Russia **Deaths** Cases 80.0 4.0 -- 0.25 0.07 3.5 -0.06 3.0 --0.20population Case data 0.05 **-** 0.15  $DT_t$ 0.04  $t_t$  (rhs) ර් 0.03 % - 0.10 0.02 1.0 -Death data -0.050.01 0.5 - $DD_t$ 0.0 -0.000.00 2020-10 2021-10 2020-07 2021-10 2020-10 2020-04 2021-01 2021-04 2021-01 2021-01 2021-04 2021-01 Susceptible & vaccinated Infection rate 100 2.0  $S_t$  $\gamma_t$  $V_t$ 80 1.5 % of population 60 1.0 40 0.5 20 0.0 0 2021-01 2020-10 2020-10 2021-04 2021-01 0 2021.01 2021.04 2021.07 2021.10 Mobility Death probability Death probability 0 4 **Forecast** % deviations from norm -10 Random vaccines 3 Targeted vaccines -20 % 2 -30 Google mobility -40 Model -50 0 2020-10 2021-04 2021-01 2020-07 2020-10 2021-07 2021.01 . 2021-10 2021-04 2021-07 2021-10