

# SUPPOSE THE GOVERNMENT IMPOSES A PRICE FLOOR OF \$70 ON THIS MARKET. WHAT WILL BE THE SIZE OF THE SURPLUS

SUPPOSE THE GOVERNMENT IMPOSES A PRICE FLOOR OF \$70 ON THIS MARKET. WHAT WILL BE THE SIZE OF THE SURPLUS?

UNDERSTANDING THE IMPLICATIONS OF GOVERNMENT INTERVENTIONS IN MARKETS IS ESSENTIAL FOR BOTH POLICYMAKERS AND CONSUMERS. ONE COMMON INTERVENTION IS THE IMPOSITION OF A PRICE FLOOR—A MINIMUM PRICE SET BY THE GOVERNMENT ABOVE THE EQUILIBRIUM PRICE. THIS ARTICLE EXPLORES THE SCENARIO WHERE THE GOVERNMENT SETS A PRICE FLOOR AT \$70, EXAMINING ITS EFFECTS ON MARKET EQUILIBRIUM, SURPLUS CREATION, AND OVERALL MARKET EFFICIENCY. BY ANALYZING THESE CONCEPTS, WE CAN BETTER UNDERSTAND THE POTENTIAL OUTCOMES AND REPERCUSSIONS OF SUCH POLICIES.

## WHAT IS A PRICE FLOOR AND WHY IS IT IMPOSED?

### DEFINITION OF A PRICE FLOOR

A PRICE FLOOR IS A LEGALLY ESTABLISHED MINIMUM PRICE THAT SELLERS CAN CHARGE FOR A GOOD OR SERVICE. IT IS DESIGNED TO PREVENT PRICES FROM FALLING BELOW A CERTAIN LEVEL, OFTEN TO PROTECT PRODUCERS' INCOMES OR ENSURE FAIR WAGES.

### PURPOSE OF IMPLEMENTING PRICE FLOORS

GOVERNMENTS TYPICALLY IMPOSE PRICE FLOORS FOR REASONS SUCH AS:

- PROTECTING FARMERS FROM FALLING CROP PRICES
- ENSURING FAIR WAGES FOR WORKERS
- SUPPORTING SPECIFIC INDUSTRIES DEEMED VITAL FOR NATIONAL INTERESTS
- PREVENTING MARKET COLLAPSE WHEN PRICES DROP TOO LOW

### EXAMPLES OF COMMON PRICE FLOORS

- MINIMUM WAGE LAWS
- AGRICULTURAL PRICE SUPPORTS
- LIQUOR OR TOBACCO SALES RESTRICTIONS

## MARKET EQUILIBRIUM AND THE ROLE OF PRICE

### UNDERSTANDING MARKET EQUILIBRIUM

MARKET EQUILIBRIUM OCCURS AT THE PRICE WHERE THE QUANTITY OF GOODS DEMANDED BY CONSUMERS EQUALS THE QUANTITY SUPPLIED BY PRODUCERS. THIS POINT ENSURES MARKET STABILITY, WITH NO INHERENT TENDENCY FOR PRICES TO RISE OR FALL.

### GRAPHICAL REPRESENTATION OF EQUILIBRIUM

- THE INTERSECTION POINT OF THE DEMAND CURVE AND SUPPLY CURVE
- EQUILIBRIUM PRICE ( $P_E$ )
- EQUILIBRIUM QUANTITY ( $Q_E$ )

# IMPACT OF PRICE FLOORS ON EQUILIBRIUM

WHEN A PRICE FLOOR IS SET ABOVE THE EQUILIBRIUM PRICE:

- THE MARKET PRICE INCREASES TO THE FLOOR LEVEL (IF THE FLOOR IS BINDING)
- THE QUANTITY DEMANDED DECREASES
- THE QUANTITY SUPPLIED INCREASES
- A SURPLUS DEVELOPS BECAUSE SUPPLY EXCEEDS DEMAND

## ASSESSING THE EFFECT OF A \$70 PRICE FLOOR

### SCENARIO DESCRIPTION

SUPPOSE THE CURRENT MARKET EQUILIBRIUM PRICE FOR A GOOD OR SERVICE IS BELOW \$70. WHEN THE GOVERNMENT ENFORCES A PRICE FLOOR AT \$70:

- THE PRICE CANNOT FALL BELOW \$70
- THE MARKET PRICE EFFECTIVELY BECOMES \$70
- THE MARKET MOVES AWAY FROM ITS EQUILIBRIUM POINT

### GRAPHICAL ILLUSTRATION

- DEMAND CURVE SLOPES DOWNWARD
- SUPPLY CURVE SLOPES UPWARD
- THE PRICE FLOOR LINE IS DRAWN HORIZONTALLY AT \$70, ABOVE THE EQUILIBRIUM PRICE
- THE QUANTITY DEMANDED AT \$70 IS LESS THAN THE QUANTITY SUPPLIED AT THAT PRICE

### DETERMINING THE SIZE OF THE SURPLUS

THE KEY STEP IS TO CALCULATE THE SURPLUS, WHICH IS THE EXCESS OF QUANTITY SUPPLIED OVER QUANTITY DEMANDED AT THE PRICE FLOOR LEVEL.

STEPS TO CALCULATE SURPLUS:

1. IDENTIFY THE QUANTITY DEMANDED AT \$70 ( $Q_D$ ):
  - USE THE DEMAND CURVE EQUATION OR DATA TO FIND THE QUANTITY CONSUMERS ARE WILLING TO BUY AT \$70.
2. IDENTIFY THE QUANTITY SUPPLIED AT \$70 ( $Q_S$ ):
  - USE THE SUPPLY CURVE EQUATION OR DATA TO FIND THE QUANTITY PRODUCERS ARE WILLING TO SELL AT \$70.
3. CALCULATE SURPLUS:
  - $SURPLUS = Q_S - Q_D$

EXAMPLE:

SUPPOSE AT \$70:

- QUANTITY DEMANDED = 300 UNITS
- QUANTITY SUPPLIED = 500 UNITS

THEN:

- $SURPLUS = 500 - 300 = 200$  UNITS

THIS INDICATES A SURPLUS OF 200 UNITS IN THE MARKET.

# IMPLICATIONS OF SURPLUS CAUSED BY PRICE FLOOR

## MARKET CONSEQUENCES

- UNWANTED INVENTORY: PRODUCERS MAY BE UNABLE TO SELL ALL THEIR GOODS, LEADING TO EXCESS STOCK.
- WASTED RESOURCES: OVERPRODUCTION RESULTS IN INEFFICIENT USE OF RESOURCES.
- MARKET DISTORTIONS: THE PRICE FLOOR PREVENTS THE MARKET FROM REACHING EQUILIBRIUM, CAUSING PERSISTENT SURPLUSES.

## GOVERNMENT INTERVENTIONS TO MANAGE SURPLUS

GOVERNMENTS OFTEN ATTEMPT TO ADDRESS SURPLUSES THROUGH:

- PURCHASING EXCESS SUPPLY (E.G., AGRICULTURAL SUBSIDIES)
- DESTROYING SURPLUS GOODS
- EXPORTING SURPLUS TO FOREIGN MARKETS
- IMPLEMENTING QUOTAS OR RESTRICTING SUPPLY

## ECONOMIC EFFICIENCY AND WELFARE EFFECTS

- SURPLUSES LEAD TO DEADWEIGHT LOSS, REDUCING OVERALL ECONOMIC EFFICIENCY.
- CONSUMERS FACE HIGHER PRICES AND REDUCED CHOICES.
- PRODUCERS MAY BENEFIT INITIALLY BUT SUFFER IN THE LONG RUN IF SURPLUSES PERSIST.

## REAL-WORLD EXAMPLES AND CASE STUDIES

### AGRICULTURAL PRICE SUPPORTS

MANY COUNTRIES IMPLEMENT PRICE FLOORS FOR CROPS LIKE WHEAT, RICE, AND CORN. THESE POLICIES OFTEN RESULT IN LARGE SURPLUSES, WHICH GOVERNMENTS MUST MANAGE THROUGH STORAGE, EXPORT SUBSIDIES, OR DESTRUCTION.

### MINIMUM WAGE LAWS

SETTING A MINIMUM WAGE ABOVE THE EQUILIBRIUM WAGE CAN CREATE UNEMPLOYMENT (A SURPLUS OF LABOR), WHICH IS ANALOGOUS TO A SURPLUS OF GOODS IN THE MARKET.

## CONCLUSION: EVALUATING THE IMPACT OF A \$70 PRICE FLOOR

IMPLEMENTING A PRICE FLOOR AT \$70 IN A MARKET WHERE THE EQUILIBRIUM PRICE IS LOWER HAS SIGNIFICANT CONSEQUENCES. THE PRIMARY EFFECT IS THE CREATION OF A SURPLUS, WHICH IS THE EXCESS SUPPLY OF GOODS OR SERVICES AT THE MANDATED MINIMUM PRICE. THE SIZE OF THIS SURPLUS DEPENDS ON THE SPECIFIC DEMAND AND SUPPLY CURVES OF THE MARKET IN QUESTION.

UNDERSTANDING HOW TO CALCULATE THIS SURPLUS INVOLVES ANALYZING DEMAND AND SUPPLY AT THE PRICE FLOOR LEVEL, WHICH PROVIDES INSIGHTS INTO MARKET INEFFICIENCIES AND POTENTIAL GOVERNMENTAL ACTIONS NEEDED TO MANAGE EXCESS. WHILE PRICE FLOORS CAN PROTECT CERTAIN INDUSTRIES OR WORKERS, THEY ALSO INTRODUCE MARKET DISTORTIONS, LEADING TO INEFFICIENCIES AND WELFARE LOSSES.

KEY TAKEAWAYS:

- A BINDING PRICE FLOOR SET ABOVE EQUILIBRIUM CREATES A SURPLUS.

- THE SURPLUS SIZE IS THE DIFFERENCE BETWEEN QUANTITY SUPPLIED AND DEMANDED AT THE PRICE FLOOR.
- MANAGING SURPLUSES OFTEN INVOLVES ADDITIONAL GOVERNMENT INTERVENTIONS, WHICH MAY HAVE FURTHER ECONOMIC IMPLICATIONS.
- POLICYMAKERS SHOULD CAREFULLY CONSIDER THE MARKET CONDITIONS BEFORE IMPOSING PRICE FLOORS TO BALANCE INDUSTRY PROTECTION WITH OVERALL MARKET EFFICIENCY.

BY UNDERSTANDING THESE DYNAMICS, STAKEHOLDERS CAN BETTER ANTICIPATE THE OUTCOMES OF SUCH POLICIES AND MAKE INFORMED DECISIONS THAT PROMOTE ECONOMIC STABILITY AND GROWTH.

## FREQUENTLY ASKED QUESTIONS

### WHAT IS A PRICE FLOOR AND HOW DOES IT IMPACT THE MARKET?

A PRICE FLOOR IS A MINIMUM PRICE SET BY THE GOVERNMENT ABOVE THE EQUILIBRIUM PRICE, WHICH CAN LEAD TO SURPLUSES WHEN THE QUANTITY SUPPLIED EXCEEDS THE QUANTITY DEMANDED.

### IF THE GOVERNMENT IMPOSES A PRICE FLOOR OF \$70, HOW DO WE DETERMINE THE RESULTING SURPLUS?

THE SURPLUS IS CALCULATED AS THE DIFFERENCE BETWEEN THE QUANTITY SUPPLIED AND THE QUANTITY DEMANDED AT THE \$70 PRICE POINT, BASED ON THE SUPPLY AND DEMAND CURVES.

### WHAT FACTORS INFLUENCE THE SIZE OF THE SURPLUS CREATED BY A \$70 PRICE FLOOR?

FACTORS INCLUDE THE SHAPE AND POSITION OF THE SUPPLY AND DEMAND CURVES, AND HOW THEY RESPOND TO THE HIGHER PRICE, PARTICULARLY THE ELASTICITIES OF SUPPLY AND DEMAND.

### HOW DOES THE ELASTICITY OF SUPPLY AND DEMAND AFFECT THE SURPLUS RESULTING FROM A \$70 PRICE FLOOR?

MORE ELASTIC SUPPLY AND DEMAND MEAN LARGER CHANGES IN QUANTITY, POTENTIALLY LEADING TO A BIGGER SURPLUS, WHEREAS INELASTIC CURVES RESULT IN A SMALLER SURPLUS.

### CAN YOU EXPLAIN THE STEPS TO CALCULATE THE SURPLUS SIZE AFTER IMPLEMENTING A \$70 PRICE FLOOR?

YES, FIRST FIND THE QUANTITY SUPPLIED AND DEMANDED AT \$70 USING THE SUPPLY AND DEMAND FUNCTIONS; THEN SUBTRACT THE DEMANDED QUANTITY FROM THE SUPPLIED QUANTITY TO FIND THE SURPLUS.

### WHAT ECONOMIC CONSEQUENCES CAN ARISE FROM A PRICE FLOOR THAT CAUSES A SURPLUS?

SURPLUSES CAN LEAD TO WASTED RESOURCES, STORAGE COSTS, OR GOVERNMENT INTERVENTION SUCH AS PURCHASING EXCESS SUPPLY, AND MAY DISTORT MARKET EFFICIENCY.

### IS THE ACTUAL SIZE OF THE SURPLUS ALWAYS EQUAL TO THE DIFFERENCE IN QUANTITIES AT THE \$70 PRICE?

YES, THE SURPLUS EQUALS THE DIFFERENCE BETWEEN THE QUANTITY SUPPLIED AND DEMANDED AT THE IMPOSED PRICE, ASSUMING THE SUPPLY AND DEMAND FUNCTIONS ARE KNOWN.

## ADDITIONAL RESOURCES

SUPPOSE THE GOVERNMENT IMPOSES A PRICE FLOOR OF \$70 ON THIS MARKET. WHAT WILL BE THE SIZE OF THE SURPLUS?

UNDERSTANDING THE IMPACT OF GOVERNMENT INTERVENTIONS IN MARKETS IS CRUCIAL FOR POLICYMAKERS, BUSINESSES, AND CONSUMERS ALIKE. ONE COMMON INTERVENTION IS THE IMPOSITION OF A PRICE FLOOR—A MINIMUM ALLOWABLE PRICE SET ABOVE THE EQUILIBRIUM PRICE. WHEN SUCH A POLICY IS INTRODUCED, IT OFTEN LEADS TO UNINTENDED CONSEQUENCES, NOTABLY THE CREATION OF SURPLUSES. IN THIS ARTICLE, WE EXPLORE THE MECHANICS BEHIND A GOVERNMENT-IMPOSED PRICE FLOOR OF \$70, ANALYZE HOW IT INFLUENCES MARKET OUTCOMES, AND CALCULATE THE RESULTING SURPLUS. USING ECONOMIC THEORY AND ILLUSTRATIVE EXAMPLES, WE AIM TO CLARIFY WHAT EXACTLY TRANSPIRES WHEN A PRICE FLOOR IS ESTABLISHED AND HOW TO DETERMINE THE SIZE OF THE SURPLUS CREATED.

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## UNDERSTANDING PRICE FLOORS: DEFINITION AND PURPOSE

### WHAT IS A PRICE FLOOR?

A PRICE FLOOR IS A LEGALLY ESTABLISHED MINIMUM PRICE THAT SELLERS CAN CHARGE FOR A GOOD OR SERVICE. GOVERNMENTS IMPLEMENT PRICE FLOORS TO PROTECT PRODUCERS FROM PRICES DEEMED TOO LOW TO SUSTAIN THEIR LIVELIHOODS OR TO ENSURE A CERTAIN STANDARD OF INCOME. COMMON EXAMPLES INCLUDE MINIMUM WAGES, AGRICULTURAL PRICE SUPPORTS, AND CERTAIN LABOR MARKET REGULATIONS.

### WHY SET A PRICE FLOOR?

PRICE FLOORS ARE OFTEN SET WITH SPECIFIC OBJECTIVES, SUCH AS:

- SUPPORTING FARMERS OR PRODUCERS FACING VOLATILE OR DECLINING PRICES
- ENSURING FAIR WAGES FOR WORKERS
- PREVENTING MARKET PRICES FROM FALLING BELOW A LEVEL THAT WOULD THREATEN INDUSTRY VIABILITY

HOWEVER, WHILE THE INTENTIONS MAY BE BENIGN, THE ECONOMIC EFFECTS CAN BE COMPLEX, ESPECIALLY IF THE PRICE FLOOR IS SET ABOVE THE MARKET EQUILIBRIUM.

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## MARKET EQUILIBRIUM AND THE IMPACT OF A PRICE FLOOR

### MARKET EQUILIBRIUM: THE STARTING POINT

BEFORE ANY INTERVENTION, MARKETS TEND TOWARD AN EQUILIBRIUM POINT WHERE THE QUANTITY SUPPLIED EQUALS THE QUANTITY DEMANDED. THIS POINT IS DETERMINED BY THE INTERSECTION OF THE SUPPLY AND DEMAND CURVES.

- EQUILIBRIUM PRICE ( $P^*$ ): THE PRICE AT WHICH QUANTITY SUPPLIED EQUALS QUANTITY DEMANDED.
- EQUILIBRIUM QUANTITY ( $Q^*$ ): THE QUANTITY BOUGHT AND SOLD AT THE EQUILIBRIUM PRICE.

IN A TYPICAL MARKET, PRICES FLUCTUATE AROUND THIS EQUILIBRIUM NATURALLY, BALANCING SUPPLY AND DEMAND.

## INTRODUCING A PRICE FLOOR ABOVE EQUILIBRIUM

WHEN THE GOVERNMENT SETS A PRICE FLOOR (SAY, AT \$70), AND THIS FLOOR EXCEEDS THE NATURAL EQUILIBRIUM PRICE ( $P^*$ ), THE FOLLOWING OCCURS:

- LEGAL MINIMUM PRICE: SELLERS CANNOT CHARGE LESS THAN \$70.
- MARKET REACTION:
- INCREASED SUPPLY: PRODUCERS ARE WILLING TO SUPPLY MORE AT THE HIGHER PRICE.
- DECREASED DEMAND: CONSUMERS BUY LESS BECAUSE THE HIGHER PRICE DISCOURAGES SOME BUYERS.
- RESULTING SURPLUS: THE QUANTITY SUPPLIED EXCEEDS THE QUANTITY DEMANDED, LEADING TO EXCESS SUPPLY.

UNDERSTANDING THE MAGNITUDE OF THIS SURPLUS REQUIRES ANALYZING THE SUPPLY AND DEMAND CURVES AND IDENTIFYING THE QUANTITIES SUPPLIED AND DEMANDED AT THE SET PRICE.

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## GRAPHICAL ILLUSTRATION AND QUANTITATIVE ANALYSIS

### SUPPLY AND DEMAND CURVES

SUPPOSE THE MARKET FOR A PARTICULAR GOOD IS REPRESENTED BY THE FOLLOWING SIMPLIFIED LINEAR FUNCTIONS:

- DEMAND FUNCTION:  $Q_D = A - B P$
- SUPPLY FUNCTION:  $Q_S = C + D P$

WHERE:

- $Q_D$  = QUANTITY DEMANDED
- $Q_S$  = QUANTITY SUPPLIED
- $P$  = PRICE
- $A, B, C, D$  = POSITIVE CONSTANTS SPECIFIC TO THE MARKET

FOR ILLUSTRATION PURPOSES, ASSUME:

- $A = 200$
- $B = 2$
- $C = 50$
- $D = 3$

TO FIND THE EQUILIBRIUM PRICE ( $P^*$ ):

SET  $Q_D = Q_S$ :

$$\begin{aligned} 200 - 2P &= 50 + 3P \\ \Rightarrow 200 - 50 &= 3P + 2P \\ \Rightarrow 150 &= 5P \\ \Rightarrow P^* &= 30 \end{aligned}$$

AT  $P^* = \$30$ :

$$\begin{aligned} Q_D &= 200 - 2(30) = 200 - 60 = 140 \\ Q_S &= 50 + 3(30) = 50 + 90 = 140 \end{aligned}$$

EQUILIBRIUM QUANTITY ( $Q^*$ ) = 140 UNITS

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## APPLYING THE PRICE FLOOR OF \$70

NOW, THE GOVERNMENT SETS A PRICE FLOOR AT  $P = \$70$ , WHICH IS WELL ABOVE THE EQUILIBRIUM PRICE OF \$30.

AT  $P = \$70$ :

- QUANTITY DEMANDED:

$$Q_D = 200 - 270 = 200 - 140 = 60 \text{ UNITS}$$

- QUANTITY SUPPLIED:

$$Q_S = 50 + 370 = 50 + 210 = 260 \text{ UNITS}$$

RESULTING SURPLUS:

$$\text{SURPLUS} = Q_S - Q_D = 260 - 60 = 200 \text{ UNITS}$$

THIS MEANS THAT AT THE IMPOSED PRICE FLOOR, 200 UNITS OF THE GOOD REMAIN UNSOLD BECAUSE CONSUMERS ONLY DEMAND 60 UNITS AT THIS HIGHER PRICE, WHILE PRODUCERS ARE WILLING TO SUPPLY 260 UNITS.

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## CALCULATING THE SURPLUS: MATHEMATICAL APPROACH

THE SURPLUS CREATED BY THE PRICE FLOOR IS STRAIGHTFORWARD TO COMPUTE ONCE THE QUANTITIES SUPPLIED AND DEMANDED AT THAT PRICE ARE KNOWN.

FORMULA:

$$\text{SURPLUS} = \text{QUANTITY SUPPLIED AT } P_F - \text{QUANTITY DEMANDED AT } P_F$$

WHERE  $P_F$  = PRICE FLOOR SET BY THE GOVERNMENT.

IN OUR EXAMPLE:

-  $Q_S$  AT  $P = \$70$ : 260 UNITS

-  $Q_D$  AT  $P = \$70$ : 60 UNITS

$$\text{SURPLUS} = 260 - 60 = 200 \text{ UNITS}$$

THIS EXCESS REPRESENTS UNITS THAT PRODUCERS CANNOT SELL AT THE MANDATED MINIMUM PRICE, LEADING TO INVENTORY ACCUMULATION, POTENTIAL WASTAGE, OR THE NEED FOR GOVERNMENT INTERVENTION SUCH AS PURCHASING THE SURPLUS.

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## IMPLICATIONS OF THE SURPLUS IN THE MARKET

### ECONOMIC CONSEQUENCES

THE CREATION OF A SURPLUS CAN HAVE MULTIPLE EFFECTS, INCLUDING:

- WASTED RESOURCES: PRODUCERS INCUR COSTS FOR PRODUCING UNSOLD GOODS.
- MARKET INEFFICIENCIES: THE PRICE FLOOR DISTORTS THE NATURAL BALANCE, LEADING TO DEADWEIGHT LOSS.
- GOVERNMENT COSTS: IF THE GOVERNMENT INTERVENES TO BUY EXCESS SUPPLY, TAXPAYERS MAY BEAR THE COST.
- MARKET DISTORTIONS: SURPLUSES CAN INCENTIVIZE ILLEGAL PRACTICES OR LEAD TO BLACK MARKETS.

## POTENTIAL POLICY RESPONSES

TO ADDRESS SURPLUS ISSUES, POLICYMAKERS MIGHT:

- PURCHASE THE SURPLUS TO SUPPORT FARMERS OR PRODUCERS
- PROVIDE SUBSIDIES TO ENCOURAGE CONSUMPTION
- RELAX THE PRICE FLOOR IF THE MARKET CANNOT SUSTAIN IT
- IMPLEMENT OTHER MEASURES TO STIMULATE DEMAND

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## REAL-WORLD EXAMPLES AND POLICY CONSIDERATIONS

### AGRICULTURAL PRICE SUPPORTS

IN MANY COUNTRIES, GOVERNMENTS SET MINIMUM PRICES FOR CROPS LIKE WHEAT, RICE, OR DAIRY PRODUCTS. THESE POLICIES HAVE HISTORICALLY LED TO LARGE SURPLUSES THAT GOVERNMENTS BUY AND STORE, OR SOMETIMES DISPOSE OF, TO SUPPORT FARMERS' INCOMES.

### MINIMUM WAGE LAWS

WHILE NOT A TRADITIONAL PRICE FLOOR FOR GOODS, MINIMUM WAGES SET ABOVE THE EQUILIBRIUM WAGE CAN LEAD TO UNEMPLOYMENT (A SURPLUS OF LABOR). THIS ECONOMIC ANALOGY HIGHLIGHTS HOW PRICE FLOORS CAN HAVE COMPLEX EFFECTS BEYOND JUST MARKET SURPLUSES.

### BALANCING OBJECTIVES AND OUTCOMES

EFFECTIVE POLICY DESIGN REQUIRES BALANCING:

- PROTECTING PRODUCERS OR WORKERS
- MAINTAINING MARKET EFFICIENCY
- AVOIDING EXCESSIVE SURPLUSES AND WASTE

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## CONCLUSION: THE TAKEAWAY

IMPOSING A PRICE FLOOR OF \$70 ON A MARKET INITIALLY IN EQUILIBRIUM AT \$30 DRAMATICALLY ALTERS THE MARKET DYNAMICS. AS SEEN THROUGH THE ILLUSTRATIVE EXAMPLE, THE KEY OUTCOME IS A SIGNIFICANT SURPLUS—IN THIS CASE, 200 UNITS—THAT CANNOT BE SOLD AT THE HIGHER MANDATED PRICE. THIS SURPLUS REPRESENTS A CORE CHALLENGE OF PRICE FLOORS: WHILE THEY AIM TO SUPPORT PRODUCERS OR WORKERS, THEY OFTEN LEAD TO INEFFICIENCIES AND COSTLY EXCESS INVENTORIES.

UNDERSTANDING HOW TO CALCULATE AND INTERPRET THESE SURPLUSES IS ESSENTIAL FOR POLICYMAKERS SEEKING TO IMPLEMENT EFFECTIVE INTERVENTIONS WITHOUT CAUSING UNINTENDED ECONOMIC HARM. ULTIMATELY, THE SIZE OF THE SURPLUS DEPENDS ON THE SPECIFIC SUPPLY AND DEMAND ELASTICITY, THE SET PRICE FLOOR, AND THE INITIAL MARKET EQUILIBRIUM. PROPER ANALYSIS ENSURES THAT INTERVENTIONS ACHIEVE THEIR GOALS WITH MINIMAL ADVERSE EFFECTS ON THE BROADER ECONOMY.

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IN SUMMARY:

- A PRICE FLOOR SET ABOVE EQUILIBRIUM CREATES A SURPLUS.
- QUANTITATIVE ANALYSIS INVOLVES CALCULATING SUPPLY AND DEMAND AT THE PRICE FLOOR.
- THE SURPLUS EQUALS THE DIFFERENCE BETWEEN QUANTITY SUPPLIED AND DEMANDED AT THAT PRICE.



- MANAGING SURPLUSES REQUIRES CAREFUL POLICY PLANNING TO MITIGATE INEFFICIENCIES AND RESOURCE WASTE.

BY GRASPING THESE FUNDAMENTAL PRINCIPLES, STAKEHOLDERS CAN BETTER UNDERSTAND THE PROFOUND EFFECTS OF GOVERNMENT INTERVENTIONS AND MAKE INFORMED DECISIONS THAT PROMOTE SUSTAINABLE MARKET OUTCOMES.

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Suppose The Government Imposes A Price Floor Of 70 On This Market What Will Be The Size Of The Surplus

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