



TDWG 2017 – Ottawa, Canada

Data Integration in a Big Data Universe: Associating Occurrences with Genes, Phenotypes, and Environments

Living Atlases community

Marie-Elise Lecoq
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Introduction

Workshop speakers



Fabien Cavière
GBIF France



Christian Gendreau
GBIF



Jérémie Goimard
Canadensys



Marie-Elise Lecoq
GBIF France



David Martin
Atlas of Living Australia



Santiago Martinez de la
Riva
GBIF Spain



Manash Shah
GBIF Sweden



Introduction

Workshop Agenda (1)



Session 1: Tuesday - 11 am

- Living Atlases presentation - *Marie-Elise Lecoq, GBIF France*
- ALA presentation & architecture - *David Martin, ALA*
- Documentation - *Fabien Cavière, GBIF France*
- Discussion

Session 2: Tuesday – 2:00 pm

- Registry - *Santiago Martinez de la Riva, GBIF Spain*
- Practical exercises (Registry)

Session 3: Tuesday – 3:30 pm

- Biocache-store - *Manash Shah, GBIF Sweden*
 - Practical exercises (Biocache-store)
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- Occurrence search - *Jérémie Goimard, Canadensys*
 - Practical exercises (Occurrence search)

Introduction

Workshop Agenda (2)



Room: Chaudiere

Session 4: Wednesday – 11 pm

- Ansible & Vagrant - *David Martin, ALA*
- Customization - *Marie-Elise Lecoq, GBIF France*
- ALA4R - *Manash Shah, GBIF Sweden*

OR

- Discussion :
 - What are your requirements?
 - What are your problems?
 - How can the community help you?
 - ...

Why a national portal?

Gives users more possibilities in terms of map visualization

Adds more specific fields in the search engine

Increases data quality using national tools (flags, national checklist, etc.)

Gives a visibility to data publishers in the national language



Why use ALA modules ?



Tools working in others countries (Australia, Costa Rica, France, Spain, Sweden, UK, etc.)

Worldwide community around the project

Lasting solution from a technical point of view

Significant staff turnover especially in the technical team



Why a workshop ?

- To give a example of open source framework community in the Biodiversity network
- To present the Atlas of Living Australia (ALA) platform with presentations but also technical exercises
- To show the benefits of joining this kind of community.





Living atlases community



Countries involved



Map created by Katia Cezón, GBIF Spain – <https://tinyurl.com/ydc78p86>



Community

Living Atlases community



Community

Portals in production



A screenshot of the 'Portal de datos de Biodiversidad' (Sistemas Nacionales de Datos Biológicos) website. It shows a search bar, a video player, and statistics: 71,959,723 occurrence records, 120,018 species, 1,576,779 data downloads, and 39,176 registered users.

A screenshot of the 'Atlas of Living Australia' website. It features a search bar, a video player, and statistics: 71,959,723 occurrence records, 120,018 species, 1,576,779 data downloads, and 39,176 registered users.

A screenshot of the 'NBN Atlas' website. It features a search bar, a video player, and statistics: 2,609,774 occurrences, 463,724 species, and 28 contributors of data published for Portugal.

A screenshot of the 'GBIF Global Nodes meeting - follow us live' portal. It includes a video player showing a meeting, a 'View Images' section, and a 'Biodiversity Atlas Sweden awarded funding' news item.

A screenshot of the 'Swedish Biodiversity Portal' website. It features a search bar, a video player, and sections for 'SEEN SOMETHING?', 'VIEW IMAGES', 'EXPLORE YOUR AREA', and 'ANALYSE DATA'.

A screenshot of the 'natura 2000 portugal do GBIF' website. It features a search bar, a video player, and sections for 'Ocorrencias' (Occurrences), 'Consulte dados de ocorrências de ocorrência', and '463,724 ocorrências publicadas por Portugal'.

A screenshot of the 'Atlas of Living Costa Rica - CRBio' website. It features a search bar, a video player, and sections for 'Species Pages', 'Occurrences', and 'Explore the Biodiversity of your Area'.

A screenshot of the 'NBN Atlas Scotland' website. It features a search bar, a video player, and sections for 'SEEN SOMETHING?', 'VIEW IMAGES', 'EXPLORE YOUR AREA', and 'ANALYSE DATA'.

A screenshot of the 'NBN Atlas Wales' website. It features a search bar, a video player, and sections for 'SEEN SOMETHING?', 'VIEW IMAGES', 'EXPLORE YOUR AREA', and 'ANALYSE DATA'.

A screenshot of the 'Atlas de la biodiversité de France' website. It features a search bar, a video player, and sections for 'CONSULTER LES OCCURRENCES', 'LES COLLECTIONS', 'LES JEUX DE DONNÉES', and 'PORTAIL BIOPORT'.

A screenshot of the 'CANADENSIS IPT' website. It features a search bar, a video player, and sections for 'CANADENSIS IPT', 'CANADENSIS TOOLS', 'VASCAN', 'CANADENSIS EXPLORER', and 'CANADENSIS EXPLORER BASED ON ALA'.

A screenshot of the 'Biodiversity Portal (PortalBio)' website. It features a search bar, a video player, and sections for 'OCCURRENCE RECORDS', 'PUBLIC RECORDS', 'THREATENED SPECIES RECORDS', 'SPECIES', 'THREATENED SPECIES', and 'DATABASES'.



Communication



Mailing List

- ala.portal@lists.gbif.org
- Registration: <http://lists.gbif.org/mailman/listinfo/ala-info>

HipChat Room (for developers)

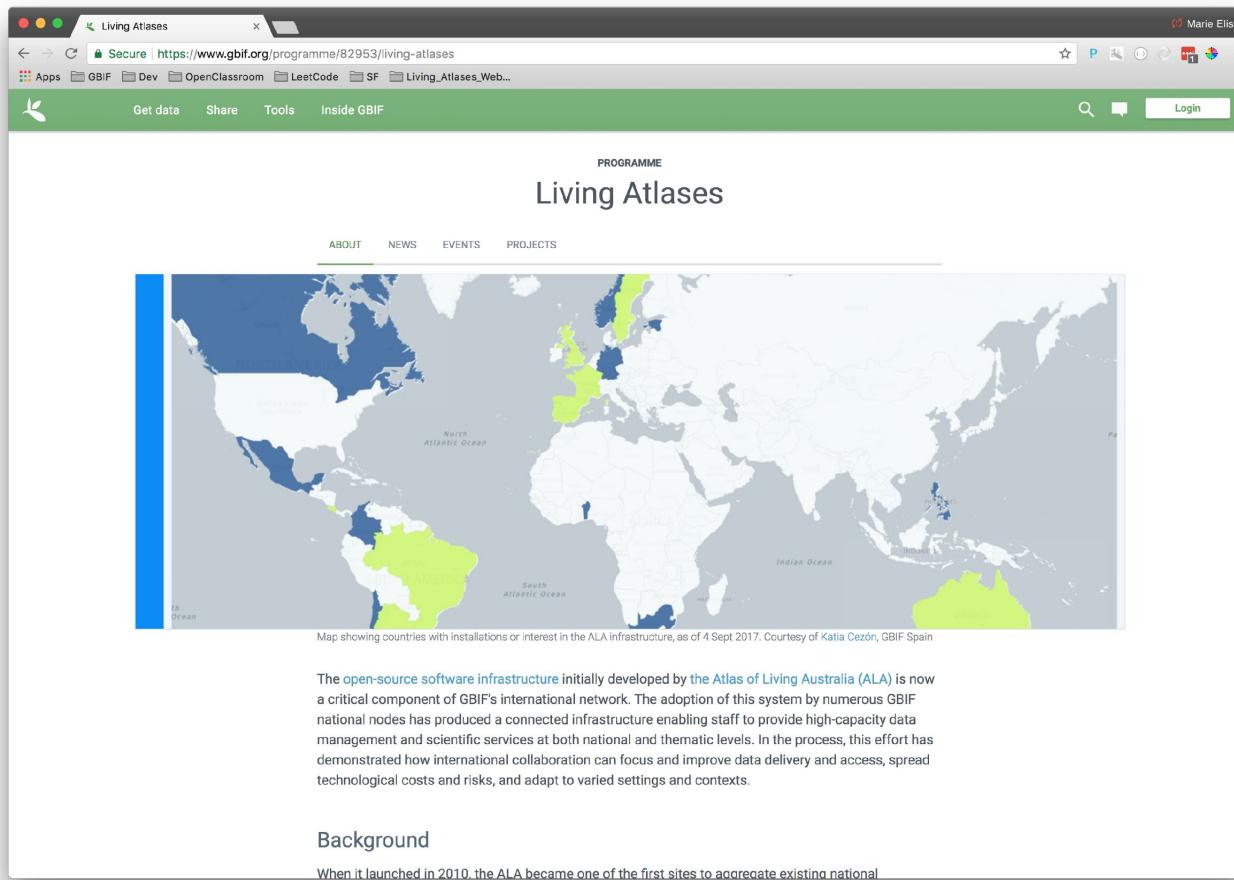
- Public access: <https://www.hipchat.com/gx1ej3K6Q>

Documentation

- *ALA Key Technical Document*
<http://www.gbif.org/project/2015-ala-internationalization>
- *ALA GitHub folder (documentation wiki)*
<https://github.com/atlasoflivingaustralia/documentation/wiki>



GBIF Program page



The screenshot shows a web browser window for the "Living Atlases" program page. The URL is <https://www.gbif.org/programme/82953/living-atlases>. The page has a green header bar with the GBIF logo and navigation links: "Get data", "Share", "Tools", "Inside GBIF", "Login", and a search bar. Below the header is a menu with "PROGRAMME" and "Living Atlases" selected. Underneath are tabs for "ABOUT", "NEWS", "EVENTS", and "PROJECTS". The main content features a world map where countries are shaded in blue, white, or green, representing different levels of interest or participation. A legend on the left side of the map area identifies the colors. Below the map is a caption: "Map showing countries with installations or interest in the ALA infrastructure, as of 4 Sept 2017. Courtesy of Katia Cezón, GBIF Spain". A detailed text block follows, explaining the transition from the Atlas of Living Australia (ALA) to a global network.

The open-source software infrastructure initially developed by the [Atlas of Living Australia \(ALA\)](#) is now a critical component of GBIF's international network. The adoption of this system by numerous GBIF national nodes has produced a connected infrastructure enabling staff to provide high-capacity data management and scientific services at both national and thematic levels. In the process, this effort has demonstrated how international collaboration can focus and improve data delivery and access, spread technological costs and risks, and adapt to varied settings and contexts.

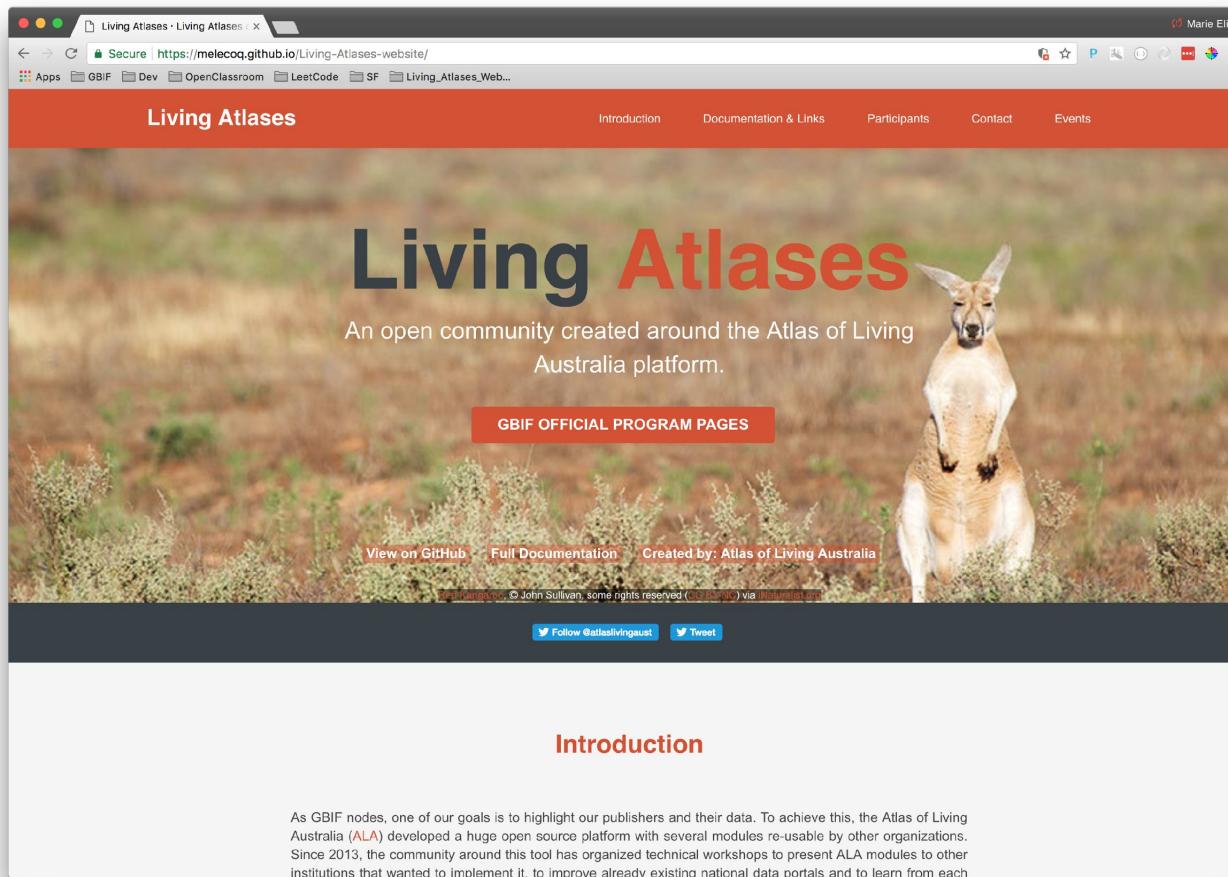
Background

When it launched in 2010, the ALA became one of the first sites to accommodate existing national

<https://www.gbif.org/programme/82953/living-atlases>



Living Atlases community



The screenshot shows the homepage of the Living Atlases website. The header features the "Living Atlases" logo and navigation links for Introduction, Documentation & Links, Participants, Contact, and Events. The main title "Living Atlases" is prominently displayed in large, bold letters, with "Living" in black and "Atlases" in red. Below the title, a sub-headline reads: "An open community created around the Atlas of Living Australia platform." A red button labeled "GBIF OFFICIAL PROGRAM PAGES" is visible. At the bottom of the page, there are links to "View on GitHub", "Full Documentation", and "Created by: Atlas of Living Australia". A copyright notice at the very bottom states: "Attributed to: © John Sullivan, some rights reserved (CC BY-NC) via Bioatlas.org". Social media links for Twitter are also present.

Introduction

As GBIF nodes, one of our goals is to highlight our publishers and their data. To achieve this, the Atlas of Living Australia ([ALA](#)) developed a huge open source platform with several modules re-usable by other organizations. Since 2013, the community around this tool has organized technical workshops to present ALA modules to other institutions that wanted to implement it, to improve already existing national data portals and to learn from each

<https://living-atlases.gbif.org>



2017 / 2018



CESP Project :

- CESP Regional event between 13 nodes to organize the 1-week workshop in Feb 2018 in Madrid (advanced level).
- CESP Mentoring between Canadensys and GBIF France to help open the community to French-speaking countries.
- CESP Mentoring between GBIF Benin and GBIF France to install the Beninese data portal based on ALA

TDWG 2017 :

- Beginners workshop around Atlas of Living Australia tools (4 sessions)

Collaboration

- GBIF Argentina has begun to help installing ALA in Colombia.
- GBIF Spain has begun to work on the installation of the ALA portal in GBIF Andorra and GBIF Luxemburg.



Project call - 2017 / 2018

INTERREG SUDOE Project

- BIOGLASER: collaboration between GBIF Andorra, GBIF France, GBIF Spain, GBIF Portugal and other institutions to create a biogeographic Living Atlas based on ALA modules for a better management of the biodiversity in the SUDOE area.



Future...

More technical workshops (at least one per year) focused on different modules of the platform (Species list, Spatial, etc.) and for different levels (beginners and advanced)

More GBIF participants will launch their portals in production: Andorra, Canadensys, Germany, Luxembourg, Mexico, Sweden, etc.

Improvement of the communication between participants (project calls, helpdesk, bug report, etc.)



Conclusion

Thank you !

