









B/	Introduction
	Consumption-Savings Framework – provides foundation for Goods-market demand function (againbut w/different interpretation Financial-market supply function An application of basic consumer analysis we will put a macro interpretation on it Two time periods Important: all analysis conducted from the perspective of the very beginning of period 1 so a "future" (period 2) for which to save
	Dynamic models are central to modern macroeconomic analysis
	An explicit accounting of time
	Two periods are sufficient to illustrate the basic principles Soon will extend beyond two periods (Chapter 8)
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Tin	neline	of events	Ec	conomic events during period 1: income, onsumption, savings	A1	Economic events during period 2: income, consumption, savings	a A ₂
	tation c ₁ : c ₂ : P ₁ : P ₂ : Y ₁ : Y ₂ : A ₀ : A ₁ : A ₂ :	tonsumption in consumption in consumption in nominal price of nominal incom nominal incom nominal wealth nominal wealth	nomic orizon n perio of cons of cons e in pe e in pe n at the n at the	Period 1 d 1 d 2 sumption in per riod 1 ("falls fr riod 2 ("falls fr e beginning of e beginning of e beginning of	iod 1 iod 2 om the om the period 2 period 2	Period 2 sky*) sky*) L/end of period 2/end of period 3/end of period	End of economic planning horizon

D	CT										
Dł	1910	-2									
	Tin	neline	of events	Ec	onomic events during period 1: income, onsumption, savings	A1	Economic events o period 2: incon consumption, sav	luring A ₂ ne, rings			
			_								
			Start of econ	omic	Period 1	•	Period 2	End of economic			
	planning horizon planning horizon planning horizon										
		<i>c</i> ₁ :	consumption in	perio	d 1						
		<i>c</i> ₂ :	consumption in	consumption in period 2							
		P ₁ :	nominal price of	cons	umption in pe	riod 1					
		P ₂ :	nominal price of consumption in period 2								
		Y 1:	nominal income in period 1 ("falls from the sky")								
		Y ₂ :	nominal income in period 2 ("falls from the sky")								
		A ₀ :	nominal wealth	at the	e beginning of	period	1/end of peri	od O			
		A ₁ :	nominal wealth at the beginning of period 2/end of period 1								
		A ₂ :	nominal wealth at the beginning of period 3/end of period 2								
		<i>i</i> :	nominal interest	t rate	between perio	ods					
		<i>r</i> :	real interest rat	e betv	ween periods		Р	-P(P)			
		п2:	net inflation rat	e betv	ween period 1	and per	riod 2 $\pi_2 = \frac{\pi_2}{2}$	$\frac{r_1}{P_1} \left(= \frac{r_2}{P_1} - 1 \right)$			
		y 1:	real income in p	eriod	$1 (= Y_1/P_1)$						
		y ₂ :	real income in p	eriod	$2 (= Y_2/P_2)$						
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	Macro Fundamentals
-	_
STOC	KS VS. FLOWS
Sto	ock variables (aka accumulation variables)
	Quantity variables whose natural measurement occurs at a particular moment in time
ſ□	Checking account balance
Economic de la conomic de la conomic de la conomic de la conomica de la conomica de la conomica de la conomic	Credit card indebtedness Interpret A in our model as net wealth (= total assets - total debts)
· [ם	Mortgage loan payoff
Economic Economic 1	w variables Quantity variables whose natural measurement occurs over the course of a given interval of time Income Consumption Savings
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	Macro Fundament
BA	SICS
	Building blocks of consumption-savings framework
	Utility Describes the benefits of engaging in financial market (and other) activities
	 Budget constraint Describes the costs of engaging in financial market (and other) activities
	Utility and budgets two <u>DISTINCT</u> concepts As in basic consumer analysis (Chapter 1)
	Only after describing utility and budgets separately do we bring the two together to obtain predictions from the framework
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Βι	JDGET CONSTRAINT(S)	Model Structure						
	Suppose again Y falls from the sky"							
	$\Box Y_1 \text{ in period } 1, Y_2 \text{ in period } 2$							
	Need two budget constraints to describe economic op and possibilities One for each period Period-1 budget constraint	portunities						
<u>otal exp</u> eriod-1 vealth to	$\underbrace{P_{1}c_{1} + A_{1}}_{\text{consumption +}} = \underbrace{Y_{1} + (1+i)A_{0}}_{\text{Total income in period 1:}}$ $\underbrace{\text{Total income in period 1:}}_{\text{vertex}} + \underbrace{\text{Total income from wealth carried into period 1}}_{\text{vertex}}$							
	Period-2 budget constraint							
	$\underbrace{P_2c_2 + A_2}_{} = \underbrace{Y_2 + (1+i)A_1}_{}$							
otal exp eriod-2 vealth to	Denditure in period 2: Total income in period 2: consumption + period-2 Y + income from o carry into period 3 wealth carried into period 2 (inclusive of interest) (inclusive of interest)							
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