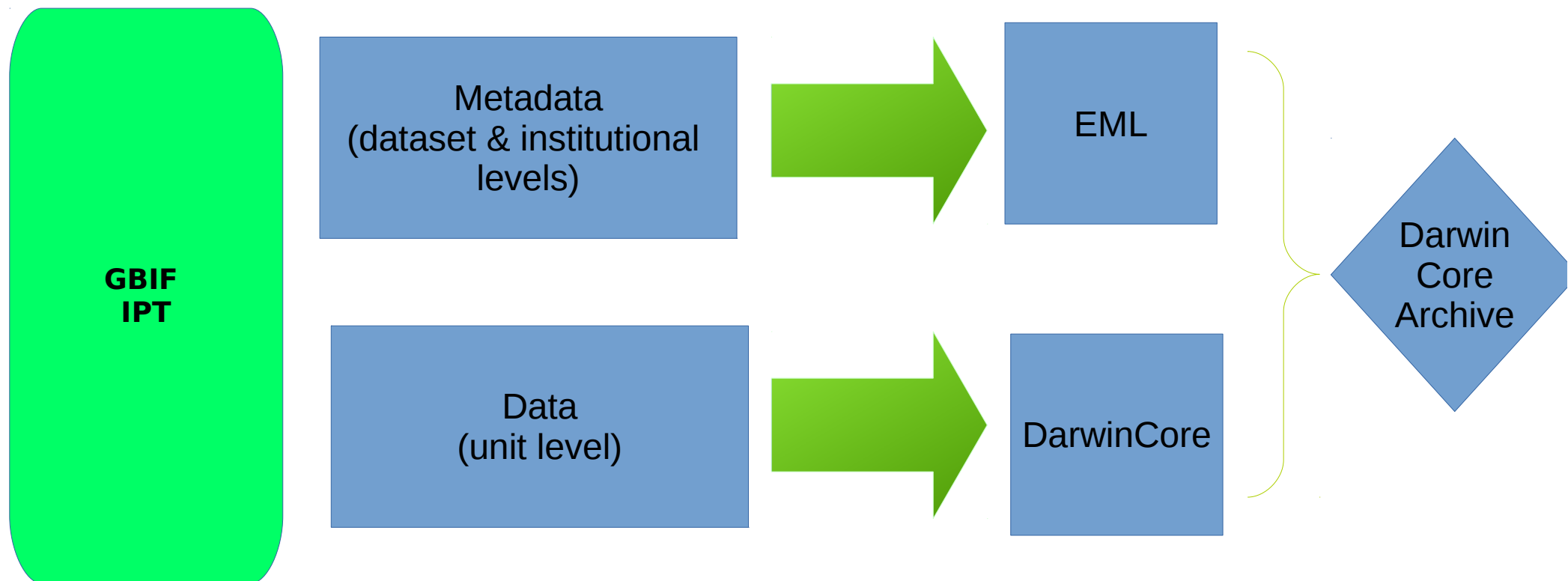


# IPT general 'workflow'



# IPT general 'workflow'

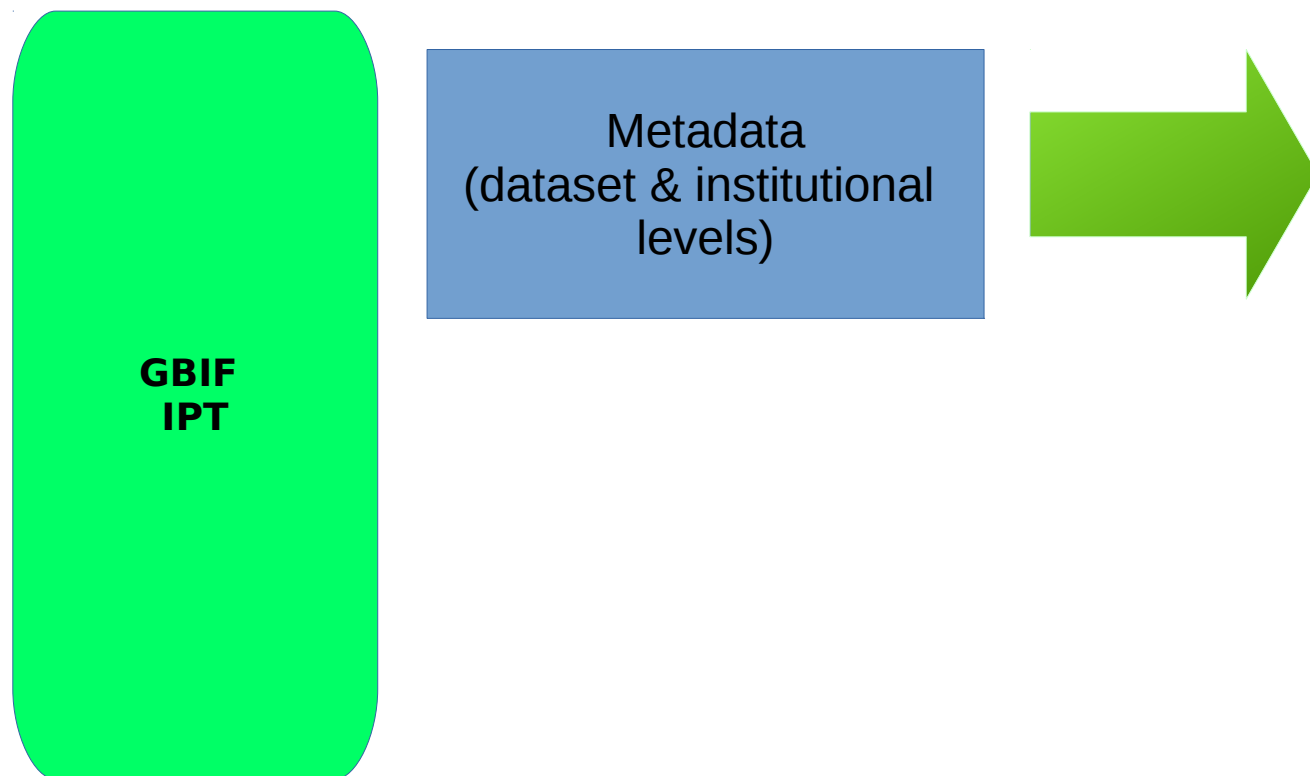
**GBIF  
IPT**

# IPT general 'workflow'

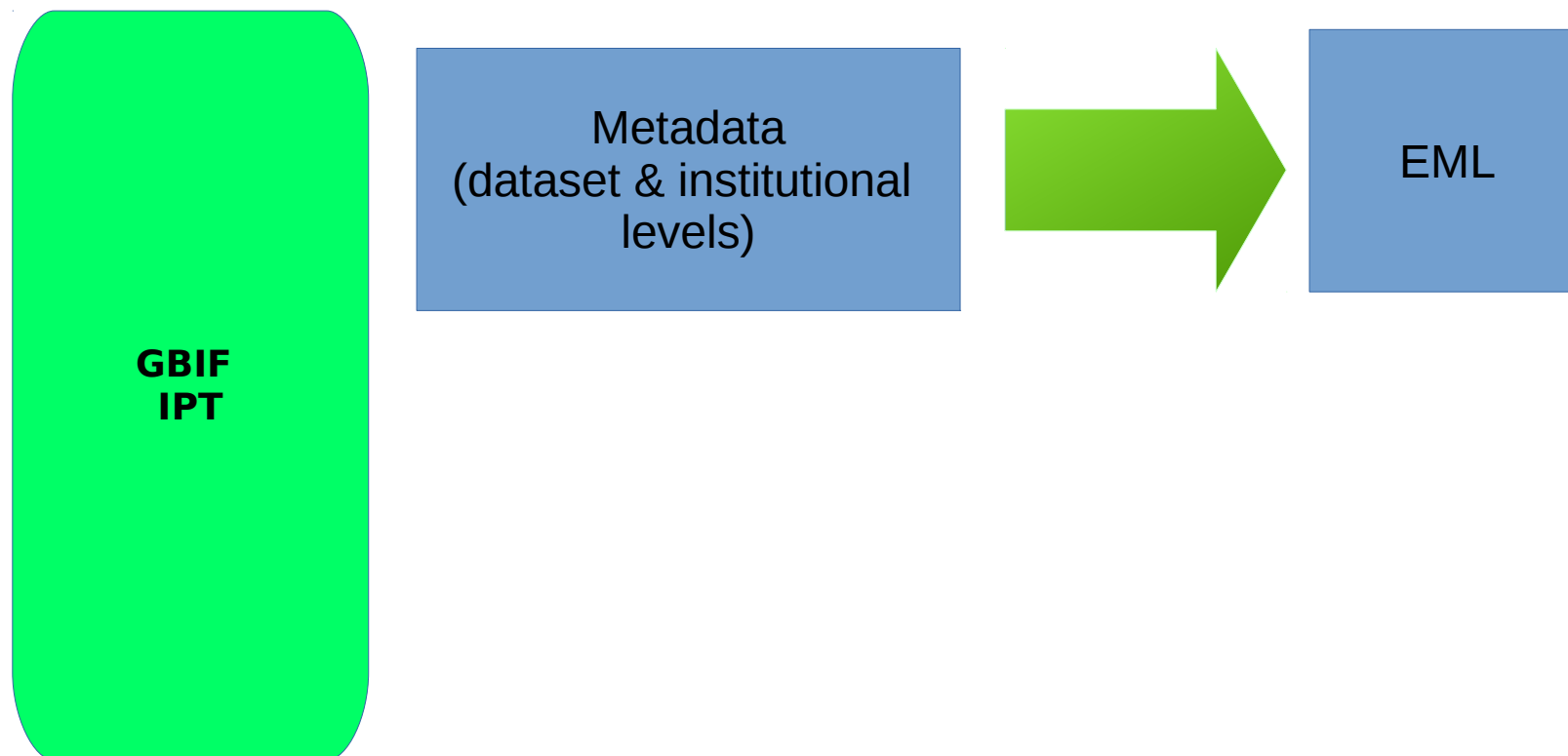
**GBIF  
IPT**

Metadata  
(dataset & institutional  
levels)

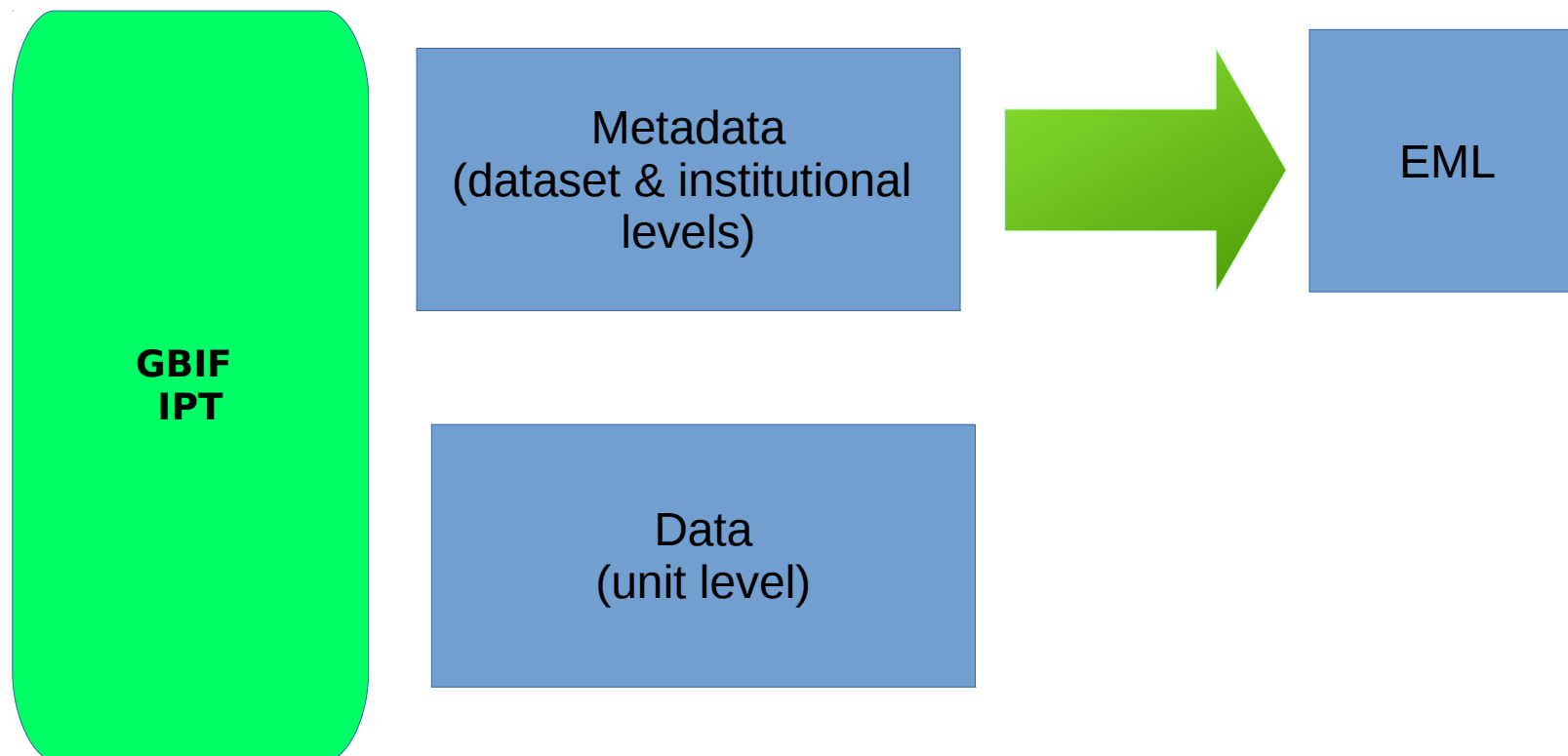
# IPT general 'workflow'



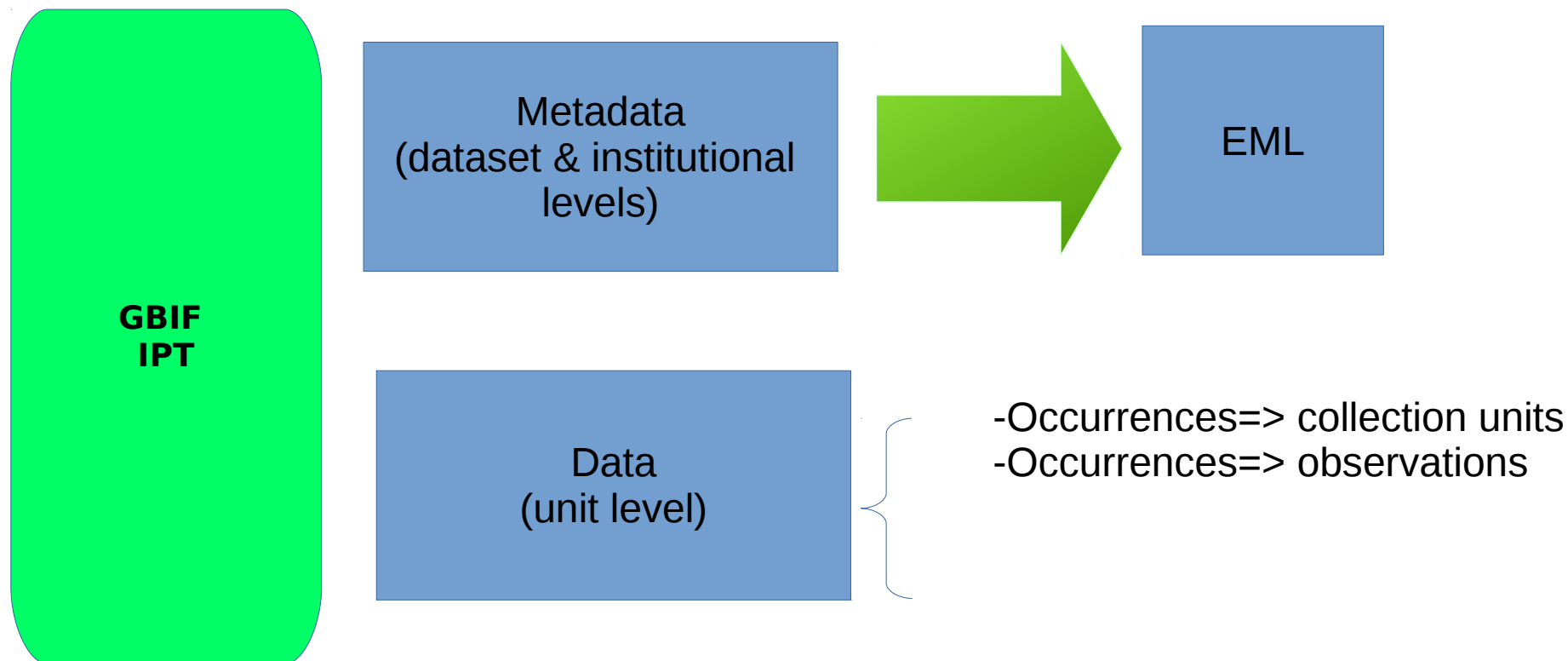
# IPT general 'workflow'



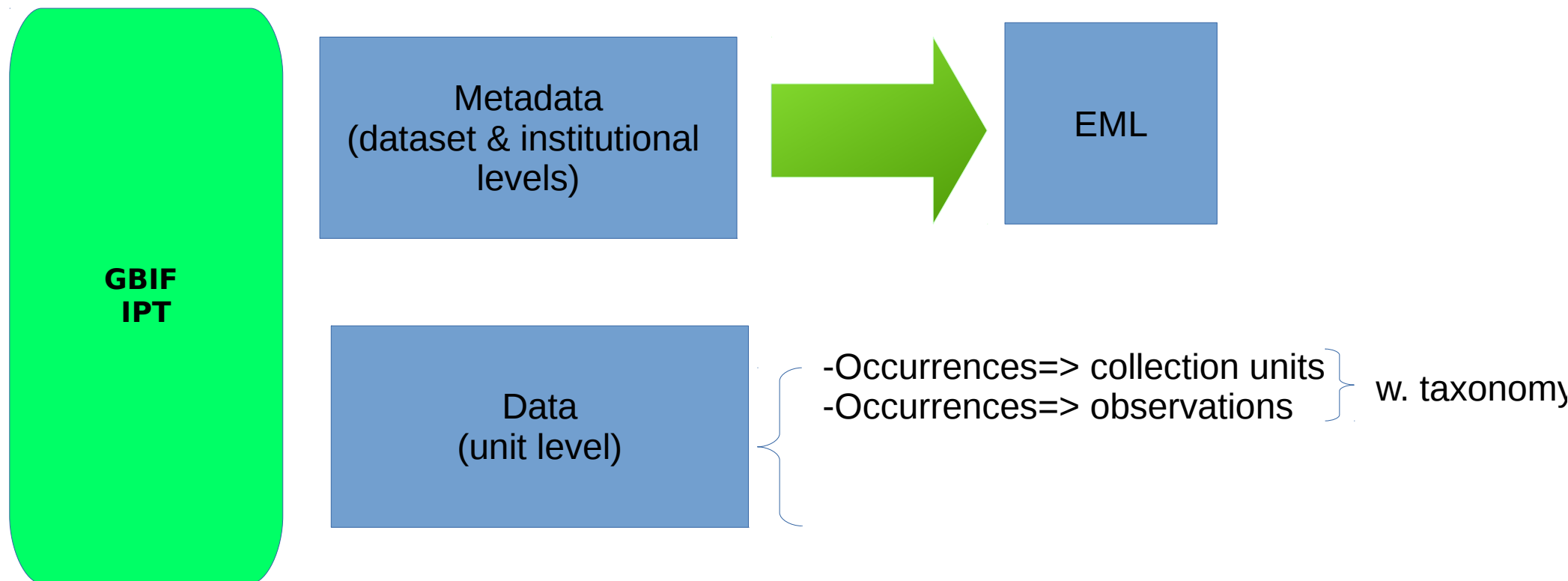
# IPT general 'workflow'



# IPT general 'workflow'



# IPT general 'workflow'

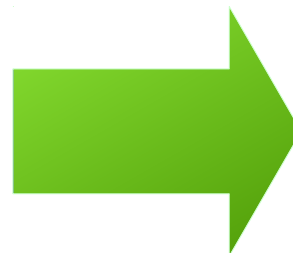




# IPT general 'workflow'



Metadata  
(dataset & institutional  
levels)

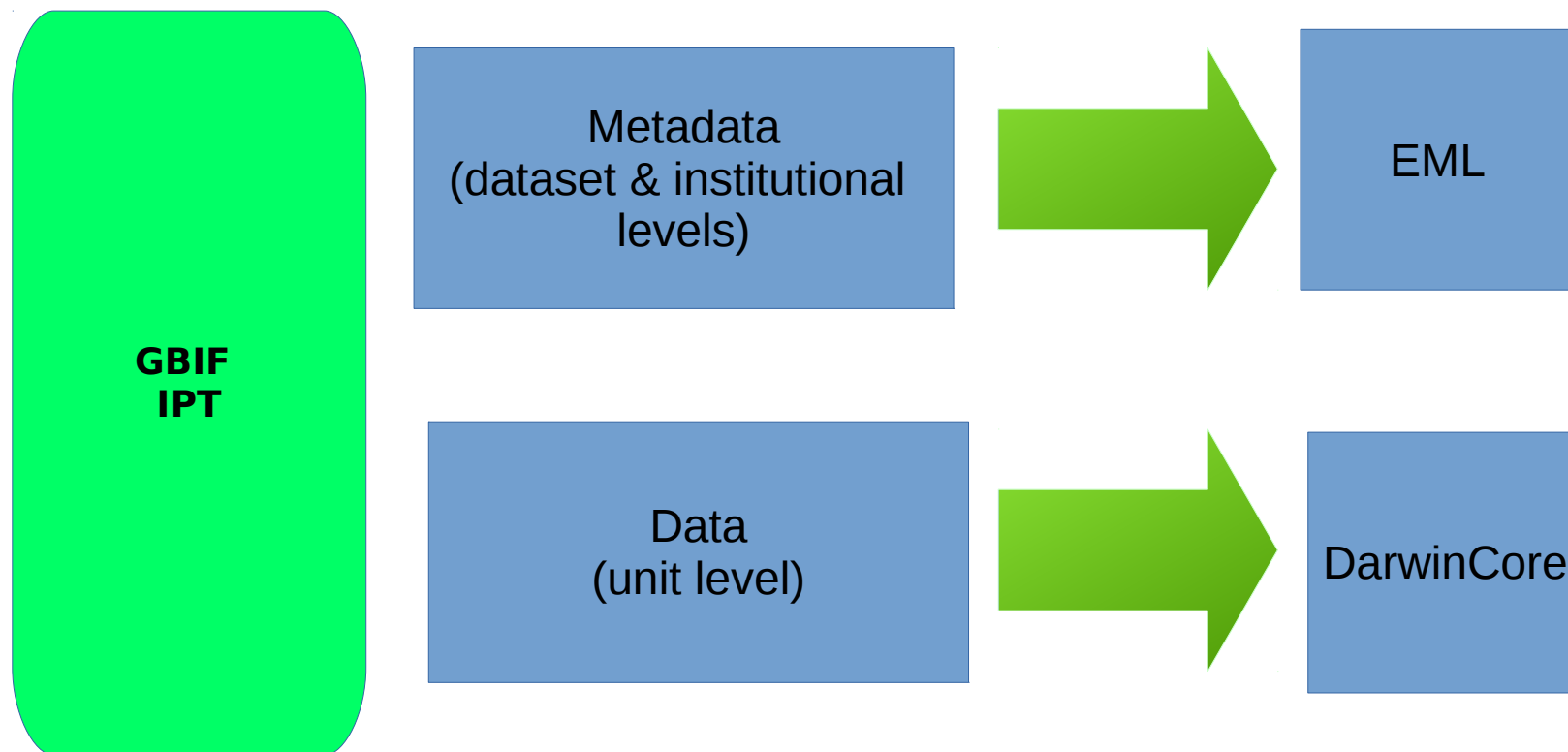


EML

Data  
(unit level)

- Occurrences=> collection units
  - Occurrences=> observations
- +Darwin Core Extensions :
- events
  - measurements or facts
  - history of identifications
- w. taxonomy

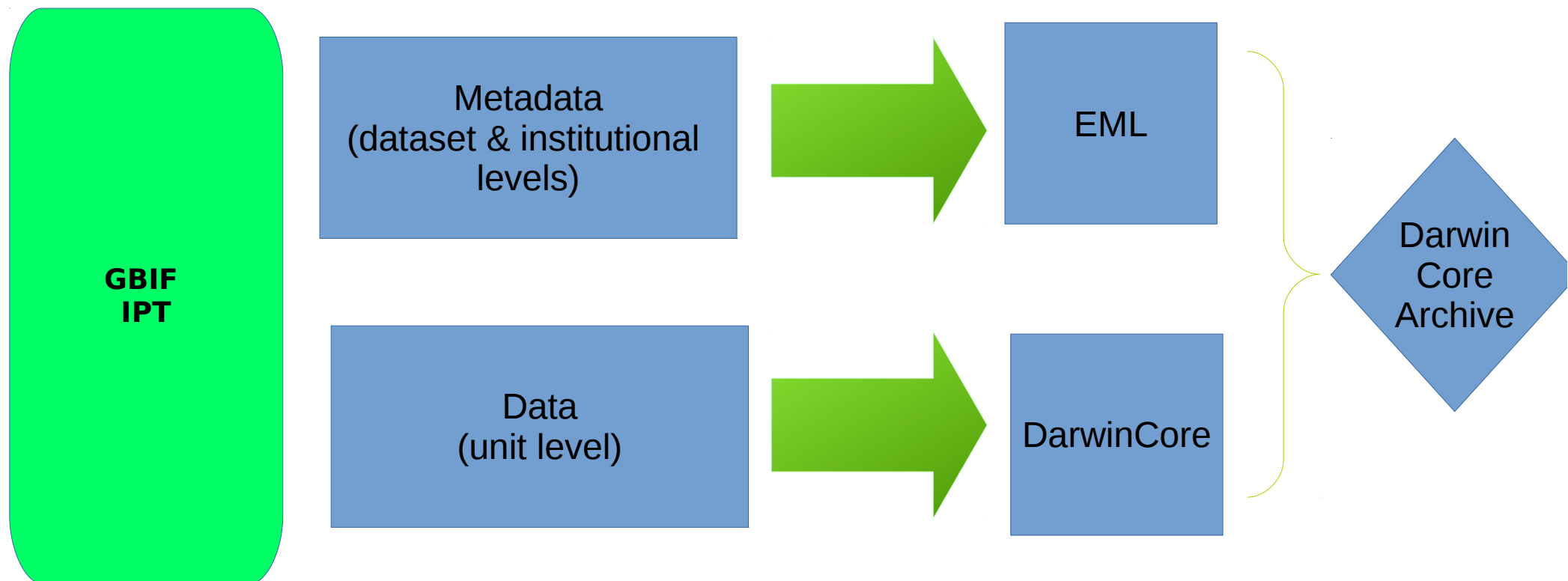
# IPT general 'workflow'



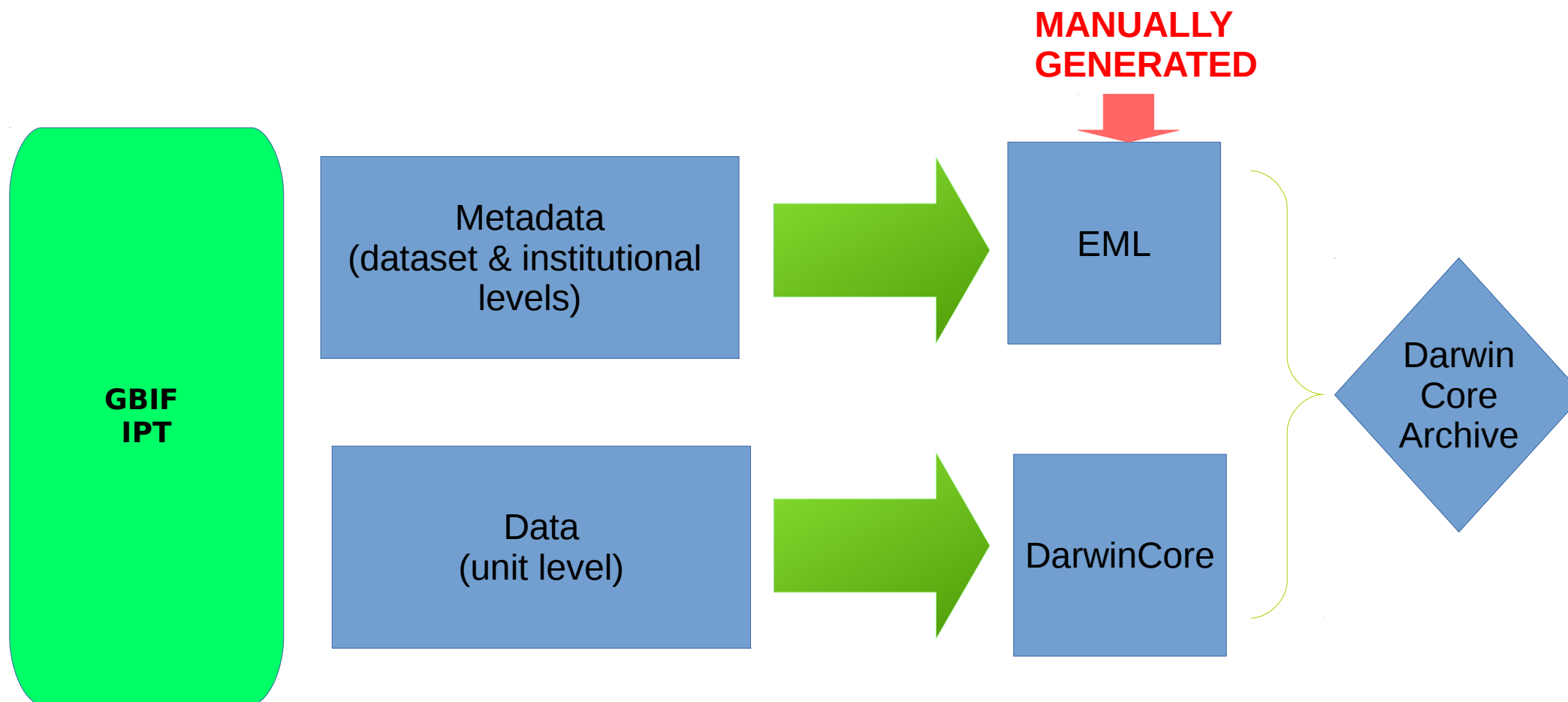
# Darwin Core

- Darwin Core:
  - **Body** of standards
  - **Unit level** (not the collection=> unlike ABCD)
  - **Semantic** and **syntax** partly derived from **Dublin Core** (metadata on resources and on-line documents)
  - Several **extensions**
  - XML schema
  - Standardised and discussed by **TDWG**

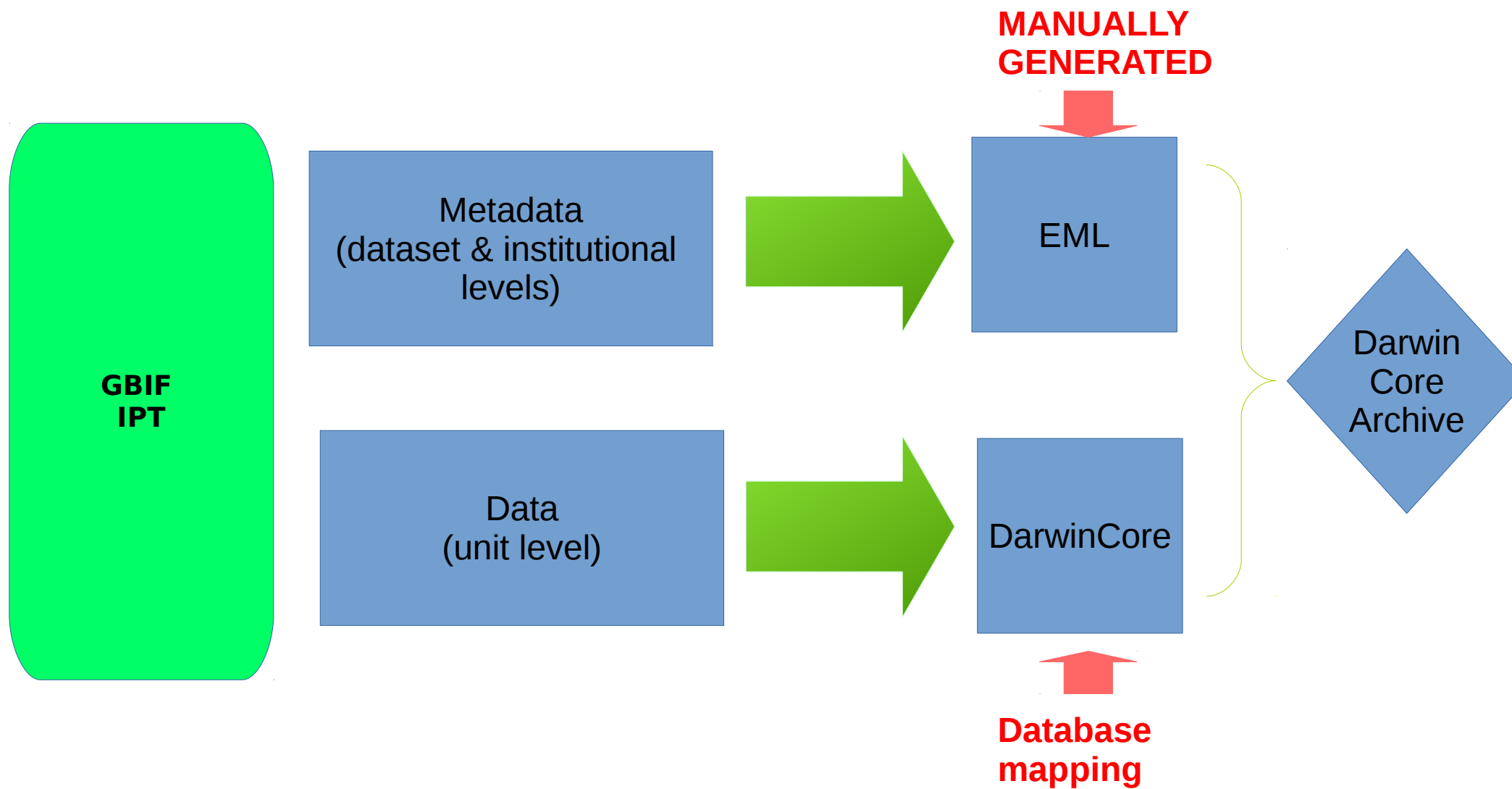
# IPT general 'workflow'



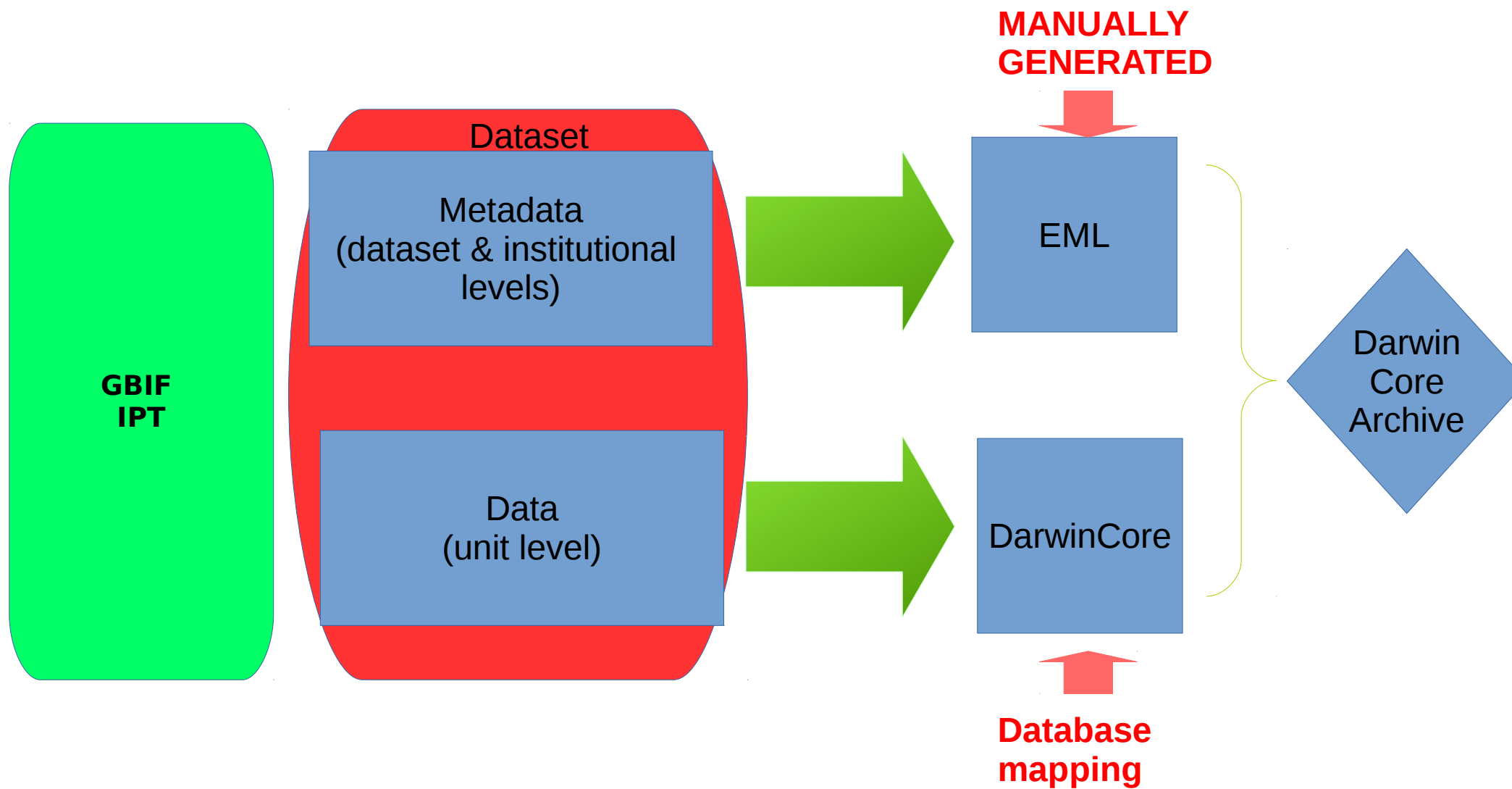
# IPT general 'workflow'



# IPT general 'workflow'



# IPT general 'workflow'



# IPT

- Integrated publishing toolkit
  - Version 2.x launched circa **2010**
  - **Web service** in **Java** (Tomcat/Jetty)
  - Need connection to GBIF to upload/update schema of associated **vocabularies (I.E the server must access the Internet)**
  - Sources:
    - **CSV/Delimited files**
    - **SQL** databases (via JDBC)
  - **Access point** to data but no query interface (component of a centrally-managed discovery mechanism)
  - **Rich editor** for metadata
  - publishing=> DarwinCore Archives are uploaded to GBIF portal (fits well with **NoSQL** technologies)



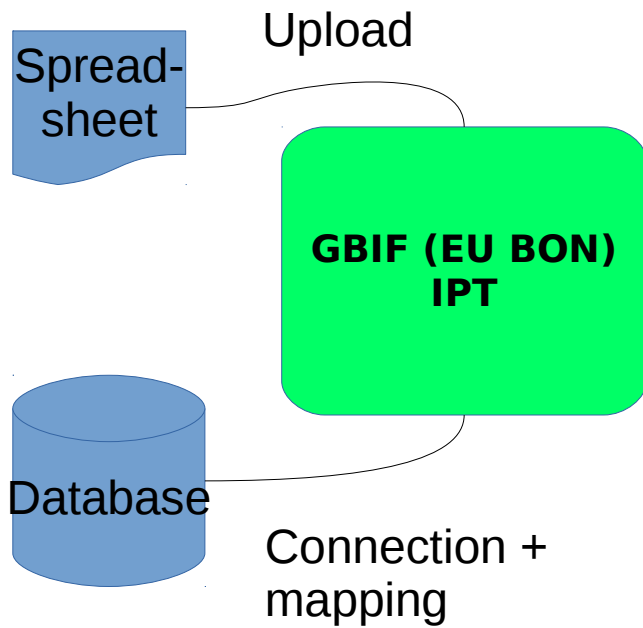
# IPT

- 2 modes: **test/production**
- Can retrieve in a semi-automatic way **modifications** of vocabularies (schemas) and new extensions from GBIF =>
  - **-the IPT tool implicitly guarantees the consistency and alignment of the semantic and syntax for the community of users**
- Target users: GBIF node, but many institution have their own IPT
- Organisations must be registered to GBIF before creating/publishing a dataset (institutional password needed)
- EU BON IPT: <http://eubon-ipt.gbif.org/>

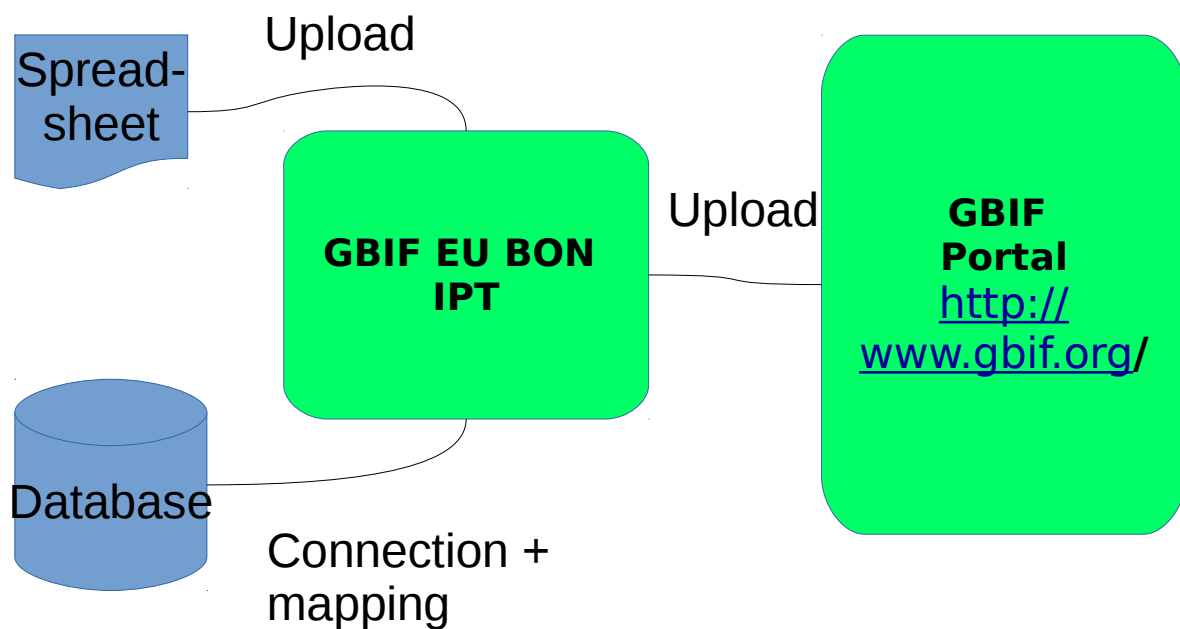
# Complete (possible) architecture

**GBIF (EU BON)  
IPT**

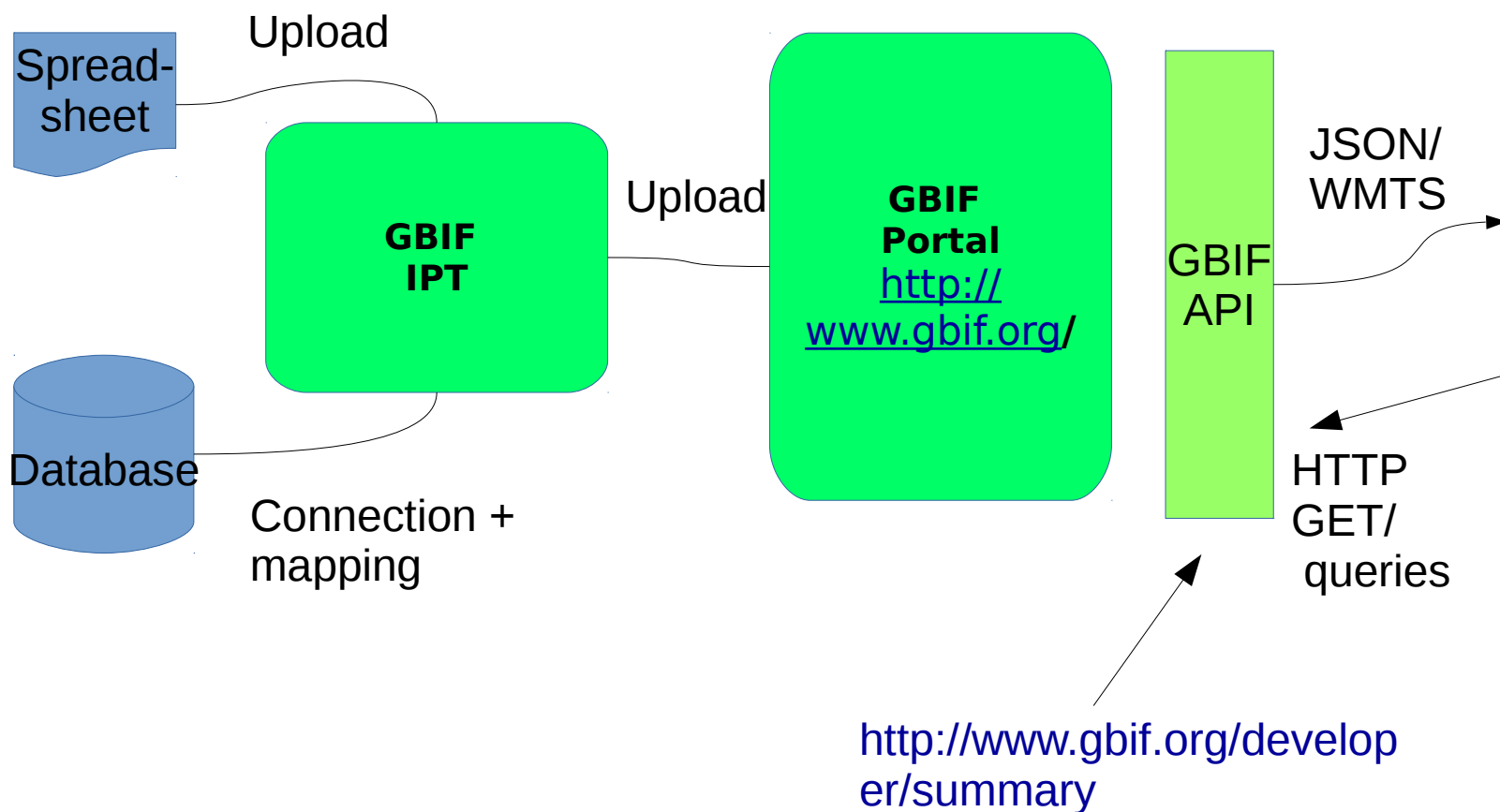
# Complete (possible) architecture



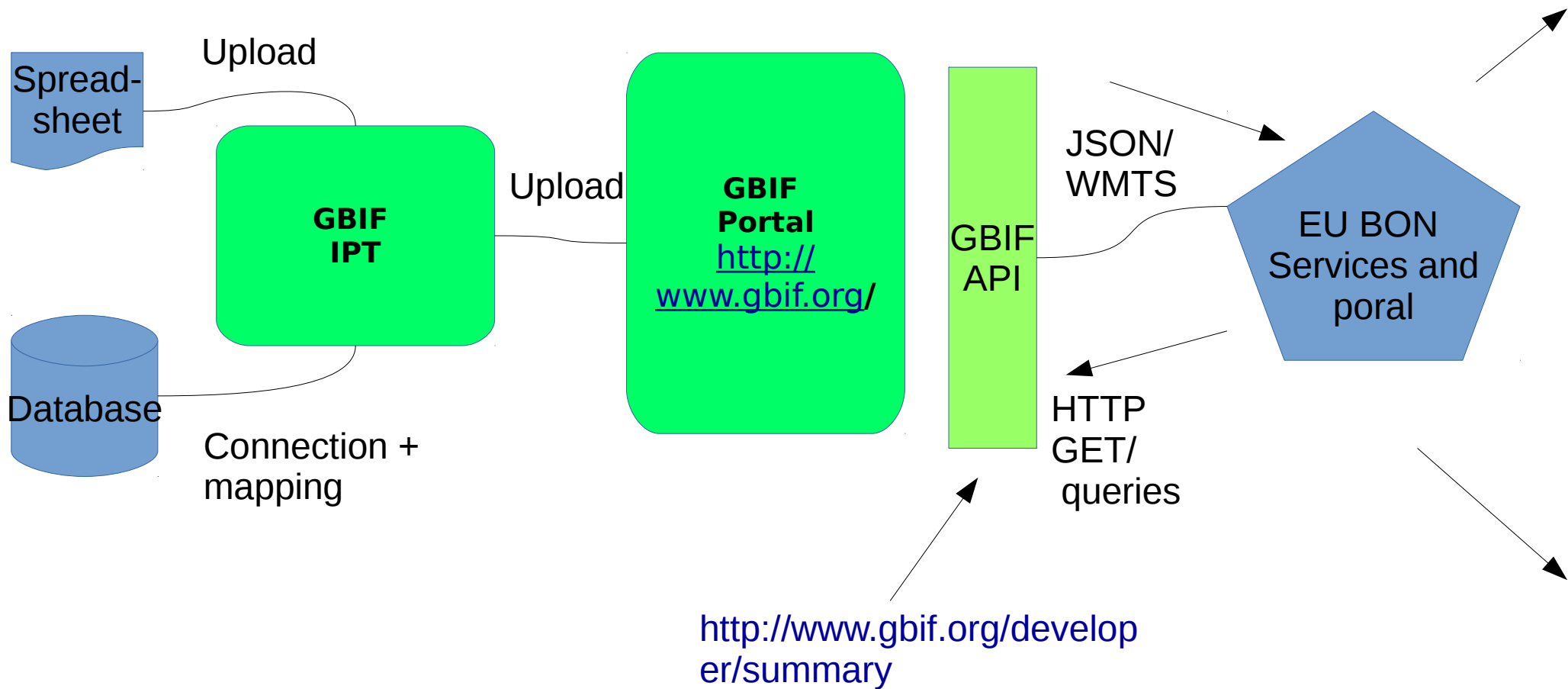
# Complete (possible) architecture



# Complete (possible) architecture



# Complete (possible) architecture





## New features of v2.2. (release candidate)

1. Assignment of **DOI** ('digital object identifier') to the resource (DOI must be provided by DataCite or EZID)
2. Auto-generation of a **citation statement** ( including DOI)
3. '**Basis of record**': mandatory DarwinCore field (used in validation of Darwin Core mapping)



## Edit associated organisation

Organisation name

Organisation's password

Alias

Can publish resources?

DOI registration agency   DATACITE  EZID

Account username

Account password

DOI prefix/shoulder

Account activated

## Edit associated organisation

Organisation name

Organisation's password

Alias

Can publish resources?

DOI registration agency  DATAcite  DATAcite  EZID

Account username

Account password

DOI prefix/shoulder

Account activated

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## Edit associated organisation

Organisation name

Organisation's password

Alias

Can publish resources?

DOI registration agency  DATACITE  EZID

Account username

Account password

DOI prefix/shoulder



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Resource Title [eubon-lepidoterae-test-2015](#)

## Citations

Please enter how your resource should be cited. To ensure your resource is reliably and consistently cited, let the IPT auto-generate the citation for you. An optional bibliography can also be entered, i.e., citations of other resources related to or used in the creation of this resource.

[\[ Auto-generation is OFF - Turn on \]](#)

Resource Citation\*



Resource Citation Identifier

## Section

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[Taxonomic Coverage](#)

[Temporal Coverage](#)

[Keywords](#)

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[Project Data](#)

[Sampling Methods](#)

**Citations**



**INTEGRATED PUBLISHING TOOLKIT (IPT)**  
free and open access to biodiversity data



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Resource Citation\*



(2015): eubon-lepidoterae-test-2015. v1.0. Dataset.

Resource Citation Identifier

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**Citations**