Module 7: Welfare 3 Efficiency positive analysis:= what is happening; objective nonmative analysis := what SHOULD happen; subjective efficiency criterion := favor the outcome that yields the most economic surplus Ly total benefit - total cost ·more economic surplus => more efficient most efficient outcome yields most economic surplus pareto efficient := outcome s.t. no one can be mode better off w/o someone being mode worse off pareto efficiency => there exist to pareto improvement pareto improvement:= a change that makes at least one person better off w/o making anyone worse off Consumer surplus := willingness to pay - current market price = MB-p C5= 1 (reservation price - eq. price) (eq. quantity) = = = (200-150)(75) = = = (50)(75) = \$1875 200-Q= 50+Q 2Q=150 → Q=75 → P= 125 producer surplus := difference between current market price 3 marginal cost of production = P-MC = lowest price a firm is willing to sell for PS = 1/2 (eq. price - reservation price) (eq. quantity) = = = (150-100)(75) = \$1875 200-Q=50+Q 2Q=150 → Q=75 → P= 125 voluntary exchange := buyers 3 sellers exchange money for goods only if they both want to economic surplus = CS+PS only if they both experience gains from trade = MB - P + P - MC = MB - MC The rational rule for markets: MB = MC efficient production:= producing given Q at lowest possible cost... requires allocating production to lowest MC firm efficient allocation:= allocating given Q to maximize marginal benefit efficient quantity: = amt of Q that produces the largest economic surplus Market Failure 3 Deadweight Loss (DWL) 5 forces of supply 3 demand → inefficiency > through muct power, externalities, information problems, irrationality, or gov regulations DWL := how for economic surplus falls below surplus at efficient outcome under over production Critiques: equity, ability to pay, means to an end