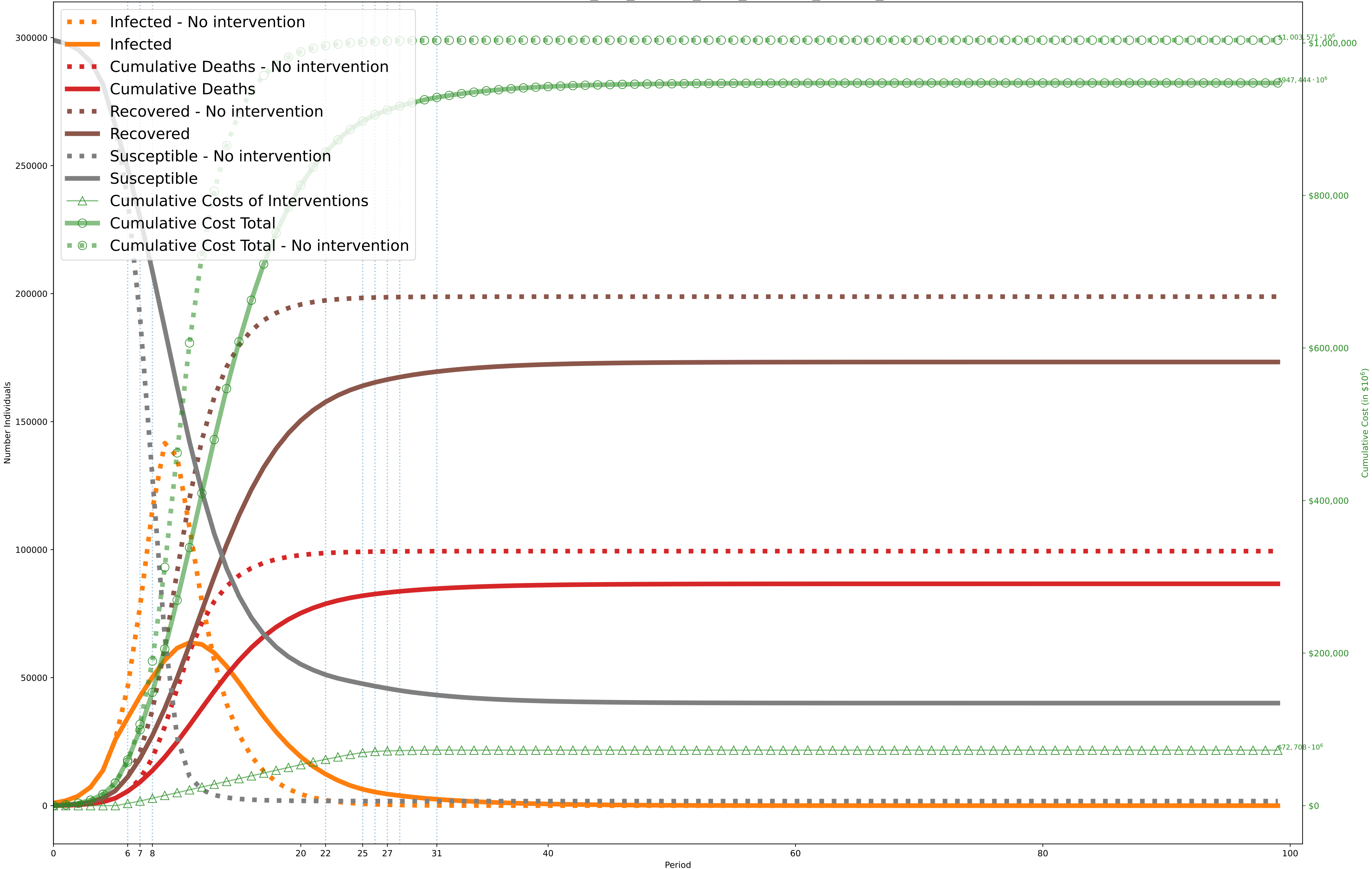


Objective: \$947, 444, 913, 746; without intervention: \$1, 003, 571, 304, 682 (Desired optimality gap: 80%; actual: 77%. Lower Bound: \$216,595,000,000. Time to solve: 53s)

$C^I = \$10,000, C^D = \$10,000,000$

One Period=7 days (costs scaled by 1, 000, 000 during optimization)

Solved using solve\_and\_process\_early\_stopping\_optGap\_0.8



	0 -5	6 -6	7 -7	8 -21	22 -24	25 -25	26 -26	27 -27	28 -30	31 -99
0. Movement A: \$[5000 ,10000]·10 <sup>2</sup> B: \$[10000,20000]·10 <sup>2</sup> C: \$[10 ,14 ]·10 <sup>2</sup> P: [.95 ,.93 ]		2	2	2	2					
1. Education (University level) A: \$[0 ,0 ]·10 <sup>2</sup> B: \$[0 ,0 ]·10 <sup>2</sup> C: \$[10 ,14 ]·10 <sup>2</sup> P: [.99 ,.95 ]				2						
2. Social Gatherings (in a house) A: \$[0 ,0 ,0 ]·10 <sup>2</sup> B: \$[0 ,0 ,0 ,0 ]·10 <sup>2</sup> C: \$[8 ,10 ,12 ,14 ]·10 <sup>2</sup> P: [.99 ,.99 ,.97 ,.93 ]		4	4	4	4	4	4	4		
3. Non-Food Service (bank,retail, etc) A: \$[2500 ,5000 ,10000]·10 <sup>2</sup> B: \$[5000 ,10000,20000]·10 <sup>2</sup> C: \$[8 ,10 ,14 ]·10 <sup>2</sup> P: [.99 ,.95 ,.93 ]		3	3	3	3	3				
4. Restaurants A: \$[5000 ,10000]·10 <sup>2</sup> B: \$[10000,20000]·10 <sup>2</sup> C: \$[10 ,14 ]·10 <sup>2</sup> P: [.95 ,.93 ]			2	2	2	2	2			
5. Masking A: \$[0 ,0 ,0 ]·10 <sup>2</sup> B: \$[0 ,0 ,0 ]·10 <sup>2</sup> C: \$[8 ,10 ,14 ]·10 <sup>2</sup> P: [.99 ,.95 ,.93 ]		3	3	3	3	3	3			
6. Mega Events A: \$[2500 ,5000 ,10000]·10 <sup>2</sup> B: \$[5000 ,10000,20000]·10 <sup>2</sup> C: \$[8 ,10 ,14 ]·10 <sup>2</sup> P: [.99 ,.95 ,.93 ]		3	3	3	3	3				
7. Border Control A: \$[5000 ,10000]·10 <sup>2</sup> B: \$[10000,20000]·10 <sup>2</sup> C: \$[10 ,14 ]·10 <sup>2</sup> P: [.95 ,.93 ]		2	2	2	2					
8. Physical Distancing A: \$[0 ]·10 <sup>2</sup> B: \$[0 ]·10 <sup>2</sup> C: \$[10 ]·10 <sup>2</sup> P: [.93 ]		1	1	1	1	1	1	1	1	
Cost Per Period: TOTAL Cost Per Period: POLICY Cost Per Period: DISEASE Probability Factor	\$4.9e+09 \$0.0 \$4.9e+09 1.000	\$3e+10 \$2.8e+09 \$2.7e+09 0.579	\$4e+10 \$3.2e+09 \$3.6e+09 0.536	\$5.3e+10 \$3.7e+09 \$4.9e+10 0.509	\$1.6e+10 \$3.2e+09 \$1.3e+10 0.536	\$1.1e+09 \$2.4e+09 \$5.3e+09 0.626	\$8.3e+08 \$1.6e+09 \$6.8e+08 0.732	\$6.3e+08 \$7.2e+08 \$5.6e+08 0.856	\$4.5e+09 \$3e+08 \$4.2e+09 0.925	\$3.2e+08 \$0.0 \$3.2e+08 1.000