



SCARSIN - PANDEMIC FORECASTING

Presented to
YORK REGIONAL COUNCIL

Presented by

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Why we are here?

- Compartmental model to understand the likely course of the pandemic over time
- Inform public health response to the pandemic
- Understand the current case, hospitalization, and deaths forecast

Modelling assumptions were updated to best reflect reality



Historical Doses Administered

- Immunization Planning provide weekly updates

Vaccine Efficacy

- First dose vaccine efficacy reduced to 66% for all vaccines

Community Measures

- Decreases in mask compliance & social distancing over summer months

Anticipated Supply

- Updated estimates based on Vaccine Ops & provincial data
- **Accelerated second doses due to Delta variant hotspot**

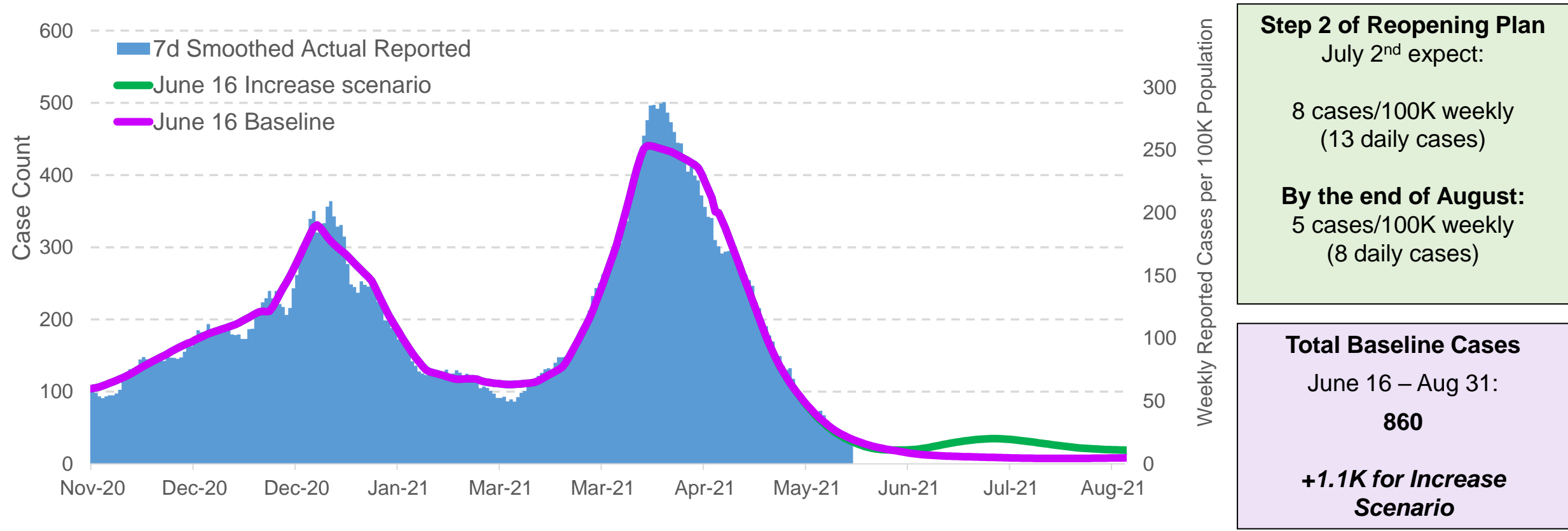
VOC Growth

- Delta growth to 40% by end of June
- Growing to 97% by end of August
- 55% more transmissible (vs. Alpha)

Schools

- Online learning 'til June 30

Cases remain low despite Delta growth and reduced first dose vaccine efficacy

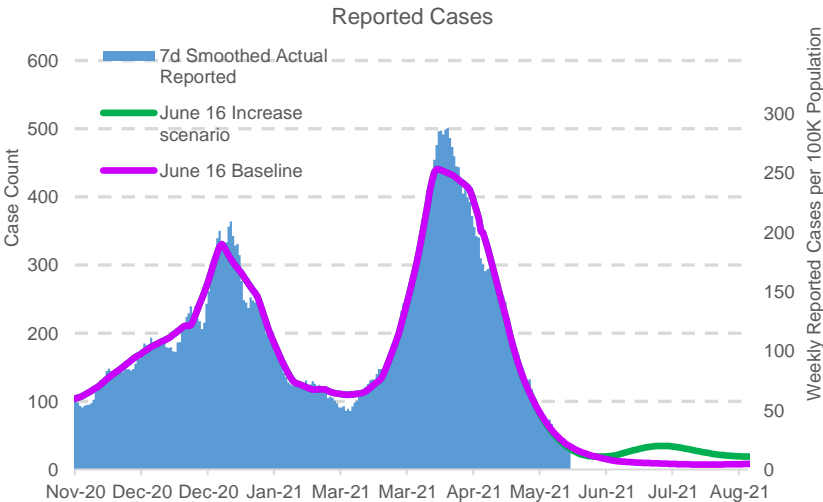


Differences in Scarsin and Provincial modelling are due to underlying assumptions

Scarsin York Region Model

Powered by Local Data, Local Factors

- Using YR-specific data
- Helps us understand our response to interventions
- Able to incorporate local policies, interventions, mobility patterns

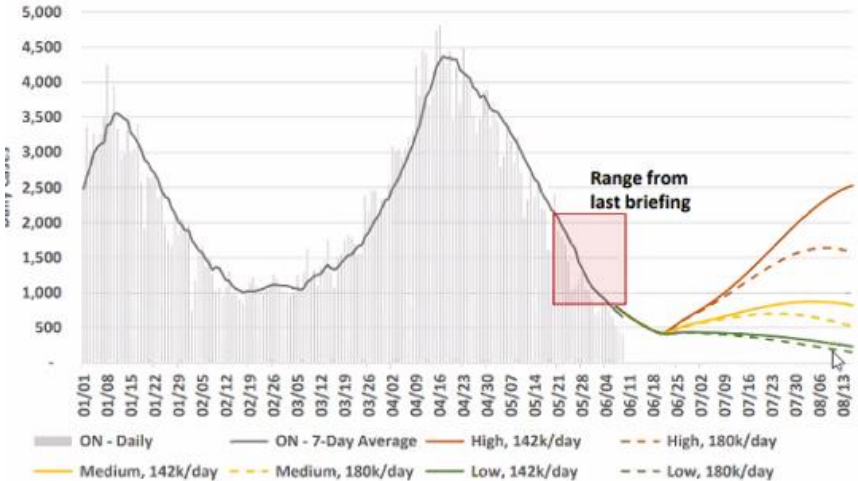


Forecasts

Provincial Model(s)

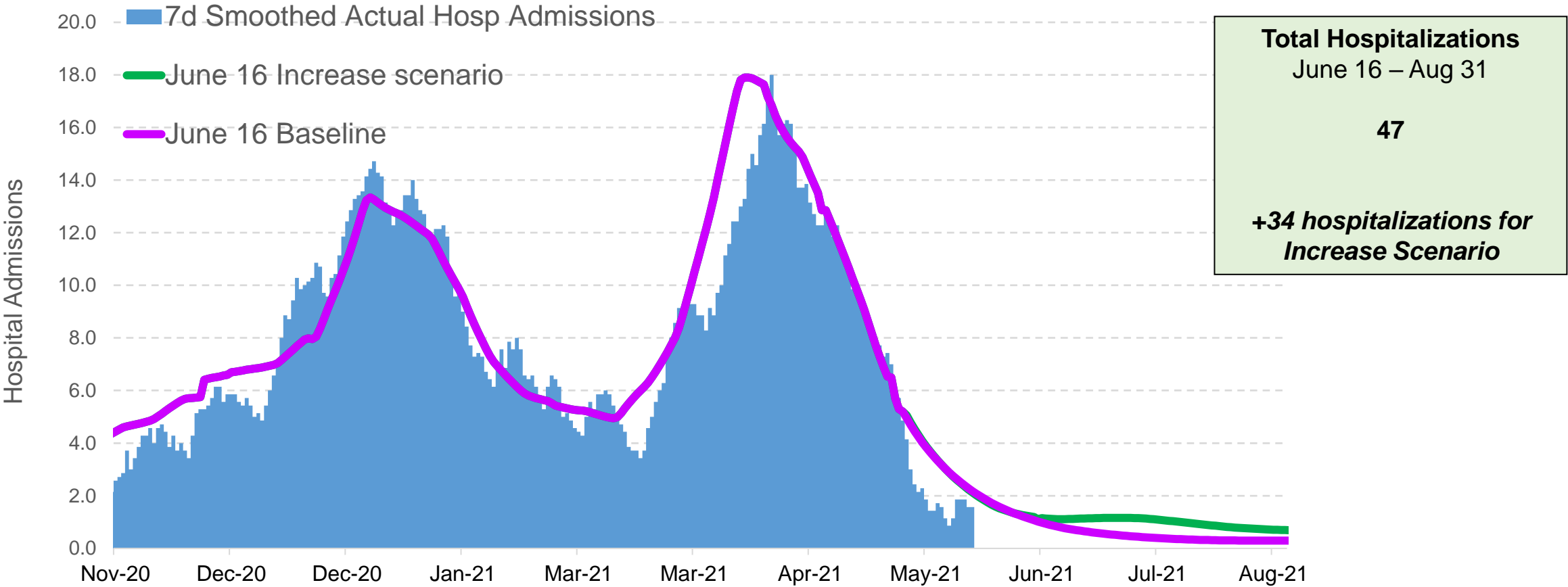
Powered by Provincial Data

- Provincial data provides for province-wide forecast
- Made up of a consensus of models that may not capture unique PHU dynamics

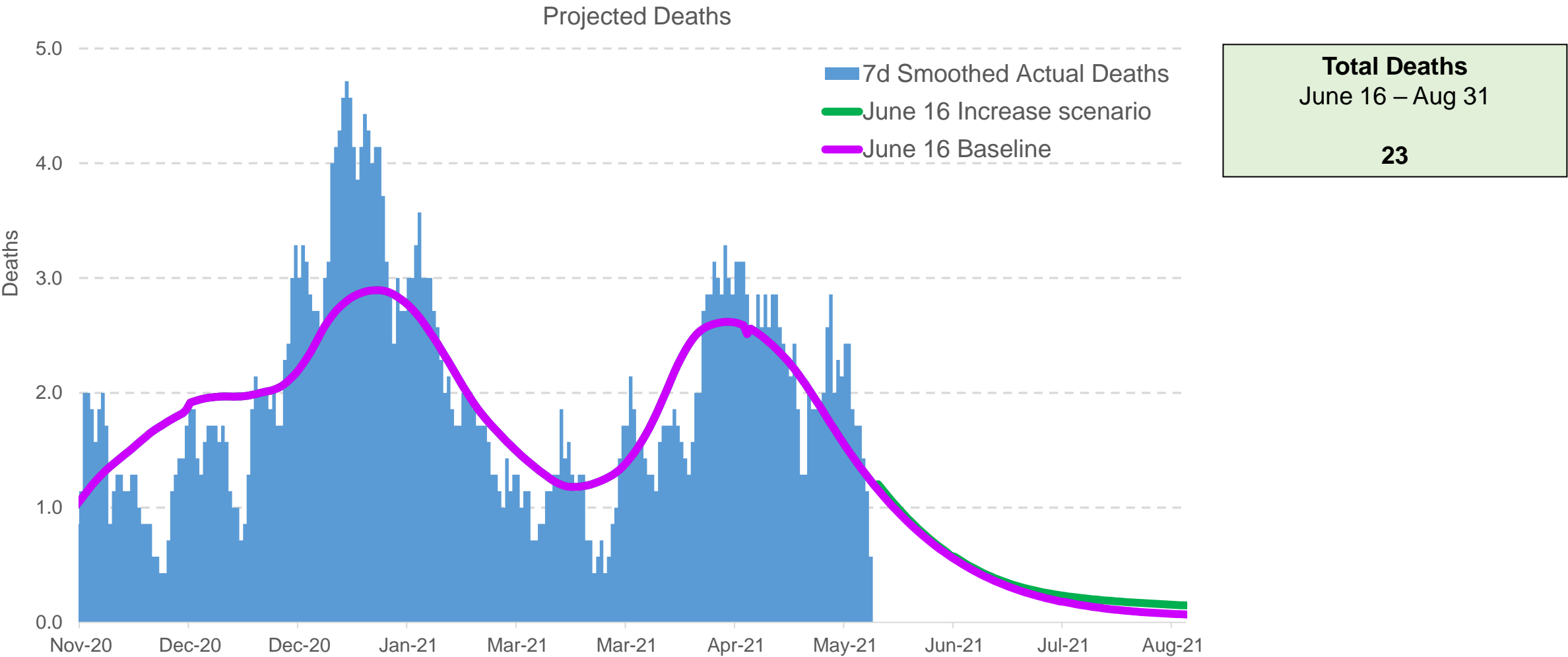


Predictions informed by modeling from Fields Institute, McMasterU, PHO, YorkU
Data (Observed Cases): covid-19 ontario.ca

Very small number of hospitalizations expected to persist over the summer months



Very small number of deaths expected to persist over the summer months



DISCUSSION/QUESTIONS