↳ Umweltschutz

Ökologie vs. Ökonomie

Kosten!

↓

① techn. Umwelt normen
- BImSchG
  ↳ TA Luft, Wasser
- KrWAG
  ↳ Verp. VO

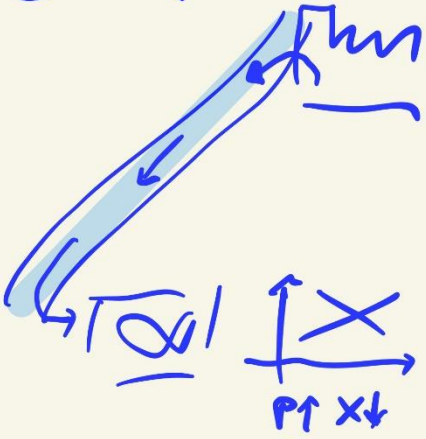
→ UGB

Ökologie durch Ökonomie *

Ökonomisches Prinzip!

↗ nächste LV
- Pigou-Steuer
- Emissionshandel

① Pigou-Steuer



↳ externe Effekte internalisiert

P↓ X↑

Steuer → variable + X weg steuern

↓

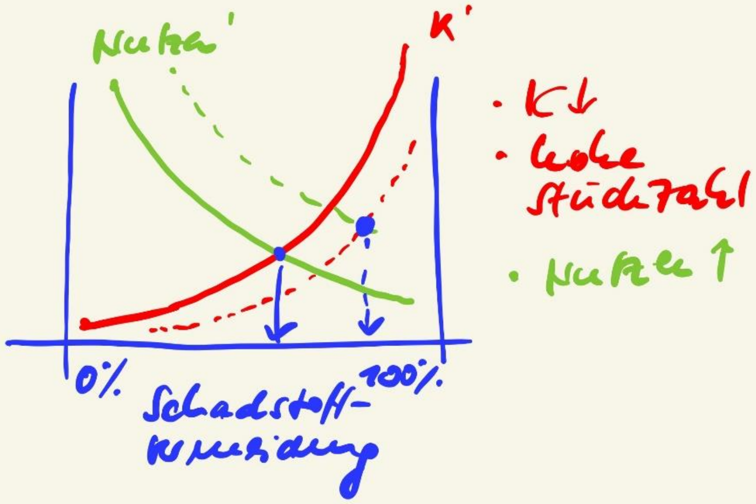
Staat

Nachteile ← weg subventionieren

Problem: Quantifizierung → hohe Informationskosten

↗...

Coase



Emissionshandel

Staat Kontrolle → [L] ← Output
← Stand der Technik
← zeitlich befristet

vorzeitig ↓ A

nachträglich ↓ N

(A < N)

↑ PT

↑ Refinanzierung der Umwelt-Investition

neuer Markt

2005

~~Output~~

→ Referenzjahr 1999 2000

→ Ausgabepreis = 0,-

→ zu große Menge

Nachfrage: merit goods

N

$X_A = 2P + 5$ $\quad X_N = -0{,}5P + 10$

$X_A = X_N$

$2P + 5 = -0{,}5P + 10$

$2{,}5P = 5$

$P = 2 €/kg$

$X_A = 9$ Mill kg

$X_N = 9$ Mill kg

MP

$X_A = 2 \cdot 4 + 5 = 13$ Mill. kg $\quad X_N = -0{,}5 \cdot 4 + 10 = 8$ Mill kg

$\Delta X = 5$ Mill kg

$U = \Delta X \cdot MP = 20$ Mill. €

Prohibitivpreis:

$X_N = 0 = -0{,}5P + 10$

$P = 20\ €/kg$ ← ?

Freundsätze für A und N

① Nachfrage H. H. v. Gossen

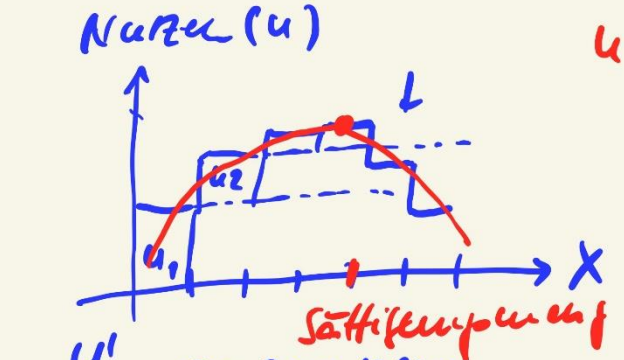
X_N ?

40°C

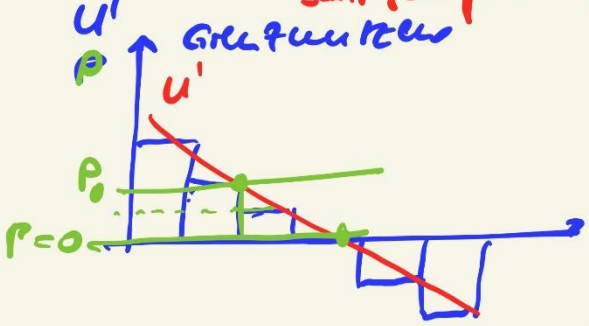
10 km

8L

$u' = P$



$u = f(x)$



$u' = \Delta u$ bei $\Delta x = 1$

$k' = \Delta k$ bei $\Delta x = 1$

$E' = \Delta E$ bei $\Delta x = 1$

$u' > p \rightarrow$ kauf

$u' = p \rightarrow$ kauf

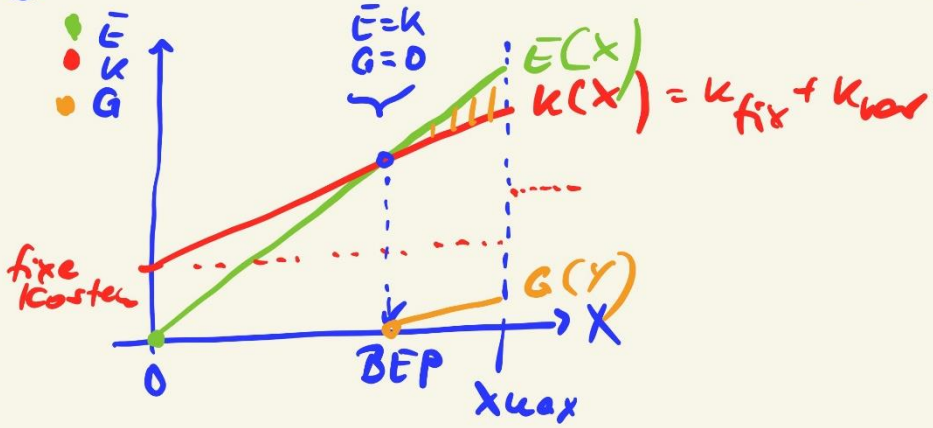
$u' < p \rightarrow$ kein Kauf

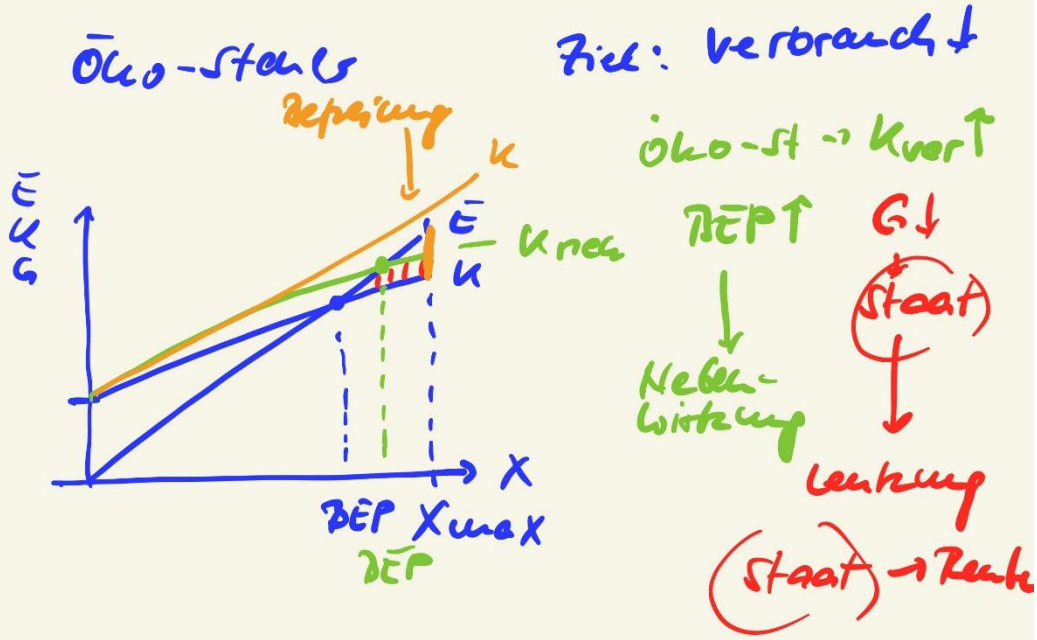
$u' = p$

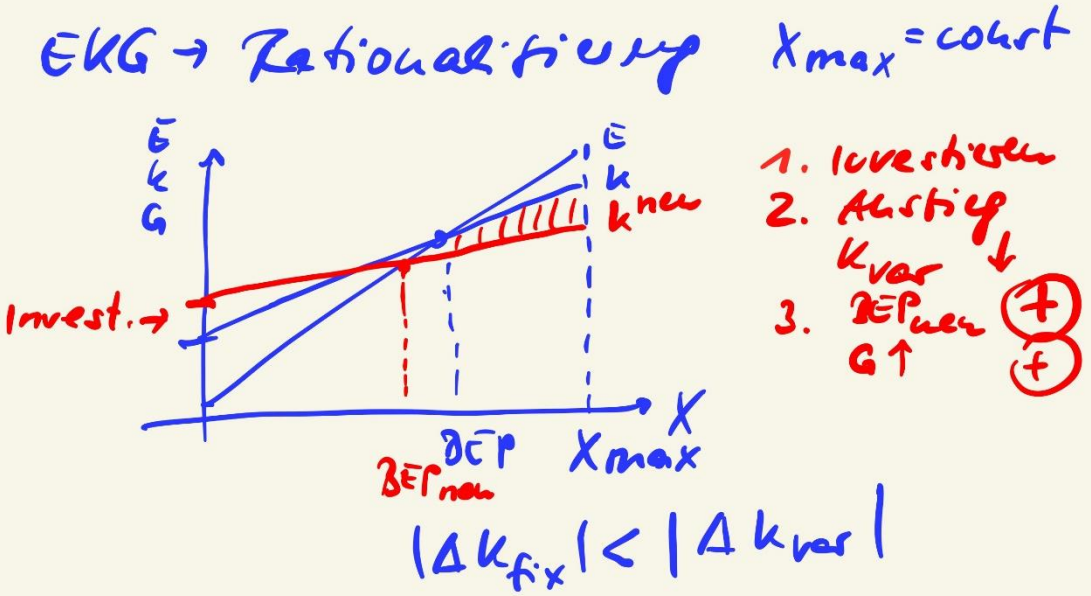
(2) A - Umrechnung

$G \uparrow$

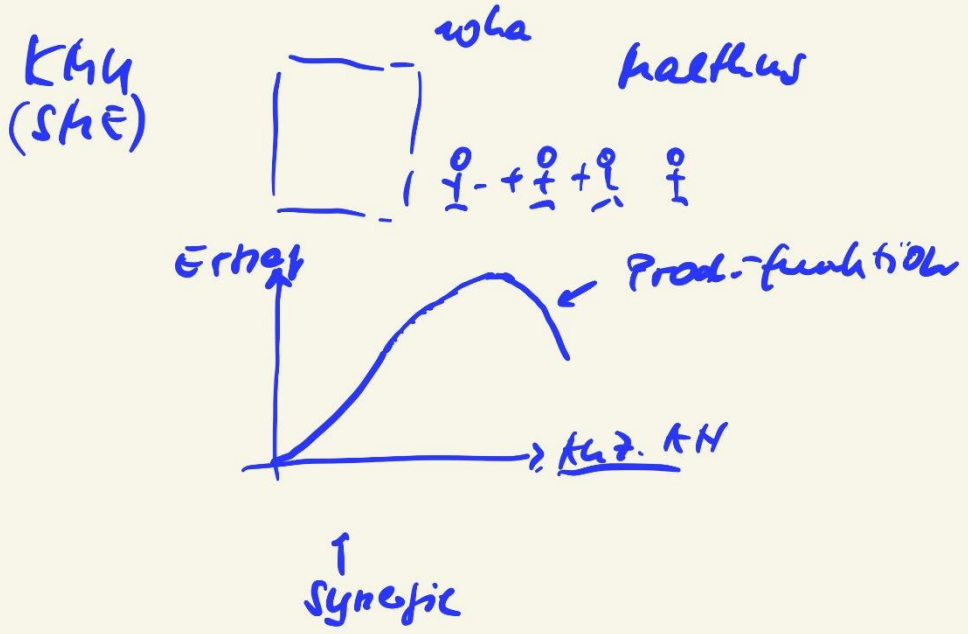
$G = E - K$

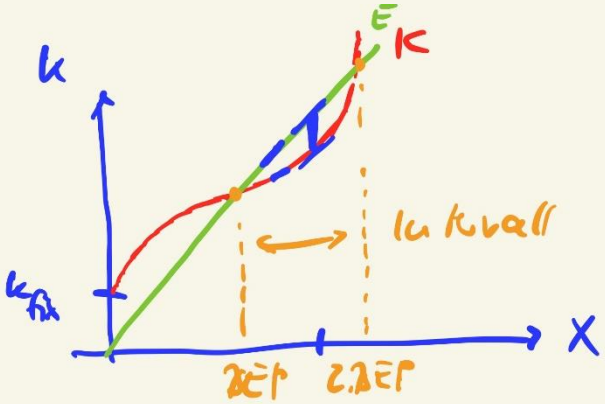






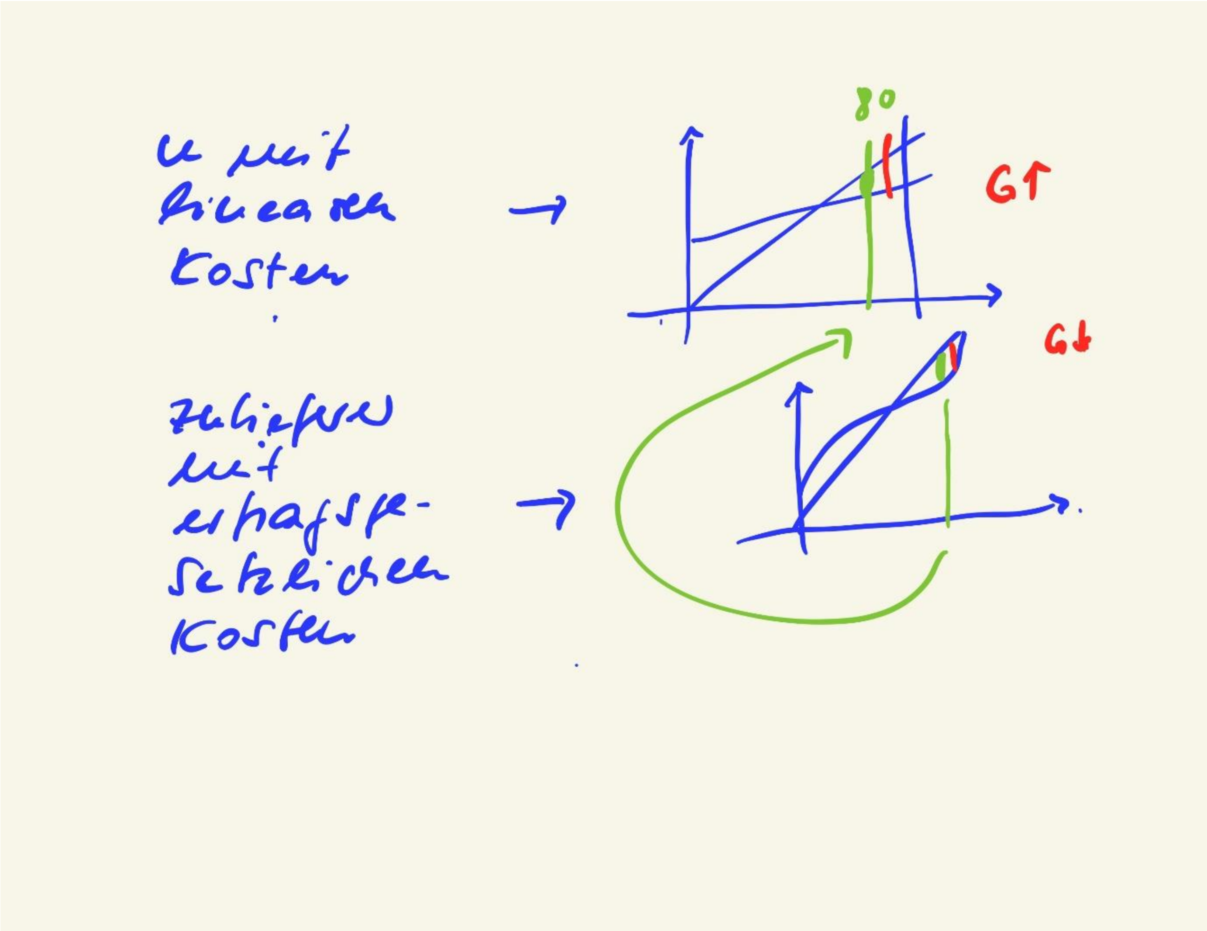
$$|\Delta K_{fix}| < |\Delta K_{var}|$$





Gmax
$k_1' = E'$
$k' = P$

	k'	E'	
1 Kl	100 000	$\Delta k \leq \Delta E$	↗ vor Gmax
2 Kl	+ 20 000	$\Delta k \sim \Delta E$	bei Gmax
3. Kl	+ 0 000		


80
G↑
G↓
Kosten
Kosten