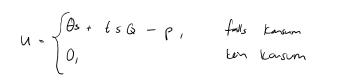
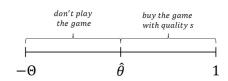
BA_Patrice_Bolz_Calculations_1

Tuesday, December 3, 2024 2:54 PM

PZP





$$\widehat{\theta}s + \xi sQ - \rho = 0 \qquad | + \rho | -\xi sQ$$

$$\widehat{\theta}s = \xi sQ + \rho \qquad | : s$$

$$\hat{\theta} = \ell Q + \frac{\rho}{s}$$

$$\rightarrow n - \hat{\theta} = Q$$

$$\Lambda - tQ - \frac{P}{S} = Q \qquad |+ tQ$$

$$\Lambda - \frac{P}{S} = Q + tQ$$

$$\frac{S}{S} - \frac{P}{S} = Q(\Lambda + t) \qquad |:()$$

$$\frac{s-p}{s(n+t)} = Q$$

Profit Maximization

$$\max_{\ell} T = \rho \cdot Q = \rho \left(\frac{s - \rho}{s(n + \epsilon)} \right)$$

$$\frac{\partial T}{\partial \rho} = \frac{s - 2\rho}{s(n+t)} = 0 \qquad |\cdot s()|$$

$$s - 2\rho = 0$$

$$\rho^* = \frac{s}{2}$$

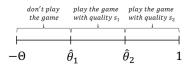
$$Q^* = \frac{S - \frac{s}{2}}{S(n+t)} = \frac{\frac{n}{2}s}{s(n+t)}$$

$$\Rightarrow \frac{s}{s(n+t)}$$

$$T^* = p^* \cdot Q^* = \frac{S}{S} \cdot \frac{\Lambda}{(\Lambda + \epsilon)S}$$
$$= \frac{(\Lambda + \epsilon) 4}{(\Lambda + \epsilon) 4}$$

F2P

$$U = \begin{cases} \theta s_2 + t s_2 & \theta - \rho_2, & \text{falls } s_1 \text{ konsumer} \\ \theta s_n + t s_n & \theta - \rho_n, & \text{falls } s_2 \text{ konsumer} \\ \theta, & \text{ken konsum} \end{cases}$$



$$\frac{1}{\theta_{n}} \cdot \int_{S_{n}} ds \cdot \int_{S_$$

$$\frac{2 \cdot \ln l \cdot \operatorname{consum} \cdot \hat{\theta}_{2}}{\theta_{2} s_{2} + t \cdot Q - \rho_{1} = \theta_{1} s_{1} + t s_{1} \cdot Q - \rho_{1}} \qquad \left[Q = (1 - \theta_{1}) \right]$$

$$\frac{\theta_{1} s_{2} + t s_{2} (1 - \theta_{1}) - \rho_{2} = \theta_{1} s_{1} + t s_{1} (1 - \theta_{1}) - \rho_{1}}{\sqrt{2}}$$

$$\frac{\partial}{\partial z} s_{2} + t s_{2} (1 - \hat{\theta}_{1}) - \rho_{2} = \hat{\theta}_{1} s_{1} + t s_{1} (1 - \hat{\theta}_{1}) - \rho_{1}$$

 $\hat{\theta}_{z}(s_{z}-s_{1})++(\Lambda-\hat{\theta}_{1})(s_{z}-s_{1})=P_{z}-P_{1}$

Spieler muss indefferent sein.

Daher handelt es sich hire
um die sliche Person und

B beschricht ihn

$$\hat{\theta}_Z = \frac{\ell_2 - \ell_1}{S_2 - S_1} - \mathcal{L}(\Lambda - \hat{\theta}_1) \qquad | \quad \text{Substitute } \hat{\theta}_1 \quad \text{mit GI.} \quad (1)$$

$$\hat{\theta}_{2} = \frac{\rho_{2} - \rho_{1}}{S_{2} - S_{1}} - \ell \left(1 - \frac{\rho_{n} - \ell \cdot S_{1}}{(n - \ell) S_{1}} \right)$$

$$\hat{\beta}_2 = \frac{\rho_2 - \rho_1}{S_z - S_1} - t \cdot \left(\frac{S_2 - \xi_2 - \rho_1 + \xi_2}{(1 - \xi)S_2} \right)$$

$$\hat{\theta}_{1} = \frac{\rho_{2} - \rho_{1}}{S_{2} - S_{1}} - t \cdot \left(\frac{S_{1} - \rho_{1}}{(1 - t)S_{1}} \right)$$

Profit Maximization

$$\max_{P_1 \in P_2} T = P_1 \left(\hat{\theta}_2 - \hat{\theta}_1 \right) + P_2 \left(1 - \hat{\theta}_2 \right)$$

$$T = P_{1} \left(\frac{P_{2} - P_{1}}{S_{1} - S_{1}} - \frac{t \cdot (s_{1} - P_{1})}{(1 - t)s_{1}} - \frac{P_{2} - ts_{1}}{(1 - t)s_{1}} \right) + P_{2} \left(1 - \frac{P_{1} - P_{1}}{S_{2} - S_{1}} + \frac{t \cdot (s_{1} - P_{1})}{(1 - t)S_{1}} \right)$$

$$\frac{\partial \pi}{\partial \ell_2} = 1 - \frac{2\ell_1 - \ell_1}{s_2 - s_1} + \frac{\ell(s_1 - \ell_1)}{(1 - \ell)s_1} + \frac{\ell_1}{s_2 - s_1} = 0$$

$$1 - \frac{2(\beta_2 - \beta_2)}{S_2 - S_2} + \frac{\xi \cdot (s_2 - \beta_2)}{(4 - \xi) s_2} = 0 \qquad \left| - \left(S_2 - S_2 \right) \right|$$

$$(s_2-s_1)-2(\beta_2-\beta_1)+\underbrace{\{\cdot(s_1-\beta_1)(s_2-s_1)\}}_{(n-\epsilon)s_n}$$

$$\frac{s_2-s_n}{2}-\left(\ell_2-\ell_1\right)+\underbrace{t\left(s_n-\ell_n\right)\left(s_2-s_n\right)}_{\left(n-\epsilon\right)s_2\cdot 2}=0$$

$$\ell_2 = \frac{(s_2 - s_1)}{2} + \frac{(s_1 - s_1)(s_1 - s_2)}{(1 - t)s_1 \cdot 2} + \beta_1$$

$$\frac{\partial T}{\partial \rho} = \frac{\rho_2 - \rho_1}{S_2 - S_1} - \frac{(n-\epsilon) \rho_1}{(n-\epsilon) S_1} - \frac{\rho_2}{S_2 - S_2} - \frac{(n-\epsilon) \rho_1}{(n-\epsilon) S_2} + \frac{\rho_2}{S_2 - S_2} + \frac{-\epsilon \rho_2}{(n-\epsilon) S_2}$$

$$\frac{2(\rho_2 - \rho_1)}{S_2 - S_1} - \frac{2(A + t)\rho_1}{(A + t)S_1} - \frac{\rho_2 t}{(A - t)S_1} = 0$$

$$\frac{2(\rho_2 - \rho_1) s_1}{(s_2 - s_1) s_1} - \frac{2 \rho_1(s_2 - s_1)}{(s_2 - s_1) s_1} - \frac{\rho_2 t}{(1 - t) s_2} = 0$$

$$\frac{2P_2S_1 - 2P_1S_1 - 2P_1S_1 + 2P_1S_1}{(S_2 - S_1)S_1} - \frac{p_2f}{(1-t)S_1} = 0 + \frac{2p_1S_1}{(S_2 - S_1)S_1}$$

$$\frac{2\rho_{2}s_{1}}{(s_{2}-s_{1})s_{1}}-\frac{\rho_{2}t}{(n-t)s_{1}}=\frac{2\rho_{1}s_{2}}{(s_{2}-s_{1})s_{1}} \left| (s_{2}-s_{1})s_{1} \right|$$

$$2 p_2 s_1 - \frac{p_2 + (s_2 - s_1)}{(1 - t)} = 2 p_1 s_2$$
 | $2 s_2$

$$\rho_1 = \frac{\rho_2 s_n}{s_2} - \frac{\rho_2 t (s_2 - s_n)}{(n - t) 2 s_n}$$

Es Wurden für die Paramete andere Zeichen Verwendet: