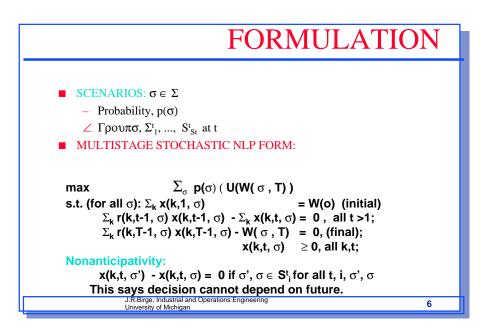
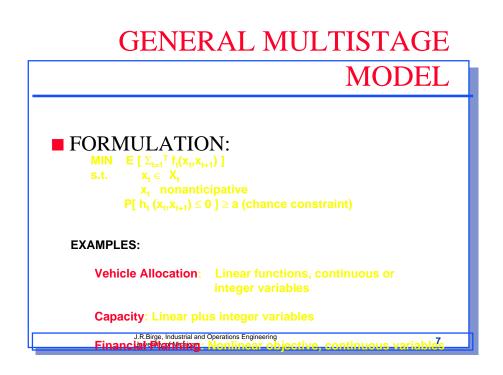


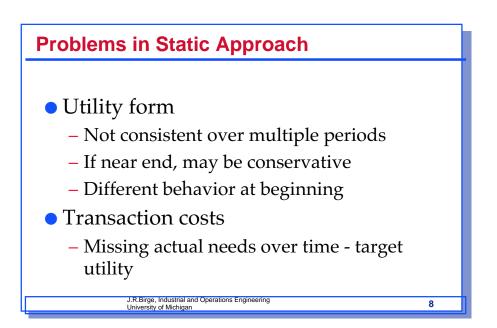


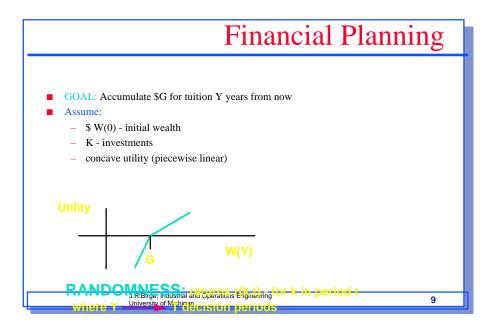
- Assume possible outcomes over time
   discretize generally
- In each period, choose mix of assets
- Can include transaction costs
- Can include liabilities over time
- Can include different measures of risk aversion
   J.R.Birge, Industrial and Operations Engineering University of Michigan

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DATA and SOLUTIONS				
ASSUME:				
<ul> <li>Y=15 years</li> </ul>				
- G=\$80,000				
- T=3 (5 year	intervals)			
– k=2 (stock/t	oonds)			
Returns (5 year)	,			
	r(stock) = 1.25 r(bo)	nds)= 1.14		
	r(stock) = 1.06 r(bor	,		
Solution:	(,			
PERIOD	SCENARIO	<b>STOCK</b>	BONDS	
1	1-8	41.5	13.5	
2	1-4	65.1	2.17	
2	5-8	36.7	22.4	
3	1-2	83.8	0	
3 J.R.Birg Univers	e, Industrial and Operations Engine ity of Michigan	ering 0	<b>71.4</b> 10	
3	5-6	0	71.4	
3	7-8	64.0	0	

