Cambridge Centre for Risk Studies
Advisory Board Research Showcase – 23 January 2018

An Integrated Platform for Risk Research
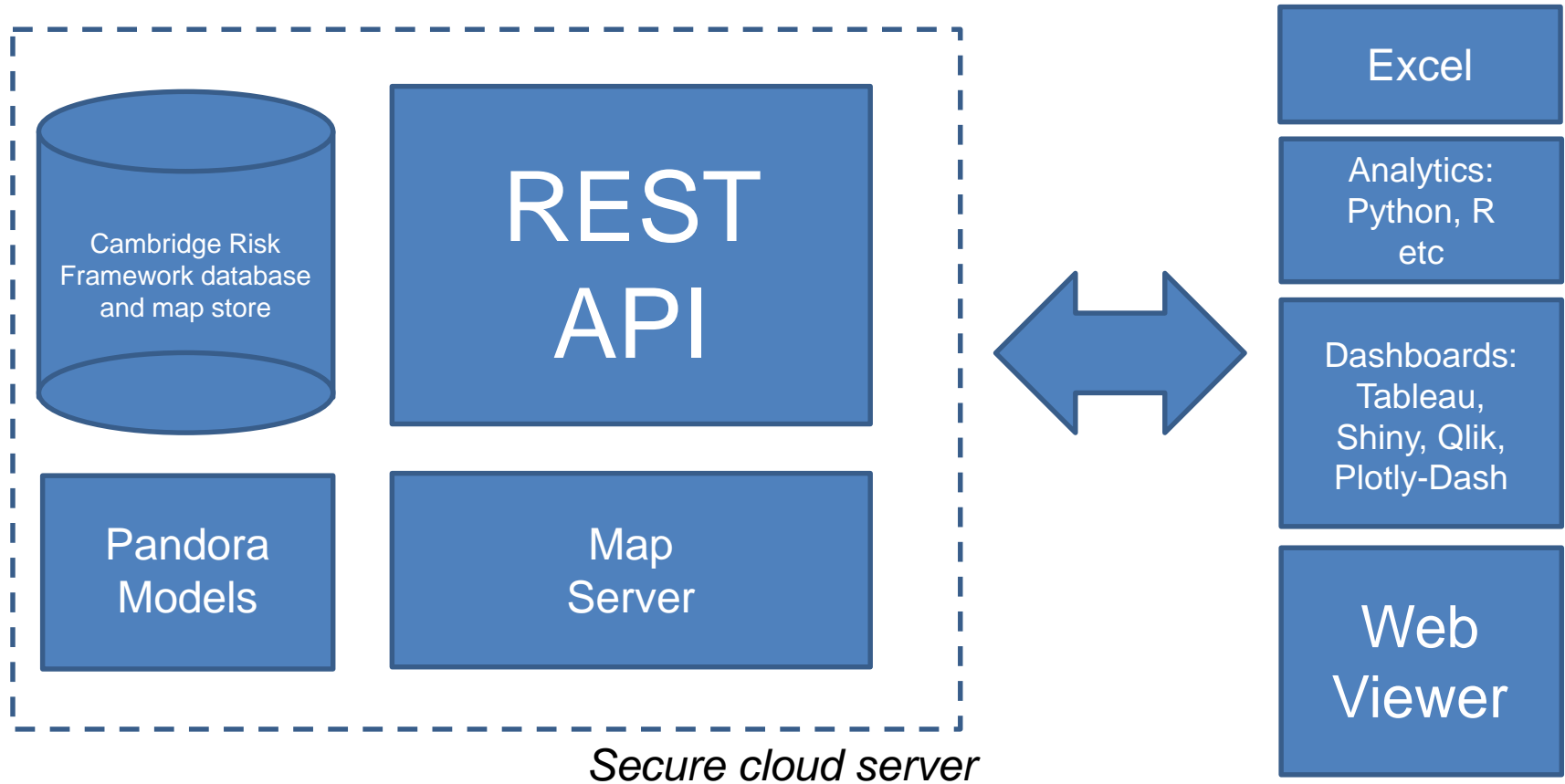
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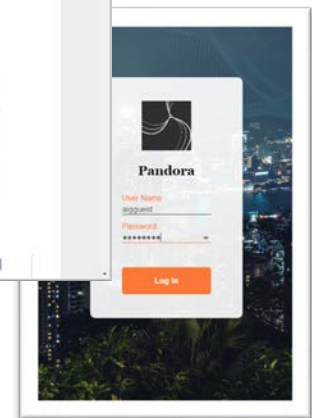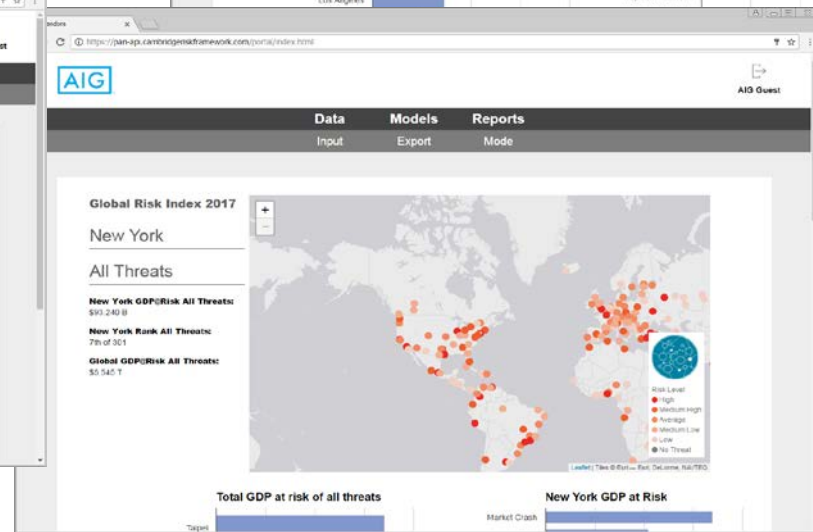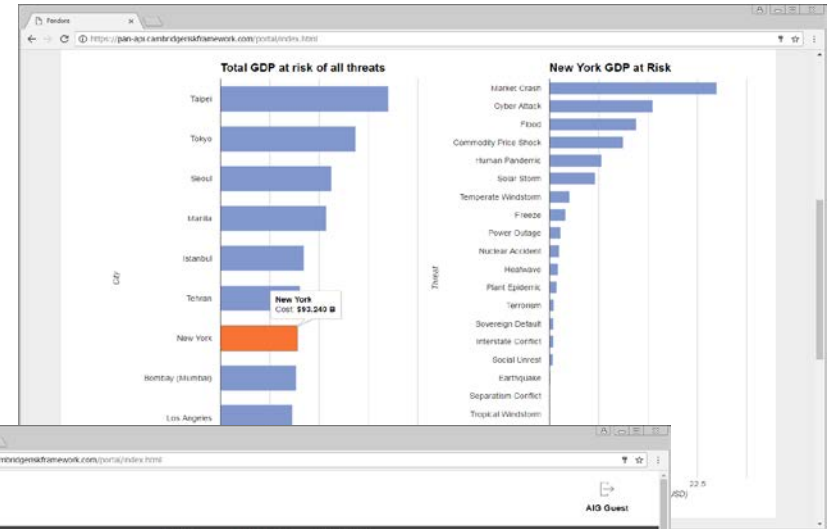Judge Business School

Simon Ruffle
Research Assistant
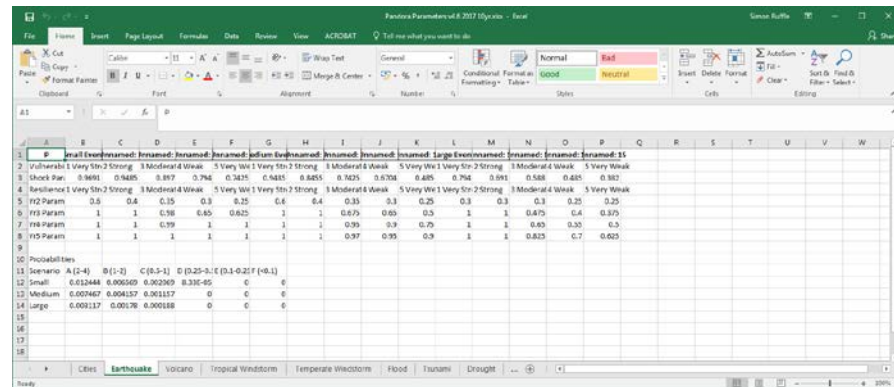Cambridge Centre for Risk Studies

Cambridge Risk Framework

Web Viewer

- Upload a schedule of locations with revenues
- Run a model
- View results in a dashboard
- Download results to Excel
- Share dashboard with colleagues

Methodological Advances 2017

- ## New simplified Parameter Spreadsheet
  - No more secondary threats
- ## New V5 Model
  - City boundary definitions and GDP estimates from Oxford Economics
  - Derivation of resilience metrics using the InfoRM Index for Risk Management.
- ## Team uses various development environments:
  - Spyder
  - Plotly-Dash
  - Web viewer
  - Excel

API Progress 2017

- Uploads new Parameter Spreadsheet
- Model version management
- Pandora partners can manage their own users
- Hybrid of SQL and No-SQL database architecture
- Improved and faster range of results endpoints
- Lloyd's 2018 City Risk Index receiving data from REST API
- Improved documentation

Cambridge Risk Framework 2018

- **Global Risk Index**
  - Support for City Risk Index 2018 Launch in April
  - Preparation for 2019
- **Support for Data Provenance**
- **Pandora Methodological Advances**
  - Cyber Sub threats for loss processes
    - Data Exfiltration
    - DDOS
    - Contagious Malware
    - Cloud Outage
  - Resilience case studies
- **Use Case Development themes**
  - Insurance Purchasing Framework
  - Corporate Risk Profiling
  - Cyber Threat Index
- **New Web User Interfaces**
  - Web viewers 2.x

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