

## Client

**Global Scientific Community:** Multi-scale Modeling Consortium (MSM)

**U.S. Government:** Interagency Modeling and Analysis Group (IMAG)

## Overview

The MSM Consortium is a group of researchers interested in the activities that move the field of biological computational modeling forward in the predictive models of biology, health and disease, bioenergy and bioremediation, and biomimetics disciplines. The MSM comprises PI's and key investigators involved in multi-scale modeling research projects; IMAG is composed of the government program officers running or representing the programs supporting these projects. The National Institutes of Health (NIH) National Institute of Biomedical Imaging and Bioengineering (NIBIB) is currently hosting the MSM/IMAG site.

## Challenge

In 2014 the NIH Center for Information Technology (CIT) notified NIBIB's Information Security Officer (ISO) that the technology platform hosting the IMAG site (MediaWiki) was no longer considered viable or secure. IMAG had 60 days to bring its site into compliance. IMAG called upon LCG's Web and Application Development Team at NIBIB to propose a technology that would:

- Improve security, accessibility, and scalability;
- Support current functionality and further enhancements of the IMAG site; and
- Accommodate the short turnaround time identified by CIT.

## Solution

After analysis LCG's Web and Application Development Team at NIBIB received approval to migrate the current IMAG wiki site to Drupal open source content management technology hosted by Acquia's Platform as a Service (PaaS) model in the Amazon Web Services (AWS) cloud. This would not only meet the requirements outlined above, it would also:

- Meet the federal government's "cloud first" digital strategy;
- Promote more usage of the site in the research community through social media such as Twitter and RSS; and
- Bring the site into 508 accessibility compliance.

## Result

The Multi-scale Modeling Consortium and the Interagency Modeling and Analysis Group now have a user-friendly website that is supported by Drupal, the world's largest open-source community, secured in the FedRAMP- and FISMA-compliant Acquia PaaS/ AWS cloud.

## Business Value

LCG successfully partnered with NIBIB and a worldwide scientific research community to deliver a secure technology platform that supports content management processes and research collaboration.

