

Business cycle	Duration	Inflation	Economic policy	Confidence level	Market	
	1. Initial recovery	Few months	Initially falling	Stimulative by low interest rate + budget deficit	Increase	- Output gap : large - ST interest rate : low / falling - LT interest rate / Bond yields : lowest → bond price peaking - Stock price : increase
	2. Early upswing	1 to several years	Low inflation + good economy growth	Less stimulative (rising interest rate)	Increase	- Output gap : narrowing - Inventory : increase - ST interest rate : increase - LT interest rate / Bond yield : flat / increase → bond price decrease - Stock price : increase
	3. Late upswing	1 to several years	Increase	Become restrictive (Increase ST interest rate + limit growth of money supply by central banks)	Highest High employment	- Output gap = 0 ; economu at risk of overheating - ST interest rate : increase - LT interest rate / Bond yield : increase - Stock price : peak + increase risk and volatility
	4. Slowdown	Few months to 1 year	Continue to increase	Less restrictive	Decline	- Inventory : decrease - ST interest rate : peak - LT interest rate / Bond yield : peak, may decrease → bond price start increase - Yield curve may invert - Stock price : decrease
	5. Recession	6 months to 1 year	Peak inflation + Decline real economic activity	Easing	Decline; Increase unemployment and bankruptcy	- Inventory : Decrease - ST interest rate : decrease - LT interest rate / Bond yield : decrease → bond price increase - Stock price : bottom, and start increasing at the end of recession
Inflation / Disinflation / Deflation	Inflation : price increase. Typically inflation accelerate near business peak Disinflation : inflation rate slow down. Typically decelerates as economy approach and enter recession Deflation : price decrease. Deflation is threat, due to : - Encourage default on debt obligation (price decrease > equity → negative equity) - Limits the ability to decrease interest rate at 0% to stimulate the economy					
Inflation and Asset classes return	1. Inflation ≤ expectations - Cash equivalent / Bonds : stable/decreasing yield → neutral return - Equity : predictable economic growth → positive return - Real estate : Neutral 2. Inflation > expectations - Cash equivalent : increasing yield → Positive return - Bonds : Increase rate → decrease price → negative return - Equity : negative return (some companies might have return > inflation rate and do well) - Real estate : RE value increase with inflation → positive return 3. Deflation - Cash equivalent : interest rate near 0% → negative return - Bonds : Fixed future CF have greater purchasing power → Positive return - Equity : Economy and business activity decline → Negative return - Real estates : property value decline → Negative return					
Taylor rule in predicting central bank behaviour	Inflation too high → increase ST interest rate Economic growth too low → decrease ST interest rate $r_{target} = r_{neutral} + 0.5 \times (GDP_{expected} - GDP_{trend}) + 0,5 \times (i_{expected} - i_{target})$ r_{target} = target ST interest rate $r_{neutral}$ = neutral ST interest rate $GDP_{expected}$ = expected GDP growth rate GDP_{trend} = LT trend in GDP growth rate $i_{expected}$ = expected inflation rate i_{target} = target inflation rate					
Negative interest rate	Definition : net fee to invest in ST instruments Negative interest rate is sustainable for an extended periods, due to the ability to quickly transfer a large amount of money to settle a transaction Issues with negative interest rate : - When risk free rate < 0 → should use another sustainable expected risk-free rate (e.g.: Taylor rule), which is not fully risk-free - Need to forecast when the negative rates will return to LT sustainable risk-free rate. Another approach is to interpret negative risk-free rates as being consistent with contraction / early recovery stages of business cycle - Few comparable periods exist → hard to find historical data - Negative risk free rate = significant changes in the economy → less reliable historical data, required more subjective assessments - Hard to combine the effect of negative interest rate with less tested quantitative easing					
Fiscal policy	Fiscal policy to stimulate the economy : - Increase spending - Increase budget deficit (only change in deficit made by the government will influence growth)					