# Interactive Country Analytics

## The client

Dr. Marcus Marktanner and Dr. Luc Noiset, professors from ICAT <http://icat.kennesaw.edu>.

## Client location

KSU, Kennesaw campus.

## Project overview

The project is to advance an interactive web-based tool that allows a user to click on a country to get information about its policy strengths and weaknesses. The user can then simulate policy changes and see how this policy change changes the economic growth trajectory. Results will be presented through visualizations. Data sets will be prepared by the client. A preliminary working prototype web application is at <http://countryanalytics.com>

## Major work and expected outcomes

* Analyze data and simulation rules provided by the client
* Design the best way to present data and simulation results through web based visualization (using a JavaScript visualization library like Google Charts)
* Design and implement a way for periodical data update/import for non-technical users.
* Improve the current prototype

## Type of project (estimation)

* Analysis/Research (20%)
* Development (80%)

## Skills/knowledge involved

Note these are not necessarily required, but are what students will learn and practice in the project.

* Web development, CSS, JavaScript, jQuery, JSON, AJAX, etc.
* Web data visualization API like Google Charts
* Data visualization, dashboard development, user interface design
* Data analysis, query, calculation, particularly in Economics

## Recommended team size

1 team with 4 people

## Desired milestone meeting place (four required for the semester)

[ x ] KSU campus (Marietta or Kennesaw)

[ ] Virtual meeting

## Client contact (project owner)

## Marcus Marktanner: [mmarktan@kennesaw.edu](mailto:mmarktan@kennesaw.edu)

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## Jack Zheng: gzheng@kennesaw.edu

## Reference

* <http://countryanalytics.com>
* <https://developers.google.com/chart/>
* <http://icat.kennesaw.edu>