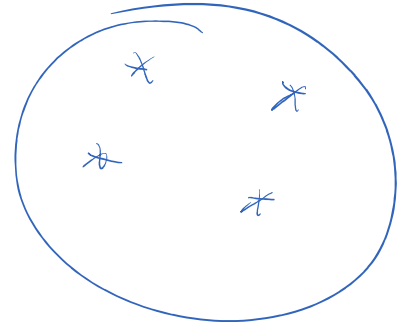


$y$ : qti<sub>totale</sub> de poisson pêchés (kg)

$X$ : effort total de pêche: nb de bateaux



$S$ : taille de pêcherie.

$$y = f(X, S)$$

supposons que  $S$  est fixe.

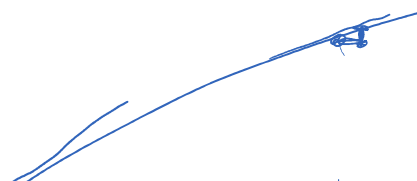
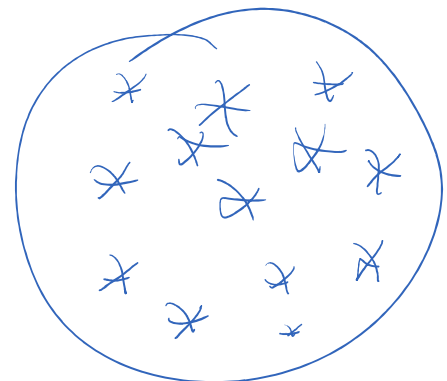
→ STATIQUE

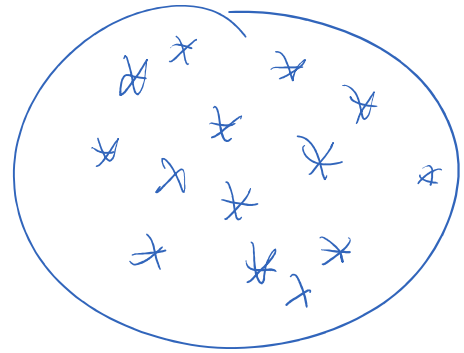
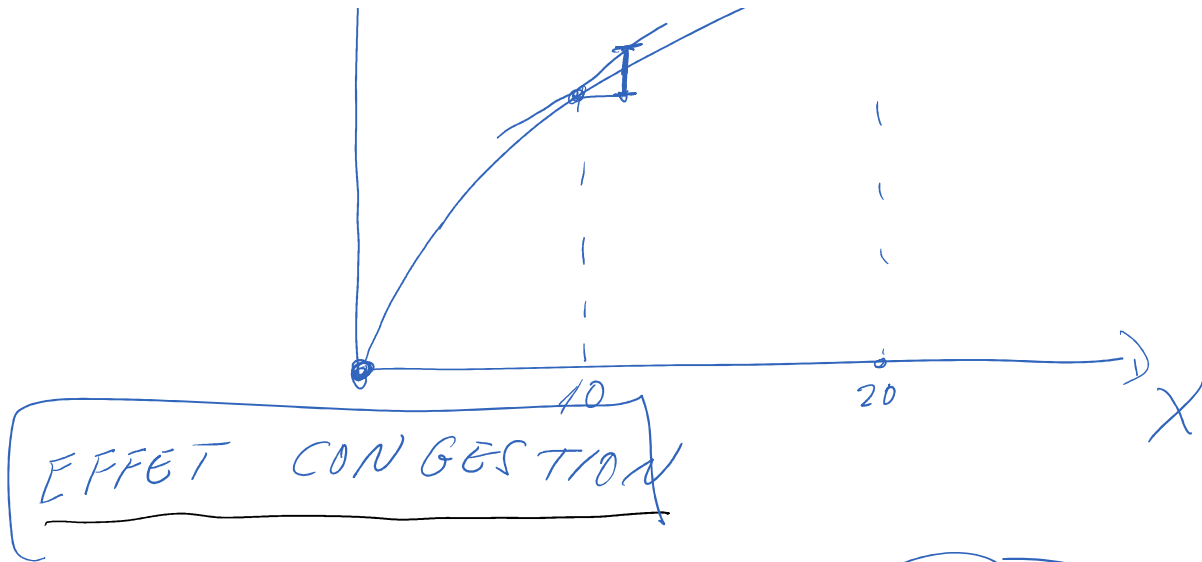
$$y = f(X), \quad f(0) = 0$$

$$f'(X) > 0$$

$$f''(X) < 0$$

↙





économie :

$p$  = prix de vente d'un bag de poisson  
 $c$  = coût d'opération d'un bateau.

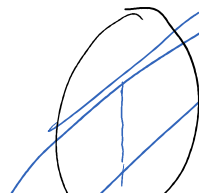
$X^*$  : qte optimale de bateaux.

objectif : max. les profits. ( $\pi$ )

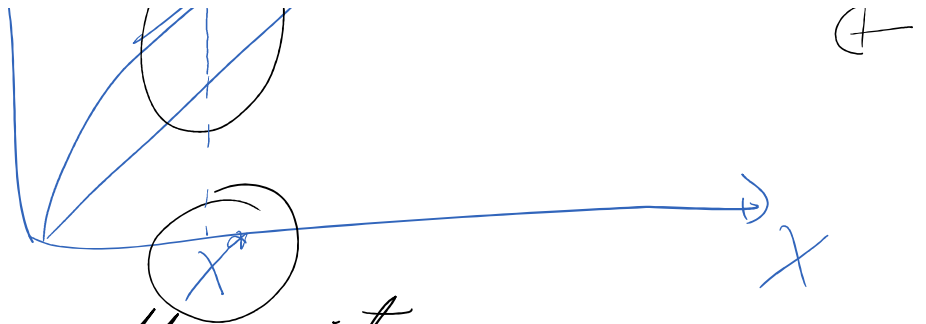
$$\pi = p y - c X = p f(X) - c X$$

$$\frac{\partial \pi}{\partial X} = p f'(X) - c = 0 \Rightarrow p f'(X^*) = c$$

$\$$

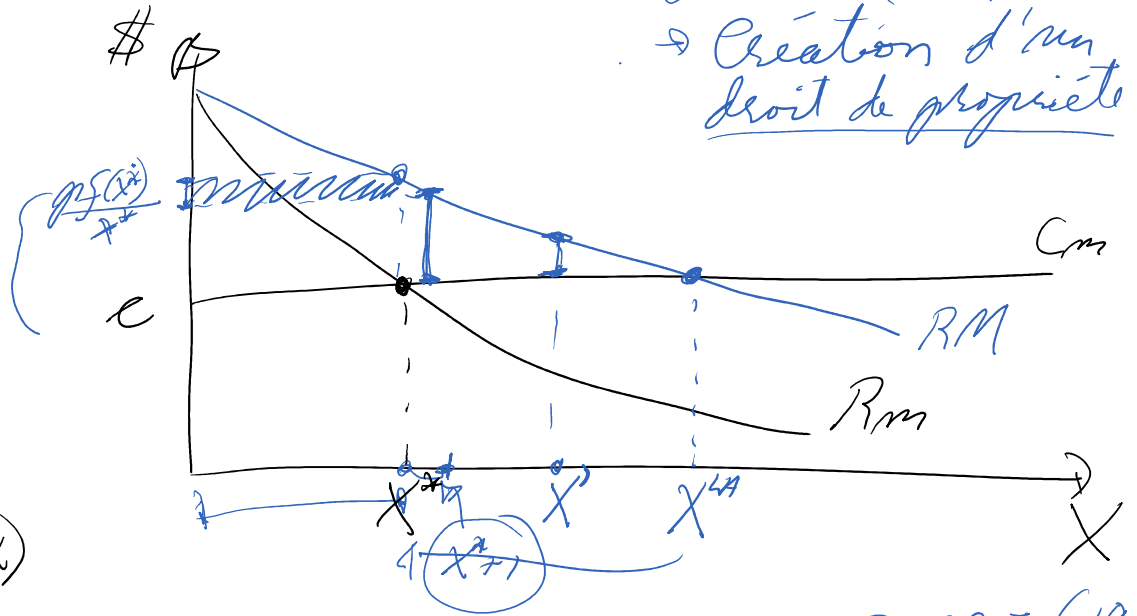


$\rightarrow$



équilibre ≠ efficacité

ÉQUILIBRE EN LIBRE ACCÈS :  
 GORDON (1954) JPE.  
 → Création d'un droit de propriété :



$$R_m = pf'(X)$$

$$\frac{RT}{X}$$

COASE (1960)  
COÛT DE TRANSACTION.

