

COVID-19 potential scenarios

April 7, 2020

COVID-19

PRESENTATION OF THE SCENARIOS

The Government of Québec is making public various COVID-19 scenarios that include the potential number of infections, regular hospitalization, intensive care hospitalization and mortality. The point of making this information public is to enable the Government of Québec to make the population aware of the potential effects of COVID-19 propagation within the community, as well as the importance of following confinement instructions and physical distancing recommendations.

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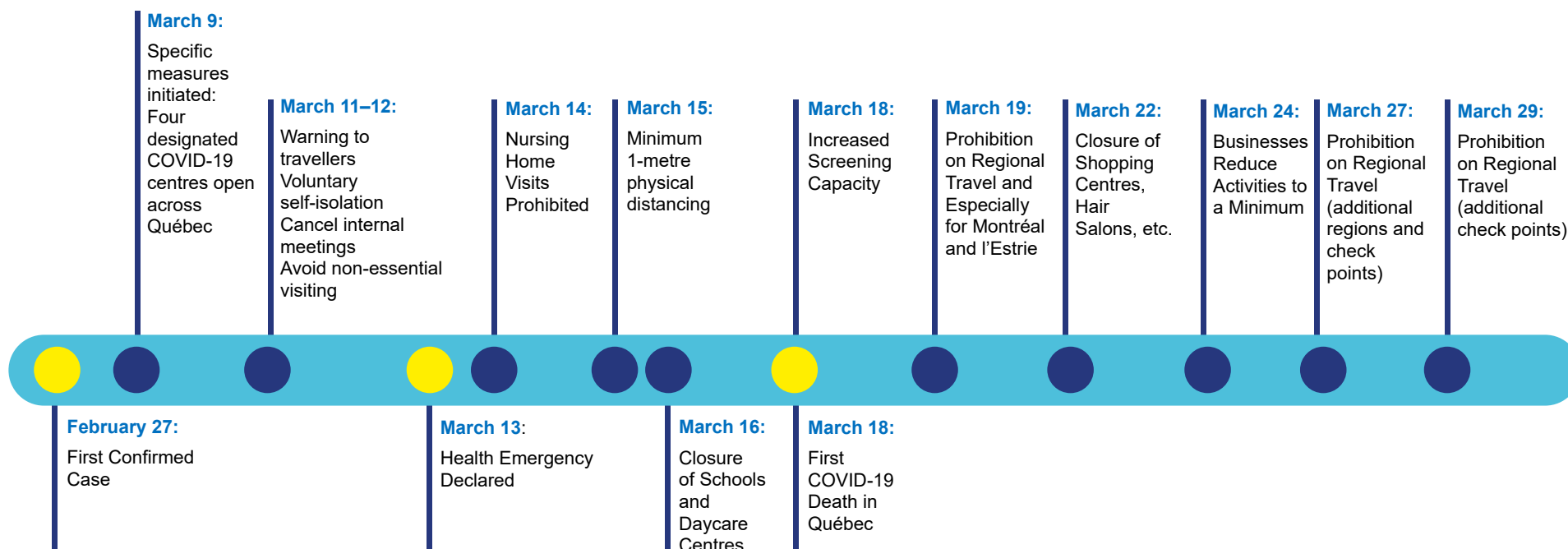
The key features of the various scenarios are as follows:

- The curves shown in the graphics are based on empirical data from various European countries.
- For each country, day 0 starts when 10 COVID-19 cases were diagnosed. That date was March 12, 2020, for Québec.
- The pessimistic scenarios for estimated cumulative numbers of positive confirmed COVID-19 cases, active hospitalization, intensive care hospitalization and mortality were determined on the basis of the speed of propagation of cases in Italy, where the propagation of the virus was very fast and the number of deaths, significant.
- The optimistic scenarios concern the cumulative number of confirmed COVID-19 cases, the estimated number of active hospitalizations and intensive care hospitalizations on the basis of the rate of increase in cases observed in Portugal, country characterized by a slower propagation of the virus.
- The optimistic scenario for the estimated number of deaths was based on the rate of growth in Germany, where the mortality rate was low.
- According to the scientific experts who were consulted, Québec is likely to experience a plateau around April 18, followed by a decline based on an estimated rate of diagnosis. The estimate is preliminary and is likely to be revisited as new information becomes available.
- The number of regular and intensive care hospitalizations stems from various hypotheses and is based on estimates of the number of cases.

Learn more about how the Government of Québec is doing everything humanly possible to protect citizens from COVID-19 at [Québec.ca/coronavirus](https://quebec.ca/coronavirus).

Action Timeline

February 27–March 29, 2020

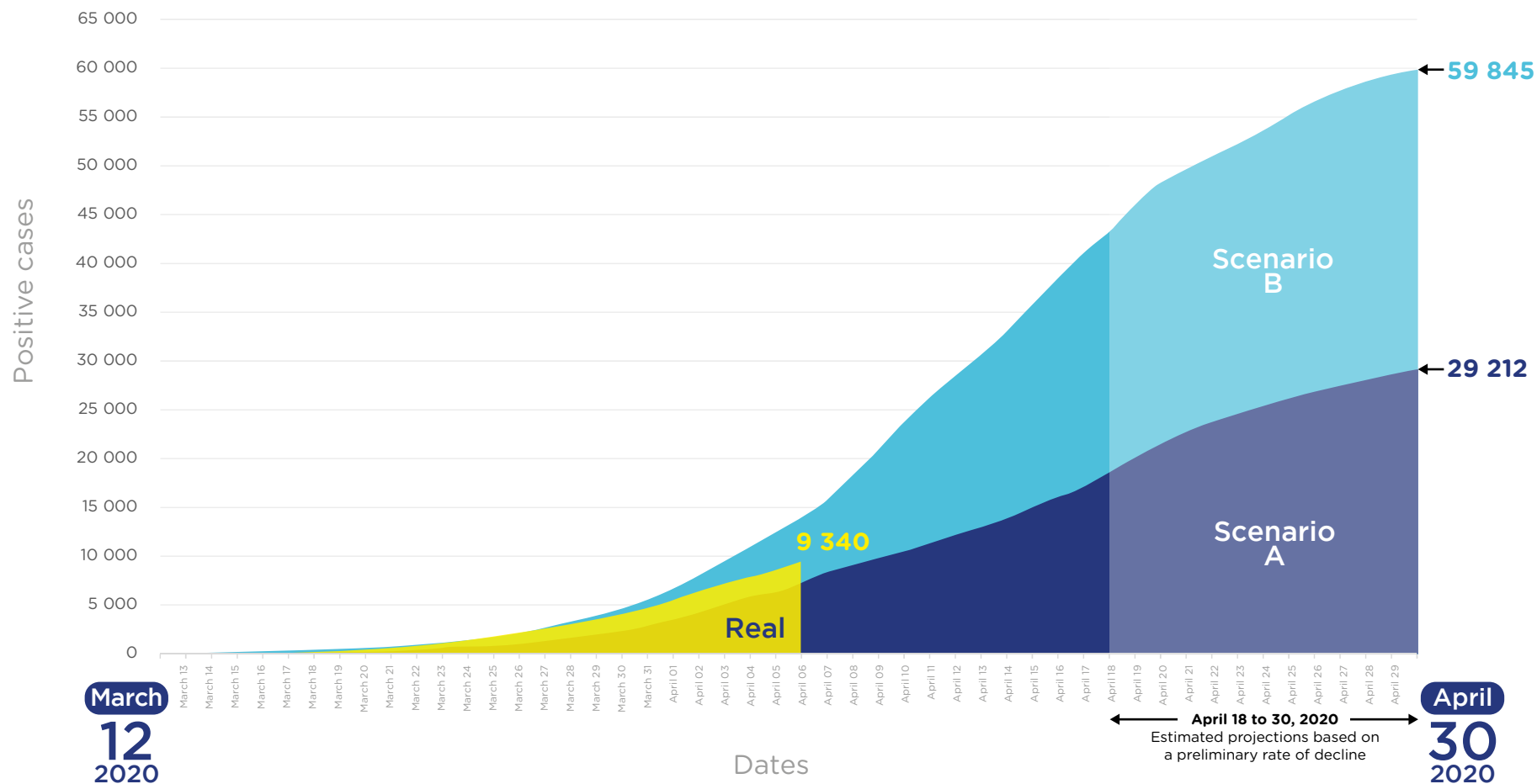


Estimated evolution of the cumulative number of confirmed

COVID-19 cases in Québec

April 7 scenarios

- Scenario A (optimistic - Portugal)
- Scenario B (pessimistic - Italy)

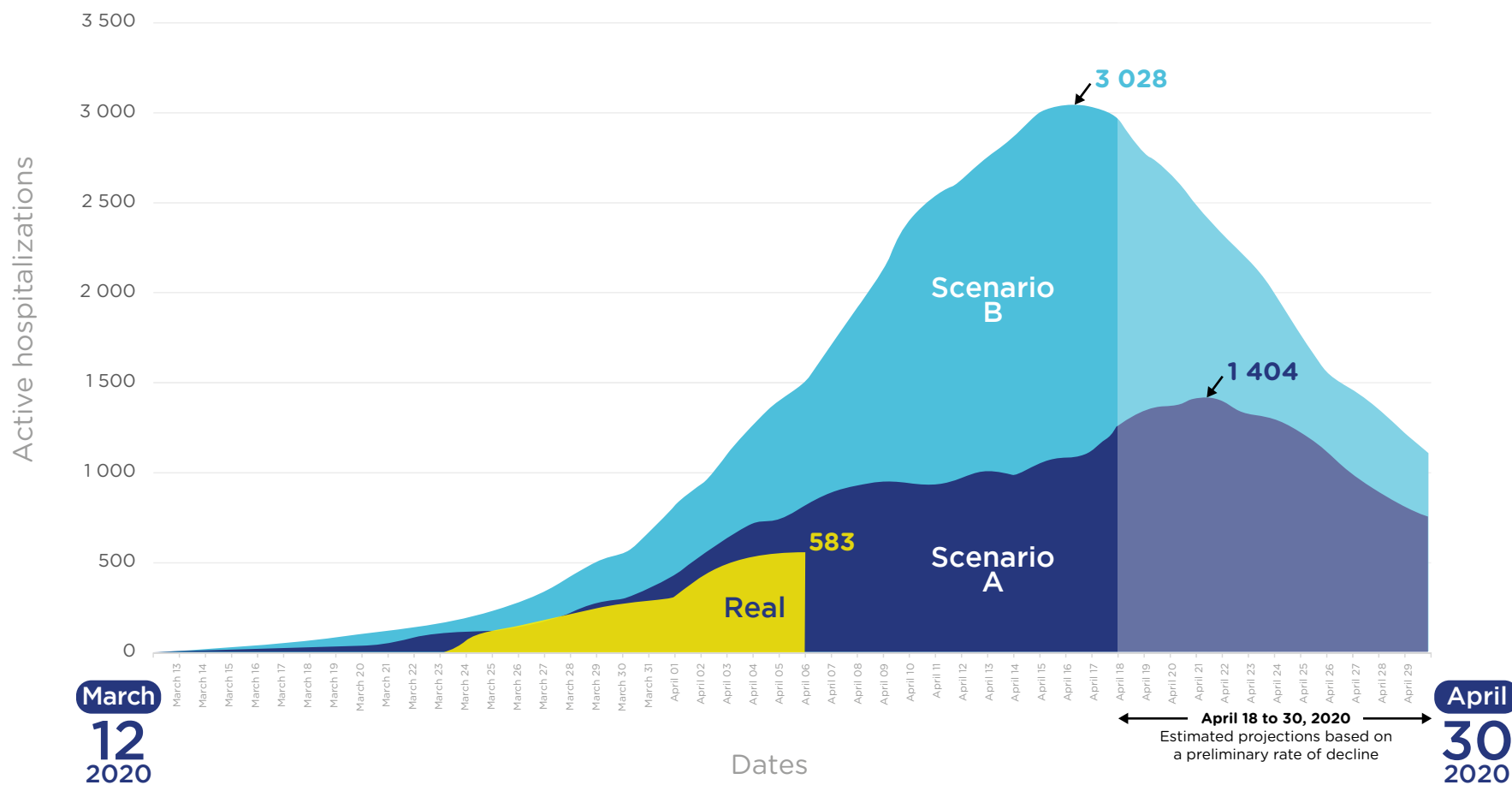


Estimated evolution of the number of active hospitalizations

of confirmed COVID-19 cases in Québec

April 7 scenarios (15% of hospitalized cases and 8-day average stay)

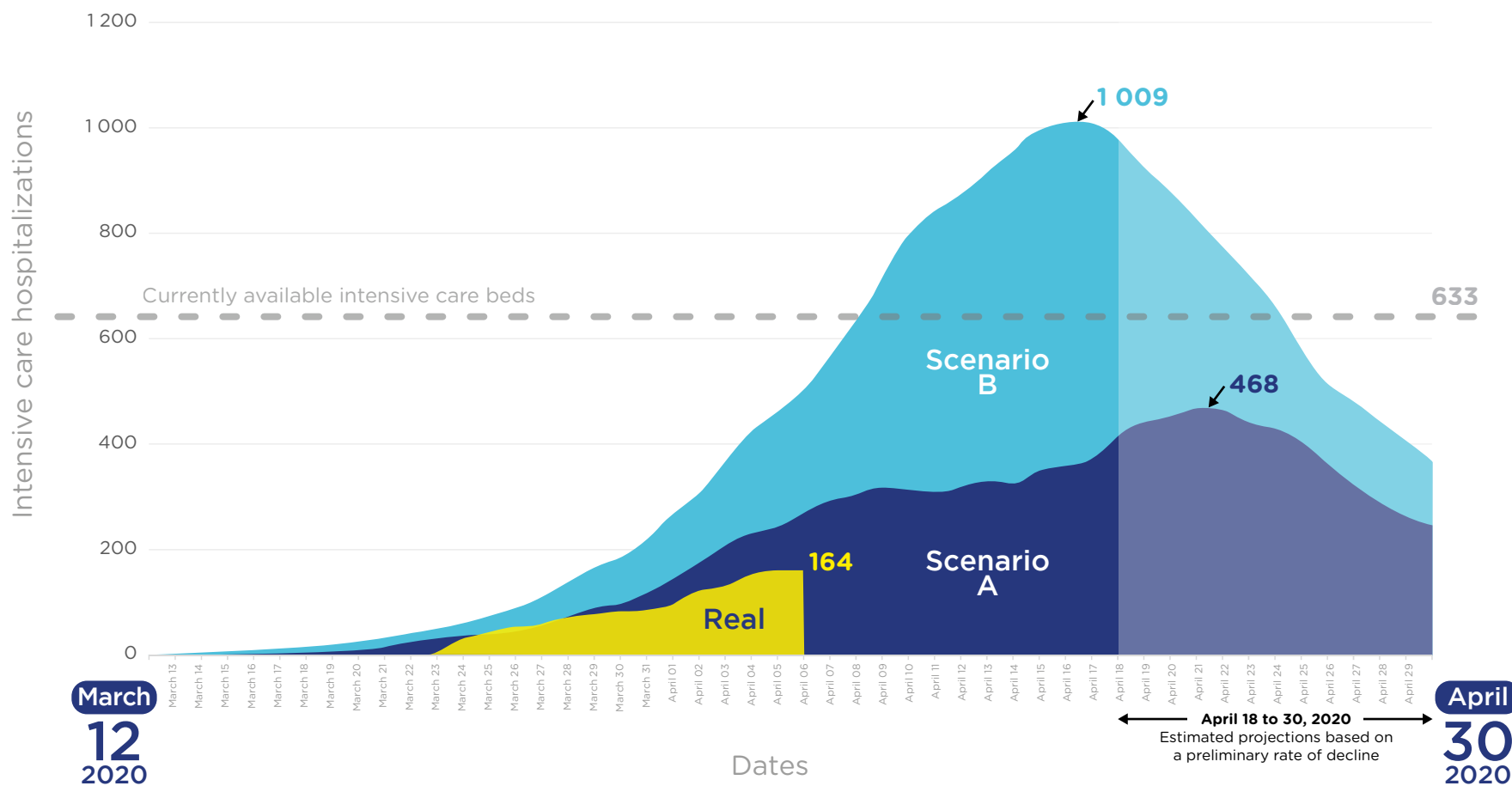
- Scenario A (optimistic - Portugal)
- Scenario B (pessimistic - Italy)



Estimated evolution of the cumulative number of confirmed COVID-19 cases in intensive care in Québec

April 7 scenarios (5% of hospitalized cases and 8-day average stay)

- Scenario A (optimistic - Portugal)
- Scenario B (pessimistic - Italy)



Evolution of the estimated **cumulative number of deaths**

from COVID-19 in Québec

April 7 scenarios

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- Scenario A (optimistic – Germany)
- Scenario B (pessimistic – Italy)

