IOI

Biodiversity surveillance via sharing of distributed and disparate information, ...

iBESS

Integrative Biodiversity & Environment Surveillance System (iBESS)

iBESS, is developed to address the needs of government and research agencies in management of biodiversity and environmental information. By simplifying the data loading, cleansing, visualization and reporting processes, iBESS also allows partnering institutions, non-government organizations and private consultants to contribute and benefit. Importantly, iBESS caters for disparate data formats, structured and unstructured data, images, videos and maps. By providing a total web based experience for end users and by protecting the confidentiality of data shared via access rights settings, iBESs ensures usability and allows agencies to make timely and informed decision.

Solution Highlights

Web Based
Allows sharing and studies to be done

Database Schema
Builds on top of popular Darwin Core and ABCD schema

Content Management
Extracts contents from pdf, Winword, Excel, ASCII and structured files

Textual Search Engine
Includes Google-like search to return thumbnails in hit list

GIS Search Engine
Drills information via maps and overlays

Reports
Customizes reporting and search results

Users
Assigns different roles and privileges to users

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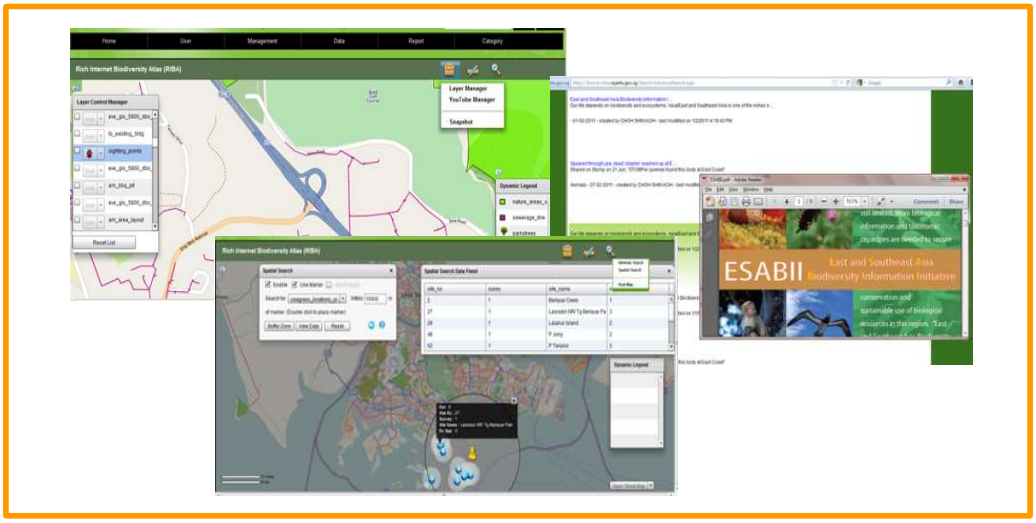

Benefits

iBESS eases biodiversity and environmental surveillance work by providing end-to-end platform for uploading, pre-processing, and analysis of data. Given the web based design, users can run tasks anywhere without having to install any clients. It is also built mostly from open-source technologies, thus lowering the cost of ownership for users.

Data management

- Caters for both biodiversity and environmental data
- Integrated platform for uploading, pre-processing data analysis and reporting
- Handles many data formats, e.g. Microsoft files, pdf, ASCII, ArcGIS, Open Street Maps, Yahoo maps, Maps and Microsoft AerialMaps
- Allows rapid knowledge discovery via integrated textual search, GIS search and Reporting engines
- Enables data exchange via adoption of Darwin Core and ABCD schema
- Caters for huge datasets

Data Sharing

- Prevents unauthorized usage by setting of access rights for uploaded contents
- Includes two factor SMS authentication to strengthen security of system
- Includes full audit trails

Cost Savings & Productivity Gain

- Minimum customization as iBESS is already fully designed for biodiversity usage
- Generates reports that are relevant for users
- Provides templates to ease data management work
- Runs on free and popular Internet Browsers
- Provides pre-defined roles to coordinate team work and efficient allocation of manpower
- Builds largely on open source technologies, thus lowers the cost of ownership
- Centralized design lowers maintenance cost

Why administrators choose iBESS?

1. Ease of deployment as system is web based
2. Centralized design ease maintenance
3. Runs on virtualized environment to enable load balancing
4. User friendly interface eases training
5. Leverage on popular Windows OS
6. Security features implemented to ease governance of system
7. iBESS eases handling of new datasets via provision of templates

Why users want to use iBESS?

1. iBESS is simple and user-friendly
2. iBESS is fast because computation load is shared between server and local machines
3. iBESS relieves the issue of data formats
4. iBESS shortens learning curve as there is just one single platform to perform all required transactions
5. iBESS ensures integrity and quality of data by routing new data to experts for validation before publishing
6. iBESS allows controlled sharing of information via access rights assignment
7. iBESS saves time as it is able to process huge datasets and caters for batch processing
8. iBESS can be used any time and any where as it is completely web based for end users

Request For Information

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