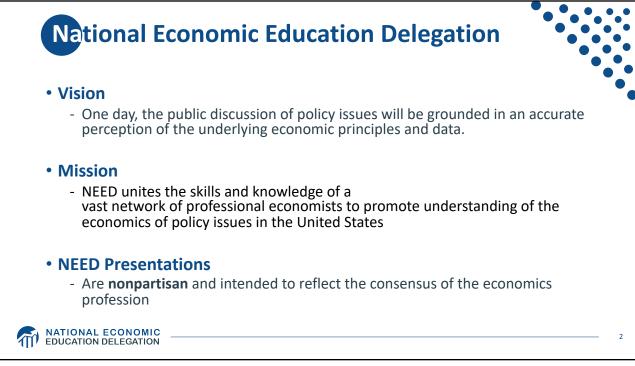




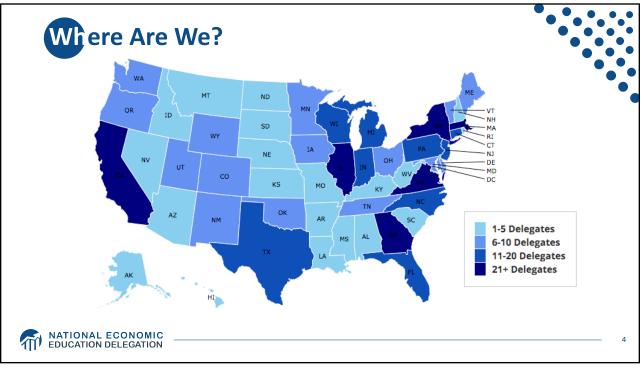
**Rotary Club of Palo alto** March 30, 2020 Jon Haveman, Ph.D.

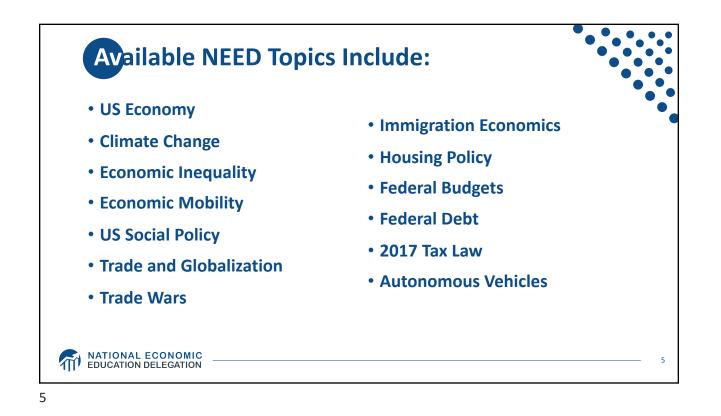
**Policy Response** 

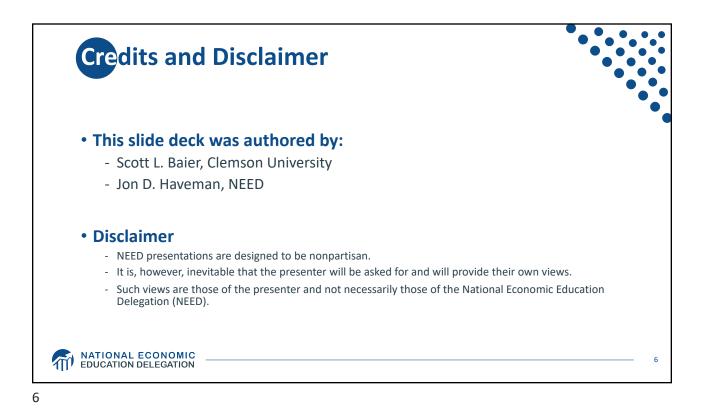
MATIONAL ECONOMIC EDUCATION DELEGATION





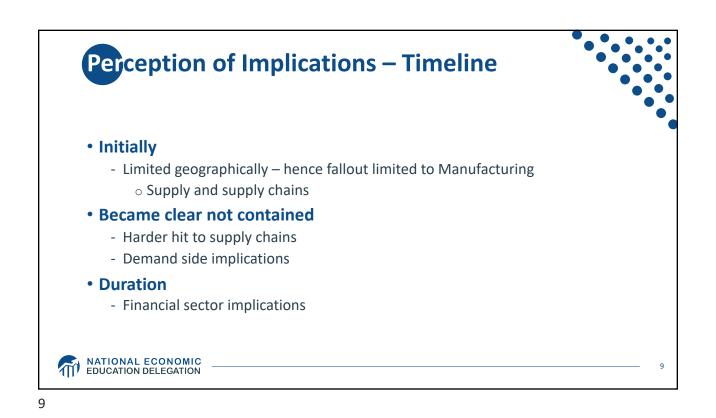




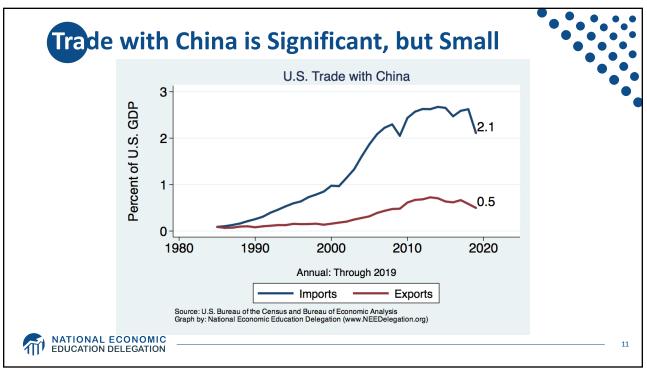


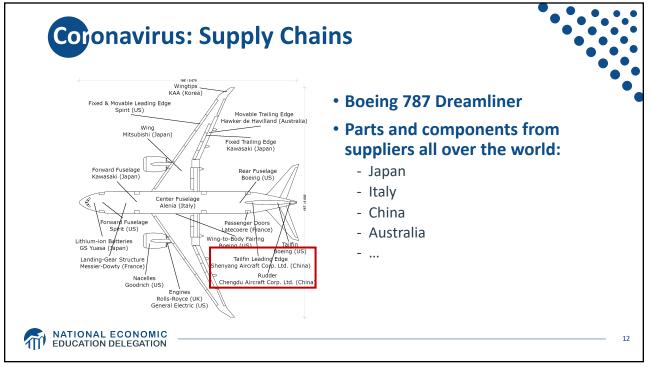


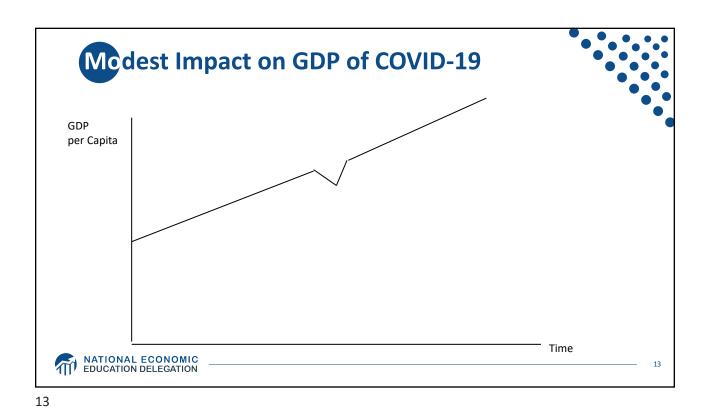




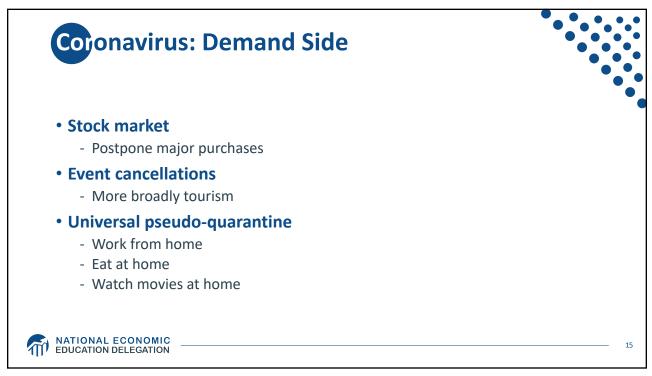




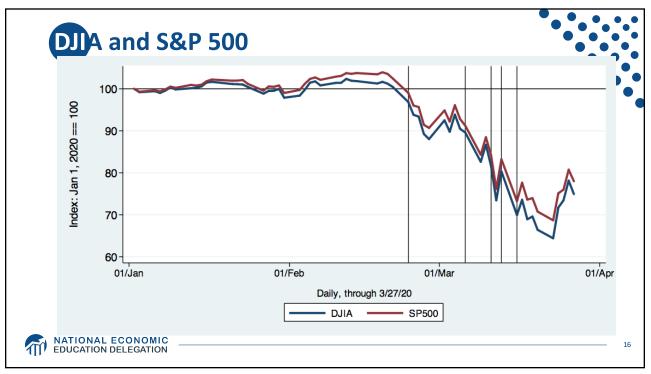




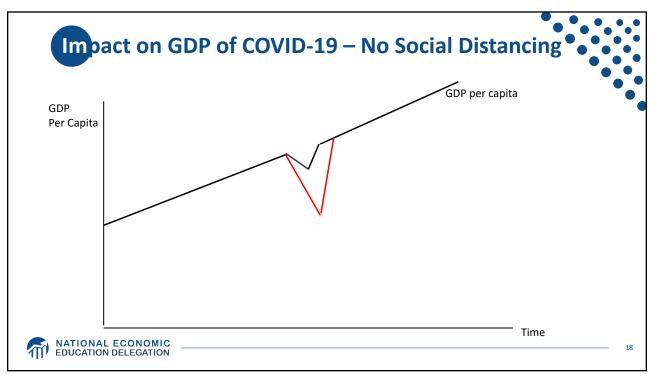


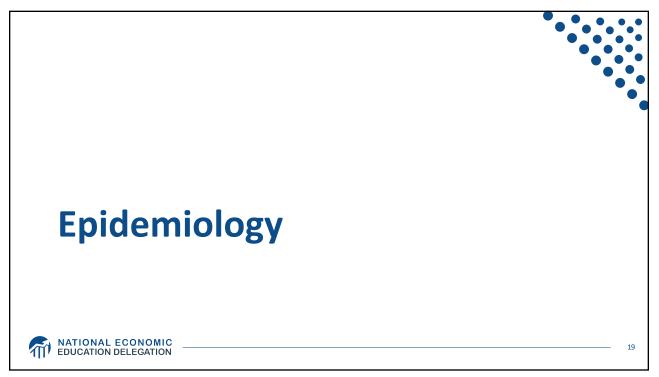


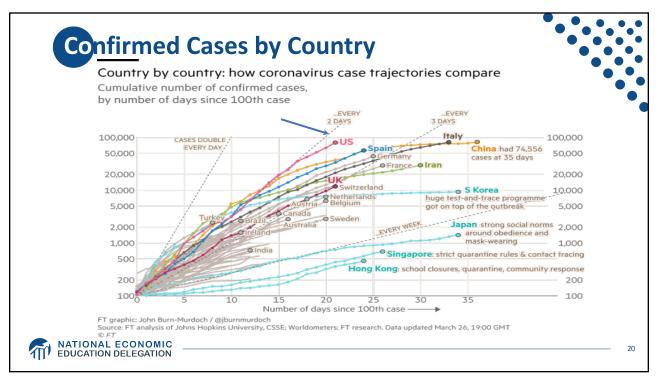


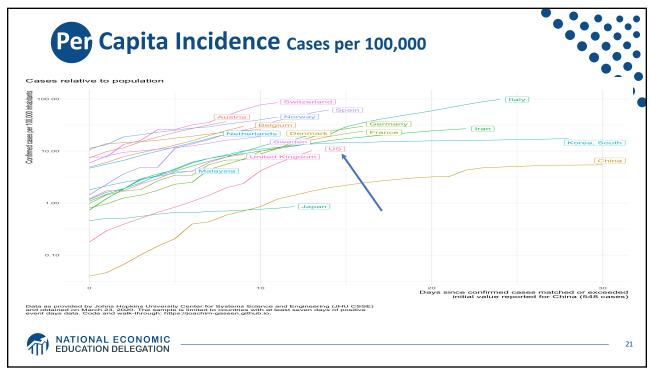


Industry	Share of GDP
Arts, entertainment, and recreation	1.1
Management of companies and enterprises	1.9
Other services, except government	2.1
Accommodation and food services	3.1
Transportation and warehousing	3.2
Retail trade	5.5
Educational services, health care, and social assistance	8.7
Manufacturing	11.3
Real estate and rental and leasing	13.3
То	al 50.2

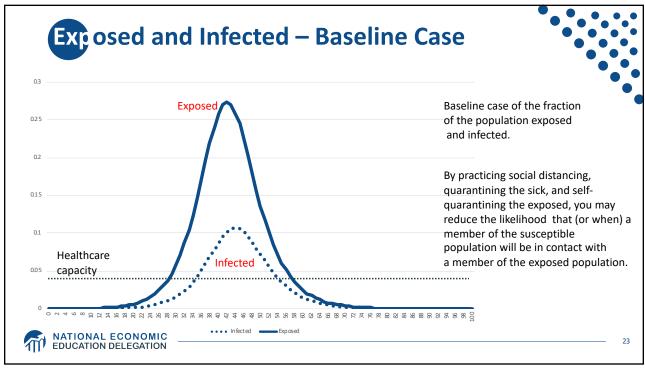


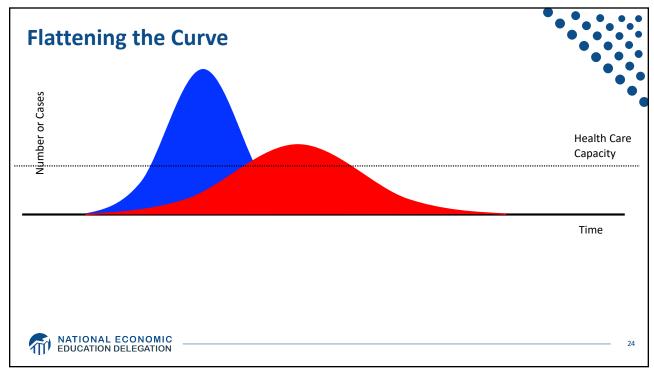


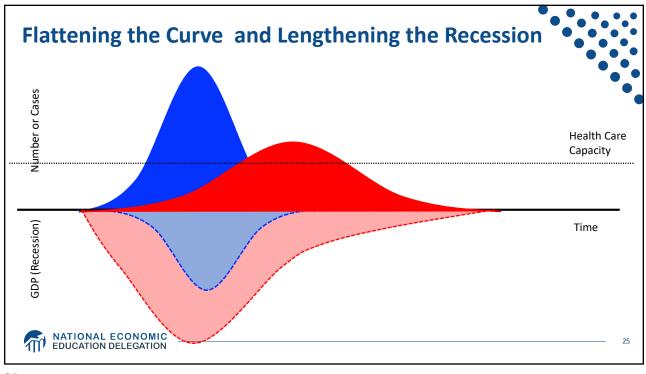


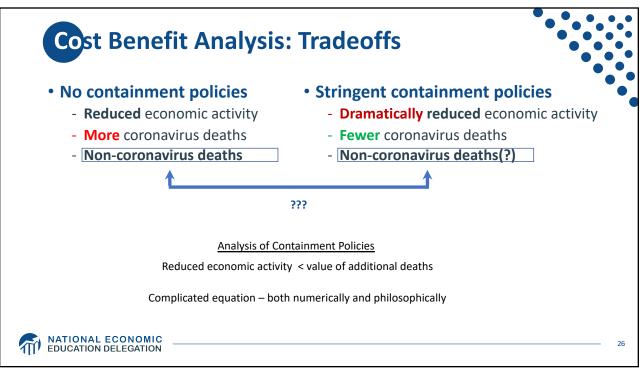


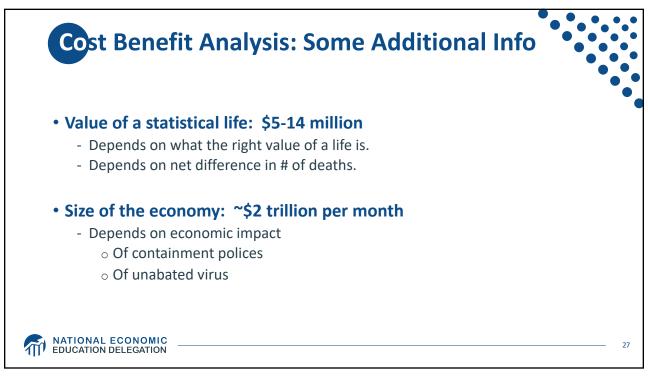
	Share of	Manufacturing as	Services as a	Confirmed	
Countries	World GDP	a Share of GDP	Share of GDP	Cases	Deaths
United States	24%	11%	77.4%	155,969	2,854
Canada	2%	10%	66.7%	6,320	65
JK	3%	9%	71.0%	19,788	1,228
Germany	5%	20%	61.8%	62,435	542
rance	3%	10%	70.3%	40,723	2,606
taly	2%	15%	66.3%	97,689	10,779
Spain	2%	11%	67.7%	85,195	7,340
lapan	6%	21%	69.1%	1,866	54
China	16%	29%	52.2%	81,218	3,281



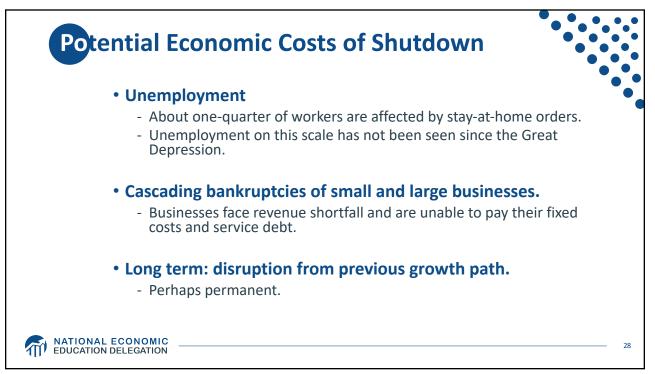


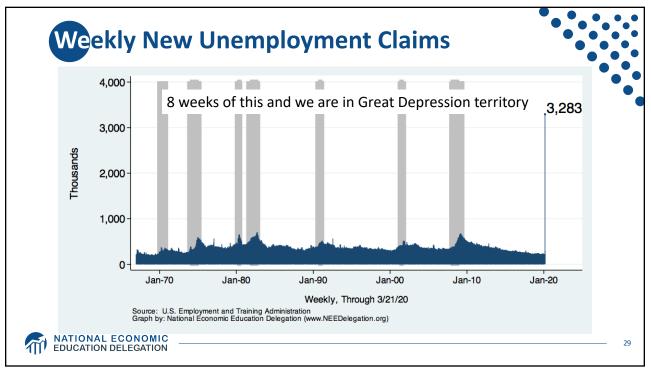


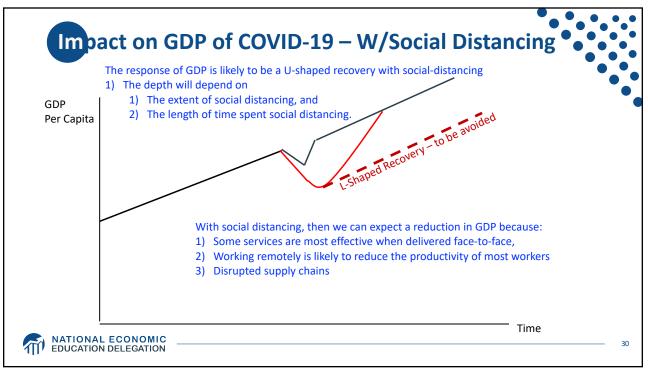


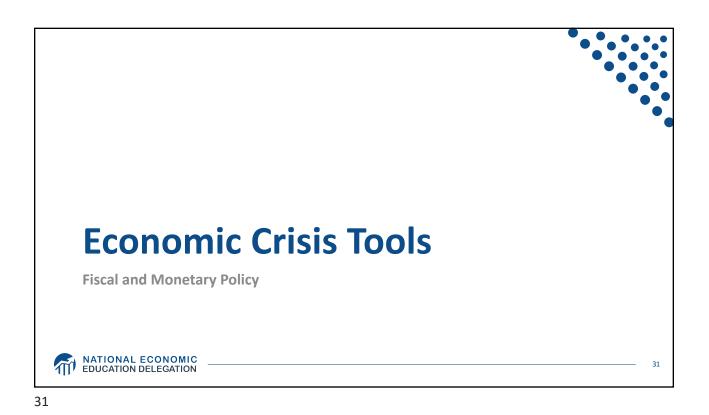


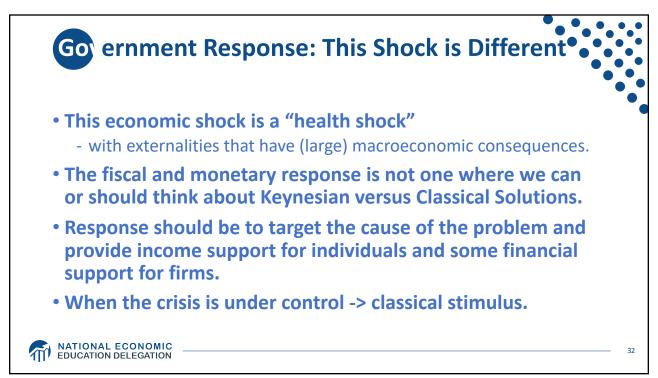


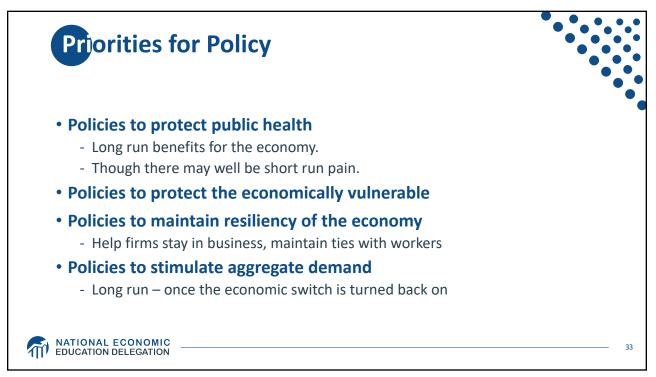






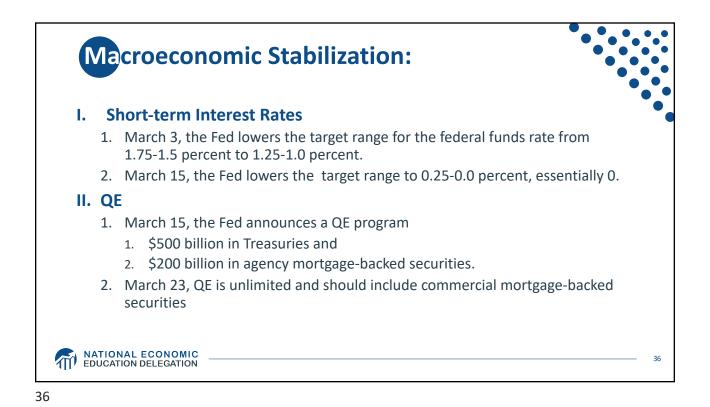






Phase	Amount (\$ bn)	Action
Phase 1 March 6	\$8	Emergency response, health care, vaccine development, prevention
Phase 2 March 18	\$100	Paid sick leave, unemployment insurance, free virus testing
Phase 3 Pending	\$250 \$250 \$350 \$100 \$17 \$500 \$180 \$100	Direct cash payments to families with income cap; \$1,200 per adult, \$500 per child Enhanced unemployment benefits Small business loans up to 250% of monthly payroll Corporate tax changes Community lending Loans & loan guarantees for businesses, incl. airlines State and local governments & Education Hospitals
TOTAL	\$1.5-2.5 Trillion	7-12% of GDP











Moneta			
	Date	Action	
	March 3	Fed Funds Rate Lowered 1.75-1.5 to 1.25-1	
	March 15	Fed Funds Rate Lowered to 0.25-0 Announced QE of \$700 billion	
	March 17	Commercial Paper Funding Facility Primary Dealer Credit Facility	
	March 18	Money Market Mutual Fund Liquidity Facility	
	March 23	Primary Market Corporate Credit Facility Secondary Market Corporate Credit Facility Term Asset-Backed Securities Loan Facility Unlimited QE	
	ТВА	Main Street Business Lending Program	
MATIONAL ECO EDUCATION DELE	NOMIC		39

