Consumption problematic; efficiency and rebounds

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Consumption expansion

World consumption has expanded at an unprecedented pace over the 20th century, with private and public consumption expenditures reaching \$24 trillion in 1998, twice the level of 1975 and six times that of 1950.

In 1900 real consumption expenditure was barely \$1.5 trillion.



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investine	ints need	for different so	ocial goals
Product	Annual spending	Social or economic goals	Investment needed to achieve it
Makeup	\$18 billion	Reproductive health care for all women	\$12 billion
Pet food in Europe and United States	\$17 billion	Elimination of hunger	\$19 billion
Perfumes	\$15 billion	Universal literacy	\$5 billion
Ocean cruises	\$14 billion	Clean water for all	\$10 billion
Ice cream in Europe	\$11 billion	Immunizing every child	\$1.3 billion







































Is eco-efficiency enough? 'Even if a cargo on a boat is distributed efficiently, the boat will inevitably sink under too much weight, even though it may sink optimally.' (Daly, 1990)

Drawbacks of eco-efficiency

- Rebound effects:
- Examples:
 - Light, heating, fuel prices economic rebounds
 - Refrigerators increased energy efficiency per volume = bigger fridges



