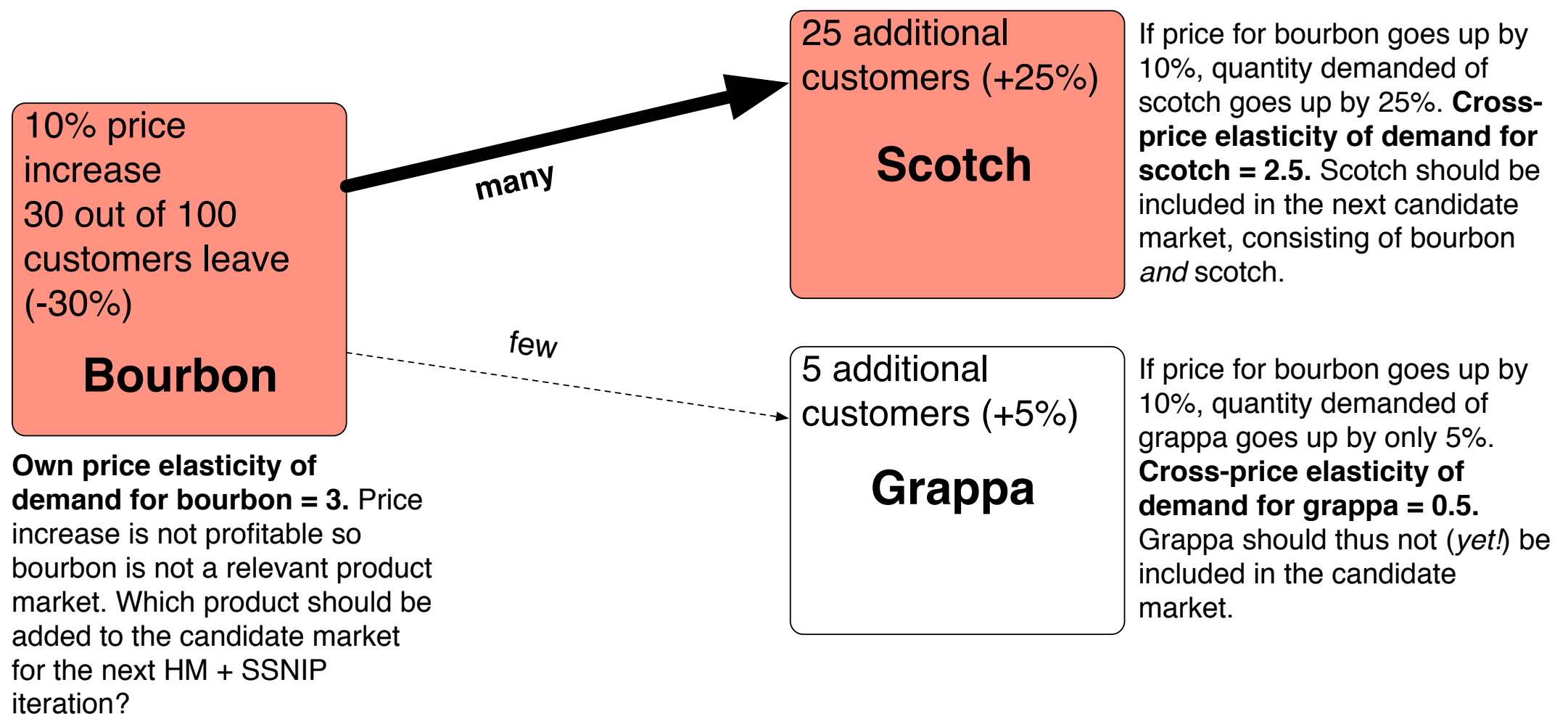
Step 4: Finally, after adding P4, a price increase over P1, P2, P3, and P4 would be profitable. (Price elasticity of demand = 0.8). The relevant product market consists of P1, P2, P3, and P4.

Note that the focus on revenues is only the first step. The question of profitability also depends on costs. A complete analysis would have to calculate the *critical loss*.

How do we know which products to add?

- The hypothetical monopolist (hM) + SSNIP test identifies relevant markets using the own price elasticity of demand for the hM's products (P1, P2, P3, P4)
 - The own price elasticity tells us that if prices go up by $p\%$ then $q\%$ of the customers go elsewhere. It doesn't tell us where they are going. That's where cross-elasticity of demand comes in.
- Cross elasticity helps us identify products to add to the candidate markets (P2, P3, P4)
 - E.g., high cross-elasticity suggests adding tangerine juice (P2) but not milk to orange juice (P1)

Using own and cross price elasticity of demand

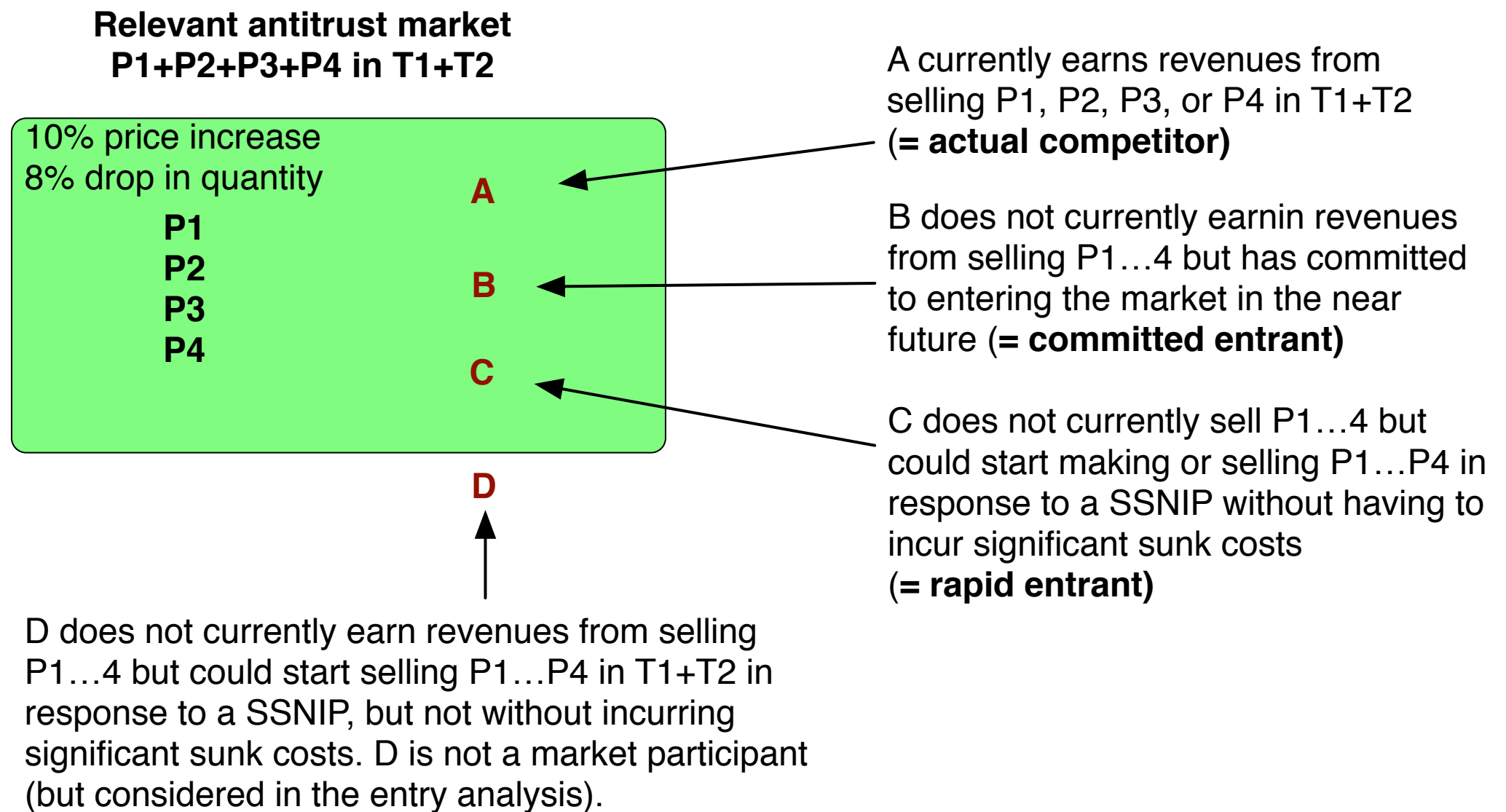


Note: The 30 customers = 30%, 25 customers = 25%, etc. numbers are for illustration only. What counts are the %, not the absolute numbers. Similarly, what's significant is the decrease in *quantity demanded*. Losing "customers" is just a commonly used shorthand for a drop in quantity demanded.

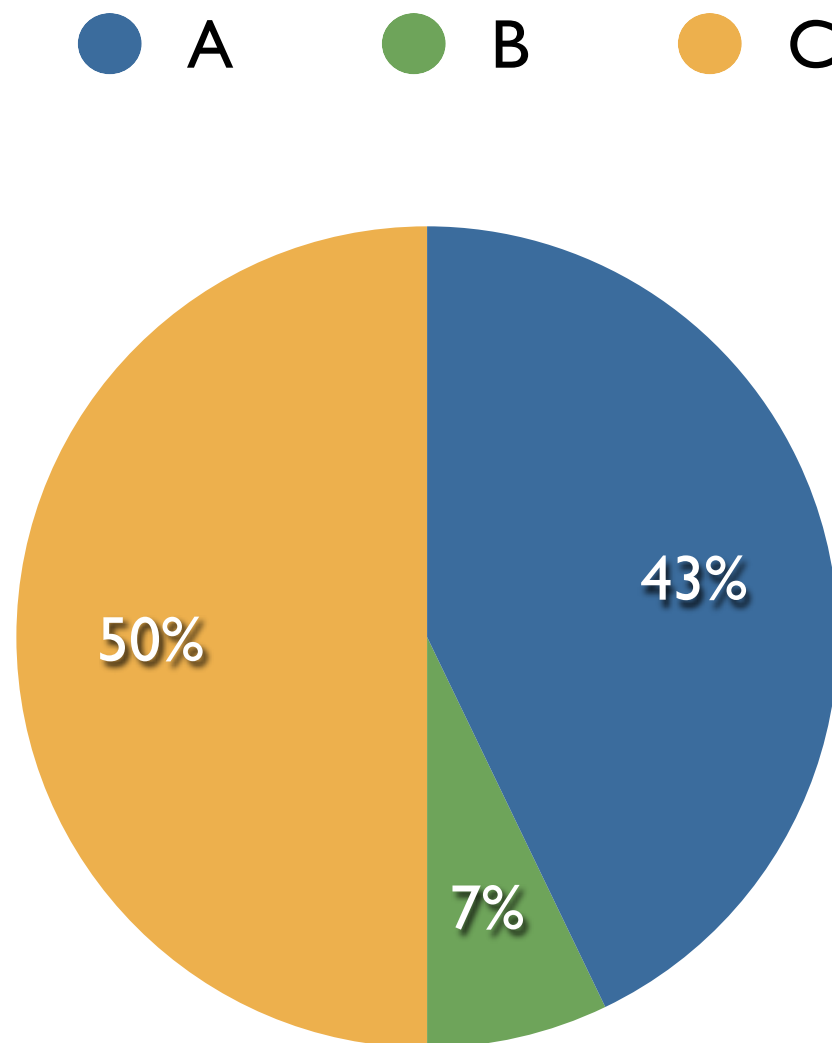
Geographic market definition: Same test

- Take the set of relevant products (P1, P2, P3, P4)
- Start with the smallest reasonable candidate territory (T1). Would a SSNIP by the hM for P1, P2, P3, and P4 in T1 be profitable?
 - Depends on how many customers who are presently purchasing from within T1 would switch to sources located outside of T1 (own price elasticity of demand)
- If not, expand the territory (T1, T2...Tn) and repeat, until the price increase would be profitable
 - Identify candidates for T2...Tn based on cross price elasticity of demand (if prices in T1 go up, demand in T2 increases)

Identify the market participants on the basis of the products the market



Assign market shares



- A makes P1 (\$100,000) and P2 (\$50,000)
- B will make P3 (\$25,000)
- C could easily make P2 (\$75,000) and P4 (\$100,000) in the event of a SSNIP
- D could make P3 (\$125,000) in the event of a SSNIP
- Market size = \$350,000
 - \$100,000 + \$50,000 + \$25,000 + \$75,000 + \$100,000
 - Not D's \$125,000, because D is not a market participant

Beware of the Cellophane fallacy

U.S. v. E. I. du Pont de Nemours, 351 U.S. 377 (1956)

- Δ 's argue: "Because P5 is a good substitute for P1 it should be in the relevant market."
 - The mere fact that demand for P5 goes up by 20% in response to a 10% price increase of P1 (= high cross elasticity of demand) doesn't imply that P5 is a good substitute for P1 at the competitive price. It only tells us that at the prevailing price P5 is a good substitute for P1.
 - The prevailing price, however, may well be the monopoly price!
- The Cellophane fallacy is less of a problem in *ex ante* merger analysis, because of its focus on incremental market power gains from the proposed merger
- The Cellophane fallacy, however, can be a serious challenge in monopolization cases