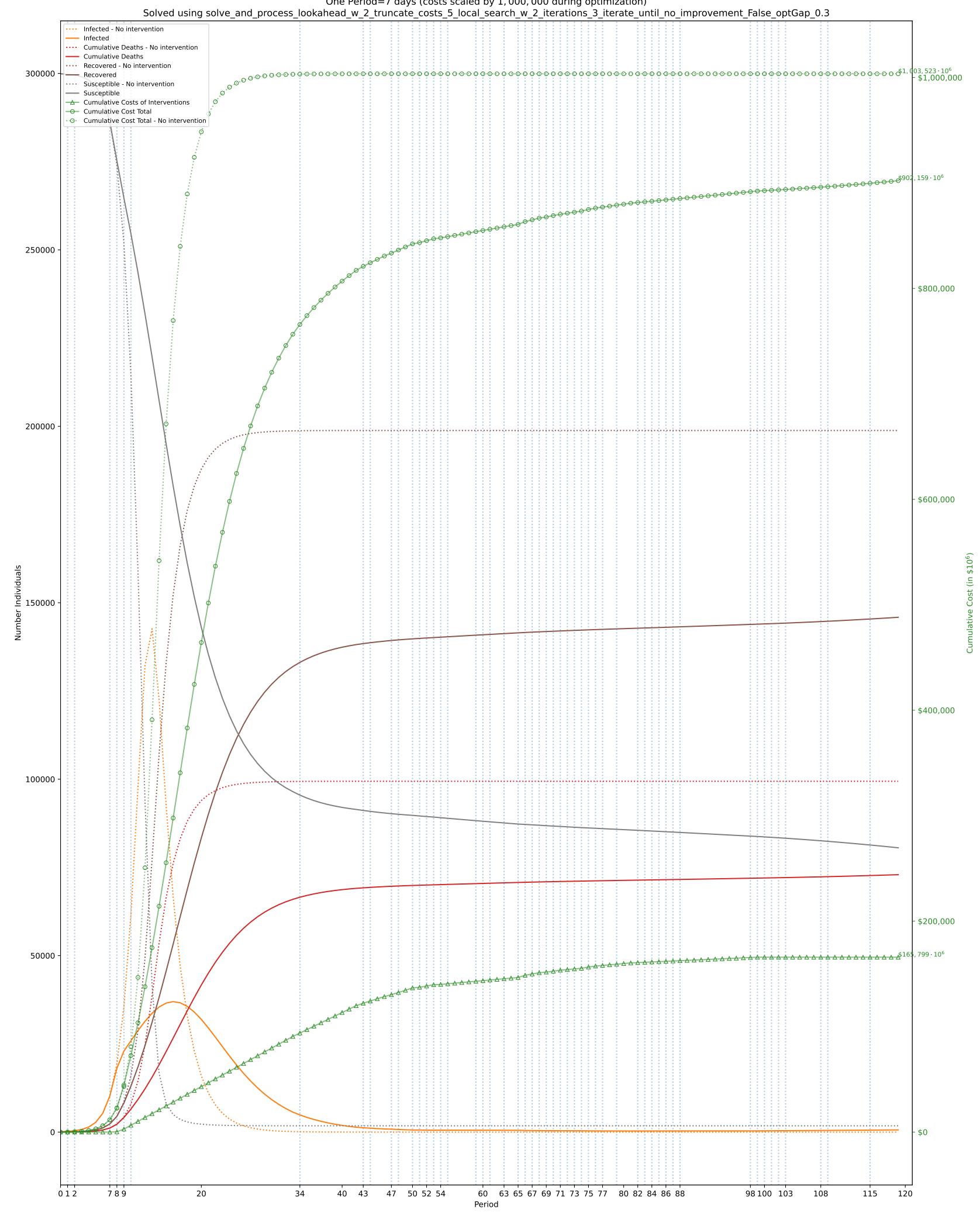
Objective: \$902, 159, 813, 527; without intervention: \$1,003,523,874,292 (Desired optimality gap: 50%; actual: 23%. Time to solve: 460s) $C^I = \$10,000, C^D = \$10,000,000$ One Period=7 days (costs scaled by 1,000,000 during optimization) Solved using solve_and_process_lookahead_w_2_truncate_costs_5_local_search_w_2_iterations_3_iterate_until_no_improvement_False_optGap_0.3



	1 2 -1 -6	7 8 -7 -8 -	9	10 -33	34 -42	43 4 -43 -4	4 47 16 - 47	48 5 -49-5	0 51 50-51	52 -52-	53 54 53-5	1 55 4 -58	59 -59	60 6 -60-6	1 63 52-64	65 6 -65-6	6 67 66-67	68 7-68-	69 7 69-7	9 71 0-71	72 73 -72-7	3 74 7 3-74-7	5 76 75-76	77 7 <u>9</u>	9 82 81 -82	83 2-83	84 8! -84-8	5 86 85-86	87 6-87	88 -97	98 99 -98-99	1001011 ·10(101	102 10: 102 -16	3 108 07 -108	109 -114	1 -1
0. Movement A: \$[500 ,1000]·10 ² C: \$[10 ,14]·10 ² P: [.93 ,.9]	3 4	4 4 3	L 2		2	1 1	1	1 1		1	L			4	4	4 1	. 4		4	1		4		4	4		4		4		4	4	3	4		
1. Education (University level) A: \$[0 ,0]·10 ² C: \$[10 ,14]·10 ² P: [.99 ,.93]	3 4	4 4 4	4 2		4	4 4	4	4 4	. 4	4 4	1 4	4				3						4									3	4	4	4		
2. Social Gatherings (in a house) A: \$[0 ,0 ,0 ,0]·10 ² C: \$[8 ,10 ,12 ,14]·10 ² P: [.99 ,.97 ,.95 ,.9]			4		4	4		4																												
3. Non-Food Service (bank, retail, etc) A: \$[250 ,500 ,1000]·10 ² C: \$[8 ,10 ,14]·10 ² P: [.99 ,.93 ,.9]	4	4 4 2	2 3		3	2 2	2	2 2		2 2	2			4	4	4 2	2 2	4				4	2									4		4		
4. Restaurants A: \$[500 ,1000]·10 ² C: \$[10 ,14]·10 ² P: [.93 ,.9]	4	4 1	L 2		2	1 1	1	1 1		1 1	L				4	4 1	. 4					3											3			
5. Masking A: \$[0 ,0 ,0]·10 ² C: \$[8 ,10 ,14]·10 ² P: [.99 ,.93 ,.9]	4 4	4 2	2 3		3	3 2	4	2 4	. 2	4 4	1 4	2	2	2 2	2	2 2	2	2	2 2	2	2 2	2 2	2	2 2	4	4	4 4	4	4 4		4					
6. Mega Events A: \$[250 ,500 ,1000]·10 ² C: \$[8 ,10 ,14]·10 ² P: [.99 ,.93 ,.9]	4 4	4 4 2	2 3		3	4 2	2	2 2		2 4	1				4	4 2	2	2		4		2										4	4	4		
7. Border Control A: \$[500 ,1000]·10 ² C: \$[10 ,14]·10 ² P: [.93 ,.9]	3 4	3 4 1	L 2		2	1 1	1	1 1		4	1				4	4 1	. 4	1	1		3	3 1					3				4	3		3		
8. Physical Distancing A: \$[0]·10 ² C: \$[10]·10 ² P: [.9]	4 4	1 1	L 1		1	1 1	1	1 1	. 1	1 1	L 1	1	1	1 1	1	1 1	. 1	1	1 1	1	1 1	1 1	1	1 1	1	1	1 1	1	1 1		1 1	4 4	4 4	4	4	+
Cost Per Period: TOTAL Cost Per Period: POLICY Cost Per Period: DISEASE Probability Factor	\$1.16 \$1.2e+6 \$0.0 \$0.0 \$1.16 \$1.2e+6 1.000 1.000	9 \$5.7¢ \$1.1¢ \$2 \$0.0 \$3e+¢ \$2 9 \$5.7¢ \$1.1¢ \$1 1.00¢ 0.90¢ 0	2.26 \$3e+1 2.56 \$3.76 1.96 \$2.66 .507 0.398	.0 ++09 ++10	\$6.7e+09 \$3.2e+09 \$3.5e+09 0.430	\$3.86 \$3. \$2.36 \$2. \$1.56 \$1. 0.534 0.5	3e+ \$2.7 1e+ \$1.8 2e+ \$9.4 664 0.60	\$2.96 \$2 6 \$2.16 \$2 6 \$8.26 \$7 9 0.564 0.	.96 \$1.26 .26 \$6e+6 e+6 \$6.26 549 0.833	\$1.86\$ \$1.26\$ \$6.26\$ 0.7120	1.84 \$8.1 1.24 \$3e 5.94 \$5. .712 0.9	64 \$1.2e+ +6 \$6e+08 64 \$5.7e+ 06 0.833	-09 \$1.24: 3 \$6e+0: -08 \$5.74: 0.833(\$1.2e \$1 \$6e+6 \$66 \$5.6e \$5 0.833 0.8	. 26 \$1.16 e+6 \$6e+6 . 66 \$5.56 333 0.833	\$1.1e \$2 \$6e+6 \$2 \$5.4e \$5 0.833 0.	.64 \$1.7 .14 \$1.2 .44 \$4.8 564 0.71	\$1.765 \$1.265 \$4.565 20.7126	\$1e+6 \$1. \$6e+6 \$96 \$4.36 \$4. 0.833 0.7	36 \$1.36 \$ e+6 \$9e+6 \$ 26 \$4.16 \$ 76 0.776 0	\$1e+(\$9. \$6e+(\$6e \$4e+(\$3. 0.8330.8	96 \$9.96 \$1 ++6 \$6e+6 \$1 96 \$3.96 \$3 33 0.833 0.	. 6¢ \$1.3¢ . 2¢ \$9e+6 . 8¢ \$3.6¢ 712 0.77¢	\$9.44 \$9. \$6e+6 \$6e \$3.46 \$3. 0.833 0.8	3e+ \$6.2 +08 \$3e+ 3e+ \$3.2 33 0.90	e \$6.2e 6 \$3e+6 6 \$3.2e 6 0.900	\$6.36 \$6. \$3e+6 \$36 \$3.36 \$3.	.36 \$6.3 e+6 \$3e+ .36 \$3.3 906 0.96	6 \$6.36 \$6. 6 \$3e+6 \$3e 6 \$3.36 \$3. 6 0.906 0.9	4e+08 +08 4e+08 00	\$6.5¢ \$6.5¢ \$3e+¢ \$3e+¢ \$3.5¢ \$3.5¢ 0.90¢ 0.90¢	\$3.54 \$3.74 \$ \$0.0 \$0.0 \$ \$3.54 \$3.74 \$ 1.000 1.000 1	\$3.86 \$4.2e- \$0.0 \$0.0 \$3.86 \$4.2e- 1.006 1.000	+08 \$4.76 \$0.0 +08 \$4.76 1.006	\$5.2e+08 \$0.0 \$5.2e+08 1.000	