

Covid-19 Policy Analysis

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Policies of Interest

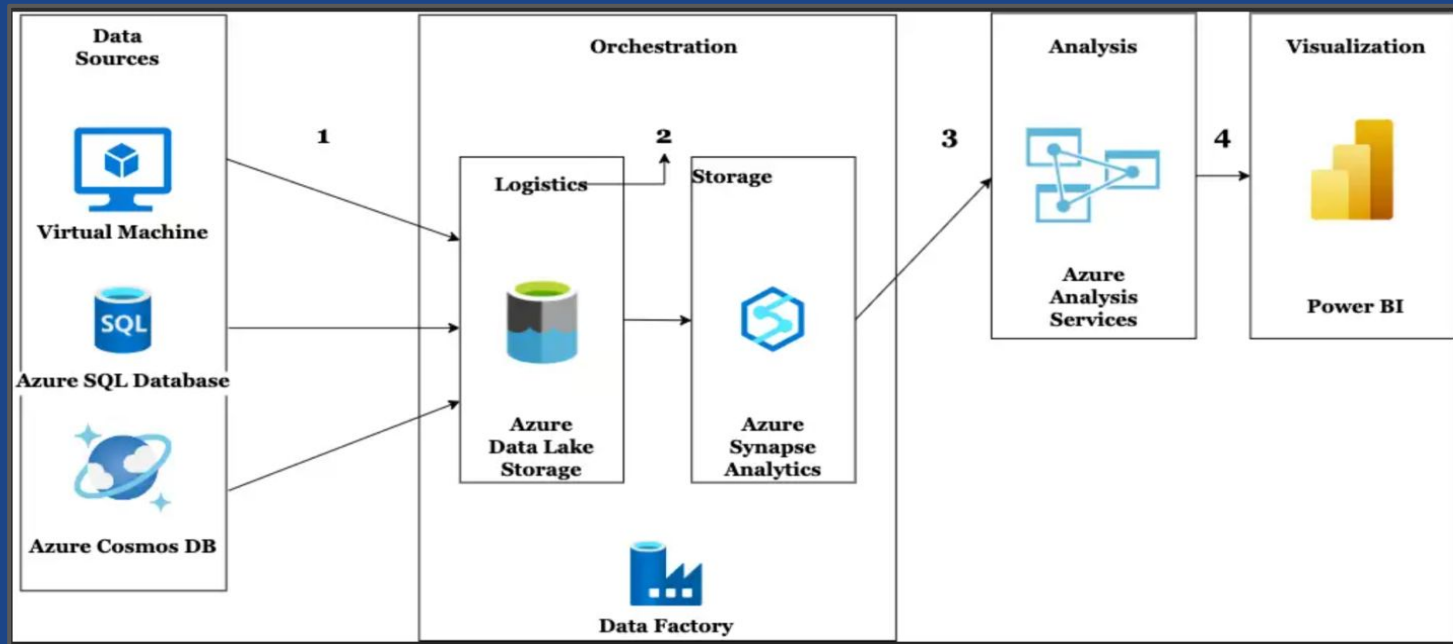
1. School Closing

2. Facial Covering

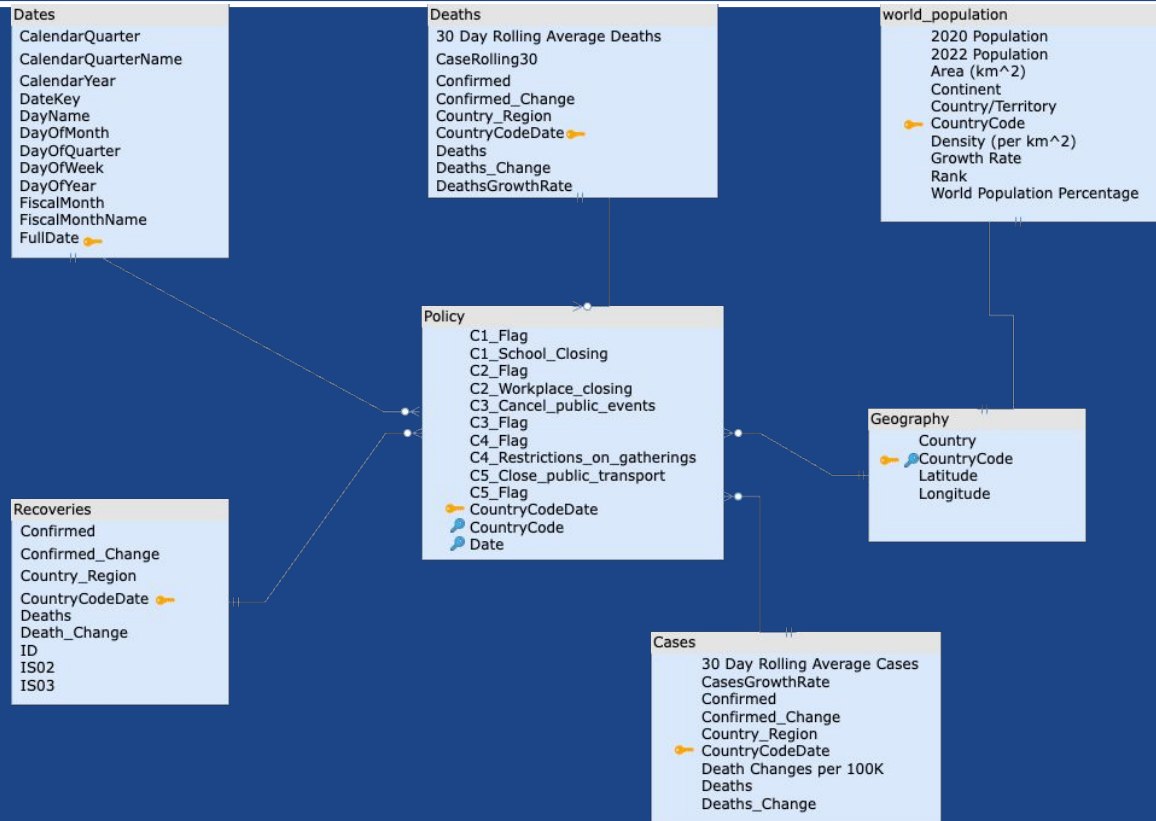
3. Restrictions on Gatherings

Diagrams

Architecture Diagram

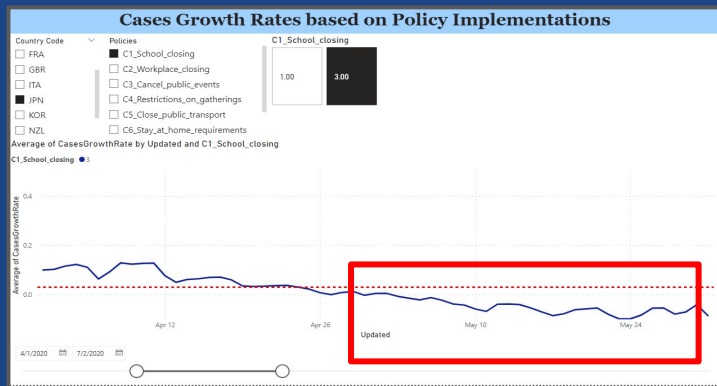


Schema Diagram

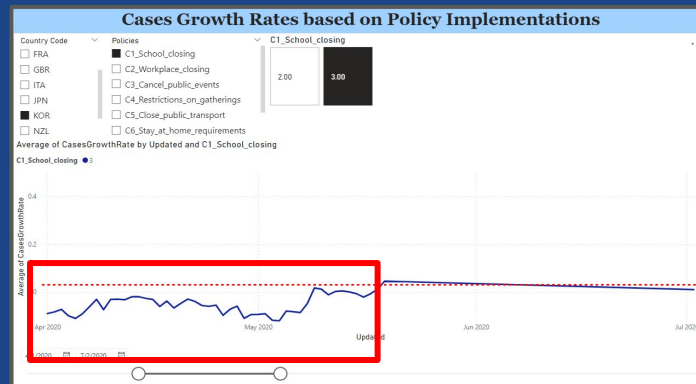


Policy Recommendation (Cases)

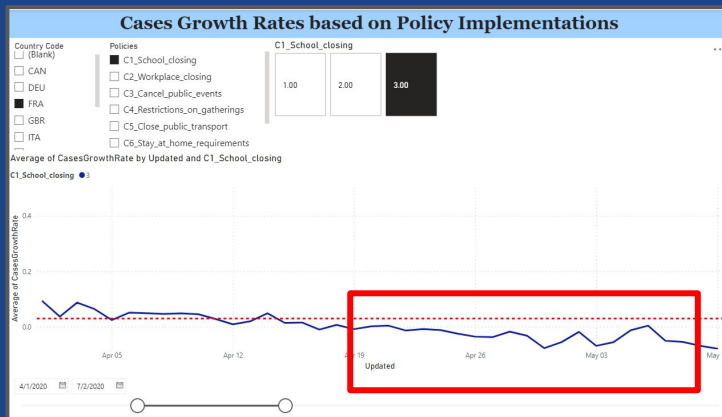
School Closing Policy



Japan

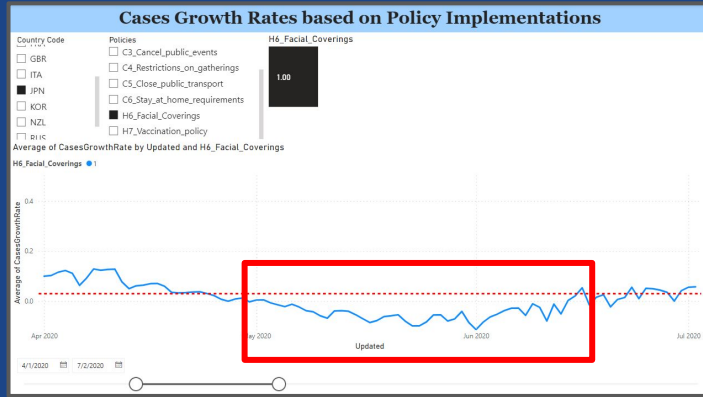


Korea

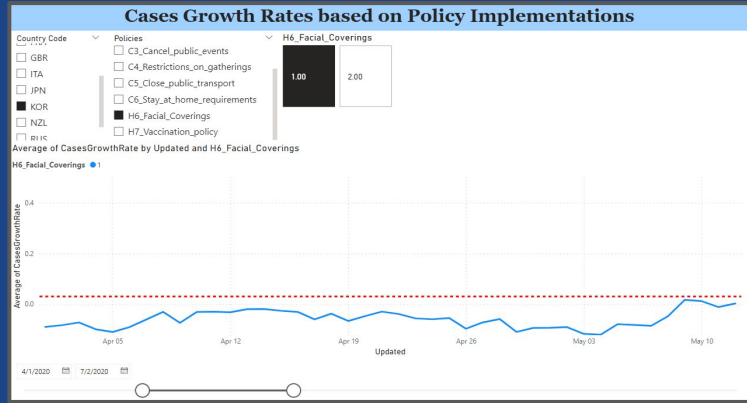


France

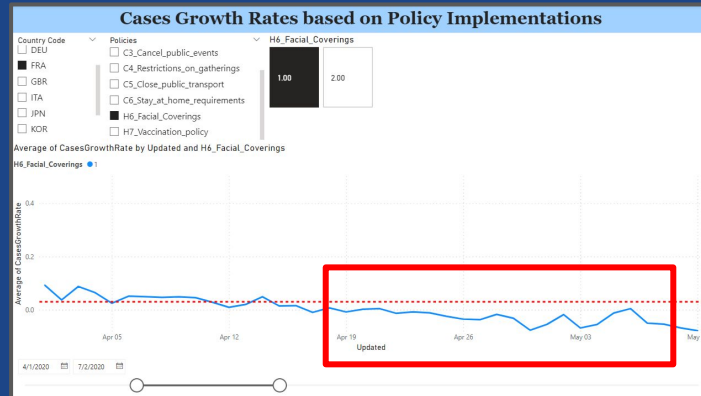
Facial Coverings Policy



Japan

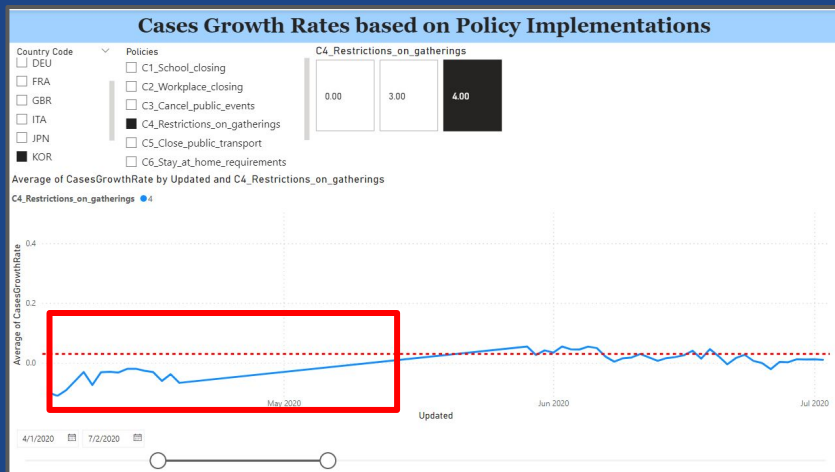


Korea



France

Restrictions on Gatherings Policy



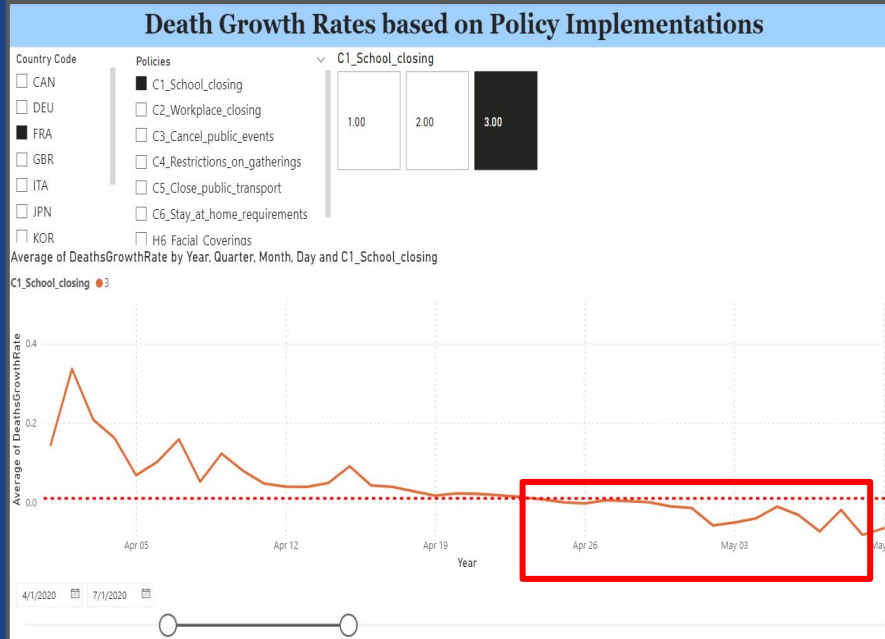
Korea

France

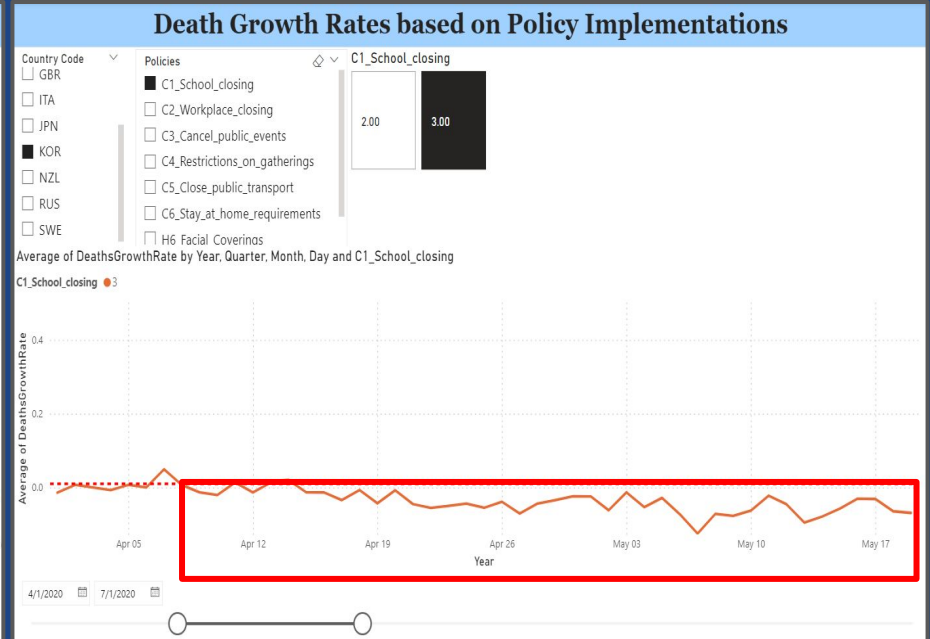


Policy Recommendation (Deaths)

School Closing Policy

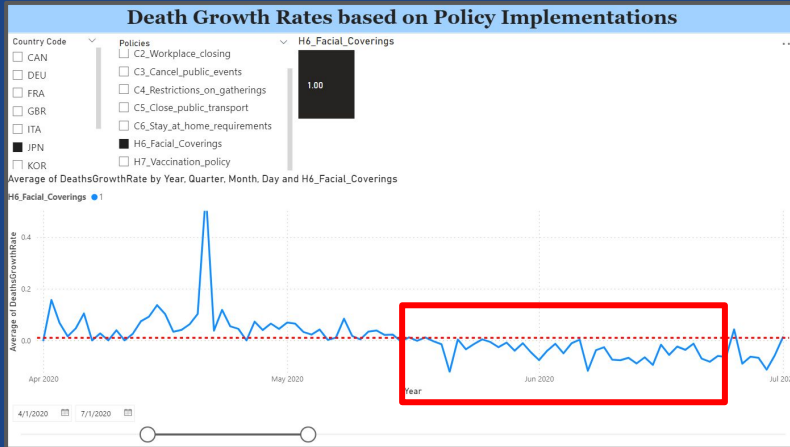


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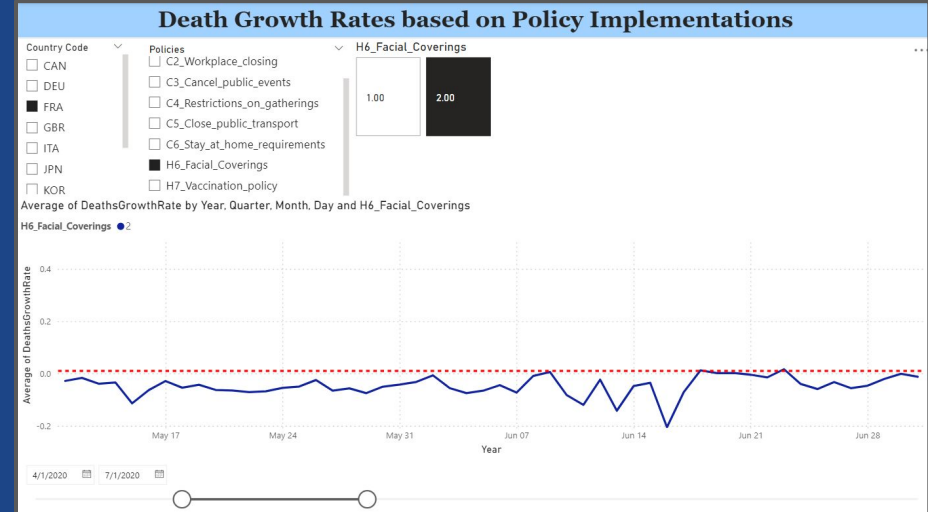


Korea

Facial Coverings Policy

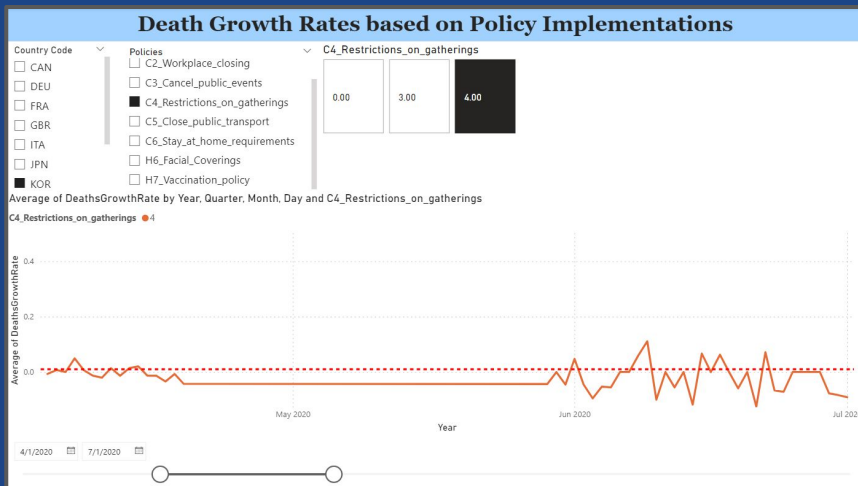


Japan



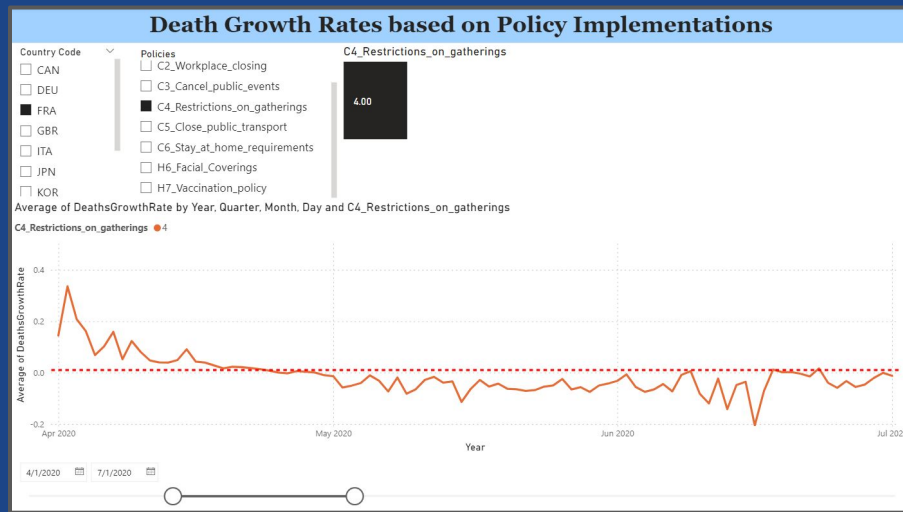
France

Restrictions on Gatherings Policy



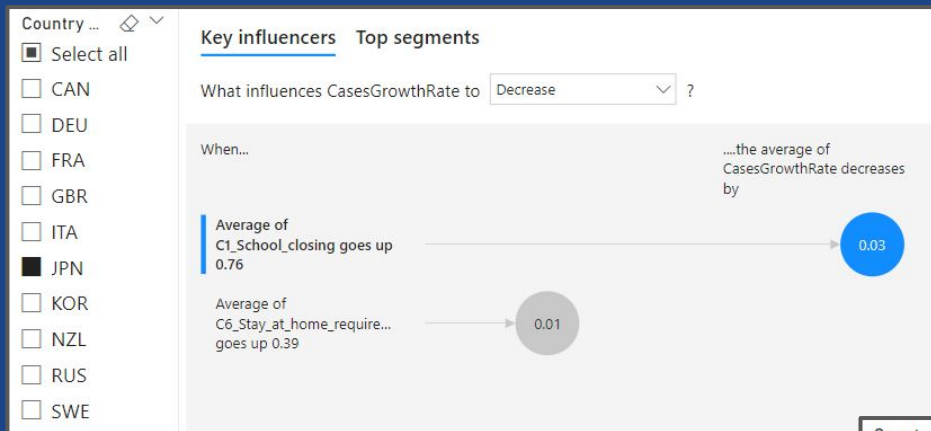
Korea

France



Statistical Evidence

School Closing vs. Cases Growth Rate

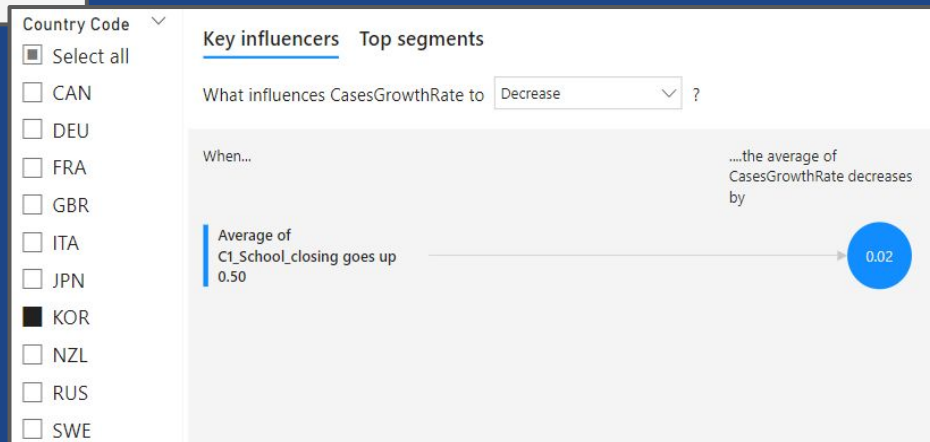


Japan

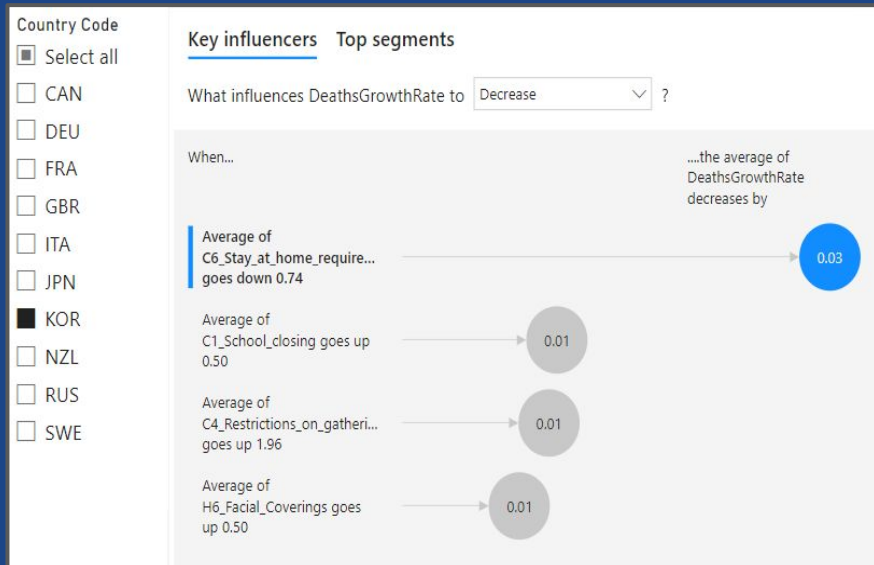
Normalization for Japan:
 $0.03/0.76 \rightarrow 0.039$

Korea

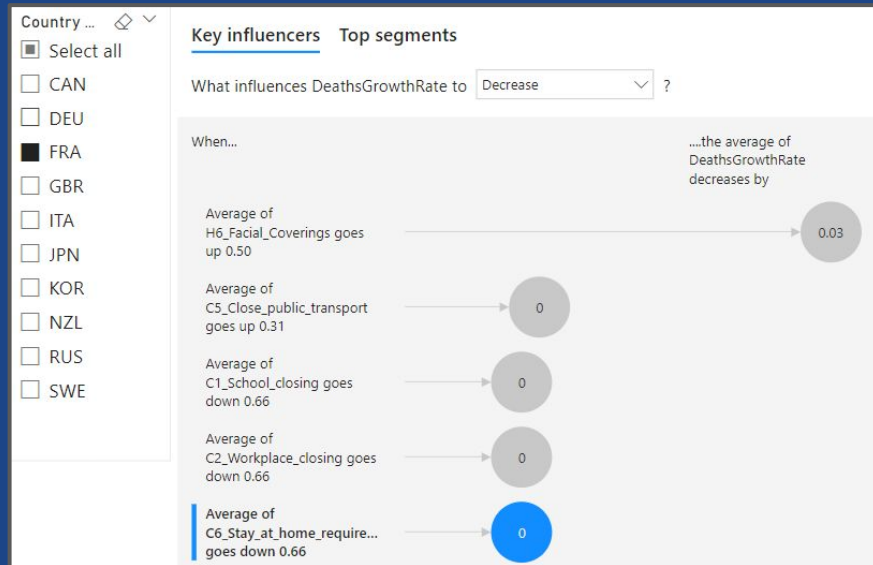
Normalization for Korea:
 $0.02/0.5 \rightarrow 0.04$



Policies vs. Death Rates



Korea:
 $0.01/0.5 \rightarrow 0.02$



France:
 $0.5/0.03 \rightarrow 0.06$

Final Thoughts and Recommendations

What non-restrictive policies worked best?

- School Closing (Level 3)
- Facial Covering (Level 1)

What do we recommend in the future?

- Caladan should implement the above policies at their respective levels before COVID-19 starts to spread. These policies are the least restrictive that keep COVID-19 cases growth rate below 3% and death growth rate below 1%.