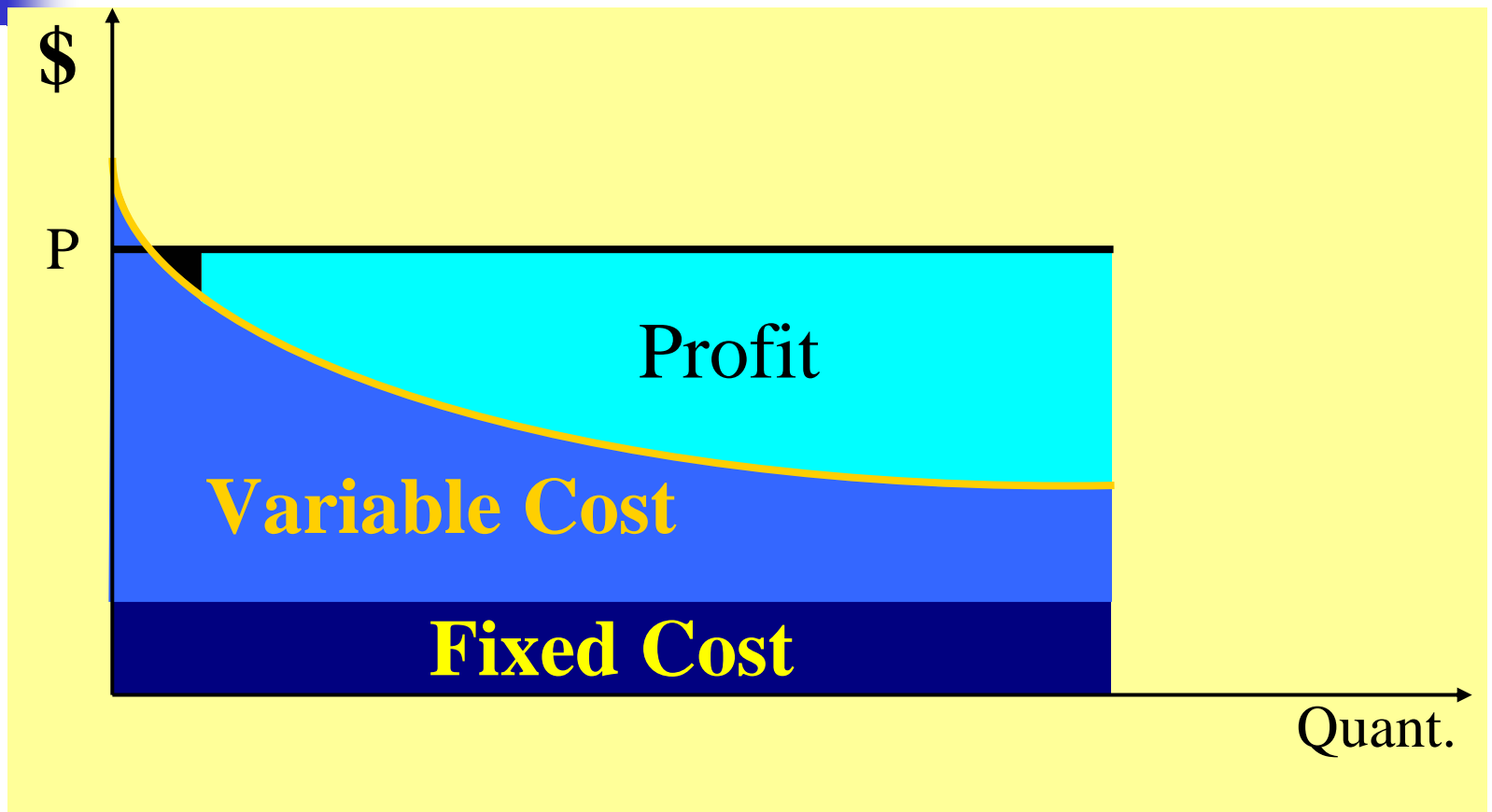




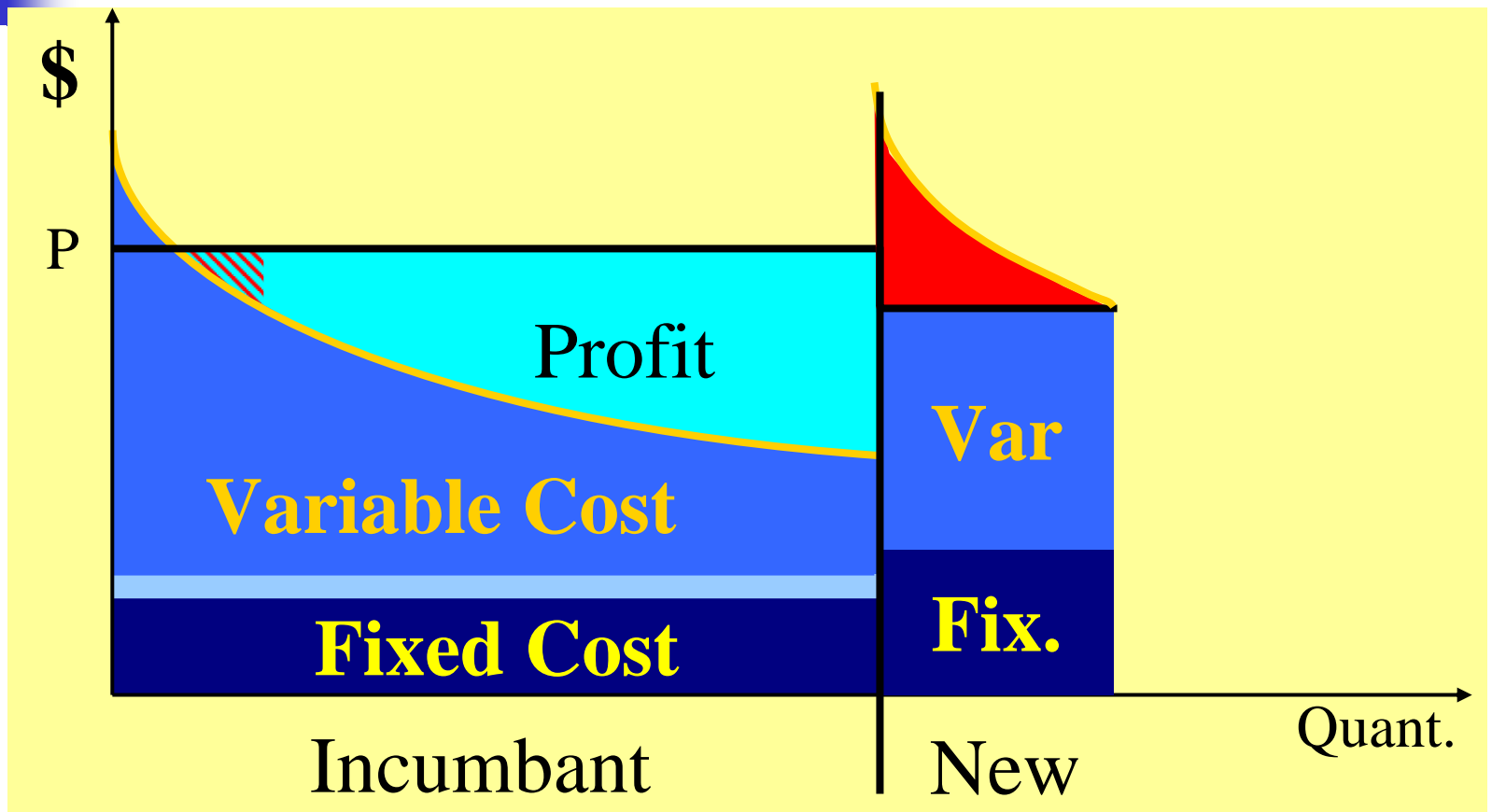
Barriers to Entry

- Know How
- Reputation
- Patents
- Capital Investments
- Product Differentiation
- Raw Materials
- ...

Barriers to Entry



Barriers to Entry





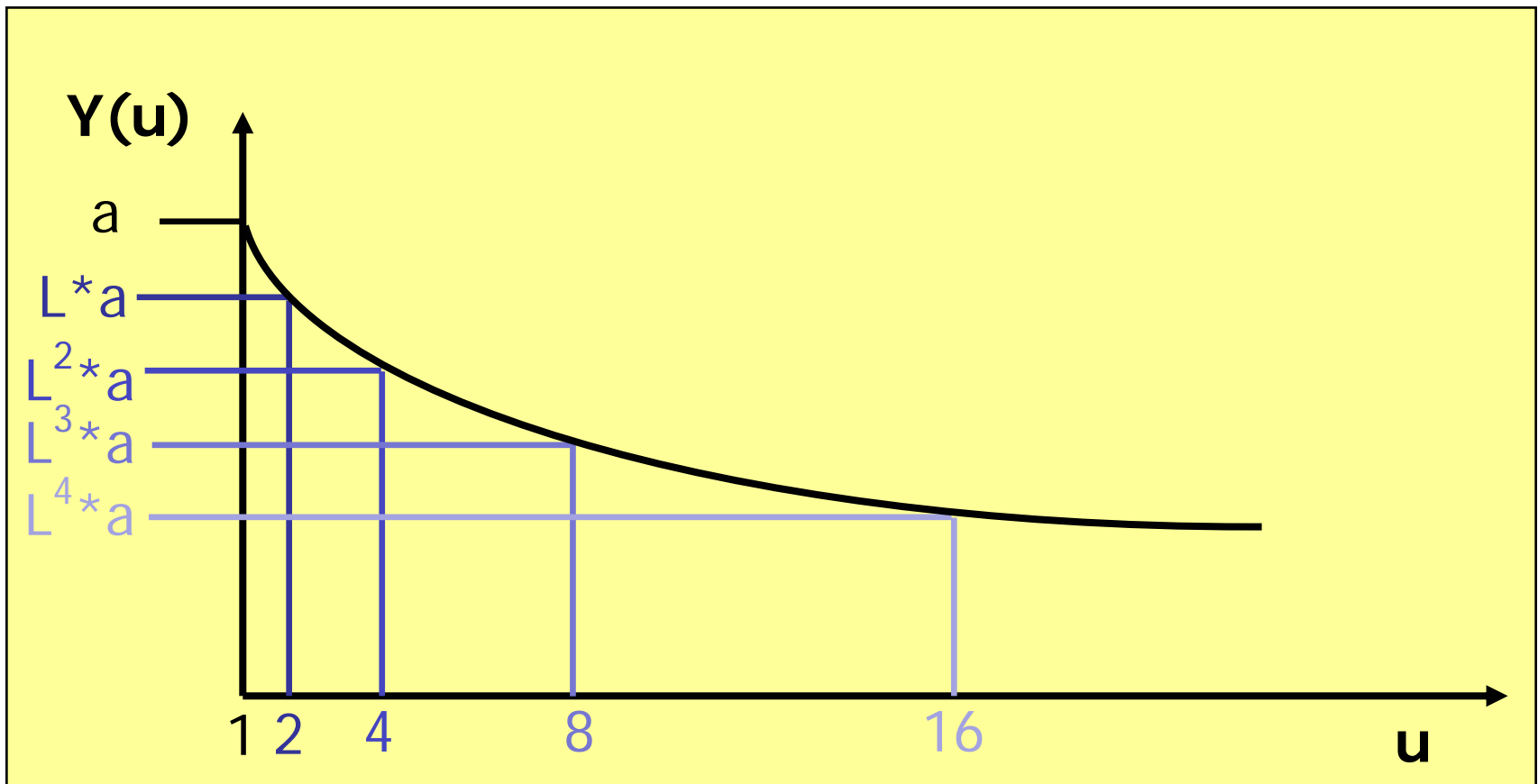
Learning Curves

- $Y(u) = a u^{-b}$
- $Y(u)$ = labor hours for u -th unit
- a = labor hours for first unit
- b = rate at which marginal hours decrease

$$\frac{y(2u)}{Y(u)} = \frac{a(2u)^{-b}}{au^{-b}} = 2^{-b} = L \qquad b = -\frac{\ln(L)}{\ln(2)}$$

- L = Learning Factor in %
It expresses by how much Labor Hours are typically reduced when the production quantity doubles.

"L%" Learning Curve





Wrap Up

- Hi Cost Low Volume Environments
 - Project Management
 - Risk Management
- Barriers to Entry
- Learning Curves
 - Dynamic vs. Static Learning
- Parameter Estimating Techniques