PLINIAN CORE 3 **INTEGRATING INFORMATION ABOUT SPECIES**

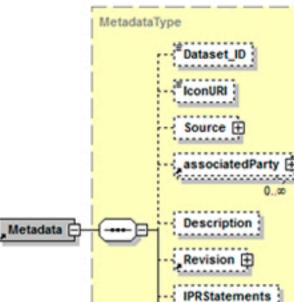
ABSTRACT

Plinian Core aims to be a standard for sharing information mainly at the species level. It was conceived as a way to publish species information and to make it interoperable. By "species information" we refer to all kinds of properties and traits related to taxa (of any rank), including descriptions, nomenclature, conservation status, management, natural history, etc. Thus, Plinian Core coverage goes beyond taxonomic descriptions.

The objective of this poster is to present the process and advances of the conceptual development of Plinian Core v3.1 (abstract model) and its implementation (application profiles).

A PLINIAN CORE HISTORY

A previous version of Plinian Core, know as "Plinian Core Flat", consisted of a plain list of elements to represent the information associated to any given taxon. Limitations of this approach were evident and a new development was impulse to overcome them.



As a result of the process started in 2012, a new version, Plinian Core v3.1 was defined. This provides more flexibility to fully represent the information of a species in a variety of scenarios. New elements to deal with aspects such as IPR, related resources, referenced, etc. were

APPLICATION PROFILE

As the Plinian Core Abstract Model would be

impractical to implement, a generic application

Profile --intended for production implementations,

including GBIF's IPT-- was developed. Besides,

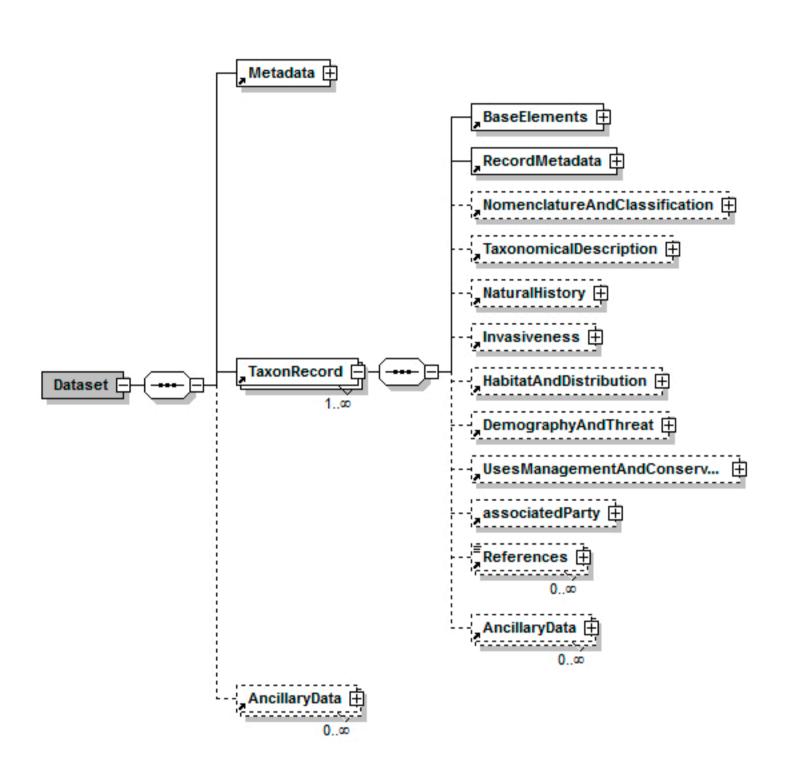
species information gathered under previous

versions of Plinian Core can be easily imported into

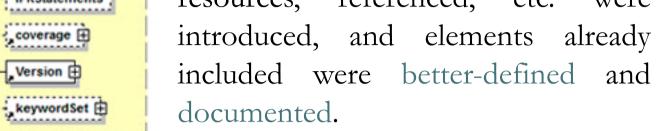
Audience Revision TaxonRecordName Synonyms 🗈 CommonNames 🗈 Hierarchy BriefDescription FullDescriptionUnstructured IdentificationKeys 🕀 LifeForm D LifeCycle E Reproduction AnnualCycleUnstructure Feeding 🕀

our source data files for generating a Darwin Core Archive. You can upload delimited text files (csv, tab, and files any other delimiter) either directly or compressed (zip or gzip). To (re)upload a file, please select the local file then click 55". Alternatively, you can configure SQL views to databases in your local network. To create a new SQL source ase click "Connect to database" without any file chosen

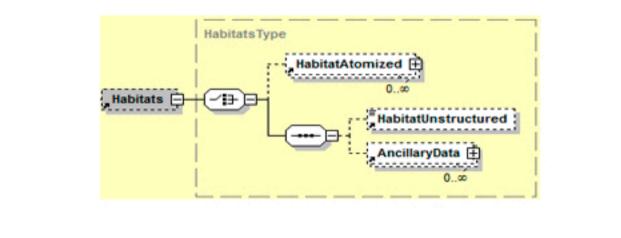
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The development of Plinian Core has been leaded by the National Institute of Biodiversity (INBio, Costa Rica), the Spanish Node of GBIF (GBIF Spain), the University of Granada (UG, Spain), the Alexander von Humboldt Institute (IAvH, Colombia), the National Commission for the Knowledge and Use of Biodiversity (Conabio, Mexico) and the University of Sao Paulo (USP, Brazil). This group reviewed the existing data standards to reuse as many elements as possible and avoid redundancy.



Other new features are the possibility to represent each element in unstructured or structured terms, and attach provenance, references, or license information to them.

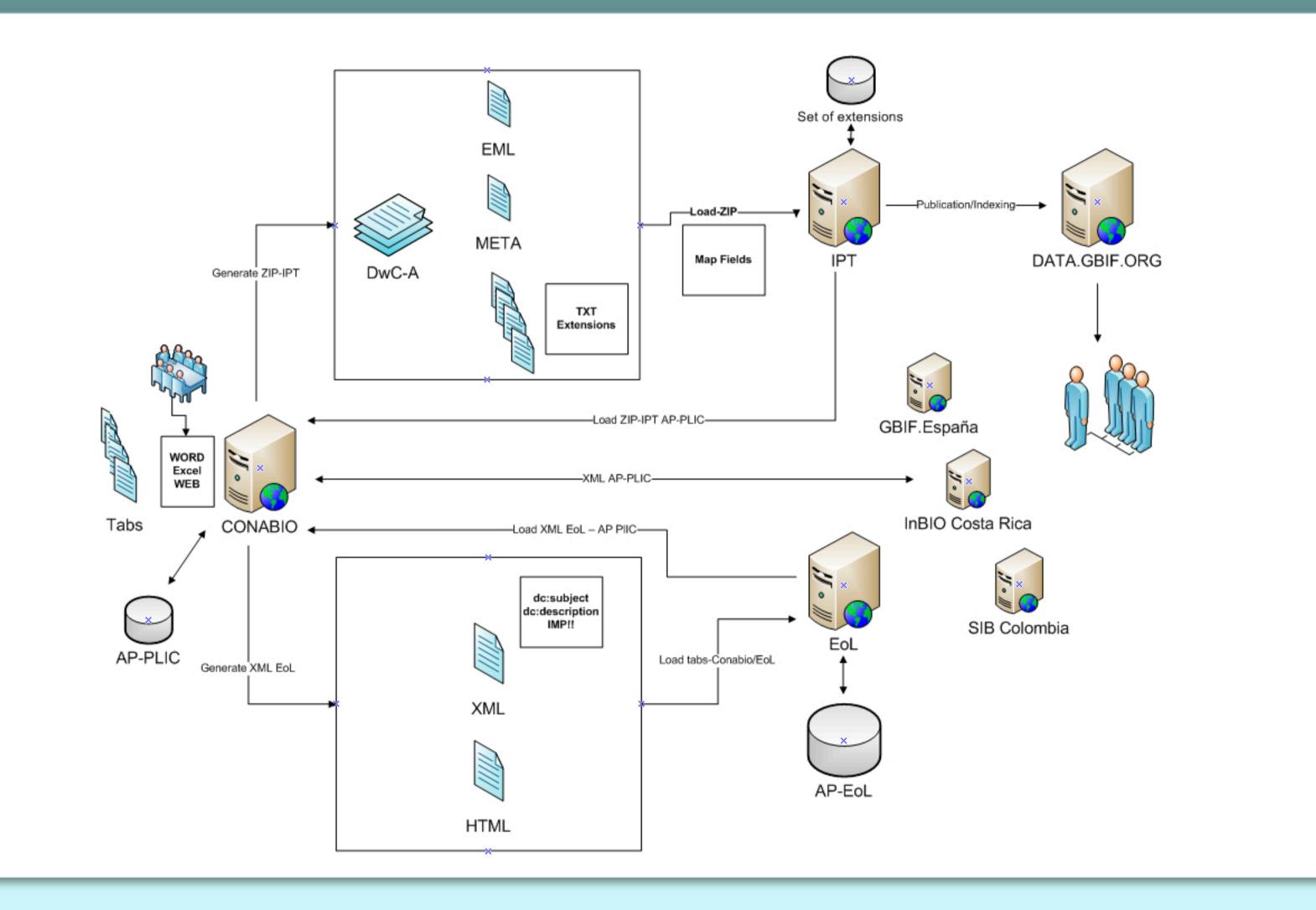


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<pre></pre>	in Plinian Core v3.2 vocabulary will imp	led vocabularies is recomm l for many elements. A composed datasets interoperable o search for detailed infor fields.	ntrolled lity and

the new application profile.

nect to database Clear

DATAFLOW - ACCESSIBILITY AND INTERCONNECTION



Plinian Core design requirements included to be easy to use, self-contained, able to support data integration from multiple databases, and ability to handle different levels of granularity. The current version of Plinian Core specifically supports species pages publication reasonably well, it is structured in 18 classes (i.e. complex elements) and it is well-documented:

- Abstract Model: (https://purl.org/pliniancore/am_v3.1) •
- Application Profile (https://purl.org/pliniancore/ap_v3.1)
- Additional Plinian Core documentation can be seen at https://code.google.com/p/pliniancore/

Plinian Core plin	niancore
PRODU	Wiki Issues Source Administer
Summary People	
Project Information	Plinian Core is a standard oriented to share species level information. Its hierarchical schema allows to develop species data sheets that can be shown in websites.
Starred by 1 user Project feeds	Abstract model: https://purl.org/plinlancore/am_v3.1
Code license Apache License 2.0	Application profile: http://purl.org/pliniancore/ap_v3.1 Unstructured Documentation: http://purl.org/pliniancore/doc/
Content license Creative Commons 3.0 BY	Legend:
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pliniancore, biodiversidad, biodiversity, schemaesquema, schema,	B→ Complex Type
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Plinian Core is currently used by the institutions mentioned above and the Chilean Ministry of Environment. Now we aim to make Plinian Core a truly global standard by bringing together teams and institutions from all over the world under

OTHER STANDARDS

Plinian Core v3.1 incorporates a number of elements already defined within standards in use. This is an important consideration in advancing towards robust semantic web architecture for biodiversity information. The following table depicts the relationships between other standards and the elements used by Plinian Core v3.1:

- associatedParty, keywordSet, coverage. emi
- **ABCD** Description, IPRStatements.

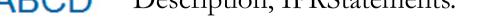
FUTURE DIRECTIONS

Species data is crucial for a large number of users, including decision makers worldwide. Therefore it is central to made data available in better-structured ways; thus, we aim to make Plinian Core the product of a wider and more diverse community, embedded in the processes of TDWG. This will definitely introduce some complexity in the decision-making processes, but we are also confident that the outcome will be more robust and usable for a wider community. We count on all interested parties in this new phase of Plinian Core.

the umbrella of TDWG.

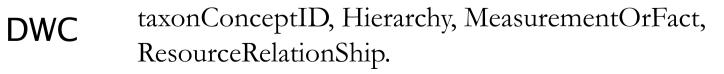
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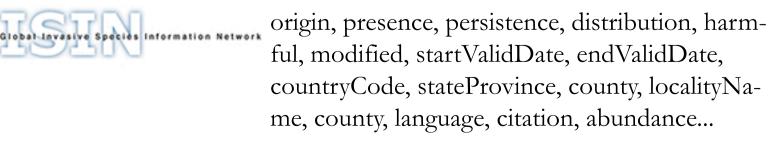
Santiago Martínez de la Riva, GBIF.es; Carmen Quesada, Universidad de Granada; Francisco Pando, GBIF.es; Bárbara Ayala-Orozco, CONABIO; Ángela M. Suárez-Mayorga, Universidad de los Andes; María Mora, Inbio; Danny Vélez, Humboldt Institute; Jose Trinidad Mendoza Gaytan, CONABIO; Daniel Lins da Silva, Universidade do Sao Paulo; María Esther Quintero Rivero, CONABIO; Aurelio Sanabria, Inbio; Patricia Koleff, CONABIO





created, pubdate.





TCS scientificName



AncillaryData: DataObjectBase

