Belgium **Deaths** Cases 8 -- 1.75 0.200 7 – 0.175 **-** 1.50 6 -0.150 **-** 1.25 % of population population Case data 0.125 **-** 1.00  $DT_t$ 0.100 **-** 0.75  $I_t$  (rhs) ් 0.075 % - 0.50 0.050 Death data - 0.25 1 -0.025  $DD_t$ 0 -- 0.00 0.000 2020-10 2021-10 2021-10 2020-10 2021-01 2021-04 2021-01 2021-01 2021-04 2021-01 Susceptible & vaccinated Infection rate 100 2.0  $S_t$ γt  $V_t$ 80 1.5 % of population 60 1.0 0.5 40 0.0 20 -0.50 2020-10 2020-10 2021-01 2021-04 2021-01 7 2021-10 2022-01 0 2021-01 2021-04 2021-07 2021-10 Mobility Death probability 0 20 Death probability -10 Forecast % deviations from norm 15 -20 Random vaccines Targeted vaccines -30 ° 10 -40 -50 5 Google mobility -60 Model -70 0 2021-01 2020-07 2020-10 2020-10 2021-10 2021-04 2021-07 2021.01 2021.04 2021.07 2021.10