

Client

National Institute of Biomedical Imaging and Bioengineering (NIBIB)

Overview

The National Institute of Biomedical Imaging and Bioengineering (NIBIB) needed to migrate and upgrade its public-facing website from its current ColdFusion platform in order to make it more dynamic, visually appealing, socially interactive, user-friendly, and cost effective. NIBIB contracted with LCG to compare at least three Web Content Management Systems and to choose the system that provided the most value to the Institute. To complete the study, a cross-functional team was assembled with expertise in business analysis, project management, application development, and web design.

Challenge

In order to meet NIBIB's needs, LCG had to:

- Determine NIBIB's long-term web strategies through stakeholder meetings;
- Create a technology roadmap starting with continuity of the existing public website during migration, identification of a platform that met Web 2.0 standards, had interoperability with cloud services, social media integration capabilities, was mobile accessible, and provided a rich user experience;
- Conduct an in-depth analysis of four Web Content Management Systems: Microsoft SharePoint 2010, Drupal 7, Percussion Software CM Enterprise Solution, and Telerik Sitefinity, based on numerous criteria including 5-year TCO, adherence to NIH WCMS brick recommendations, mobile friendliness, ease of usability, content control, visual appeal, infrastructure robustness, statistical analysis capabilities, provider/software critical mass, maturity and sustainability, available cloud offerings, and development framework and tools;
- Examine the options of hosting the website locally versus in the cloud through a vendor Platform as a Service (PaaS); and
- Recommend the Web Content Management System that best met NIBIB's needs.

Solution

After extensive analysis, LCG recommended that NIBIB employ Drupal 7 with vendor Acquia's Platform as a Service as the Web Content Management System for its public website. NIBIB approved LCG's recommendation in June 2012, and the LCG web team created the project management documents and began building the new open source Drupal 7 website in July 2012. All design, functionality, responsive web design, and other technical requirements were completed in March 2013, and the website was launched soon thereafter.

Result

- A clear technology roadmap of NIBIB's web strategy;
- An unbiased, qualitative evaluation of appropriate Web Content Management Systems;
- More up-to-date content, mobile accessibility, and an improved overall user experience; and
- An expanded, flexible, secure technology platform to help fulfill NIBIB's mission.

Business Value

LCG can conduct a customized study that will aid any federal agency in safely and successfully integrating new technologies into existing IT environments.



Once the study is complete, LCG can work with the agency to seamlessly integrate complex computing environments to support scientific research, increase usability, incorporate mobile accessibility, program and reduce support costs.