#### World economy

Analysis of certain economical models and their possible usage for simulation of certain economics



#### Two sector economy

#### AD = C + I

C .... Consumption

Ig = Ip + Iu

Investment planed (Ip) Investment unplanned (Iu)



### Multiplier in two sector economy

So-called 45° model or income-expense model explains, how is equilibrium GDP achieved

(= product where is not any tendency to changes)

AD = Y



Subject's planned spending consists of:

- Consumers consumption
- Corporate investment
- Governmental purchases
- Net export



## Function of consumption

- Part of consumption is independent on income and is called autonomous consumption (Ca),
- Part of consumption is dependent and is based on income changes. This consumption can be expressed as c · Y where c is marginal propensity to consume (MPC)

 $c = MPC = \Delta C / \Delta Y$ ,

 Function of consumption expresses relation between government purchases and dispensable income of households



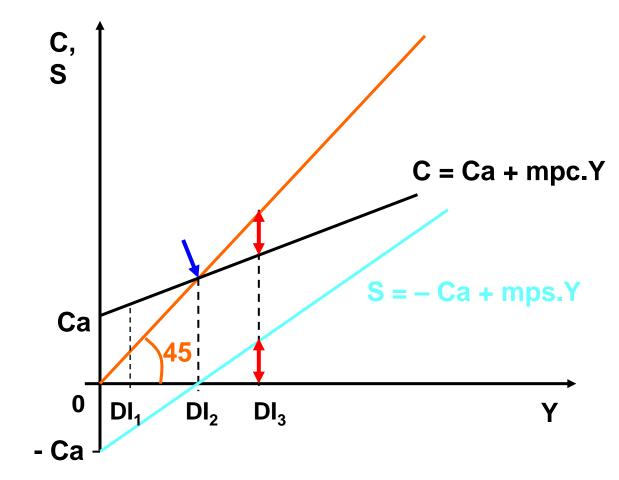
## Function of savings

• Savings are part of dispensable income which was not spend on consumption.

 Function of savings expresses relation between savings and dispensable income of households.



#### Keynesian consumption and saving function



HYNKOVÁ, V. Makroekonomie I – pro bakalářské studium. 1. vyd. Brno:Univerzita obrany, 2008. ISBN 978-807231-278-8.



# Propensity to consumption and savings

 Income (product) can be divided to consumption and savings

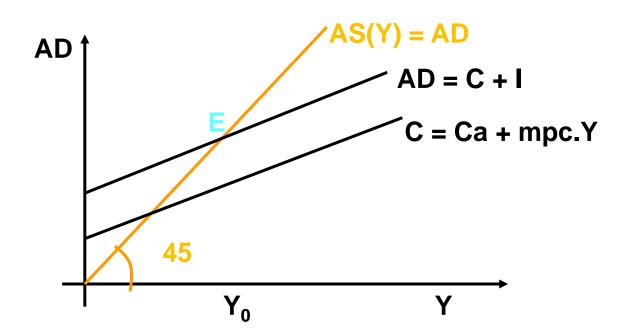
## Y = C + S



## Multiplier in two sector economy

- Investment multiplier shows how increase in private investment increases product in bigger, multiplied extent, which is higher than the original increase in private investment.
- Multiplier shows how many time is Y multiplied if autonomic spending (autonomic consumption and investment) changes by one.





HYNKOVÁ, V. Makroekonomie I – pro bakalářské studium. 1. vyd. Brno: Univerzita obrany, 2008. ISBN 978-807231-278-8.



# Aggregate Supply (AS)

 Aggregate Supply (AS) expresses extent of whole domestic product or company's output.

 Aggregate curve shows relation between total supplied production and price level in certain economy.

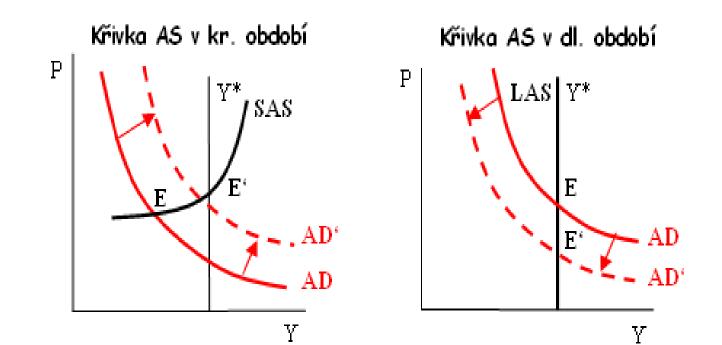


# Aggregate Supply

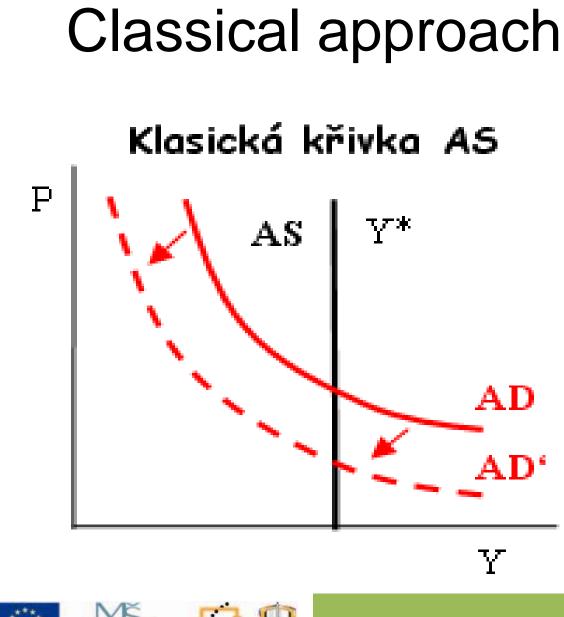
- SRAS, LRAS
- Keynesian approach
  – short and long period
- Classical approach short and long period
- Inelasticity causes— earnings, rental, price of material, governmental regulations
- Supply shocks positive, negative; nominal, real



#### Keynesian approach











# Aggregate Demand (AD)

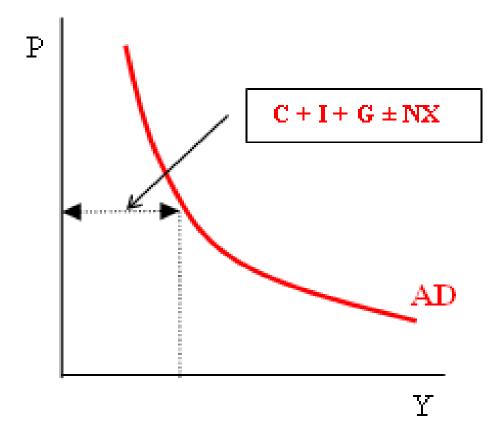
 Economical subject's planned expenses:

#### AD = C + I + G + NX

- Where C is Consumption,
- I is Investment,
- G is governmental purchases for goods and services - Government,
- and NX is Net export.



#### Aggregate Demand





# Why is AD decreasing

- Keynes's effect
- Pigou's effect
- Foreign trade effect
- Crowding-out effect of governmental purchases on private spending



# Aggregate demand

- Demand shocks– AD changes (positive and negative demand shocks)
- Main causes of demand shocks:
  - effects, which influence dispensable income,
  - the CB's measures,
  - psychological factors,
  - economical situation in foreign countries,
  - number of inhabitants,
  - growth of asset price and any governmental measure.



 HYNKOVÁ, V. Makroekonomie I – pro bakalářské studium. 1. vyd. Brno:Univerzita obrany, 2008. ISBN 978-807231-278-8.

