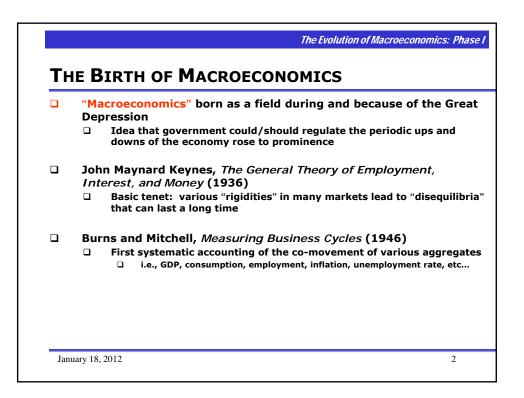
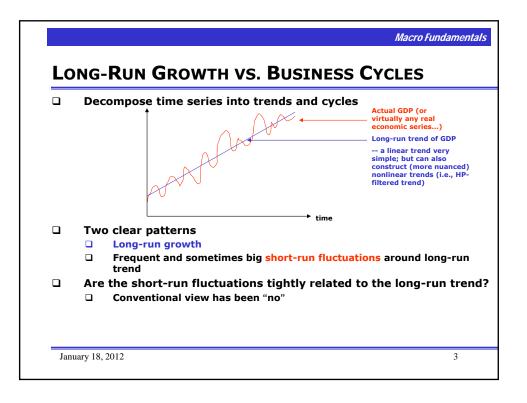
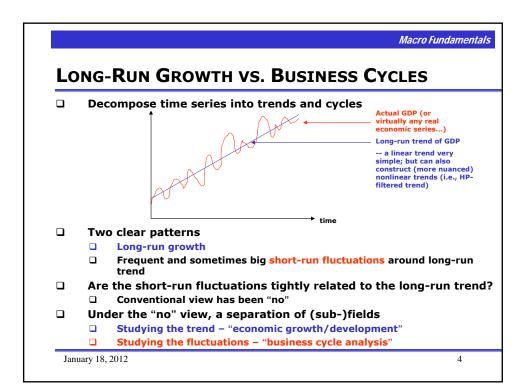
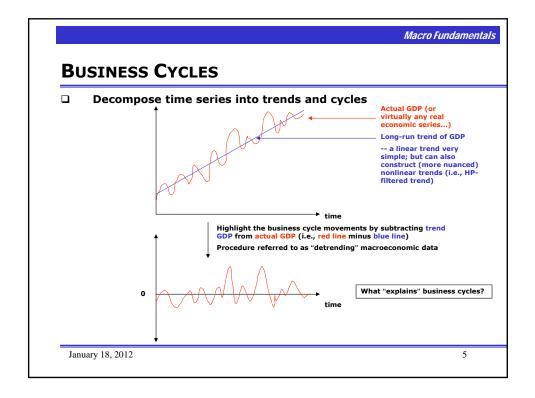


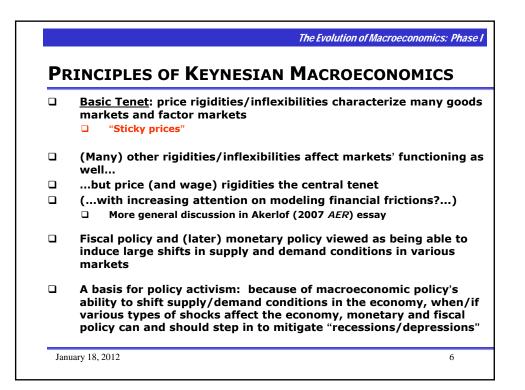
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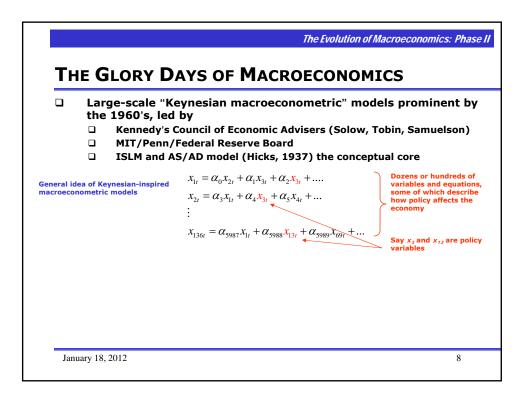


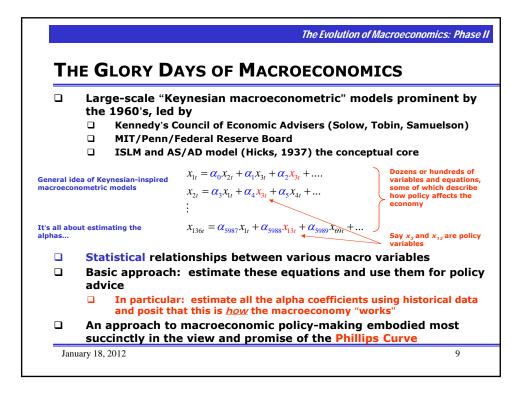


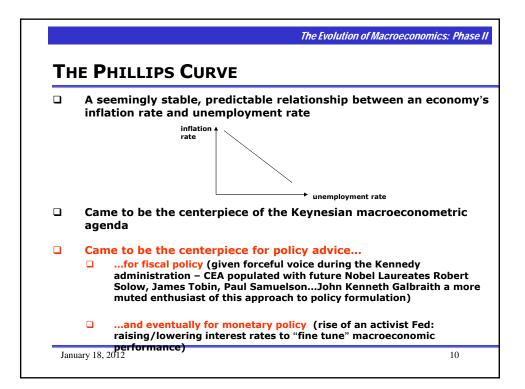




 IE RISE OF MACROECONOMICS					
"Macroeconomics" born as a field during and because of the Great Depression					
Idea that government could/should regulate the periodic ups and downs of the economy rose to prominence					
John Maynard Keynes, <i>The General Theory of Employment,</i> Interest, and Money (1936)					
Basic tenet: various "rigidities" in many markets lead to "disequilibri that can last a long time					
Burns and Mitchell, Measuring Business Cycles (1946)					
 First systematic accounting of the co-movement of various aggregate i.e., GDP, consumption, employment, inflation, unemployment rate, etc 					
How to " <mark>model</mark> " (i.e., conceptually/rigorously/mathematically think about) business cycles?					
Phase II: The large-scale macroeconometric models					



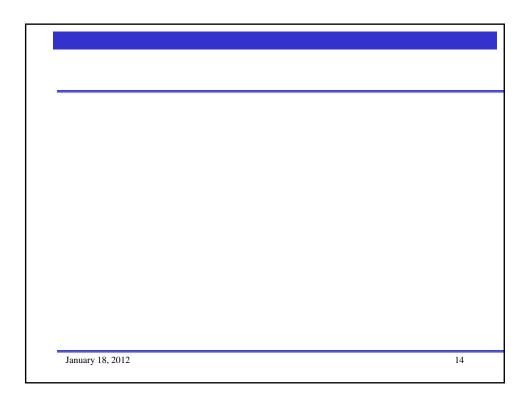


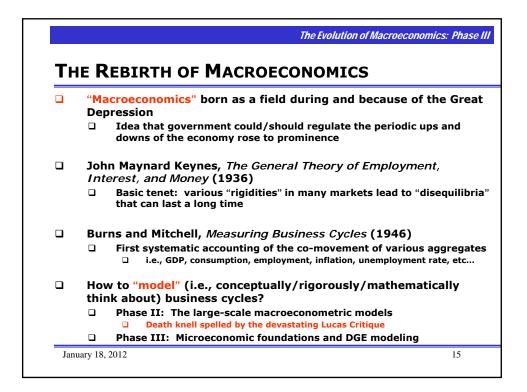


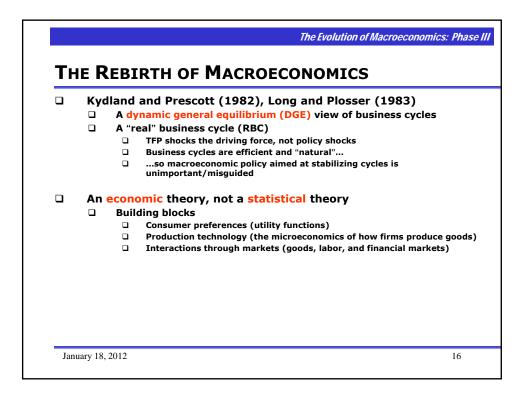
			ACROECONOMICS				
	Large-scale "Keynesian macroeconometric" models prominent by the 1960's, led by						
		Kennedy's C	Council of Economic Advisers (Solow, T	mic Advisers (Solow, Tobin, Samuelson)			
			Federal Reserve Board				
		ISLM and A	S/AD model (Hicks, 1937) the concept	ual core			
macroeco One of the	eneral idea of Keynesian-inspired acroeconometric models ne of these equations is the hillips Curve		$x_{1t} = \alpha_0 x_{2t} + \alpha_1 x_{3t} + \alpha_2 x_{3t} + \dots$ $x_{2t} = \alpha_3 x_{1t} + \alpha_4 x_{3t} + \alpha_5 x_{4t} + \dots$:	Dozens or hundreds of variables and equations, some of which describe how policy affects the economy			
	Por	ama widaly	$x_{136t} = \alpha_{5987} x_{1t} + \alpha_{5988} x_{13t} + \alpha_{5989} x_{697} + \dots$ used for policy-making	Say x₃ and x₁₃ are policy ≻ variables			
		-	pped "working" in the 1970's				
	u	Amidst a hig	gh-inflation environment (U.S. inflation of 1970's), sparked by OPEC oil embar				
	Luc	cas Critique	(1976)				
		. 2012		11			

Тн	IE LUCAS CRITIQUE
	Crucial inconsistency in Keynesian macroeconometric approach
"problem" always	The estimated coefficients (the alpha's) themselves may change if policy (monetary and/or fiscal) changes!
ent, but I't reveal If until the D's	In which case the macroeconometric approach <u>cannot</u> usefully give policy advice – unless one "knows"/makes assumptions about how the alpha's themselves depend on policy
	Discovered in the 1970's amidst world-wide macroeconomic turbulence induced (seemingly) by the two oil crises
	The usual Phillips relation "stopped working" even as policy-makers tried harder than ever to exploit it
	Led to breakdown of existing macroeconomic theory and opened the door for a complete re-thinking of the basic tenets of macroeconomics
	Keynesian macroeconometric models are not economic models
	Merely a statistical description of historical events
	Economics: the study of how incentives influence behavior of individuals/market participants
	A damning criticism of the entire macroeconomics profession

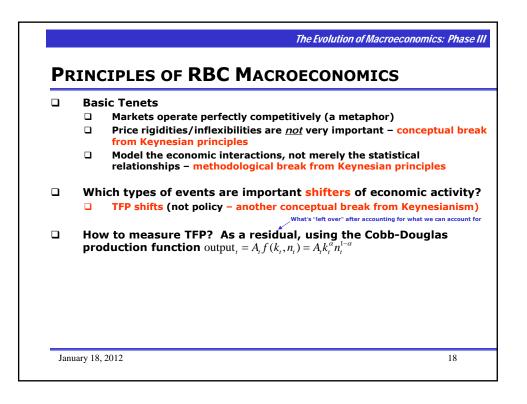
IE FALL OF MACROECONOMICS					
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How to " <mark>model</mark> " (i.e., conceptually/rigorously/mathematically think about) business cycles?					
 Phase II: The large-scale macroeconometric models Death knell spelled by the devastating Lucas Critique 					



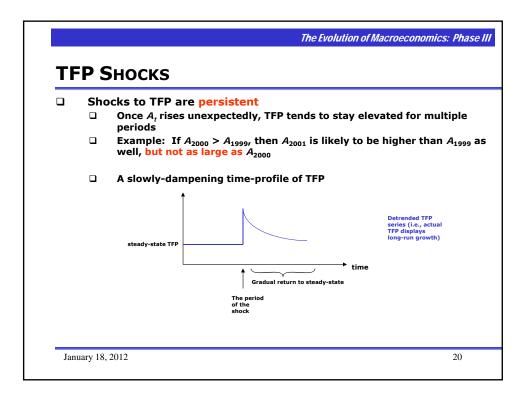


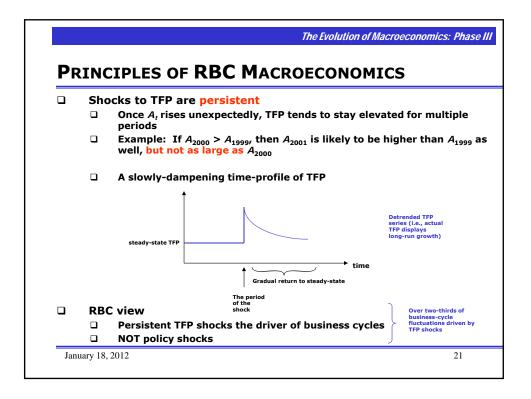


_	IE REBIRTH OF MACROECONOMICS				
	Kydland and Prescott (1982), Long and Plosser (1983)				
	A dynamic general equilibrium (DGE) view of business cycles				
	A "real" business cycle (RBC)				
	TFP shocks the driving force, not policy shocks				
	Business cycles are efficient and "natural"				
	so macroeconomic policy aimed at stabilizing cycles is unimportant/misguided				
	An economic theory, not a statistical theory				
	Building blocks				
	Consumer preferences (utility functions)				
	Production technology (the microeconomics of how firms produce goods)				
	Interactions through markets (goods, labor, and financial markets)				
	Labor markets are best described by supply and demand?				
	 Or by frictional markets (i.e., some frictions impede the meeting of buyers and sellers of labor)? e.g., geographical frictions? skil frictions? etc. 				
	The "alpha's" are functions of policy variables (if policy variables present in the model)				
	thus immune to Lucas Critique (?)				
	Foundation is the Solow neoclassical growth model				



			•••••		ACROECONOMICS			
	Basic Tenets							
		Markets	operate p	erfectly c	ompetitively (a metaphor)			
			dities/inf nesian pr		s are <u>not</u> very important – <mark>conceptual brea</mark>			
		Model the	e econom	ic interac	tions, not merely the statistical <mark>ical break from Keynesian principles</mark>			
	Whic				portant shifters of economic activity?			
		TFP shift	s (not po	licy – ano	ther conceptual break from Keynesianism) What's "left over" after accounting for what we can account for			
	How	to meas	sure TFP	? Asar	esidual, using the Cobb-Douglas			
	prod	uction f	unction ($output_t = A$	$A_t f(k_t, n_t) = A_t k_t^{\alpha} n_t^{1-\alpha}$			
EXAMPL	<u>.e</u> Period	Output	Capital	Labor	TFP			
	Periou	Output	capital	Labor				
		12.0	16	9	1.0 Productivity improved between 2006 and 2007			
	2006	12.0						
for simplicity .S. economy:	2006 2007	12.0	16	9	1.2 Productivity stagnated between 2007 and 2008			
ppose alpha = 5 for simplicity I.S. economy: pha ≈ 0.40)			16 16	9 16	1.2 / Productivity stagnated between 2007 and 2008 1.2 / Productivity declined between 2008 and 2009			





Keynesian Macroeconomics					
	Ideology: Price rigidities/"sticky prices"				
	Policy stance: policy (fiscal and monetary) of crucial importance for macroeconomic performance				
	Methodology: econometric/statistical modeling				
RB	C Macroeconomics				
	Ideology: Prices are not rigid or "sticky"				
	Policy stance: policy (neither fiscal nor monetary) not important for macroeconomic performance				
	Methodology: dynamic general equilibrium modeling				
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