

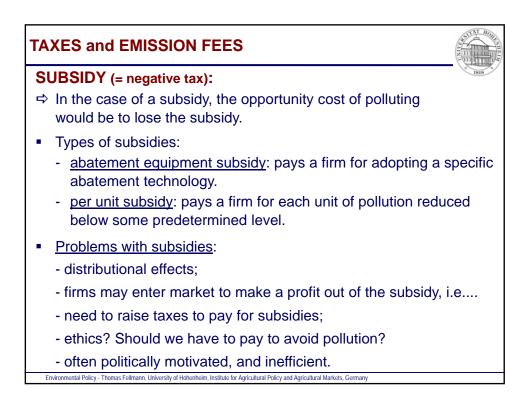
TAXES and EMISSION FEES



"PIGOUVIAN TAX":

- a tax levied on each unit of a polluter's output (that is: output of the final product) in an amount equal to the marginal damage that it inflicts at the efficient level of production.
- ⇒ the goal is to set the tax so that the polluter incorporates the social cost.
- Note: Pigouvian taxation is a second-best solution, as we are taxing the output of the final product
 - It would be better to tax the pollution directly (as we do with emission fees/taxes) ⇒ but that's not always possible
- The Pigouvian tax works by internalizing the cost of the externality
 ⇒ the same thing can be done by a subsidy.

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EMISSION FEE/TAX:

- a payment (fee) for each unit of pollutant discharged into the environment or for each unit of environmental damage.
- Recall: the problem with externalities is that they are not reflected in prices (market failure).
 - ⇒ The government can rectify the problem by setting a price for a pollution.
 - ⇒ Goal: set the fee so that the polluter incorporates the social cost.
- If MAC is known, simply set the fee equal to MAC at the optimal level of pollution. The firm will find it beneficial to abate up to this point ⇒ Why?
- If MAC is unknown, the fee should be based on the expected value (the 'best guess' of MAC).

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