

# epiworld-forecasts

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## Automatic Disease Forecasting with epiworldR

Andrew Pulsipher | 10.02.2025 | <https://github.com/EpiForeSITE/epiworld-forecasts>



# Forecast Steps

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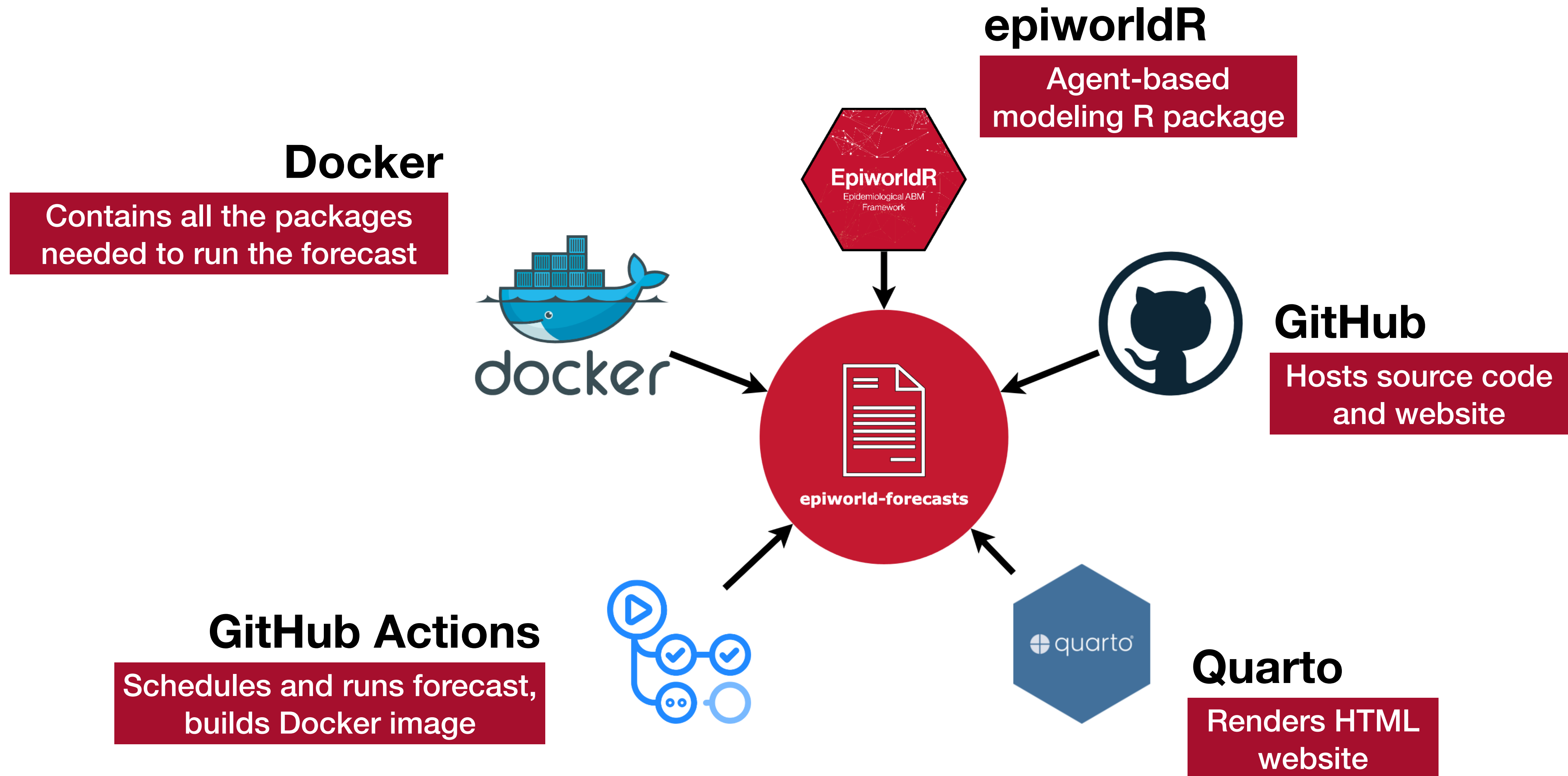
**Automate!**

1. Gather data
2. Calibrate a model
3. Make a forecast
4. Create a report
5. Publish the report



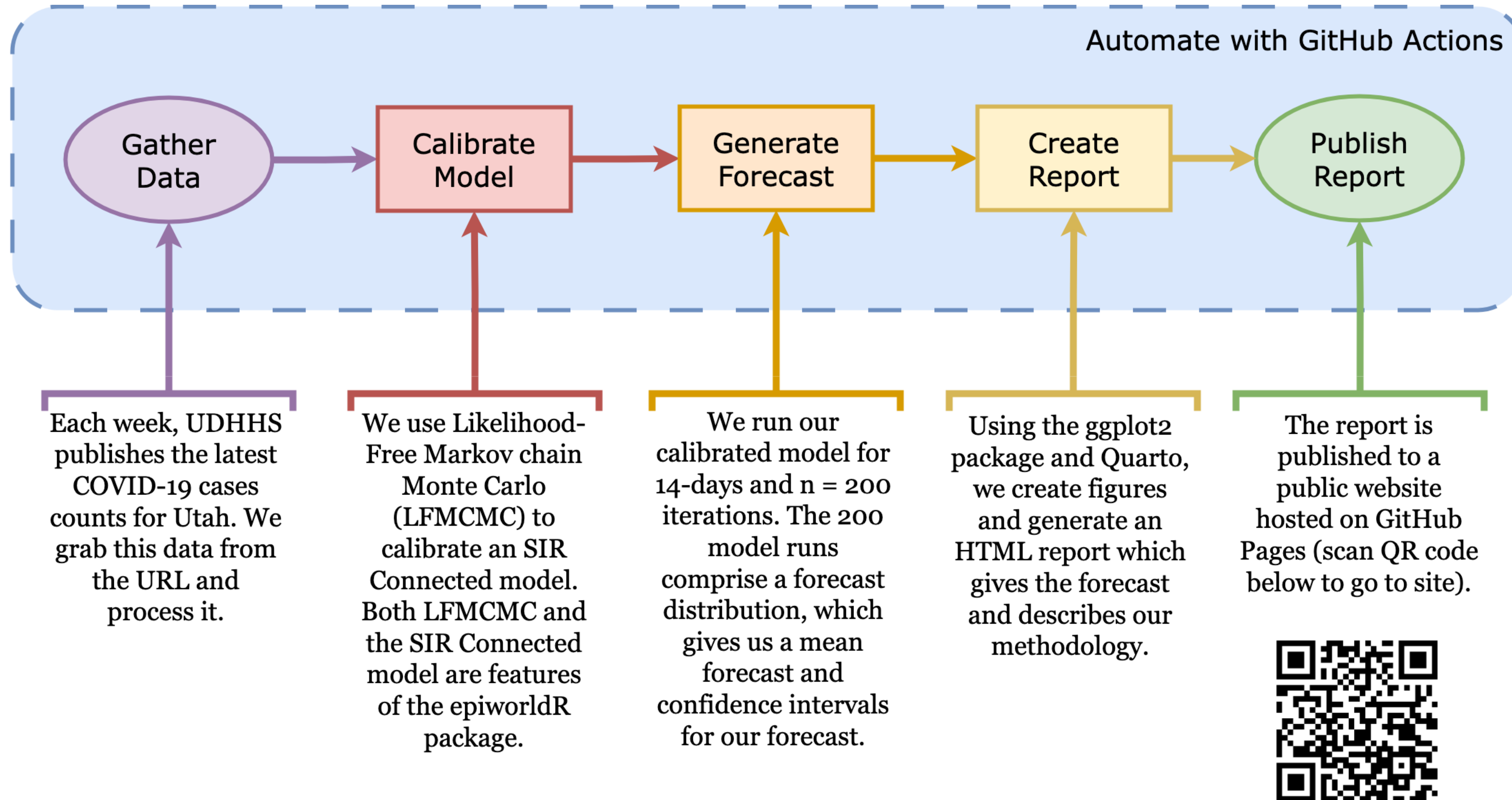


# Technologies



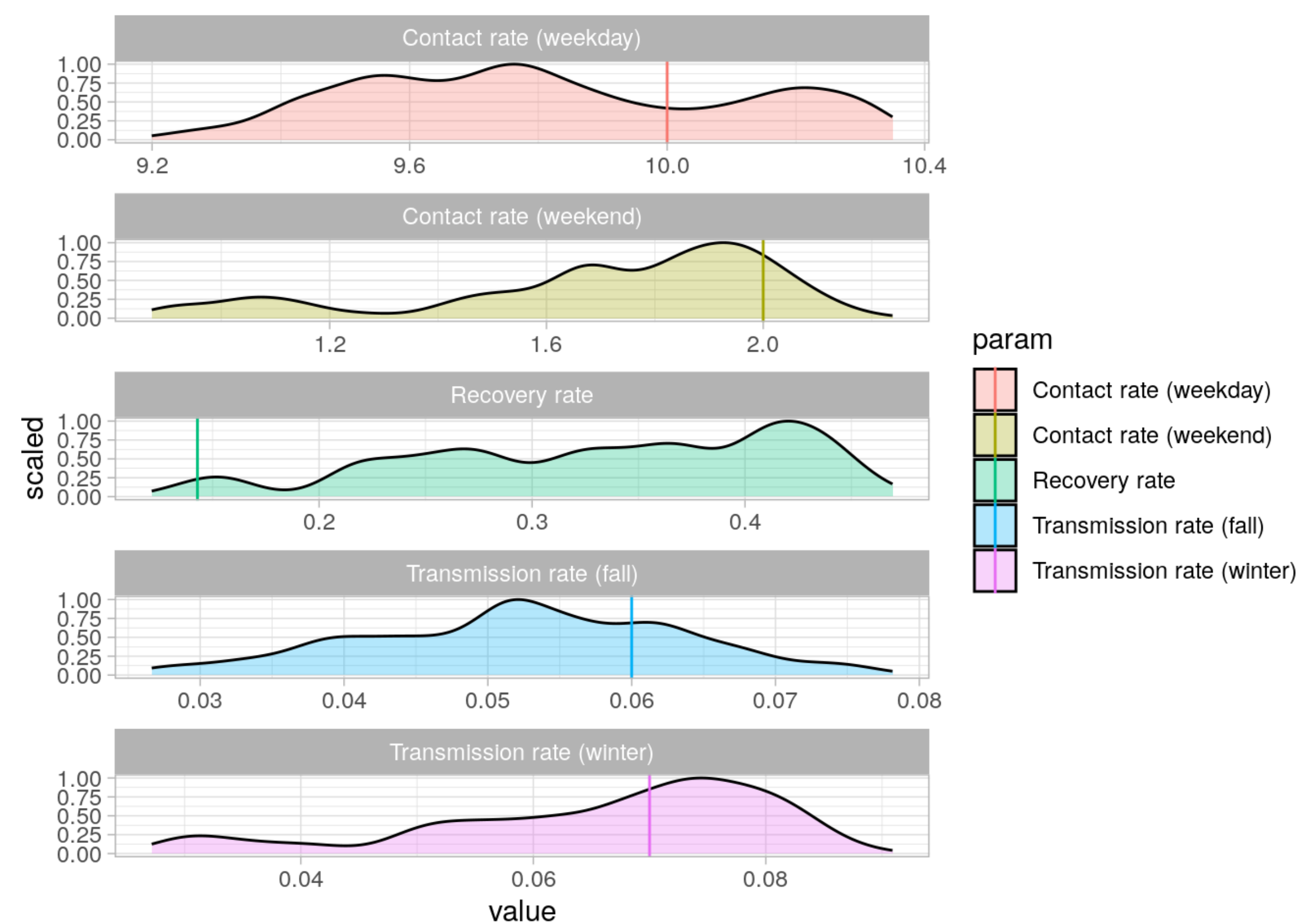
# Example Forecast

## COVID-19 Cases in Utah for the Next 14-Days

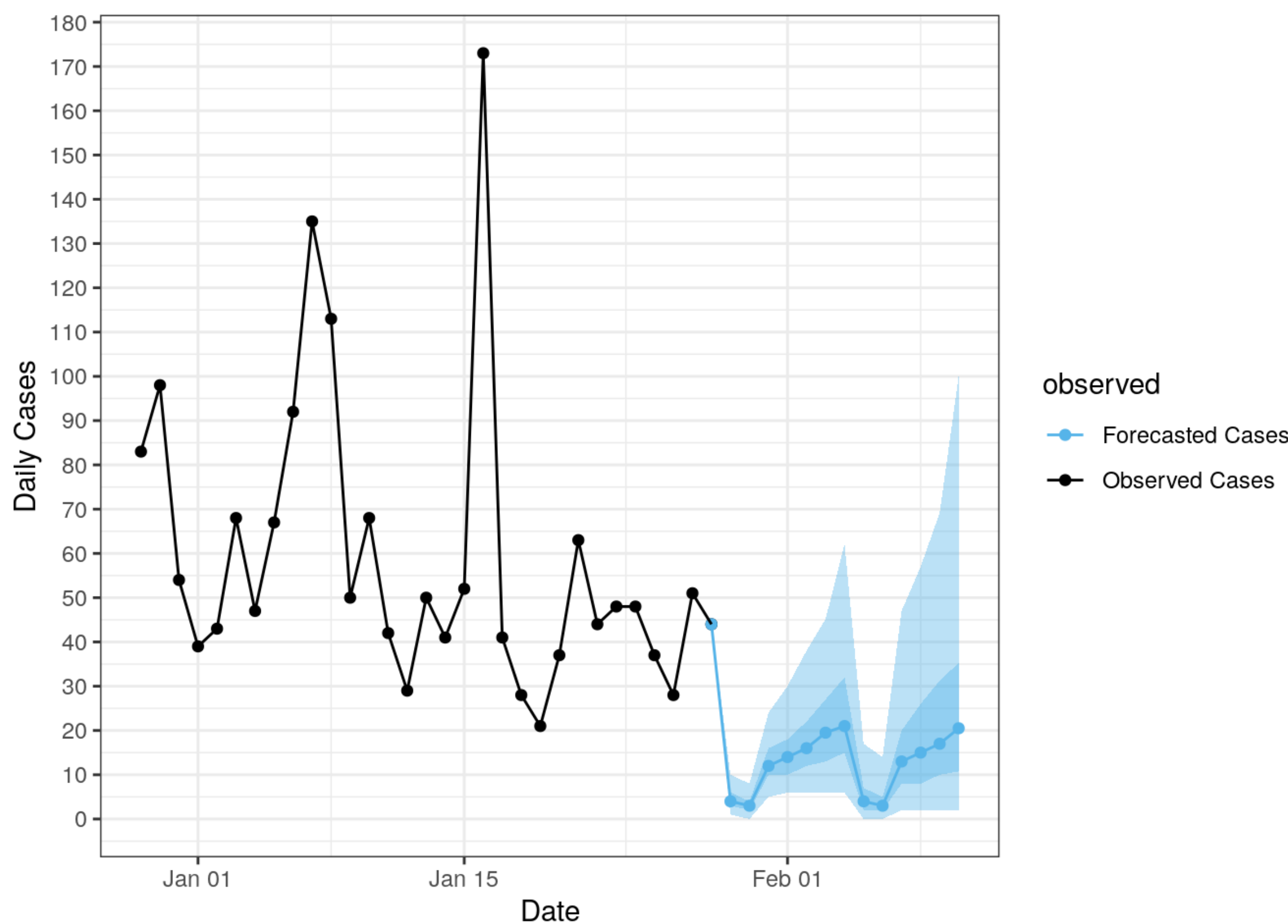


# Example Figures

## Model Params Post. Distribution



## Final Forecast



# Adapting epiworld-forecasts to Your Needs

## A Story in Four Files

### Forecast

#### `forecast.R`

- Libraries
- Gather Data
- Process Data
- Model Definition
- Model Calibration
- Run Model Calibration
- Run Forecast
- Forecast Visualizations

#### `index.qmd`

- Report text
- Calls code from “forecast.R”
- Renders as HTML webpage

### Automation

#### `run-forecast.yml`

- Defines GitHub Action workflow (schedule, publishing destination, etc.)

#### `Dockerfile`

- Defines Docker image for running the forecast

# Get In Touch

- Andrew Pulsipher (email: [a.pulsipher@utah.edu](mailto:a.pulsipher@utah.edu))
- GitHub Repo: <https://github.com/EpiForeSITE/epiworld-forecasts>