Invitation to Tender: Drupal 8 Microsite System and Website Migration

The Max Planck Institute for the History of Science in Berlin (MPIWG) invites tenders for the construction and integration of a microsite system in Drupal 8 and the migration of the Institute's existing homepage. This is closely linked to the invitation to tender for revising the website design. Tenders may be submitted for both items together or for one separately.

Current situation

The present website was migrated to Drupal 7 in 2015. In a further step, it will now be rebuilt as a microsite system that can be used for a range of different scholarly and administrative purposes. It must fulfill both the requirements of the web editing team and those of IT-based research projects in the history of science.

Requirements for the microsite system

The contractor will build the foundations for a microsite system with which multiple micro-websites can be implemented on the basis of the same core module. For example, individual websites for events or research projects would be separate, individually tailored Drupal instances. The Institute expects the microsite system to enable 1) individual microsites to be operated and administered as independent websites (with their own subdomains and their own users); 2) the rights and roles of the various microsites to be controlled locally (e.g. granting access to external users, or granting access to particular contents for specific user groups determined by internal criteria); 3) the Institute's corporate design to be managed, expanded, and adjusted centrally; 4) enhanced functionalities to be made available to all Drupal instances (microsites); 5) an overview of all new projects, as all systems are maintained centrally (and not different systems at different locations, as before). This will give the Institute an efficient system in which maintenance costs are kept low because only one operating environment will need to be serviced. Within the Institute, the IT support department will be trained to apply the microsite system and make microsites available on-site; maintenance work will continue be performed off-site by the existing contractor. The Institute also expects increased efficiency in editing for the website, since it will be steered centrally while follow-up work is carried out locally. The microsite system is to be made available in German and English.

Current state of preparations and transferring the features and modules of the project website "Sound & Science"

The Drupal 8-based project website "Sound & Science," currently being developed for the research group "Epistemes of Modern Acoustics," will be the model for the microsites based on historical sources. The modules already created for this website will

be adopted as far as is possible and feasible for the microsite system. Among the site's functions are the following:

- Managing bibliographical data with a bibliography module
  - input forms
  - correct display of citations using CSL styles (http://citationstyles.org/)
  - import of bibliographic data formats
    - Zotero
    - RIS
    - others as required
  - export of bibliographic data formats
    - Zotero
    - RIS
    - others as required
- Managing media data (audio, video, image, text)
  - uploading in Drupal
  - embedding media held on the Institute's media servers
  - embedding external media
  - embedding audio and video players
  - linking media entries with bibliographic metadata
- Constructing additional simple data types
- Tagging entries with the help of taxonomies
- Linking individual entries via Drupal relations
- Embedding short descriptive texts and longer essays in HTML using the digital sources
- Integrating the existing full text search function into the sources via the Institute's Apache Solr server
- Managing rights and roles on the website
- Managing users via the Institute's LDAP server and locally
- Integrating the Institute's Piwik server
- Creating meta tags (SEO)

Further features
As well as those used on the "Sound & Science" website, additional functions will be made available for the microsites:

- Integrating the Institute calendar (CalDAV, OpenXchange)
  - displaying events from selected calendars on the website
  - "add to calendar" links for events on the website
- Managing blogs
- Managing RSS feeds for existing data
- Exporting content as news channels in additional formats (email; PDF; if possible, print); planned format: newsletter for registered users (internal or external)
- Front end for users, for registration and selection of contents
- Integrating the search function into the Library's discovery system (input field only; display of search results is external)
- Integrating images and objects from the Institute's digital library (ECHO/digilib/libcoll)
- Integrating the Geobrowser module

Migration of the Institute website to the new system

The Institute's public website http://www.mpiwg-berlin.mpg.de/is to be migrated from the current tailored Drupal 7-based system to the microsite system.

Special requirements for the migration process:

- The FileMaker-based calendar database of Institute events (http://www.mpiwg-berlin.mpg.de/en/news/events) will be moved to a CalDAV-based solution.
- The FileMaker-based database of preprints will be moved to the Max Planck Society's MPG.PuRe server.
- The existing workflow for creating new users and managing existing users through the Institute's LDAP database (supplemented by additional fields) will be retained.
  - synchronization of LDAP data on the website list of persons and on personal profile pages (incl. name, title, dates, status, institution, project title, phone/email contact)
- A new archive area will be created:
  - migration of completed projects into the archive area
  - migration of completed research stays (alumni) into the archive area (without LDAP links)
  - specialized navigation for archived projects and contents
  - redirection from external links to projects in the archive area

Migration of the Berlin Center for the History of Knowledge website

The website of the Berlin Center for the History of Knowledge http://www.wissensgeschichte-berlin.de/ will also be migrated, from its current system Drupal 6 to the microsite system (Drupal 8).

Migration of the MPIWG Mediathek

The Institute's public Mediathek http://mediathek.mpiwg-berlin.mpg.de/will also be migrated from the current Drupal 7-based system to the microsite system.

- Images, videos, audio/podcasts (Adobe Flash Player, iFrame, etc.)

Improved layout and interaction design

The graphic design of the microsite system and the update of the Institute website will be commissioned separately. The contractor supplying the microsite system must coordinate the implementation of the design in Drupal themes with the contractor supplying the design. Tasks will include:

- Revising the navigation and layout of the Institute website
- Creating a customizable basic layout for the microsites
- Ensuring accessibility (WCAG 2.0)
- Responsive design
  - display on mobile devices must be possible
  - future customizations and specific contents for mobile devices should be possible

Technical details

- Development based on Drupal version 8
- Target environment: Linux (Ubuntu), PostgreSQL database preferred