Sociological Dynamics Society Cambridge, MA USA Modeling Psychological and Sociological Dynamics Methods and Applications July 20, 2017 Pascal J Gambardella, PhD Emerging Perspectives LLC Silver Spring Maryland, USA Co-chairs, Psychology and Human Behavior SIG, System Dynamics Society





What do these words have in common?				
motivation	satisfaction depression	anger		
distress	morale	happiness		
enthusiasm	reputation	experience		
media interest	fear	burnout		
schedule pressure	service quality	stress		

































































Scale	Question	Response Categories or Assessment
Nominal	Are you satisfied with your marriage?	YES or NO
Ordinal		
Interval		
Ratio		

		Assessment
Nominal		
Ordinal	How satisfied are you with your marriage?	'Hot' 'Warm' 'Luke warm' 'Cold'
Interval		
Ratio		

Scale	Question	Response Categories or Assessment
Nominal		
Ordinal		
Interval	How satisfied are you with your marriage?	5=Very satisfied, 4=Somewhat satisfied, 3=Unsure, 2=Somewhat unsatisfied, 1=Very unsatisfied
Ratio		
Ratio		

Scale	Question	Response Categories or Assessment
Nominal		
Ordinal		
Interval		
Ratio	How satisfied is your marriage?	0 to 10
	your marriage?	





























Productivity = "schedule pressure effect on productivity"*normal productivity































EXERCISE: "III-Funded Police Pensions Put Cities in Bind"

Wall St Journal, July 5, 2017

"Municipalities that try cutting retirement plans face pushback both from the officers, some of whom quit, and from a propolice public."

- Suppose the city want to retain policemen
- Model current problem (stock and flow sketch)
- Just apply <u>one or two</u> things you have learned today
- Work in small groups





Contact Information			
Pascal J Gambardella, PhD	David W Lounsbury, PhD		
Co-chair, Psychology and Human Behavior SIG, System Dynamics Society	Co-chair, Psychology and Human Behavior SIG, System Dynamics Society		
Emerging Perspectives LLC pascalgambardella.com Silver Spring Maryland, USA	Department of Epidemiology and Population Health Albert Einstein College of Medicine Montefiore Medical Center, Bronx, NY USA		
pascalgambardella@gmail.com	david.lounsbury@einstein.yu.edu		
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