Spain **Deaths** Cases 8 -0.175 - 1.0 7 -0.150 - 0.8 6 -0.125 0.100 0.075 0.050 % of population Case data **-** 0.6 DT_t I_t (rhs) -0.40.050 2 -Death data - 0.2 0.025 1 - DD_t 0 --0.00.000 2020-10 2021-10 2020-07 2020-10 2021-10 0 2021.01 2021.04 2021.01 2021-01 2021-04 2021-01 Susceptible & vaccinated Infection rate 100 3.0 S_t γ_t 2.5 V_t 80 2.0 % of population 60 1.5 1.0 40 0.5 20 0.0 -0.50 2020-10 2020-10 0 2021.01 2021.04 2021.01 1 2021-10 2022-01 0 2021-01 2021-04 2021-07 2021-10 Mobility Death probability 30 0 Death probability 25 Forecast % deviations from norm -20 Random vaccines 20 Targeted vaccines -40 % 15 10 -60 Google mobility 5 Model -80 0 2020-07 2020-10 2021-01 2020-10 2021-10 2021-04 2021-07 0 2021-01 2021-04 2021-07 2021-10