



punishments, in the discretion of the court.

#### Mode of analysis

Monopolization claims proceed under a rule-of-reason sort of analysis, but courts tend not to use the label "rule of reason" for § 2 claims like they do for § 1 claims.

#### **Monopolization elements**

"The offense of monopol[ization] under §2 of the Sherman Act has two elements: (1) the possession of monopoly power in [a] relevant market and (2) the willful acquisition or maintenance of that power as distinguished from growth or development as a consequence of a superior product, business acumen, or historic accident."

United States v. Grinnell Corp., 384 U.S. 563, 570-71 (1966)

# **Monopolization elements**

(1) monopoly power in a relevant market

(2) exclusionary conduct

a/k/a "anticompetitive conduct,"
"predatory conduct," "monopoly
conduct"

#### **Monopolization elements**

- (1) monopoly power in a relevant market
  - 1. monopoly power
  - 2. a relevant market
    - a) product market
    - b) geographic market
- (2) exclusionary conduct





# Monopoly-level market share

The law doesn't say exactly what market share constitutes monopoly power (MP), but some flags have been planted:

- 87% "leaves no doubt" that MP exists
- 80-95% is enough for ∏ to survive summary judgment on MP issue
- 75% means MP "may be assumed"
- >66% might be MP
- 50% is the bare minimum for MP for many lower courts
- 30% is insufficient even for §1 market power

(See p. 226 of Elhauge, 3d ed.)



# **Monopolization elements**

(1) monopoly power in a relevant market

- 1. monopoly power
- 2. <u>a relevant market</u>
  - a) product market
  - b) geographic market

(2) exclusionary conduct

#### Product market definition

"In considering what is the relevant market for determining the control of price and competition, no more definite rule can be declared than that commodities <u>reasonably</u> <u>interchangeable by consumers</u> for the same purposes make up that 'part of the trade or commerce', monopolization of which may be illegal."

U.S. v. E. I. du Pont de Nemours & Co., 351 U.S. 377, 395 ("The Cellophane Case") (1956)

























# **Cross-Price Elasticity of Demand**

Formula:

CPED =  $(\%\Delta \text{ Qd of B})/(\%\Delta \text{ P of A})$ 

CPED = cross-price elasticity of demand

 $\Delta$  = percent change

Qd = quantity demanded

B = product B

A = product A

P = price

# Cross-Price Elasticity of Demand $CPED = (\%\Delta Qd \text{ of } B)/(\%\Delta P \text{ of } A)$ If the price of 8-foot redwood 2x4 decking timbers goes up from \$10 to \$50, then the demand for boxes of decking screws goes down 75%. What is the CPED? CPED = (-75%)/(400%) = -0.18A <u>negative</u> CPED means the goods are complementary goods.























#### FTC/DOJ merger guidelines' Hypothetical Monopolist Test

A "relevant product market" is one where, if one firm was the only seller of that product, they would be able to impose a small but significant and nontransitory increase in price (SSNIP). "Small but significant" is quantified at at least 5%. *Consider*:

- All paper manufactured from trees felled on a Tuesday in Klamath County, Oregon.
- All wine manufactured from grapes grown in Napa County, California.
- All blueberries never exposed to chemical herbicides and insecticides and therefore certifiable as "organic."

# **Monopolization elements**

(1) monopoly power in a relevant market

- 1. monopoly power
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#### Geographic market

A geographical market is the geographical area in which customers are willing to go to find substitutes in response to an increase in price and where suppliers are willing to come in response to an increase in price.

# Geographic market

Consider:

- Every gas station within a three block radius of the law school raises prices by 5% over rivals outside that zone.
- Every gas station in Norman raises prices by 5% over rivals outside the city.
- Every gas station in Oklahoma raises prices by 5% over rivals outside the state.

#### Geographic market

Consider:

- All carpet cleaning services in Norman raise their prices by 5% over rivals outside the city.
- All carpet cleaning services in the Oklahoma City metro area raise their prices by 5% over rivals outside the metro.
- All carpet cleaning services in Oklahoma raise their prices by 5% over rivals outside the state.





It's mostly about market share ...

But also relevant are:

- barriers to entry
- capacity constraints
- changing consumer demand
- demand elasticity

#### Monopoly power

It's mostly about market share ... But also relevant are:

- barriers to entry
- future capacity constraints
- changing consumer demand
- demand elasticity

#### Barriers to entry

Key point: Even if a firm has 100% market share, there will be no monopoly power if there are no barriers to entry - meaning it is very easy for competitors to jump into the market.

#### Barriers to entry

Barriers to entry are things that stop market entrants. If there are no barriers to entry, then it is easy for competitors to spring up.

Examples of barriers to entry:

- huge fixed costs, start-up costs
- government regulations
- patents, other IP rights
- lack of access to needed inputs or essential resources
- network effects



#### Monopoly power

It's mostly about market share ... But also relevant are:

- barriers to entry
- future capacity constraints
- changing consumer demand
- demand elasticity

#### Monopoly power: future capacity constraints, changing consumer demand, demand elasticity

#### future capacity constraints

- If an alleged monopolist won't be able to produce in the future, then it may have no monopoly power, such as a coal company that is out of coal reserves. changing consumer demand
- If consumers no longer want the alleged monopolist's product going forward, than past dominant market share may not be probative.

#### demand elasticity

• Even with overwhelming market share, if consumers can very easily do without the product, then an alleged monopolist may not have monopoly power.

# Monopolization analysis to-do list

(1) monopoly power in a relevant market

- 1. figure out the relevant product market
- 2. figure out the relevant geographical market
- 3. look at the market share
- 4. consider barriers to entry
- 5. consider whether future capacity constraints, changing consumer demand, or demand elasticity might let an alleged monopolist off the hook

(2) exclusionary conduct

[for this analysis, you'll use what we cover next ... ]



#### Hypo: Landers Lawn Care

Hypo: In Verdant Valley, a town of 50,000 people that is a three-hour drive from any other town, there is only one provider of lawn mowing services: Landers, which has 238 customers. The closest there is to other firms providing such a service are arborists that trim trees. *Does Landers have monopoly power*?

#### Hypo: Landers Lawn Care

Does Landers have monopoly power? Almost certainly not. The relevant product market appears to be lawn mowing services. Arborists are a separate market, because tree trimming is not reasonably substitutable for lawn mowing. The relevant geographical market appears to be Verdant Valley, because you can't take your lawn out of town to be mowed, and probably no one is going to drive six hours round-trip to mow your lawn. The market share in this market is 100%. That's more than sufficient for monopoly power just in terms of market share, but there are essentially zero barriers to entry. Anyone can get a lawn mower and start mowing people's lawns.

#### Hypo: Facebook

Hypo: Let's stipulate that the relevant product market is social-networking services that allow friends to post, view others' posts, make comments and register likes - with integrated messenger functions, and that the relevant geographic market is the world. Let's suppose Facebook's share of this market is 93%. Does Facebook have monopoly power?

(This is for discussion in class ... There's no pre-prepared answer slide.)

#### Hypo: Vayatom

Hypo: Suppose Vayatom builds nuclear power plants for electric utilities, and suppose it costs \$4 billion to build a staff of engineers and to design and test a new nuclear reactor and plant facility that can be marketed. Vayatom has:

- 85% of the new nuclear plant market worldwide
- 100% of the new nuclear plant market in the USA
- 7% of the new power plant market in the world
- 1% of the new power plant market in the USA
   Does Vayatom have monopoly power?

(This is for discussion in class ... There's no pre-prepared answer slide.)