

anaeeThes

élaboration & utilisation

École thématique 2019 - e-Envir - Gif-sur-Yvette

Contexte InfraStructure AnaEE

Experimental platforms



Analysis and measurements

Information systems and models



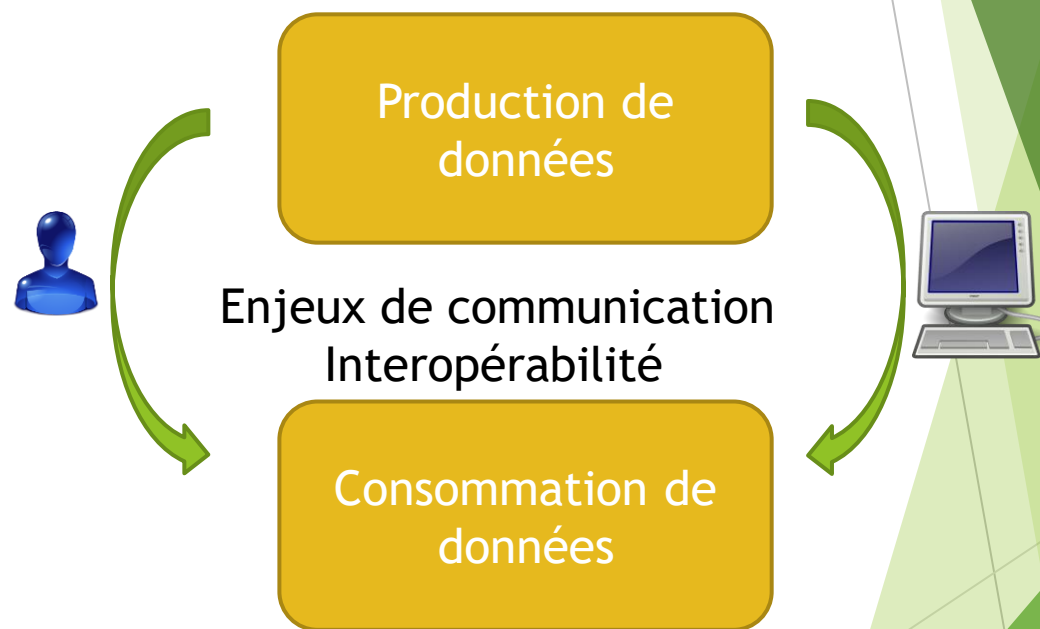
Instruments



In silico

Des ressources ...

Thématiques principales Écosystème et biodiversité



→ Mobilisation des technologies du web sémantique pour la gestion et l'exploitation de la connaissance sur les données, par les machines et un peu les humains ...

Des écosystèmes... et des données très variées

ACBB
grassland & crops



OLA :
Alpine lakes



F-ORE-T :
Forests

PRO :
Organic waste products



► Données physiques

- GHG fluxes (CO₂ ; H₂O, N₂O; CH₄)
- Meteorological data,
- Soil Temp and humidity, texture,

► ... chimiques

- Soil chemical comp (C,N,P,K)
- Water chemical quality parameters (N, C, T, pH, O₂, ..)

► ... biologiques

- Biodiversity : floristic, microbes, worms, phytoplankton, zooplankton, fish
- Molecular barcoding
- Soil microorganisms (metagenomics)
- Biomass assessment

► ... de gestion

- management practices : crop systems, livestock farming systems

- Mobilisation des technologies du web sémantique pour la gestion et l'exploitation de la connaissance sur les données, par les machines et un peu les humains ...

Plan

Pourquoi un thésaurus ?



► Elaboration



► Exploitation



Les applications du thésaurus dans le projet AnaEE

- ▶ Catalogue de métadonnées
- ▶ Normalisation du vocabulaire pour l'ontologie





Catalogue de métadonnées (GEONETWORK)

AnaEE-France Metadata Catalog

Rechercher Visualiser Contribuer Console d'admin

philippe clastre (Administrator) Se déconnecter Français

Pour commencer

Rechercher parmi 59 jeux de données, services et cartes, ...

Parcourir par topics

- Structure 55
- Environnement 1

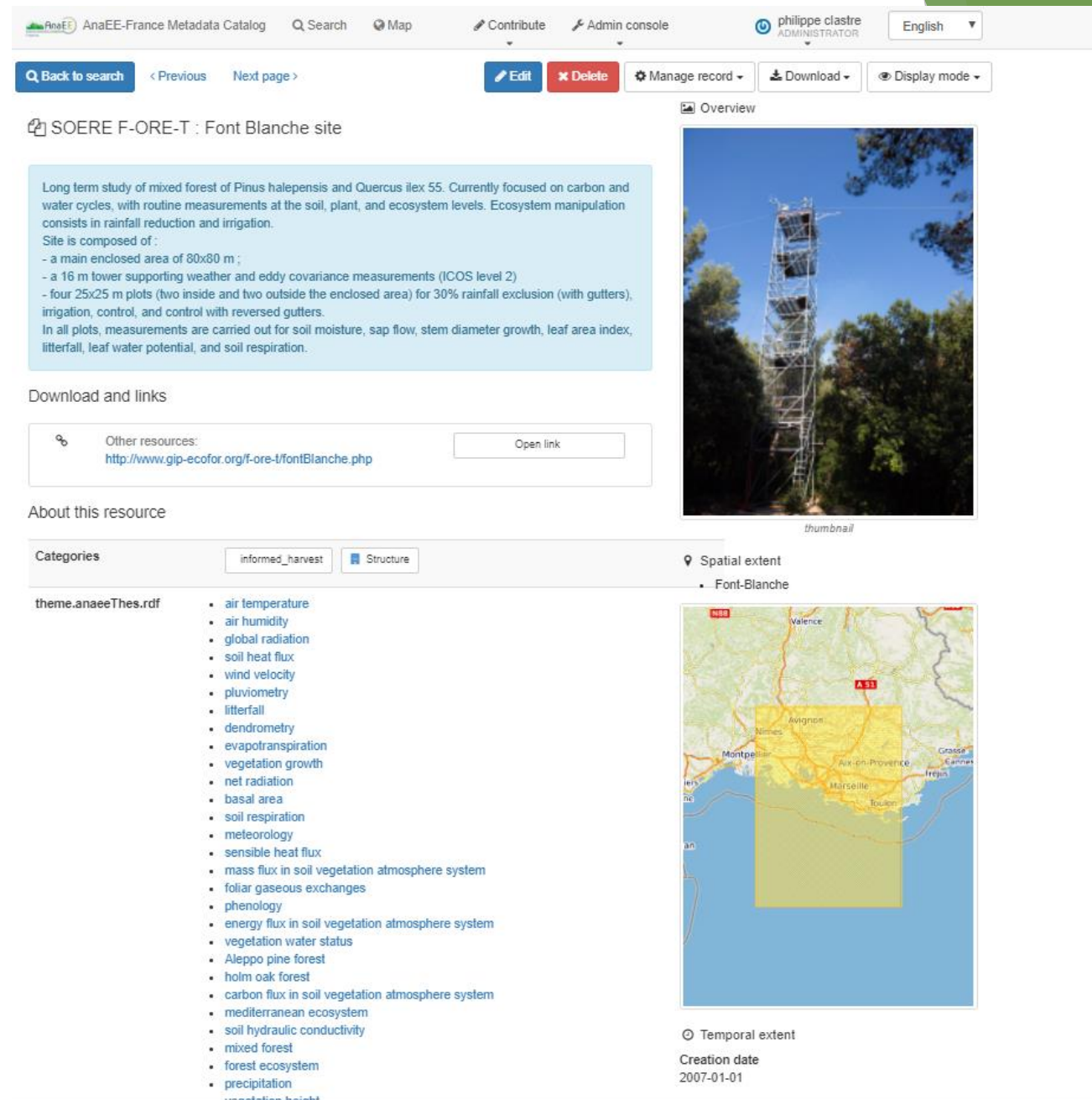
Types de ressource

- Jeu de données 54
- Collection de données 4
- Service 1

Nouveautés Les plus vues

	SOERE F-ORE-T : Site Font Blanche <i>series</i>		Projets d'experimentation sur les écosystèmes utilisant les services de AnaEE-France <i>Jeu de données</i>		Jeux de données provenant des experimentations réalisées par les services de AnaEE-France <i>Jeu de données</i>
	Plateforme de modélisation et services de gestion des données de AnaEE-France <i>Jeu de données</i>		Services AnaEE-France pour l'expérimentation sur les écosystèmes continentaux <i>Jeu de données</i>		La Station des Nouragues <i>Jeu de données</i>
	Le Métatron: un dispositif expérimental pour étudier la dispersion et les métaécosystèmes relatifs aux organismes terrestres <i>Jeu de données</i>		Système d'Information des "Systèmes d'observation et d'expérimentation au long terme pour la recherche en environnement" (SOERE) <i>Jeu de données</i>		Plate-forme de modélisation Sol Virtuel <i>series</i>

Fiche SOERE F-ORE-T (fontblanche)



The screenshot shows the AnaEE-France Metadata Catalog interface. At the top, there is a navigation bar with the logo, search, map, contribute, and admin console options. The user is logged in as 'philippe clastre ADMINISTRATOR'. Below the navigation bar, there are buttons for 'Back to search', 'Previous', 'Next page', 'Edit', 'Delete', 'Manage record', 'Download', and 'Display mode'. The main content area is titled 'SOERE F-ORE-T : Font Blanche site'. It contains a description of the site, a list of resources, and a thumbnail image of a tower in a forest. The 'About this resource' section lists various categories and a detailed list of data types. The 'Spatial extent' section shows a map of the region around Avignon, France, with a yellow box indicating the study area. The 'Temporal extent' section shows the creation date as 2007-01-01.

AnaEE-France Metadata Catalog Search Map Contribute Admin console philippe clastre ADMINISTRATOR English

Q Back to search < Previous Next page > Edit Delete Manage record Download Display mode

SOERE F-ORE-T : Font Blanche site

Overview

Long term study of mixed forest of *Pinus halepensis* and *Quercus ilex* 55. Currently focused on carbon and water cycles, with routine measurements at the soil, plant, and ecosystem levels. Ecosystem manipulation consists in rainfall reduction and irrigation.

Site is composed of :

- a main enclosed area of 80x80 m ;
- a 16 m tower supporting weather and eddy covariance measurements (ICOS level 2)
- four 25x25 m plots (two inside and two outside the enclosed area) for 30% rainfall exclusion (with gutters), irrigation, control, and control with reversed gutters.

In all plots, measurements are carried out for soil moisture, sap flow, stem diameter growth, leaf area index, litterfall, leaf water potential, and soil respiration.

Download and links

Other resources:
<http://www.gip-ecofor.org/f-ore-t/fontBlanche.php> Open link

About this resource

Categories: informed_harvest Structure

theme.anaeeThes.rdf

- air temperature
- air humidity
- global radiation
- soil heat flux
- wind velocity
- pluviometry
- litterfall
- dendrometry
- evapotranspiration
- vegetation growth
- net radiation
- basal area
- soil respiration
- meteorology
- sensible heat flux
- mass flux in soil vegetation atmosphere system
- foliar gaseous exchanges
- phenology
- energy flux in soil vegetation atmosphere system
- vegetation water status
- Aleppo pine forest
- holm oak forest
- carbon flux in soil vegetation atmosphere system
- mediterranean ecosystem
- soil hydraulic conductivity
- mixed forest
- forest ecosystem
- precipitation
- vegetation height

Spatial extent

- Font-Blanche

Temporal extent

Creation date
2007-01-01





Catalogue de métadonnées


Recherche par mot clé (complétion automatique)

Search bar: eucalyptus forest

Navigation: 2 results

Categories

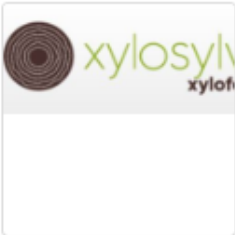
Itatinga



The Itatinga site is a long-term experimentation (started in 2008) that focus mainly on eucalyptus plantations. Our specific objectives are: - To understand the biogeochemical functioning of these fast-growing Eucalyptus plantations, and in particular the coupling between water, carbon, and nutrients cycles; - To use this information to develop eco-

Categories

SOERE F-ORE-T : Xylosylve Pierroton site



The ambition of the XYLOSYLVE platform is twofold, to constitute a visible forest research facility for setting up innovative forestry practices and to build a scientific infrastructure of national and international interest for terrestrial ecology. XYLOSYLVE is an ensemble of three long-term complementary field experiments and laboratory facilities associated with. Each experiment

Laurent AUGUSTO

Navigation: 2 results

Catalogue de métadonnées

Recherche par facettes



ANAEE France metadata Catalog

Search ...

Nothing in basket

Filter

- Expand
- Collapse

KEYWORDS

- Air temperature (2)
- Energy flux in soil vegetation atmosphere system (2)
- Environmental monitoring facilities (2)
- Evapotranspiration (2)
- Structure (2)

10 more

CONTACT FOR THE RESOURCE

- CNRS (1)
- INRA (1)

ECOSYSTEM

- Ecosystem type (2)
 - Mediterranean ecosystem (1)
 - Terrestrial ecosystems (2)
 - Forest (2)
 - Forest ecosystem (2)
 - Forest type (2)

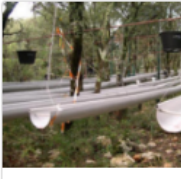
TAXREFPLANTAE

- Biota (1)

DRIVER

- AnaEE driver naming (2)


SOERE F-ORE-T : Puéchabon site



The site comprises three distinct experimental set-ups: (1) a long-term (>10 years) partial throughfall exclusion experiment replicated three times and crossed with a thinning (-30% basal area) experiment aimed at simulating long-term precipitation decrease in accordance with climate change scenario for the Mediterranean area (-30% of precipitation), (2) a total

Jean-Marc LIMOUSIN

SOERE F-ORE-T : Font Blanche site



Long term study of mixed forest of Pinus halepensis and Quercus ilex 55. Currently focused on carbon and water cycles, with routine measurements at the soil, plant, and ecosystem levels. Ecosystem manipulation consists in rainfall reduction and irrigation. Site is composed of : - a main enclosed area of 80x80 m ; - a 16 m tower supporting weather and eddy covariance

Guillaume SIMIONI



Lien thésaurus-ontologie

VocBench Projects Data Metadata SPARQL Tools

Class Property Datatype

- http://ecoinformatics.org/obo/owl#Yard
- http://ecoinformatics.org/obo/owl#YardSquared
- http://ecoinformatics.org/obo/owl#TimeGeometricPrimitive
- http://usefulinc.com/ns/doap#Project
- :%27molePerMass%27
- AbioticEntity
 - Climate**
 - Hydrosphere
 - Lithosphere
 - SuspendedMatter
- AbsorbedDoseOfIonizingRadiation
- AbsorbedDoseRate
- Acceleration
- Action
- AerodynamicResistance

climate (en) http://www.anaee-france.fr/ontology/anaee-france_ontology#Climate

Types:

rdfs:type

- Class

Class axioms:

rdfs:subClassOf

- Abiotic Entity (en)

Lexicalizations:

rdfs:label

- climate

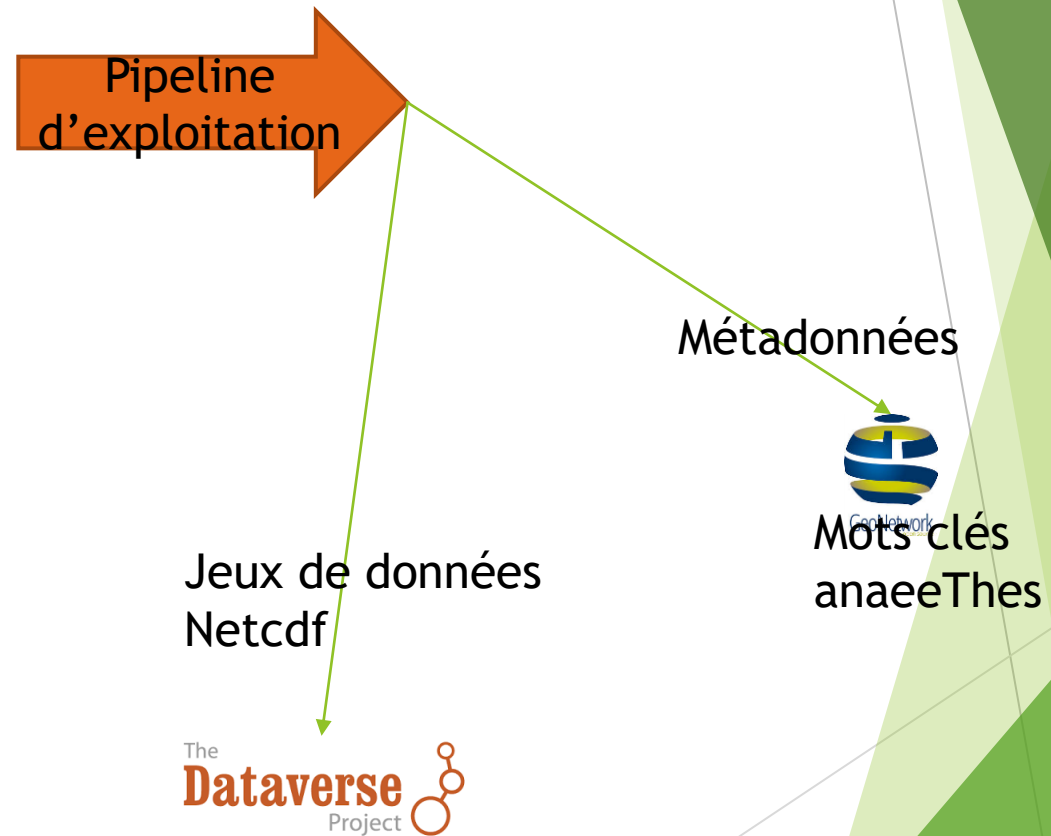
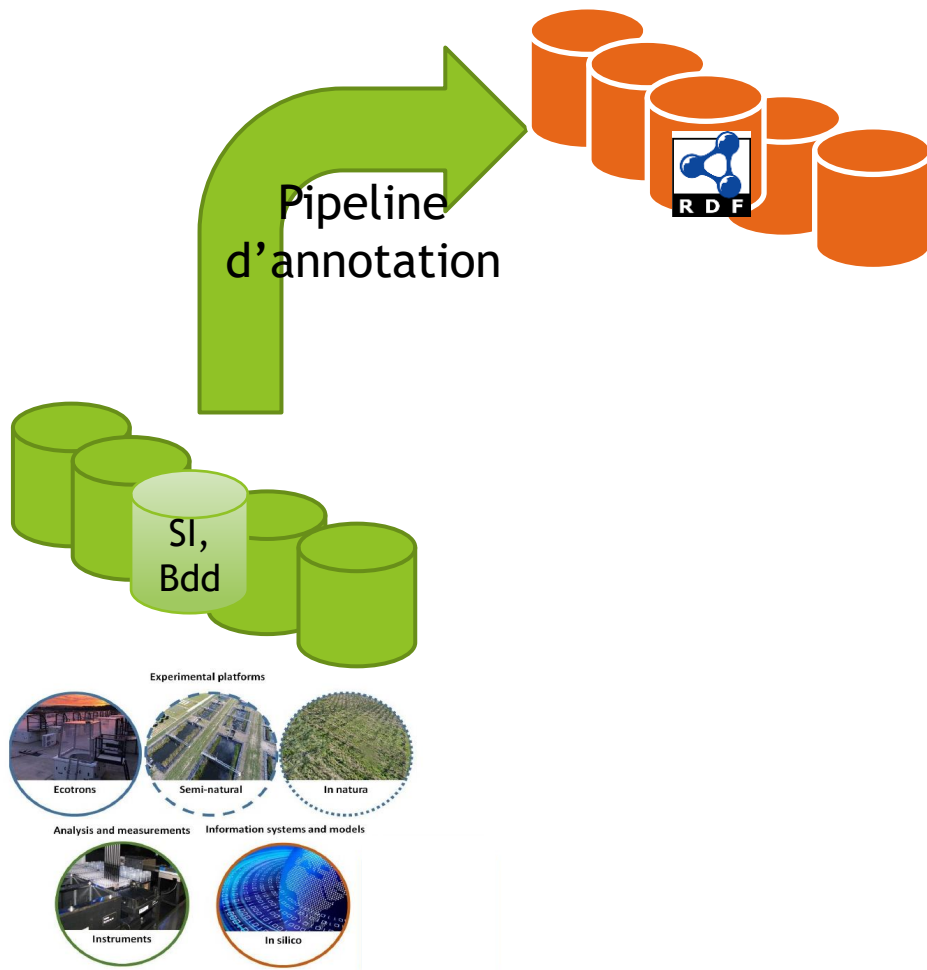
Other properties:

skos:exactMatch

- http://www.anaee-france/thesaurus/c2_2460

Lien thésaurus-ontologie

Du SI, à la publication, via la sémantique



Plan

- Pourquoi un thésaurus ?



Elaboration



- Exploitation





Notions principales

- ▶ Un **thésaurus**, est une liste organisée de termes ... représentant les concepts d'un domaine de la connaissance. (source Wikipedia)
- ▶ Un thésaurus est vu comme un graphe. Les nœuds sont des concepts
- ▶ Un concept possède un identifiant unique dans le thésaurus: URI
(Uniform Resource Identifier)
http://opendata.inra.fr/anaeeThes/c_1409924844911
- ▶ En Skos, un concept est décrit par
 - ▶ Termes (pref et alt label)
 - ▶ Relations (broader, narrower)
 - ▶ Notes
 - ▶ Définitions
 - ▶ Alignements

Class Concept Scheme Collection Property Datatype

abiotic environment (en), environnement abiotique (fr)

- atmosphere (en), atmosphère (fr)
- climate (en), climat (fr)
- hydrosphere (en), hydrosphère (fr)
- lithosphere (en), lithosphère (fr)
- mulch (en), paillis (fr)
- physical and chemical quantity and property (en), quantité et propriété physique ou chimique (fr)

t abiotique

Vue « Vocbench 3 »

abiotic environment (en), environne... http://opendata.inra.fr/anaeeThes/c2_2445

Types:

Top Concept of:

skos:topConceptOf

<http://opendata.inra.fr/anaeeThes/>

Schemes:

skos:inScheme

<http://opendata.inra.fr/anaeeThes/>

Broaders:

Lexicalizations:

skosxl:prefLabel

- abiotic environment
- environnement abiotique

Notes:

skos:definition

- http://opendata.inra.fr/anaeeThes/i_def_928caa78-1904-4c10-8c4d-cc3da0f94757
- http://opendata.inra.fr/anaeeThes/i_def_c2_2445

Other properties:

skos:exactMatch

- <http://www.eionet.europa.eu/gemet/concept/10193>

- ▶ Topconcept AnaEE
- ▶ URI= http://opendata.inra.fr/anaeeThes/c2_2445
- ▶ PrefLabel (fr): environnement abiotique
- ▶ PrefLabel (en): abiotic environment
- ▶ Narrowers: atmosphère, climat, hydrosphère, quantité et propriété physique ...
- ▶ Définition: the non living components of the environment (rocks minerals soil water and climate)



Processus d'élaboration

- ▶ Démarrage en 2013
- ▶ Différents outils utilisés : Pool Party, Tematres, Vocbench
- ▶ Différentes ressources (EARTH, GEMET, LTER, USGS, EnvThes, Agrovoc ...)



- ▶ Assimilation mots clés des SI AnaEE





anaeeThes: Quelques règles ...

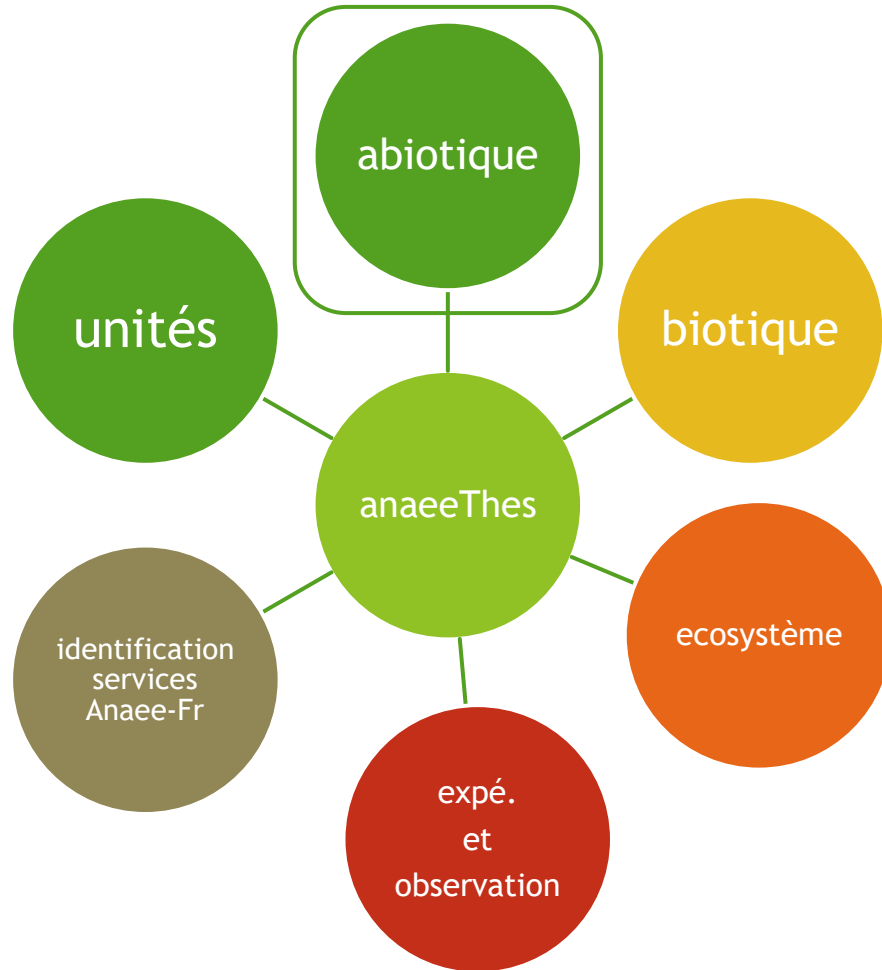
- ▶ Approche « concept atomique »: une idée simple plutôt qu'une phrase comportant plusieurs concepts
- ▶ pas de majuscule
- ▶ pas de pluriel
- ▶ un prefLabel dans chaque langue
- ▶ (Si possible) Une définition
- ▶ (Si possible) Un ou (plus) alignements



anaeeThes: Etat de l'art ...

- ▶ Thésaurus encore en évolution (fr, doublons, définitions, alignement ...)
- ▶ Gestion sous Vocbench (web, collaboratif)
- ▶ Bilingue (en, ~fr)
- ▶ 12 topConcept
- ▶ 3860 concepts (1500 fr)
 - ▶ 360 concepts « unités » OBOE
 - ▶ 748 concepts sols
- ▶ 400 alignements agrovoc
- ▶ 280 alignements GEMET
- ▶ 480 concepts sont définis

anaeeThes: topConcepts majeurs

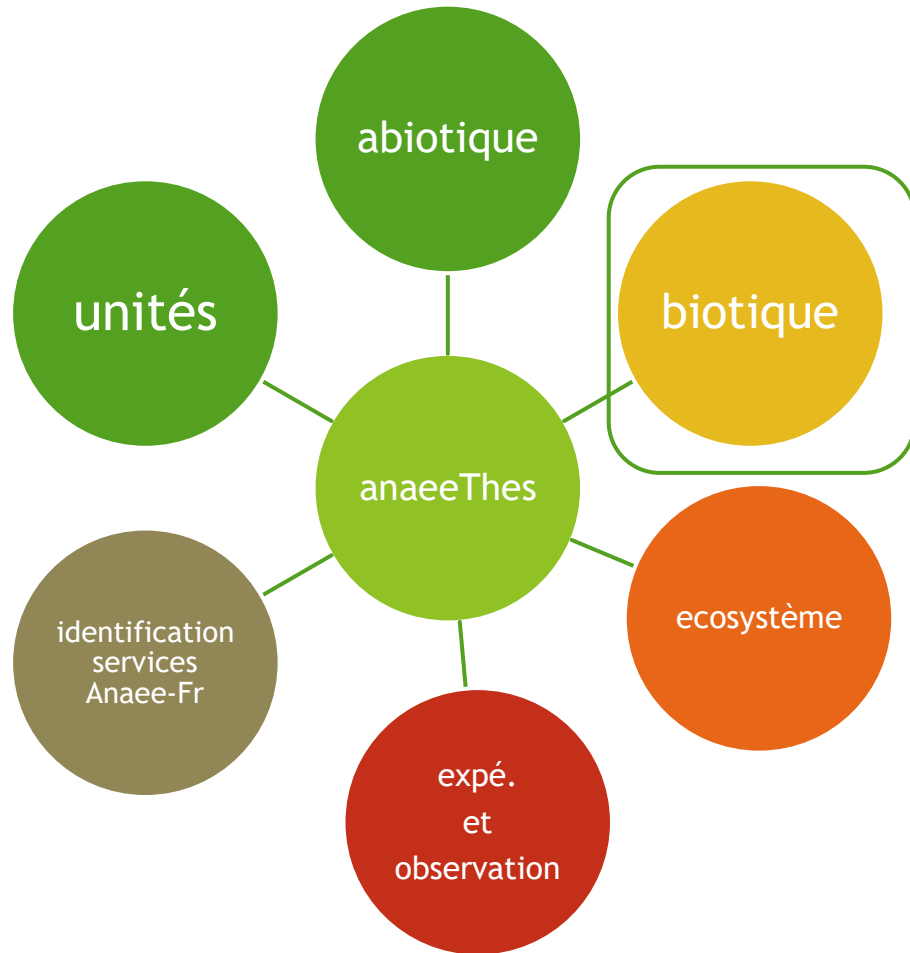


abiotique

the non living components of the environment

atmosphère, climat, lithosphere

anaeeThes: topConcepts majeurs

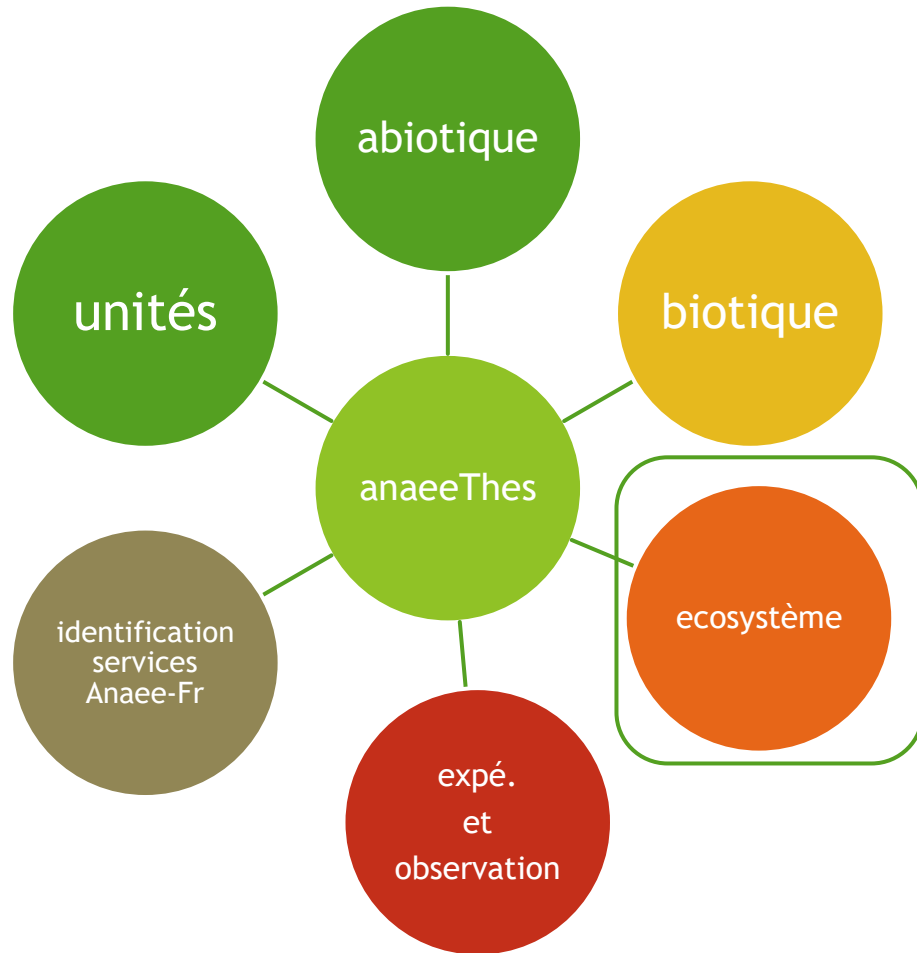


biotique

Living organisms component of the environment.

animal, biodiversité, plante,

anaeeThes: topConcepts majeurs

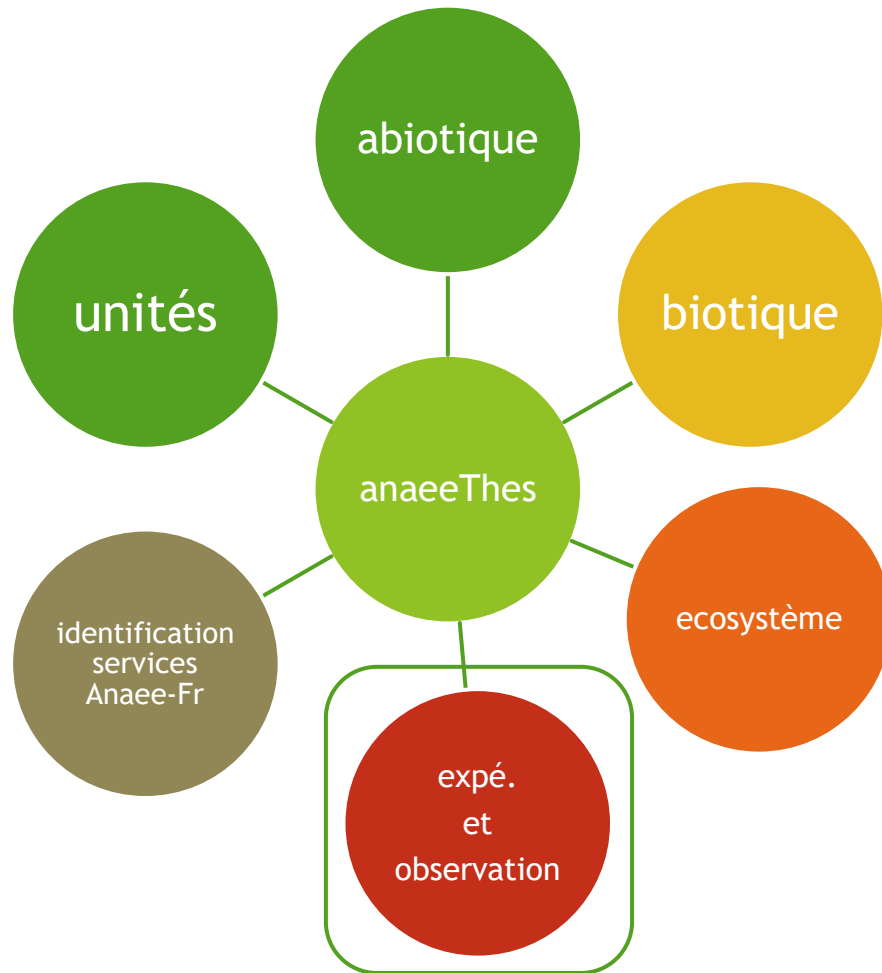


écosystème

A community of organisms and their physical environment interacting as an ecological unit.

Type, fonctionnement, structure

anaeeThes: topConcepts majeurs

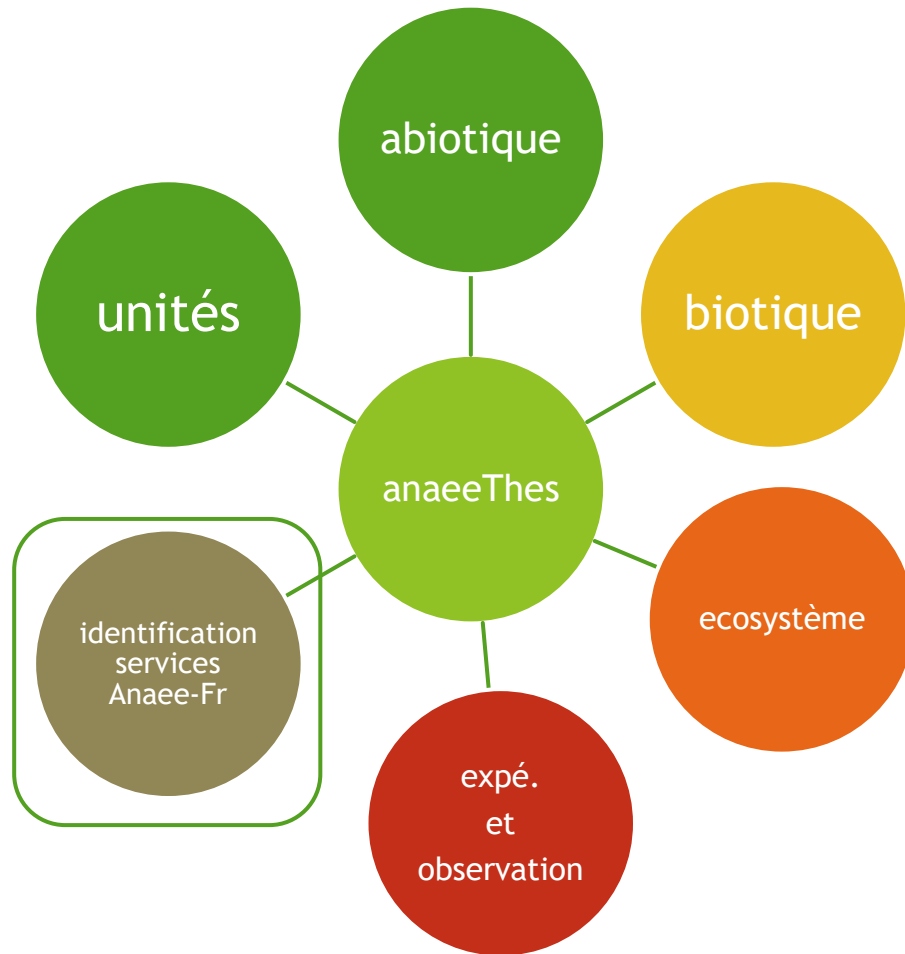


expérimentation et observation

Active processes of collecting information for the description of the studied object or process, either modifying the environment (experimentation) or not (observation).

Instrument, méthode de mesure, protocole

anaeeThes: topConcepts majeurs

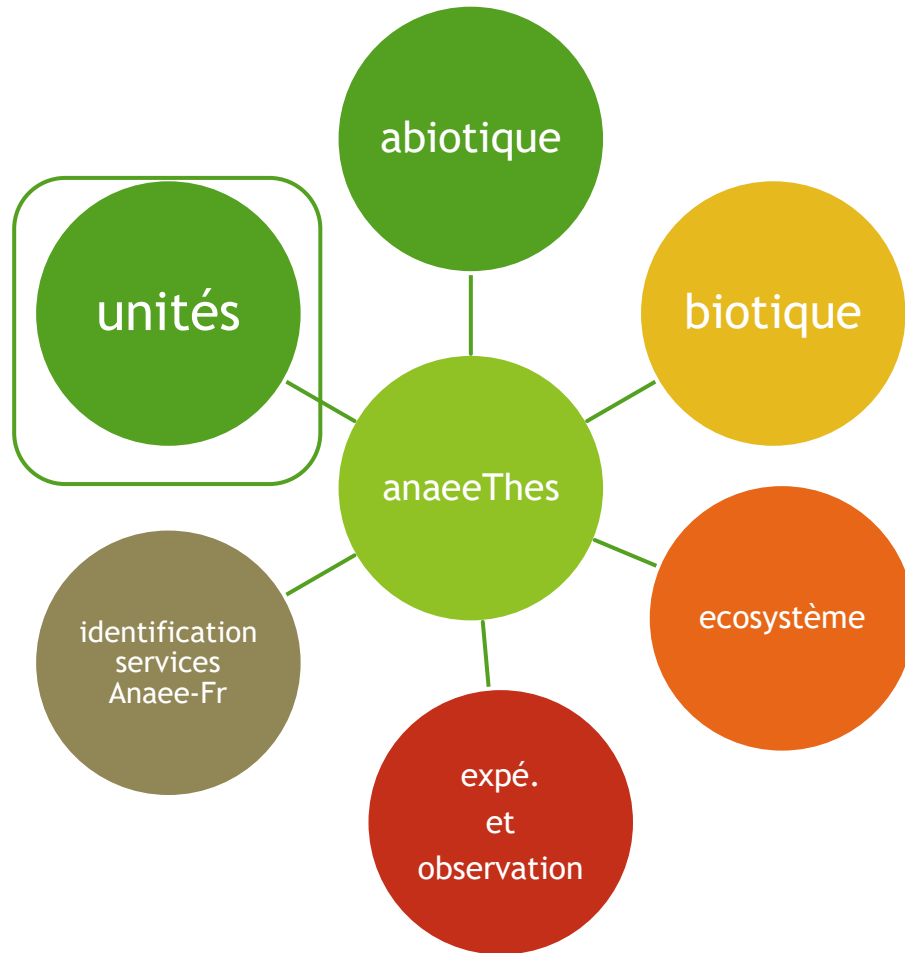


identification des services anaee-France et partenaires

Reference lists of 1) AnaEE-France services and b) AnaEE-France partners as contributors or users

CNRS, INRA, « noms des plateformes », « noms des sites »

anaeeThes: topConcepts majeurs



unités

The base class for physical measurement units

Provenance: ontologie OBOE 1.0

unité de base, unité composée

Plan

- Pourquoi un thésaurus ?



- Elaboration



Exploitation





Alignement

- ▶ S'appuyer sur des référentiels existants = crédibilité
- ▶ Récupérer des définitions
- ▶ Consiste à préciser que le concept A du thésaurus thes1 est le même que le concept B du thésaurus thes2
- ▶ Principe: comparaison des labels
Outillage: application java « AgreementMarkerLight » (AML, github) >



Alignement

- ▶ Se concrétise par de nouveaux triplets
triplets portant sur le concept "aligné"

- ▶ `<skos:definition rdf:resource="http://opendata.inra.fr/anaeeThes/i_def_c_1406133138185"/>`
- ▶ `<skos:exactMatch rdf:resource="http://www.eionet.europa.eu/gemet/concept/5230"/>`
- ▶ `<skos:exactMatch rdf:resource="http://aims.fao.org/aos/agrovoc/c_48"/>`



Alignement

- ▶ Se concrétise par de nouveaux triplets
les autres portant la définition "héritée"

<

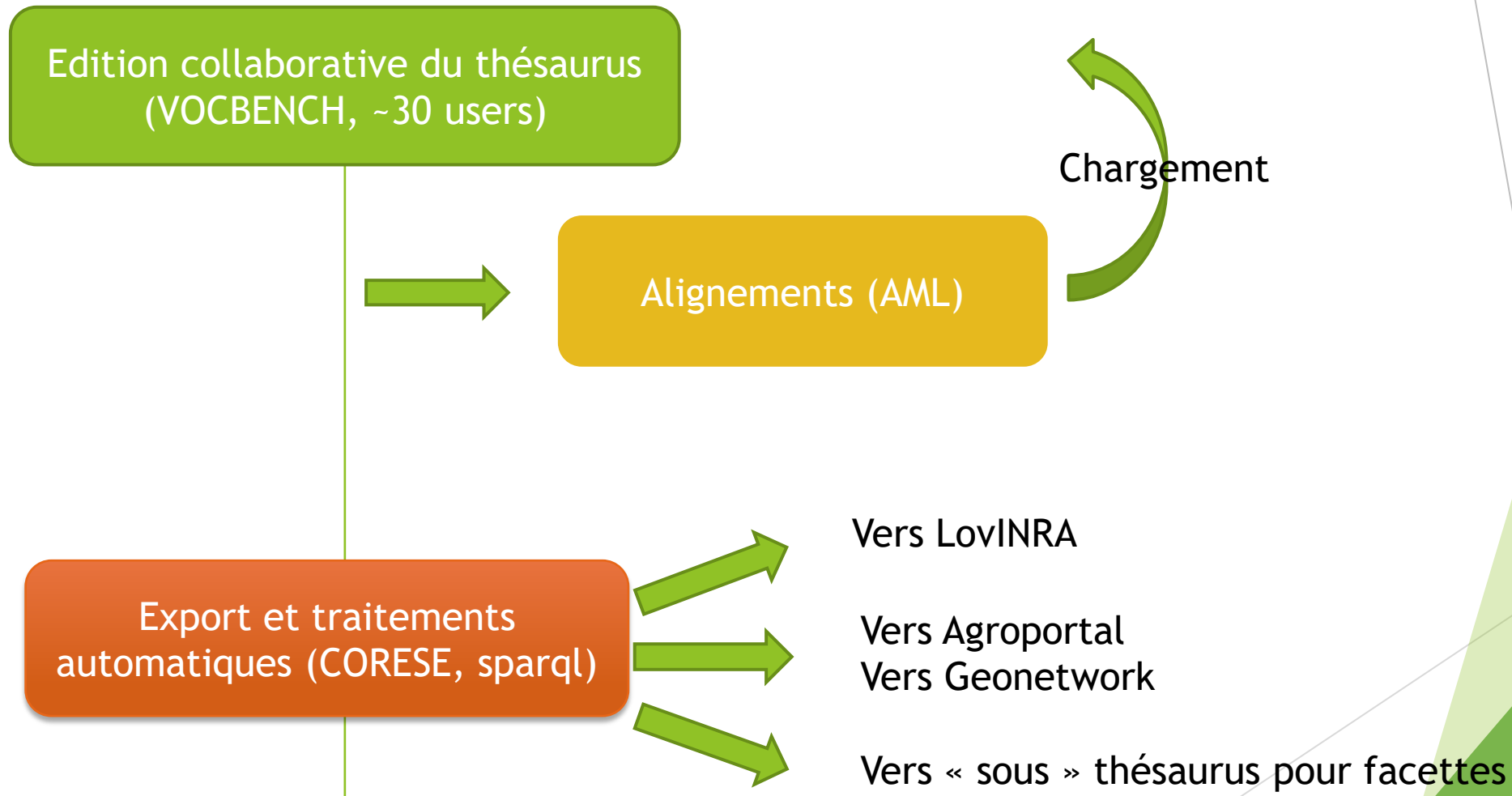
rdf:Description rdf:about="http://opendata.inra.fr/anaeeThes/i_def_c_14061313815_5"/> hasSource <e="http://www.eionet.europa.eu/gemet/gemetThesaur

us </hasSource> "/> rdf:value xml:lang="fr">the interpretative application of microscope magnification to the study of materials that cannot be properly seen by the unaided eye</rdf>

</rdescription ion>



Le processus global de gestion





Publication / Valorisation

- ▶ Publié dans [LovINRA](#) (service IST INRA de valorisation des thesauri et ontologies)
 - ▶ Décrit à l'URL: <http://lovinra.inra.fr/2017/03/13/thesaurus-anaee/>
 - ▶ Partage via dataverse INRA <https://doi.org/10.15454/1.4894016754286177E12>
 - ▶ Déréférencement des URI
 - ▶ i.e: http://opendata.inra.fr/anaeeThes/c2_2445

- ▶ Publié dans Agroportal (service CNRS de mise en ligne)
 - ▶ <http://agroportal.lirmm.fr/ontologies/ANAEETHES>
 - ▶ Parcours (classes), Téléchargement

Lovinra: description

<https://lovinra.inra.fr/>



Thésaurus AnaEE (anaeeThes)

The anaeeThes thesaurus aims at providing a controlled vocabulary for the semantic description of the study of continental ecosystems and their biodiversity. It has been developed within the framework of the **AnaEE-France** infrastructure through an iterative process combining both top down and bottom up approaches: import of concepts from other thesauri and collection of concepts used in the AnaEE data bases and/or modeling platforms.



The thesaurus consists of concepts handled in different main thematic areas:

- Abiotic (atmosphere, climate, hydrosphere, lithosphere, ...)
- Biotic (animals, plants, micro-organisms, biodiversity, ...)
- Chemical compounds
- Experimentation and observation (instrument, method, protocol, measurement, quality, infrastructure ...)
- Ecosystems (type, structure, functioning ...)
- Modeling (formalism, platform, type of model, computer language ...)
- Disciplines (disciplinary and scientific fields)
- Unit (units of the international system, inherited from the **OBOE-standards ontology**)

anaeeThes contains 12 top concepts. It contains nearly 3320 concepts, of which about 1500 are also offered in French. 360 concepts are inherited from the OBOE-standards ontology, while 748 concepts about soils and their characteristics were created using the « **Référentiel pédologique 2008 – AFES** » and « **World reference base for soil resources 2006 – FAO** ». Approximately 400 concepts are mapped to **Agrovoc** and 280 to **Gemet** thesauri. Approximately 480 concepts have a definition. The hierarchy offers up to 8 depth levels.


Although the headings of the first and second levels are now stable, it is still evolving, especially on the issue of translation and mapping/alignment.

The Thesaurus is licensed under the CC-BY 4.0

Download the thesaurus from Data Inra : <https://doi.org/10.15454/1.4894016754286177E12>.

Browse and download it from AgroPortal : <http://agroportal.lirmm.fr/ontologies/ANAEETHES>


LOVINra: publication dataverse (DOI)


 Dataverse Le portail Data Inra sera indisponible du lundi 14 octobre au dimanche 20 octobre en raison d'une intervention technique.

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 **Vocabulary for analysis and experimentation on terrestrial and aquatic ecosystems** Version 3.0

Clastré, Philippe; Pichot, Christian; Chanzy, André, 2018, "Vocabulary for analysis and experimentation on terrestrial and aquatic ecosystems", <https://doi.org/10.15454/1.4894016754286177E12>, Portail Data Inra, V3 [☰ Cite Dataset ▼](#)

[📘 Learn about Data Citation Standards.](#)

Description

The anaeeThes thesaurus aims at providing a controlled vocabulary for the semantic description of the study of continental ecosystems and their biodiversity. It has been developed within the framework of the AnaEE-France infrastructure through an iterative process combining both top down and bottom up approaches: import of concepts from other thesauri and collection of concepts used in the AnaEE data bases and/or modeling platforms. The thesaurus consists of concepts handled in different main thematic areas: Abiotic (atmosphere, climate, hydrosphere, lithosphere, ...); Biotic (animals, plants, micro-organisms, biodiversity, ...); Chemical compounds; Experimentation and observation (instrument, method, protocol, measurement, quality, infrastructure ...); Ecosystems (type, structure, functioning ...); Modeling (formalism, platform, type of model, computer language ...); Disciplines (disciplinary and scientific fields); Unit (units of the international system, inherited from the OBOE-standards ontology) anaeeThes contains 12 top concepts. It contains nearly 3320 concepts, of which about 1500 are also offered in French. 360 concepts are inherited from the OBOE-standards ontology, while 748 concepts about soils and their characteristics were created using the « Référentiel pédologique 2008 – AFES » and « World reference base for soil resources 2006 – FAO ». Approximately 400 concepts are mapped to Agrovoc and 280 to Gemet thesauri. Approximately 480 concepts have a definition. The hierarchy offers up to 8 depth levels. Although the headings of the first and second levels are now stable, it is still evolving, especially on the issue of translation and mapping/alignment.

Subject Biodiversity and Ecology

Keyword ecosystems, biodiversity, experimentation, modelisation

Link to data <http://lovinra.inra.fr/2017/03/13/thesaurus-anaee/>

[Files](#) [Metadata](#) [Terms](#) [Versions](#)

LOVINRA: Service IST de « dérérérencement »



c2_2445

at [AnaEE Thesaurus](#)
http://opendata.inra.fr/anaeeThes/c2_2445



Property	Value
is skos:broader of	<ul style="list-style-type: none">• http://opendata.inra.fr/anaeeThes/c2_2460• http://opendata.inra.fr/anaeeThes/c2_2509• http://opendata.inra.fr/anaeeThes/c2_2695• http://opendata.inra.fr/anaeeThes/c_1403182065227• http://opendata.inra.fr/anaeeThes/c_1437026779187• http://opendata.inra.fr/anaeeThes/c_1437026950671
skos:definition	<ul style="list-style-type: none">• The non-living components of the environment (rocks, minerals, soil, water and climate). (Source: WRIGHT) (en)• the non living components of the environment (rocks minerals soil water and climate) (en)
skos:exactMatch	<ul style="list-style-type: none">• http://www.eionet.europa.eu/gemet/concept/10193
status:hasStatus	<ul style="list-style-type: none">• Published (xsd:string)
is skos:hasTopConcept of	<ul style="list-style-type: none">• http://opendata.inra.fr/anaeeThes/
skos:inScheme	<ul style="list-style-type: none">• http://opendata.inra.fr/anaeeThes/
terms:modified	<ul style="list-style-type: none">• 2016-11-18T10:24:46Z (xsd:dateTime)
skos:prefLabel	<ul style="list-style-type: none">• abiotic environment (en)• environnement abiotique (fr)
skos:topConceptOf	<ul style="list-style-type: none">• http://opendata.inra.fr/anaeeThes/
rdf:type	<ul style="list-style-type: none">• rdfs:Resource• skos:Concept

This page shows information obtained from the SPARQL endpoint at <http://opendata.inra.fr:8080/openrdf-sesame/repositories/anaeeThes>.
[As Turtle](#) | [As RDF/XML](#) | [Browse in Disco](#) | [Browse in Tabulator](#) | [Browse in OpenLink Browser](#)

Agroportal: visite + download



AgroPortal [Browse](#) [Search](#) [Mappings](#) [Recommender](#) [Annotator](#) [Projects](#) [Landscape](#)

AnaEE Thesaurus

[Summary](#) [Classes](#) [Properties](#) [Notes](#) [Mappings](#) [Widgets](#)

Details

ACRONYM	ANAETHES
VISIBILITY	Public
DESCRIPTION	The AnaEE thesaurus aims to provide a controlled vocabulary for the semantic description of the study of continental ecosystems and their biodiversity. It has been developed within the framework of the AnaEE-France infrastructure through an iterative process combining both top down and bottom up approaches: import of concepts from other thesauri and collection of concepts used in the AnaEE data bases and/or modeling platforms.
STATUS	Alpha
FORMAT	SKOS
CONTACT	AnaEE semantics, anaee_thesaurus@inra.fr
HOME PAGE	https://www.anaee-france.fr
PUBLICATIONS PAGE	
DOCUMENTATION PAGE	http://lovinra.inra.fr/2017/03/13/thesaurus-anaee/
CATEGORIES	Agricultural Research, Technology and Engineering, Biodiversity and Ecology, Natural Resources, Earth and Environment
GROUPS	GDR SemanDiv, INRA Linked Open Vocabularies

[Go to the REST API JSON entry](#)

Get my metadata back

[N-Triple](#) [Json-LD](#) [RDF/XML](#)

Metrics ⁷

NUMBER OF CLASSES:	2
NUMBER OF INDIVIDUALS:	3323
NUMBER OF PROPERTIES:	0
MAXIMUM DEPTH:	0
MAXIMUM NUMBER OF CHILDREN:	2
AVERAGE NUMBER OF CHILDREN:	2
CLASSES WITH A SINGLE CHILD:	0
CLASSES WITH MORE THAN 25 CHILDREN:	0
CLASSES WITH NO DEFINITION:	2

Additional Metadata

URI	http://opendata.inra.fr/anaeeThes/
NATURAL LANGUAGE	
VERSION	1.0
RELEASE DATE	2017-03-22T00:00:00+00:00
ENDORSED BY	INRA (http://www.inra.fr/)
HAS DOMAIN	http://data.agroportal.firmm.fr/categories/NATRES
HAS FORMALITY LEVEL	http://w3id.org/nkos/nkostype#thesaurus
HAS LICENSE	
ONTOLOGY SYNTAX	http://www.w3.org/ns/formats/RDF_XML
IS OF TYPE	http://omv.ontoware.org/2005/05/ontology#ApplicationOntology
HAS PRIOR VERSION	ANAETHES/submissions/2
DEPRECATED	false
IS ALIGNED TO	GEMET AGROVOC
PUBLISHER	https://www.anaee-france.fr/en/about-us/introduction-to-anaee-france
IDENTIFIER	http://dx.doi.org/10.15454/1.4894016754286177E12
HAS PART	VANAETHES
ENDPOINT	

Visits [Download as CSV](#)

Month	Visits
May 2016	70
Jun 2016	75
Jul 2016	40
Aug 2016	25
Sep 2016	40
Oct 2016	80
Nov 2016	85
Dec 2016	40
Jan 2017	45
Feb 2017	270
Mar 2017	45
Apr 2017	50
May 2017	40
Jun 2017	75
Jul 2017	190
Aug 2017	40
Sep 2017	75

Conclusions

- ▶ Élément structurant pour la communauté AnaEE → référentiel
- ▶ Thésaurus en constante évolution (fr, def, besoins ontologie)
- ▶ Absence de ressource dédiée = Élaboration longue
- ▶ Nécessité de s'adapter aux évolutions des outils supports
- ▶ Thésaurus réalisable avec compétences « sémantiques » minimales (SKOS)

Perspectives

- ▶ Consolidation (définitions, alignements, traductions)
- ▶ Séparation en plusieurs entités
 - ▶ Branches génériques (écosystèmes, biodiversité, thématiques ...)
 - ▶ Branche spécifique AnaEE-Fr (référentiel de nommage)
 - ▶ Branche unité (source externe)
- ▶ ➔ Vers une publication V2 du thésaurus (mi-2020)

Merci de votre attention

Outils

- ▶ Vocbench 3; [ART Group](#) - [Università degli Studi di Roma 'Tor Vergata'](#)
- ▶ CORESE; INRIA - winmics
- ▶ AML (*AgreementMarkerLight*); LASIGE (FCUL, Lisbon, Portugal) in collaboration with the ADVIS Lab (UIC, Chicago, IL, USA)