GEMS – Government Electronic Management System

• GEMS is a complex, all-encompassing legislative system. A multi-tier J2EE application made up of components such as; Swing, JavaServer Faces, and Enterprise JavaBeans (EJB) modules.

• GEMS is developed with a rich set of technologies, including Java, J2EE, JDBC, JSF, JavaScript, Servlets, JavaBeans, EJB, Log4J, ANT, XML, Oracle SQL and PL/SQL.

• GEMS is deployed on Oracle WebLogic Server and utilizes Oracle 12c relational database. Data stored in the database is comprised of both relational data and XML document data.

• GEMS interfaces with a customized, PTC Arbortext XML Editor, Arbortext Publishing Engine (PE) and Oracle database. XSL, XSLT and FOSI style sheets are used in conjunction with the customized Arbortext products for editing and presentation of the XML documents.

• Components in GEMS are largely made up of canned language and templates for building the XML documents and relational data. By using templates, order of business, and bill actions GEMS organizes the legislation and puts it into the correct order of business for the creation of agenda’s, calendars, journals, reports / receipts, amendments, and engrossments etc..

• Approximately 90% of the content that resides on the Idaho Legislature’s website gets published from GEMS.
All menu items are controlled by a “Security” component within GEMS. Menu items are assigned by department, division, and user. Users can have one or multiple components and one or more menu items within the selected component can be assigned to an individual user.
Bill Drafting - Bill Drafters & Budget Analysts, Legislative Services Office (LSO)

The Bill Drafting component is used for the creation and editing of draft legislation that has been requested by or with the approval of a legislator. The Bill Drafters and Budget Analysts not only use this component to create the necessary XML draft legislation documents, and their data entry actions completed in this component provide logging and tracking information for other components within the GEMS system. The system also alerts the drafters when or if a statute is in another piece of legislation.
• **Customized Arbortext XML Editor**

After a draft has been assembled (from previous screen), the document is opened for editing in the XML Editor. Analysts have options to continue to assemble / add statutes while in the XML editor without having to exit and go back to the GEMS front-end assemble screen.
**Tracking — Editorial Review, Legislative Services Office (LSO)**

The Tracking component is used for tracking a piece of legislation through the editorial review process used when creating a bill. A routing slip (RS) number is assigned to the draft legislation. The editor then converts the draft XML to a RS XML document, and may apply editorial adjustments. The legislation is then compared to statute, proofread, and spell checked before being delivered to the requesting legislator and librarian for indexing by subject and topic. This component will track the movement of the draft legislation through each phase of the editorial review process enabling application consumers to always be able to identify where in this process a piece of draft and RS’ed legislation resides.
• **House / Senate** - Chief Clerk of the House and Secretary of Senate

The House / Senate components is used for controlling the chamber display board, bill setup (for bill introduction), creating and editing floor agendas (scripts), floor calendars, journals, emailing, web publishing, reports / receipts, tracks docket / bill actions and several other components. By using templates, order of business, and bill actions GEMS organizes the legislation and puts it into the correct order of business. The staff not only use this component to create the necessary XML documents but the entry they do in this component provides logging and tracking information for other components within the GEMS system, enabling application consumers to always be able to identify where in this process a piece of legislation resides.
- **Senate / House** - Secretary of Senate and Chief Clerk of the House

The Senate and House components are used for controlling the chamber display boards, bill setup (for bill introduction), creating and editing floor agendas (scripts), calendars, journals, emailing, web publishing, reports / receipts, tracks docket / bill actions and several other components. By using templates, order of business, and bill actions GEMS organizes the legislation and puts it into the correct order of business. The staff not only use this component to create the necessary XML documents but the entry they do in this component provides logging and tracking information for other components within the GEMS system, enabling application consumers to always be able to identify where in this process a piece of legislation resides.
**Senate and House Committees** – Senate / House Committee Secretaries

The Senate & House Committee component is used for the creation of Statement of Purpose / Fiscal Note (SOP/FN), committee agendas, minutes, legislation tracking, email, web publishing, several reports and remote testimony setup. The secretaries not only use this component to create the necessary XML documents but the entry done in this component provides logging and tracking information for other components within the GEMS system, enabling application consumers to always be able to identify where in this process a piece of legislation resides.
• **Legislative Directory** – Legislative Services Office (LSO)

The Legislative Directory component is the heart of everything. The information entered in this component is utilized in almost every component within GEMS including drafting, tracking, Senate and House components and the voting program(s). This component also produces the Legislative Directory, New Legislator Directory, Staff Directory, and several reports.
**Idaho Code Update** Legislative Services Office (LSO)

The Idaho Code Update component is used to prepare, update, delete, and publish the Idaho Code statutes, Idaho Constitution, rules of the House and Senate that reflect the changes which occurred to the XML documents during the session and prepare various types of reports on the update process. GEMS retrieves the Session Law chapters, strips the individual statute, Idaho Constitution article, and/or rule(s) from the legislation, removes the struck XML element and text and removes the underline element, leaving the text.
• **Code Gather** - Legislative Services Office (LSO)

The Code Gather component is used to retrieve Idaho Code statutes, and Constitution article XML documents. These documents can be retrieved in a number of ways (Title, Subtitle, Chapter, Subchapter, Part, Subpart, catch lines, history lines, sections, an individual code section with history line, specified code sections with history lines, or all of the above.) The XML documents for the specified code section(s) are retrieved from Idaho Code Base and opened in Arbortext’s XML Editor for viewing, editing, printing, and exporting into different formats (XML, PDF, or MS Word). Most commonly exported into MS Word for other state agencies.
• **Interim/Joint/Special Committees** – Legislative Services Office (LSO)

The Interim/Joint/Special committees component is used for the creation of meeting notices, agendas, minutes, meeting materials, email, web publishing, and several templates/reports needed for a meeting.
Come and see our application at the show case!