A framework for pandemic resilience
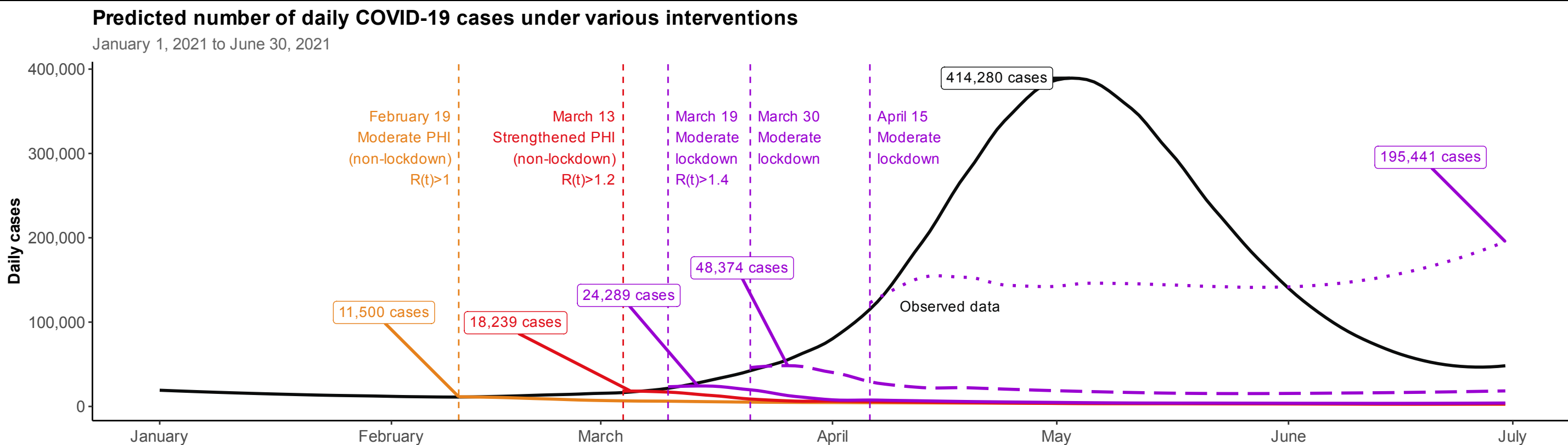
Data-driven intervention effect estimates

Time-varying effective R in Maharashtra

Intervention schedules

— Moderate PHI   — Strengthened PHI   — Moderate lockdown

Note: Dashed line represents no change to pi schedule
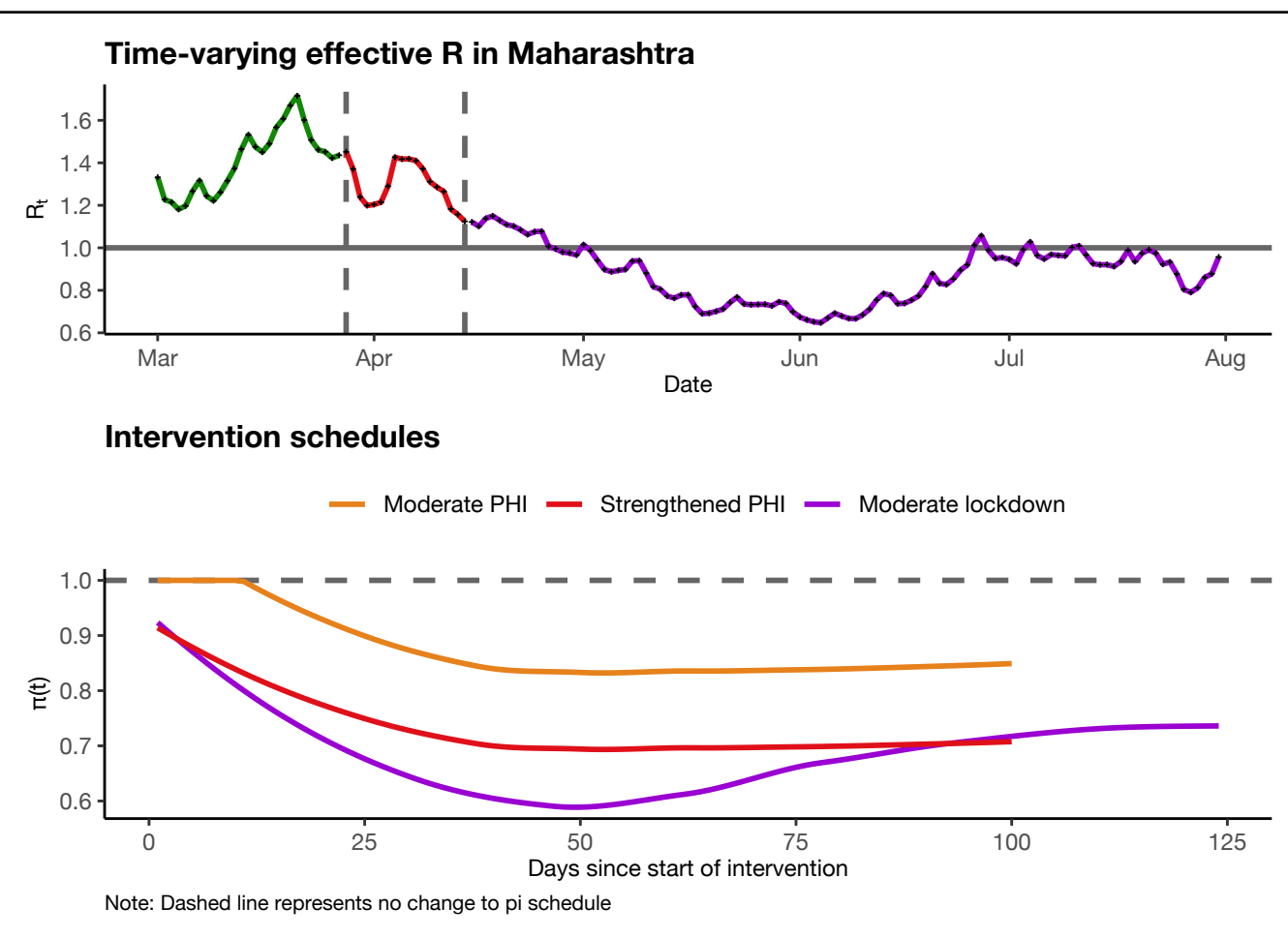
Metric-driven intervention triggers

Trailing 7-day average R in India
January 1, 2021 to April 30, 2021

February 19 (R>1)   March 13 (R>1.2)   March 19 (R>1.4)

Moderate lockdown

Strengthened PHI

Moderate PHI
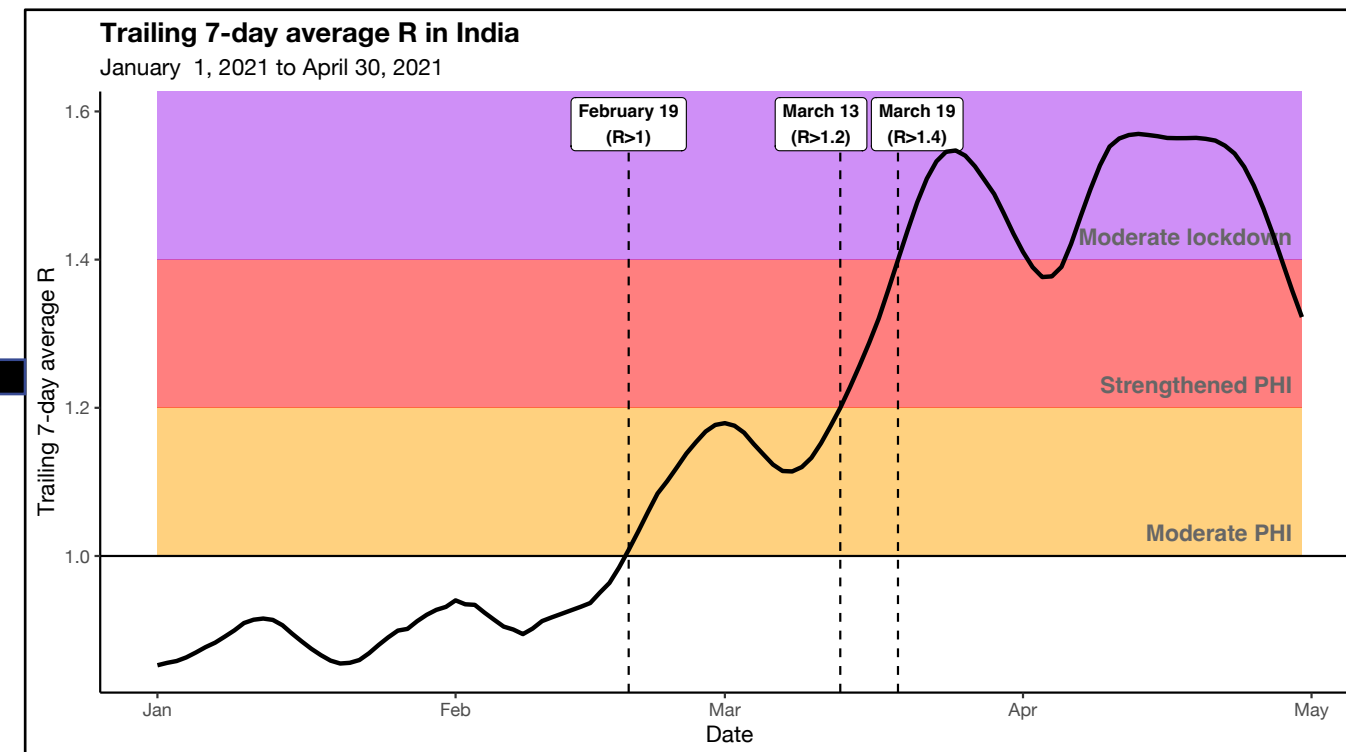
Timely interventions avoid surges

Predicted number of daily COVID-19 cases under various interventions
January 1, 2021 to June 30, 2021

February 19
Moderate PHI
(non-lockdown)
R(t)>1

March 13
Strengthened PHI
(non-lockdown)
R(t)>1.2

March 19
Moderate
lockdown
R(t)>1.4

March 30
Moderate
lockdown

April 15
Moderate
lockdown

414,280 cases

195,441 cases

48,374 cases

24,289 cases

11,500 cases

18,239 cases

Observed data

Notes: Observations and prediction period until June 30, 2021. Figures in boxes show peak number of cases for each intervention. Assumes starting $R_0=2$.
"R(t)" in annotations represents trailing 7-day average effective reproduction number threshold.
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