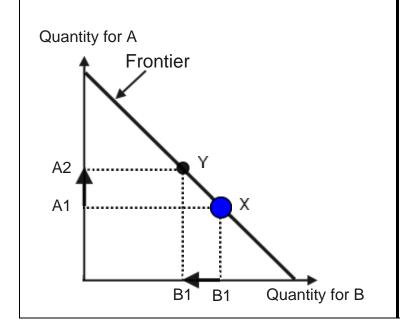
Pareto Efficiency

1 Efficient allocation

11 Pareto efficiency

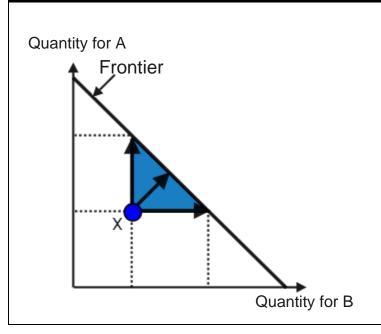
Example: one good, two persons (A and B)

Question: How can the good be allocated to 2 persons (irrespective of utility and income)?



- Starting points on the frontier are Pareto efficient: It is impossible to make one person better off without making another one worse off.
- Starting point X is Pareto efficient.
 If we make A better off (A2 > A1),
 B is worse off (B2 < B1).
 - \rightarrow Point Y is not Pareto efficient in relation to X.

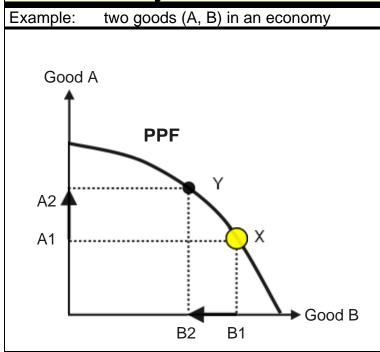
12 From inefficiency to efficiency



- Starting point X is inefficient.
- Both A and B can be made better off moving within the triangle towards the frontier.
- The movements towards the frontier are Pareto improvements and the points on the frontier are Pareto optimum points.

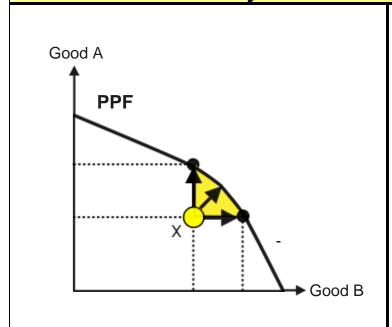
2 Efficient production

21 Production possibility frontier (PPF) and Pareto efficiency



- Starting points on the PPF are Pareto efficient: It is impossible to produce more of one good without producing less of another one.
- Starting point X is Pareto efficient. If we produce more of A (A2 > A1), less of B (B2 < B1) can be produced.
 - → Point Y is not Pareto efficient in relation to X.

22 From inefficiency to efficiency



- Starting point X is inefficient.
- More of A and more of B can be produced moving towards the PPF. These movements are Pareto improvements and the points on the PPF are Pareto optimum points.