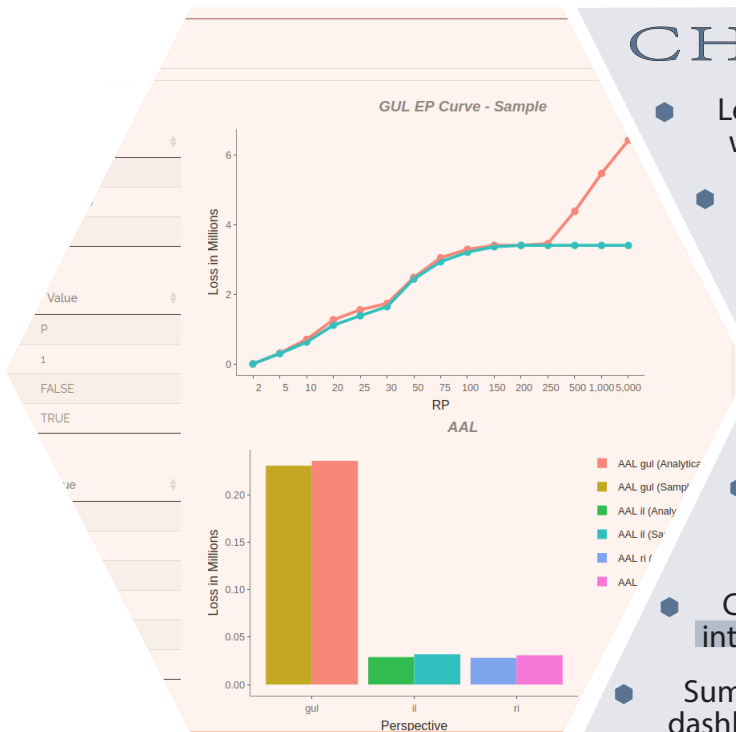


## R/Shiny web-application for Oasis Loss Modeling Framework

The Oasis UI is the front-end of the [Oasis LMF](#) platform. The web-browser application allows users to upload exposure data with locations, financial accounts information and reinsurance coverage. They can select and run a variety of NatCat models and visualize exposure and risks through maps, graphs and numbers.



## CHALLENGES

- Lean and performant reactive feature-rich web-application with reduced / hidden complexity
- Generic design and workflow that allow flexible extension in a simple way
- Visualize and export large amounts of information in concise, meaningful ways, while providing capabilities to dig deeper

## SOLUTION

- Implementation with Shiny modules, custom CSS and minimal amount of Javascript. Integration with back-end through API and data-hub layer
- Clear, simple path for standard use-case. User-friendly interactive data exploration and model configuration
- Summarize exposures and risks through plots and maps, dashboard for ad-hoc graphs

## BENEFITS

- Useful for multiple use-cases and audiences:
  - government officials
  - model developers
  - industry professionals
  - researchers
- Highly flexible & responsive to multiple model representations
- Intuitive vocabulary and workflow; open data standards
- Free & open-source technology, leveraging R / Shiny and the community behind, allowing custom extensions and further development

An open-source bridge project between the industry, governmental and academic worlds.



"The application is developed using modern and automated processes. The look and feel are very intuitive and the data interoperates with great visualization toolkits. There are a lot of surrounding initiatives going on. Long story short: it's a great project and a lot of fun!"

