Model 1: Predictive Mathematical Modeling (Dr. Juan B. Gutiérrez and team)

- **Current conditions:**
  - 3,600 total cases
  - Peak by the third week of April: 700 active cases

- **20% increase in mobility from now:**
  - 8,500 total cases
  - Peak in mid-May: 1,500 active cases

- **50% increase in mobility from now:**
  - 300,000 total cases
  - Peak in mid-June: 48,000 active cases

- **Return to normal:**
  - 920,000 total cases
  - Peak one month after lifting restrictions: 380,000 active cases.

**NOTE:** This modeling scenario uses 4/15 as the day to eliminate mobility restrictions. This model accounts for the SA Emergency Declaration.

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Model 2: AI Theoretical Model of Scenarios (Dr. Dhireesha Kudithipudi and team)

- **Current mobility:**
  - 1989 (as of May) / 29818 total cases (as of late August)
  - Slow Peak by Mid-May

- **20% mobility** (20% population returning to normal mobility):
  - 168,804 total cases
  - Peak in July: 26,171 active cases

- **50% mobility** (50% population returning to normal mobility):
  - 641,000 total cases
  - Peak in mid-June: 85,911 active cases

- **Return to normal mobility:**
  - 850,608 total cases
  - Peak one month after lifting restrictions: 190,804 active cases.

**Note:** ~10-day latency between becoming infected / positive confirmation (due to incubation period / testing latency) are accounted in the model. Mobility data is real-time location data for Bexar County and is updated weekly. An incubation period of ~5 days is considered in our model. Effective social distancing measure: 03/20. Actual cases are expected to be ~50% higher than reported, due to testing shortages (avg. scenario).
Oliver Wyman (national corporation) [https://healthmap.us-west-2.owlabs.io/graph](https://healthmap.us-west-2.owlabs.io/graph)
Total Cases: 1,700 (through May)
Peak: Late April

UW-IHME (only projects for state of Texas) [https://covid19.healthdata.org/united-states-of-america/texas](https://covid19.healthdata.org/united-states-of-america/texas)
Total Cases: not estimated
Peak (as measured by peak resource use): late April