Visualiser ses données de metabarcoding avec

MyGOD

Manipulate **y**our **G**enomic **O**bservatory **D**ata

CNRS • SORBONNE UNIVERSITÉ
Station Biologique de Roscoff

ATELIER TECHNIQUE - Mars 2024

MyGOD - Déroulé

- Objectifs et organisation du projet
- Construction et paramétrage de tableaux de bord
- Persistance, partage et publication de tableaux de bord
- Mise en forme et importation de données
- Déploiement
- Bilan & perspectives

MyGOD

Le projet

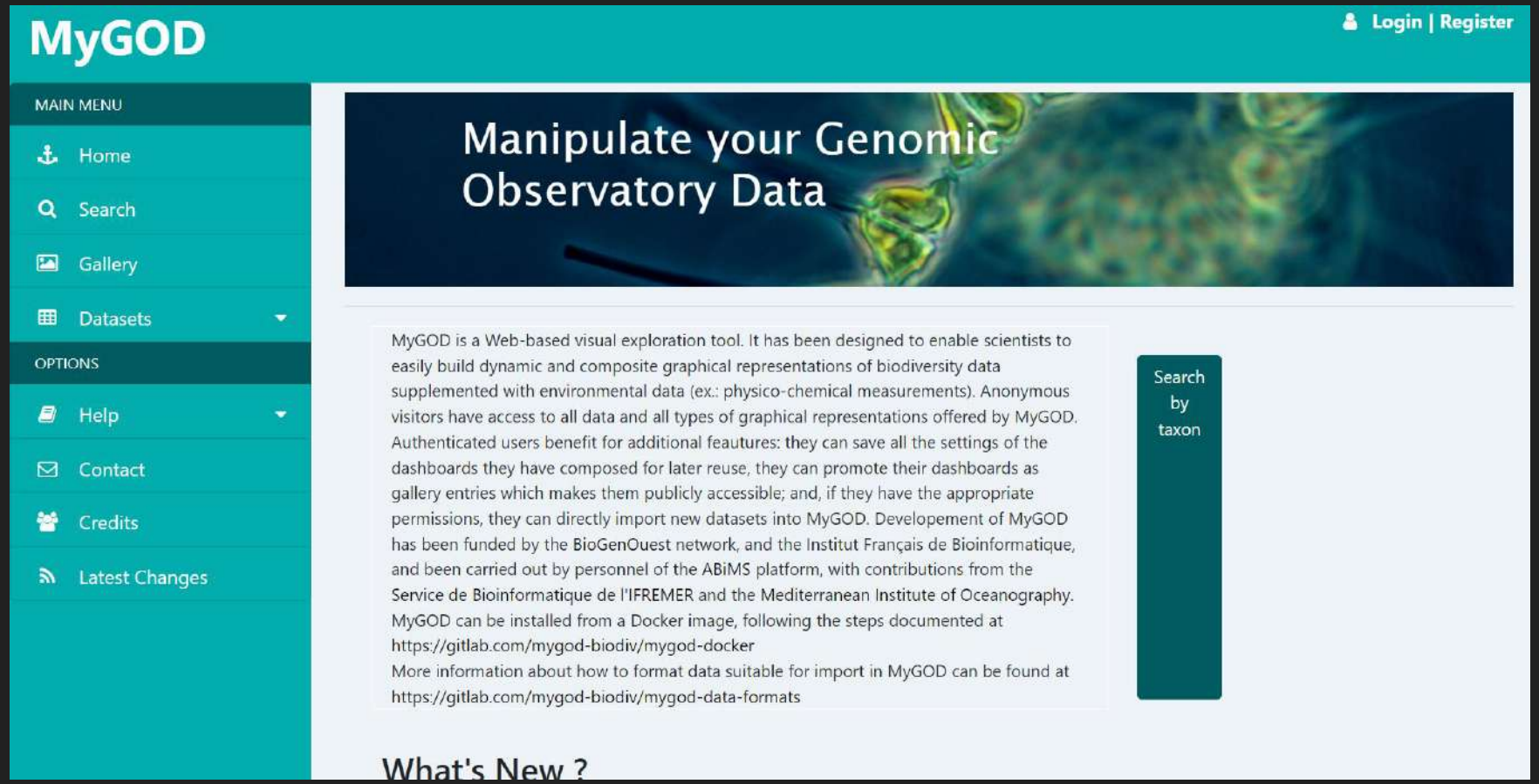
Le Projet MyGOD

- Objectif : fournir un outil de visualisation de données pour les observatoires génomiques (suivis long-terme stationnaires)
- Types de données ciblées : données de metabarcoding complétées par des données physico-chimiques
- Spécifications techniques : outil Web ergonomique proposant des représentations graphiques dynamiquement paramétrables et « composables »
- Ressources : financement Région Bzh via BGO, 2 ANS CDD IE (+ compléments de 5 mois)
- Partenaires principaux : ABiMS + MIO + SeBiMER
- Calendrier : de février 2021à juin 2023

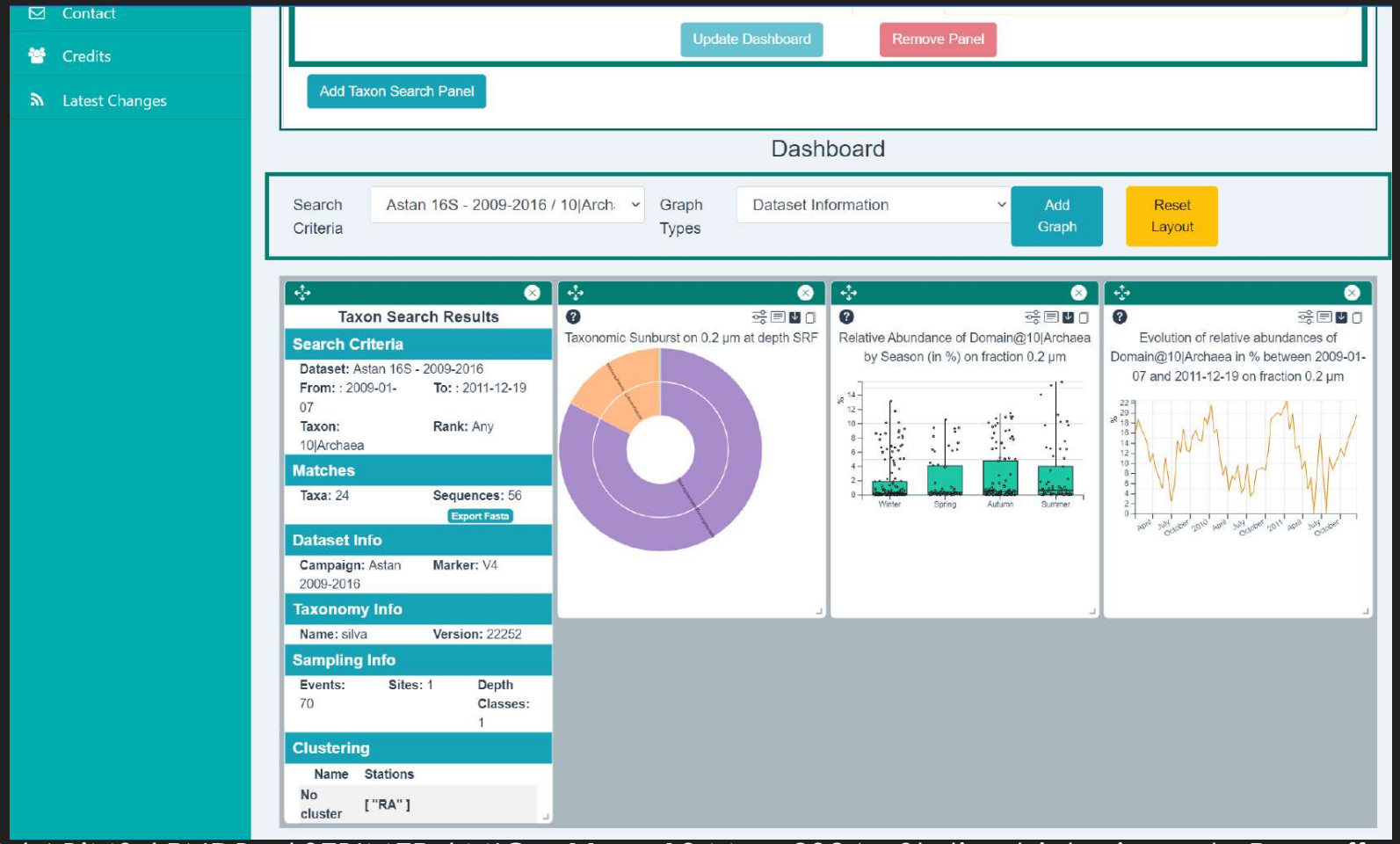
MyGOD

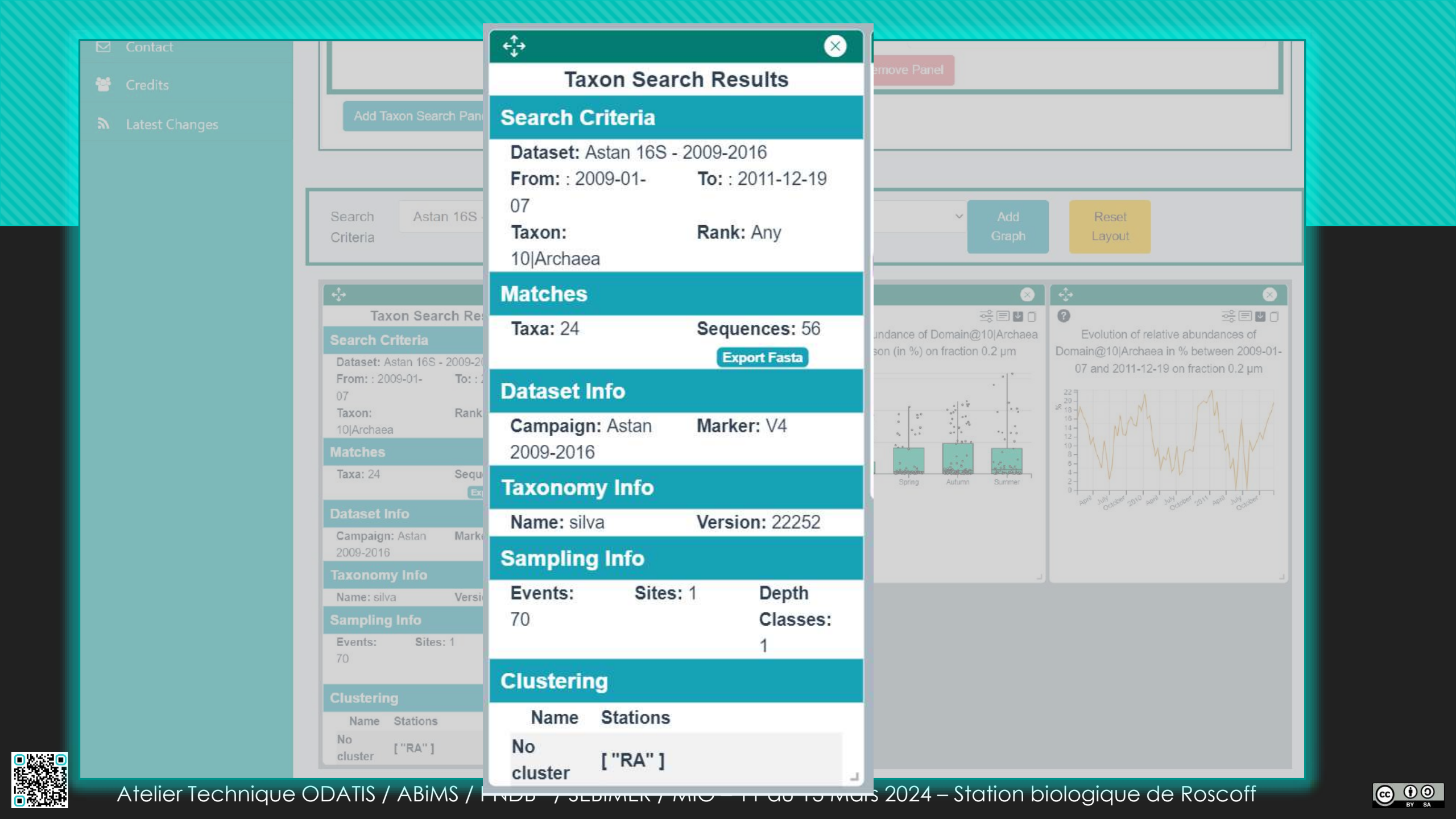
Construction et paramétrage de tableaux de bord

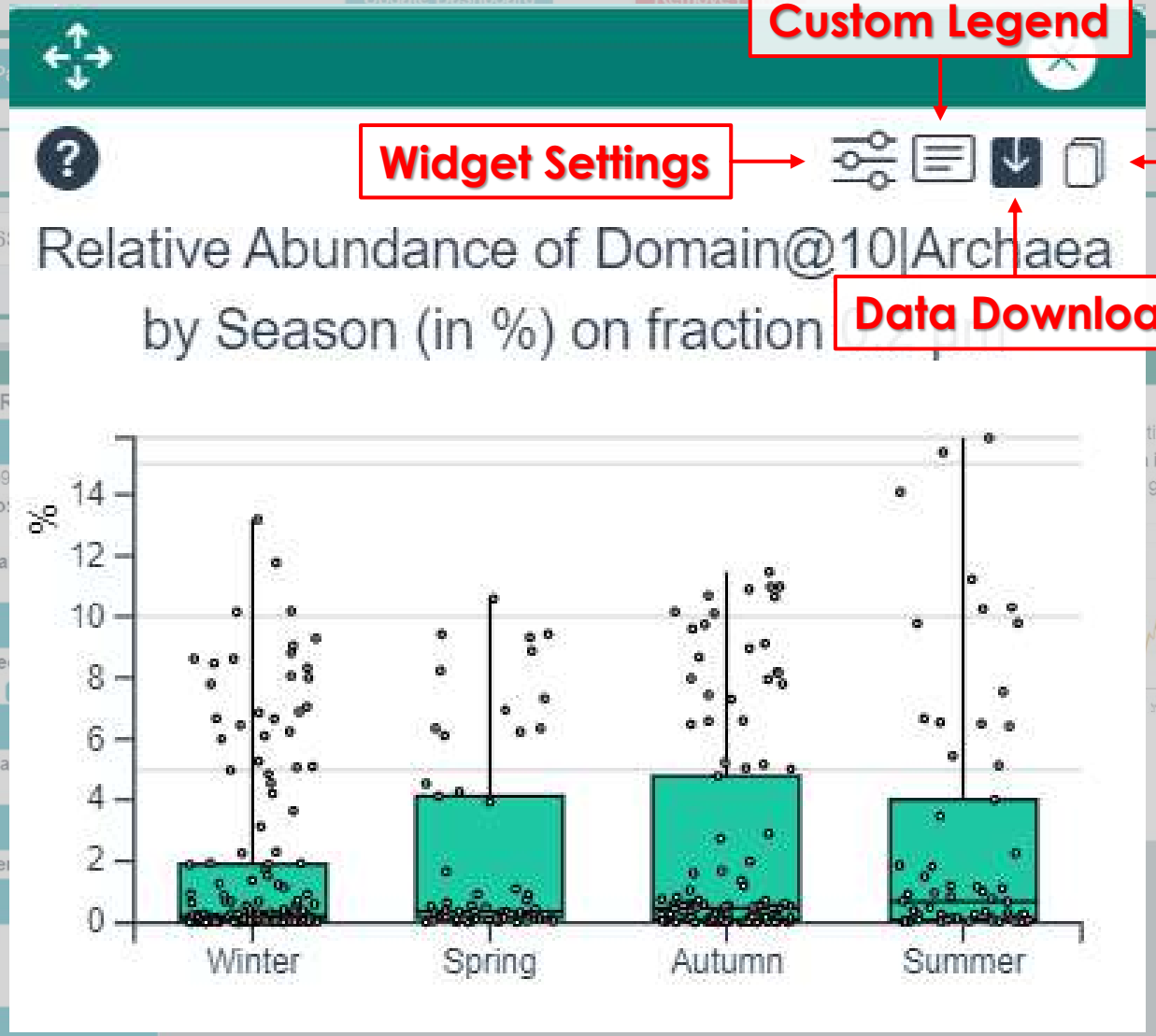
Visualisation – Accès au *dashboard*



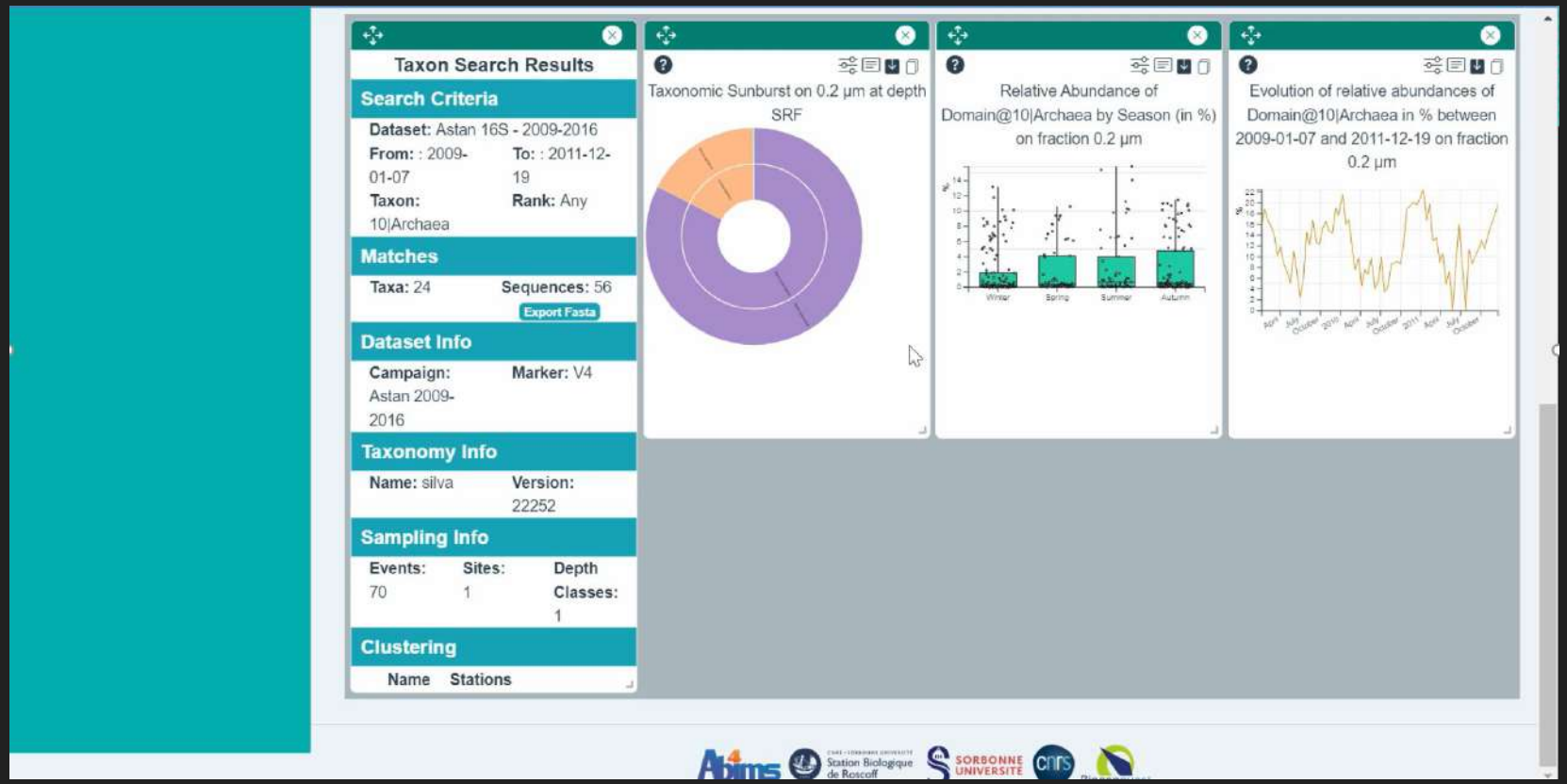
Visualisation – Génération du *dashboard*



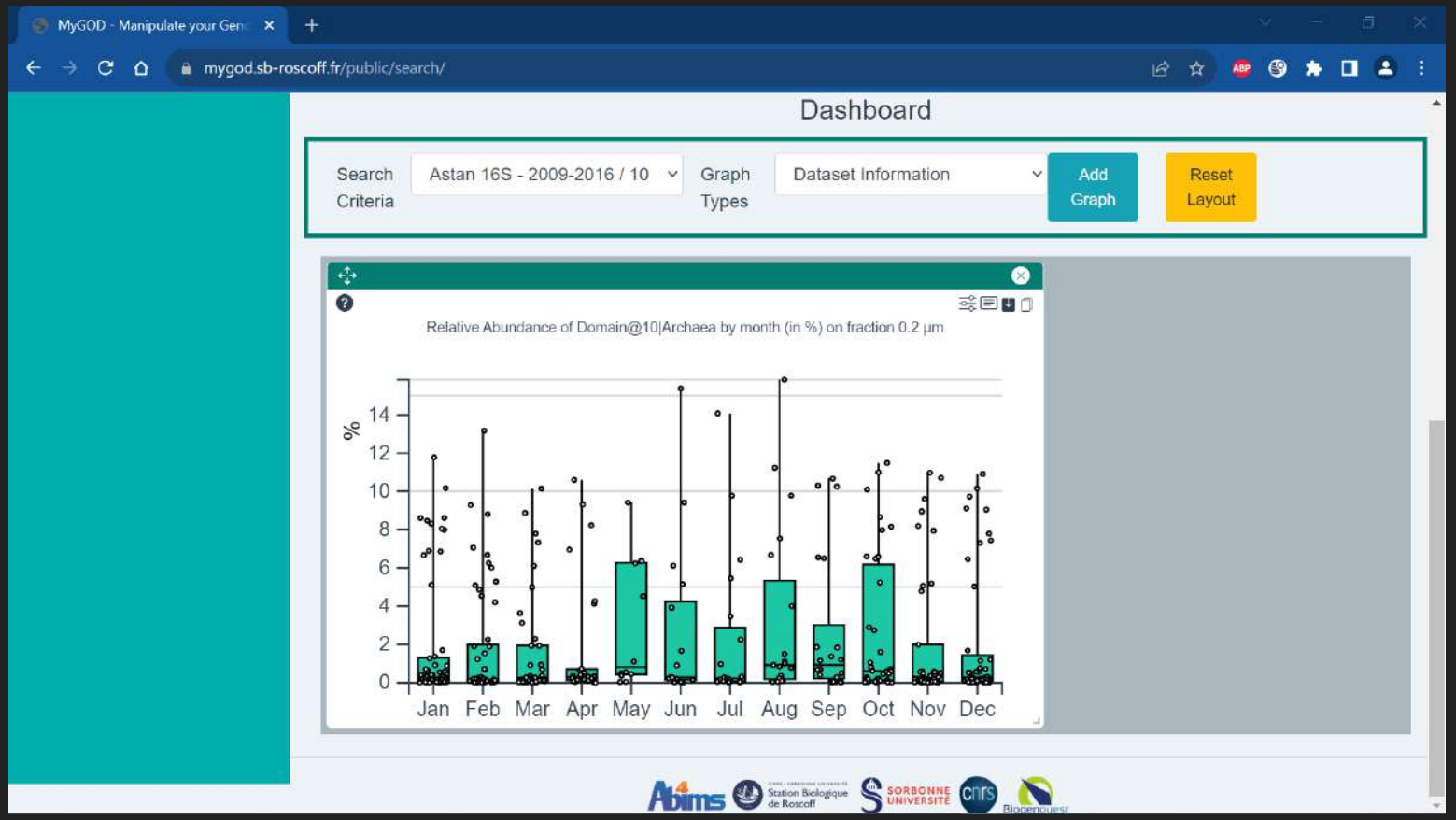

Contact
Credits
Latest Changes
Add Taxon Search Pan
emove Panel
Search Criteria
Astan 16S
Add Graph
Reset Layout
Taxon Search Results
Search Criteria
Dataset: Astan 16S - 2009-2016
From: : 2009-01-07
To: : 2011-12-19
Taxon: 10|Archaea
Rank: Any
Matches
Taxa: 24
Sequences: 56
Export Fasta
Dataset Info
Campaign: Astan 2009-2016
Marker: V4
Taxonomy Info
Name: silva
Version: 22252
Sampling Info
Events: 70
Sites: 1
Depth Classes: 1
Clustering
Name
Stations
No cluster
["RA"]
Evolution of relative abundances of Domain@10|Archaea in % between 2009-01-07 and 2011-12-19 on fraction 0.2 µm


Custom Legend
Widget Settings
Clone Widget
Data Download
Relative Abundance of Domain@10|Archaea
by Season (in %) on fraction
%
14
12
10
8
6
4
2
0
Winter
Spring
Autumn
Summer

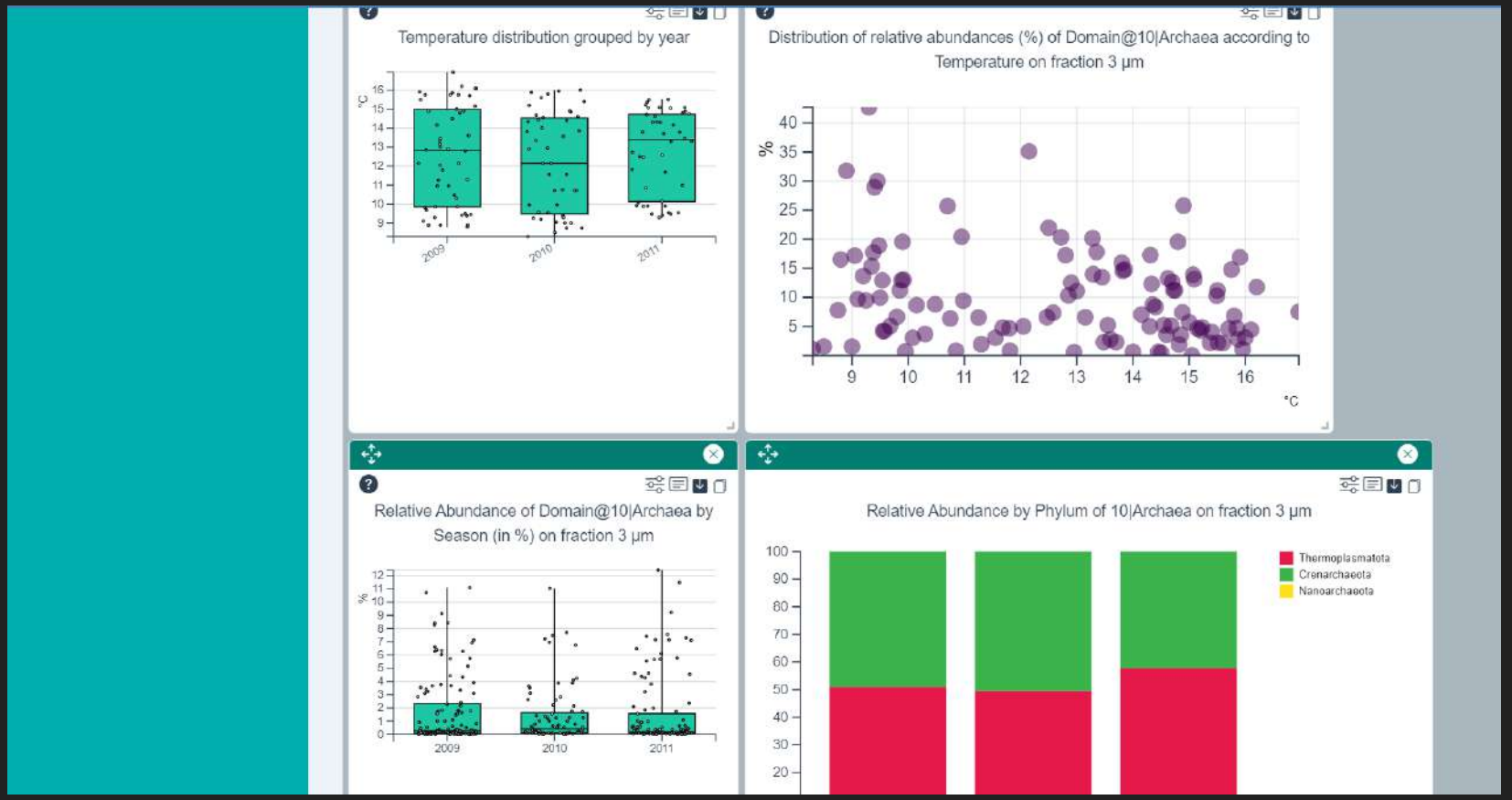
MyGOD – Paramétrage d'un *widget*

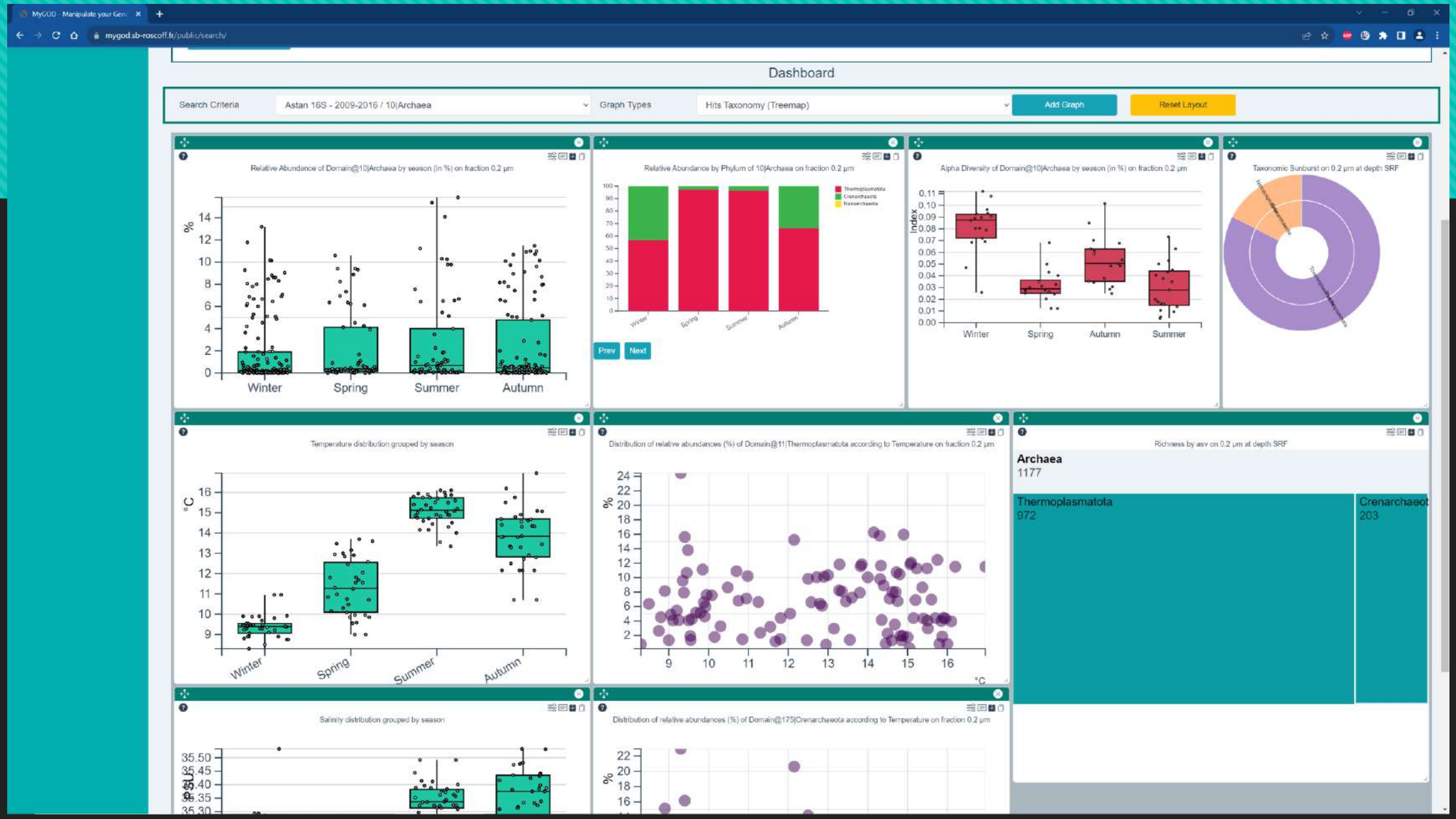


MyGOD – Clonage d'un *widget*



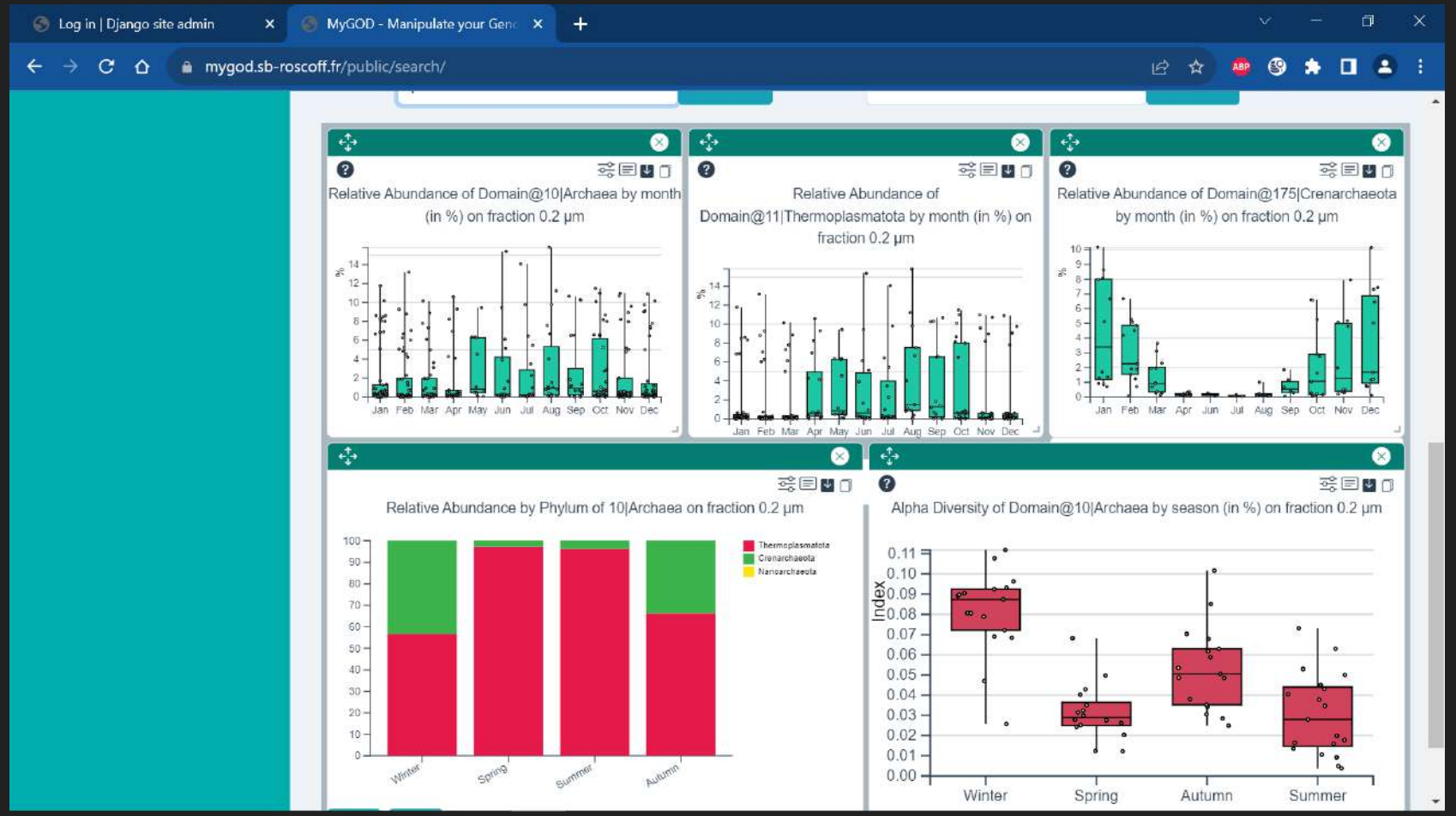
MyGOD – Composition d'un *dashboard*



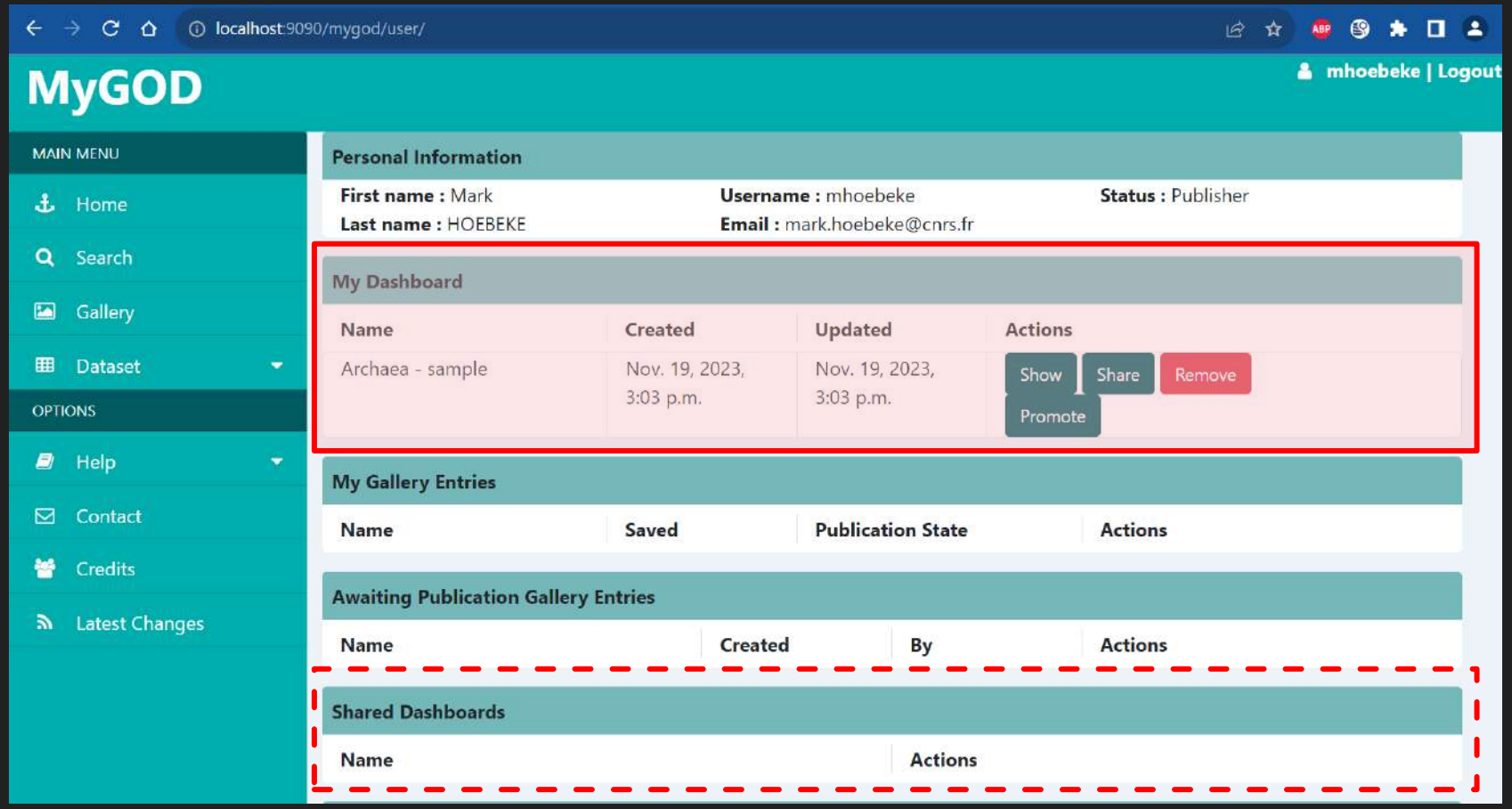

MyGOD - Manipulate your Geno
mygod.sb-roscoff.fr/public/search/
Dashboard
Search Criteria
Astan 16S - 2009-2016 / 10|Archaea
Graph Types
Hits Taxonomy (Treemap)
Add Graph
Reset Layout
Relative Abundance of Domain@10|Archaea by season (in %) on fraction 0.2 µm
%
Winter
Spring
Summer
Autumn
Relative Abundance by Phylum of 10|Archaea on fraction 0.2 µm
Thermoplasmatota
Crenarchaeota
Nanoarchaeota
Prev
Next
Alpha Diversity of Domain@10|Archaea by season (in %) on fraction 0.2 µm
Index
Taxonomic Sunburst on 0.2 µm at depth SRF
Temperature distribution grouped by season
°C
Distribution of relative abundances (%) of Domain@11|Thermoplasmatota according to Temperature on fraction 0.2 µm
Richness by asv on 0.2 µm at depth SRF
Archaea
1177
Thermoplasmatota
972
Crenarchaeot
203
Salinity distribution grouped by season
Distribution of relative abundances (%) of Domain@175|Crenarchaeota according to Temperature on fraction 0.2 µm

MyGOD – Jeux de données multiples

MyGOD – Persistance des *dashboards*

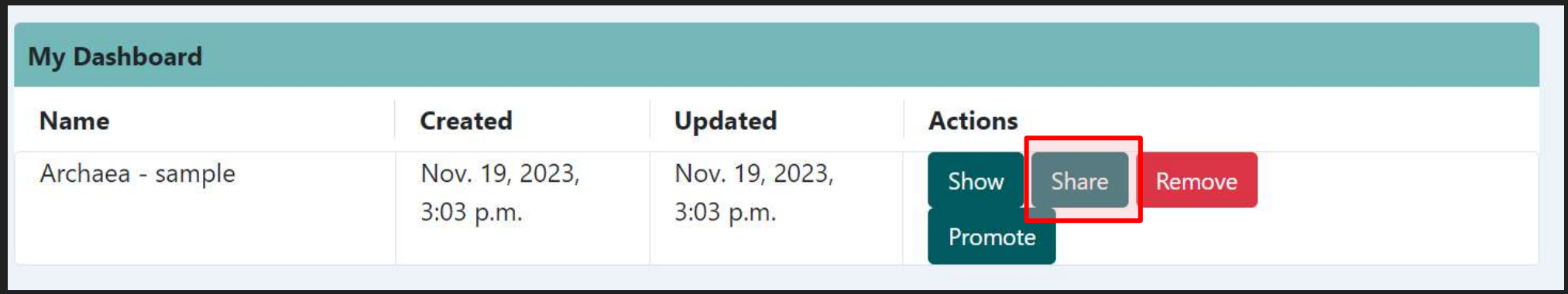


MyGOD –Partage de *dashboards*



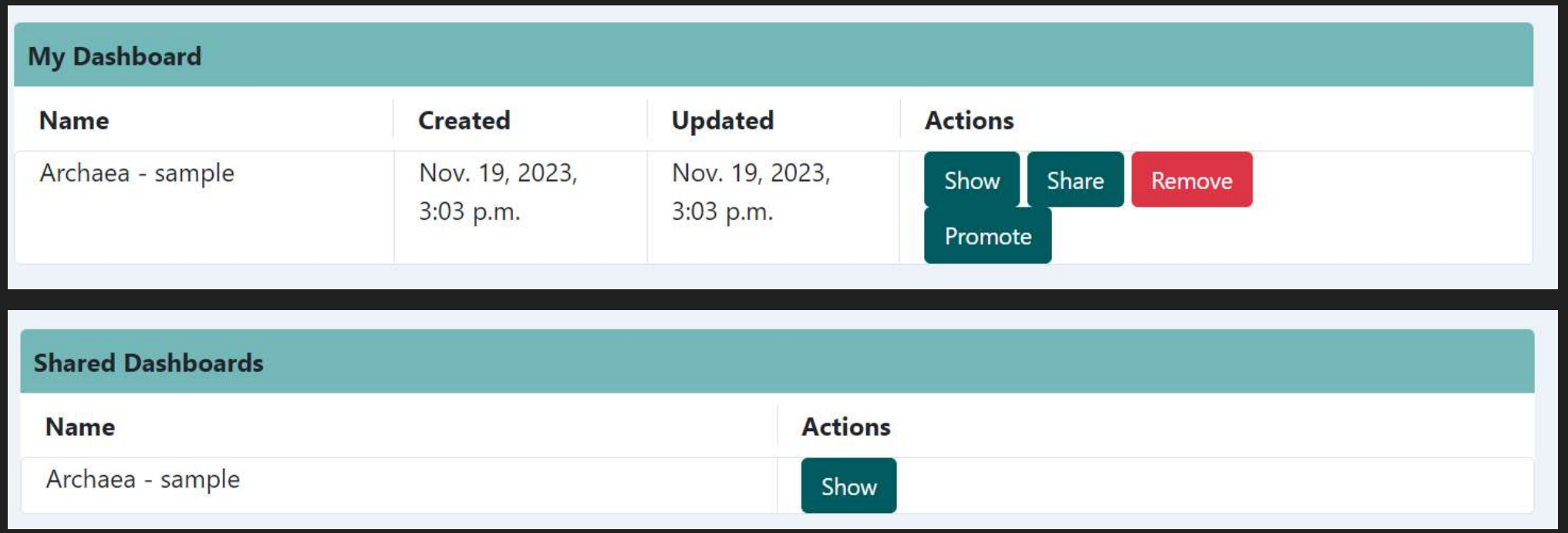
MyGOD –Partage de *dashboards*

Partage avec tous les utilisateurs & toutes les utilisatrices de la même instance de MyGOD



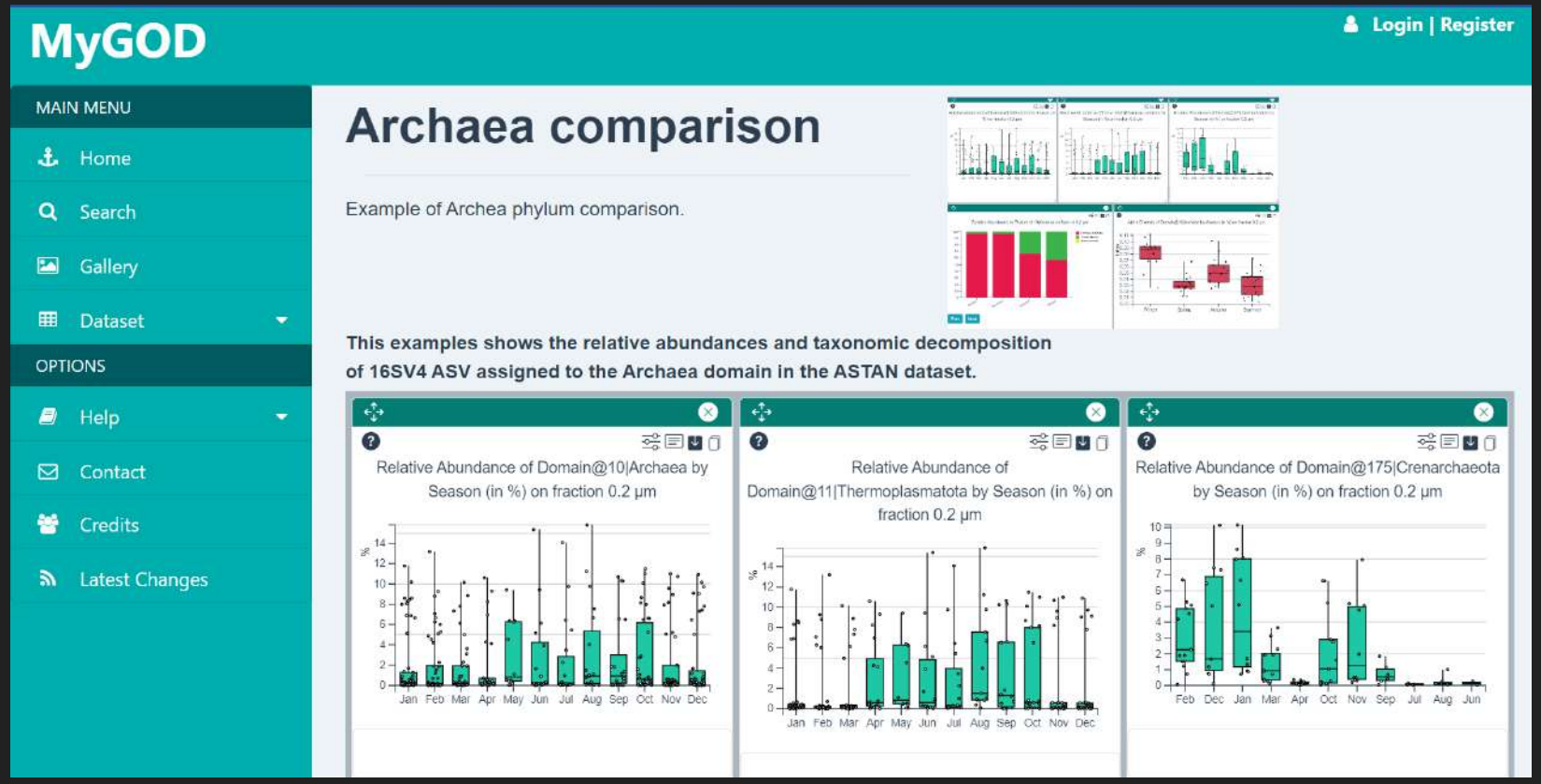
MyGOD –Partage de *dashboards*

Partage avec tous les utilisateurs & toutes les utilisatrices de la même instance de MyGOD



MyGOD –Partage de *dashboards*

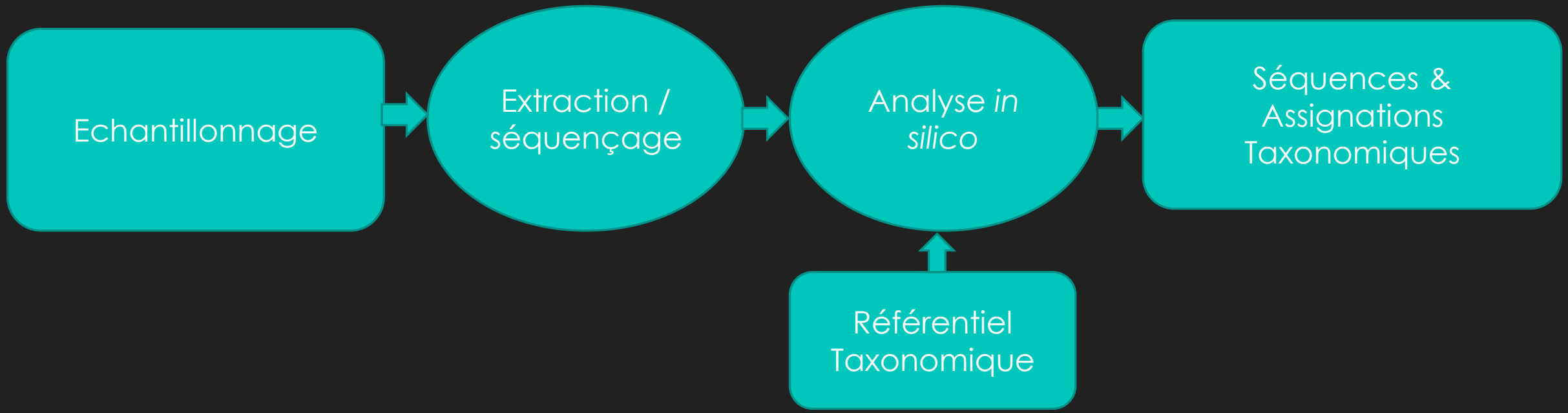
Mise en avant d'un *dashboard* en tant qu'entrée de galerie



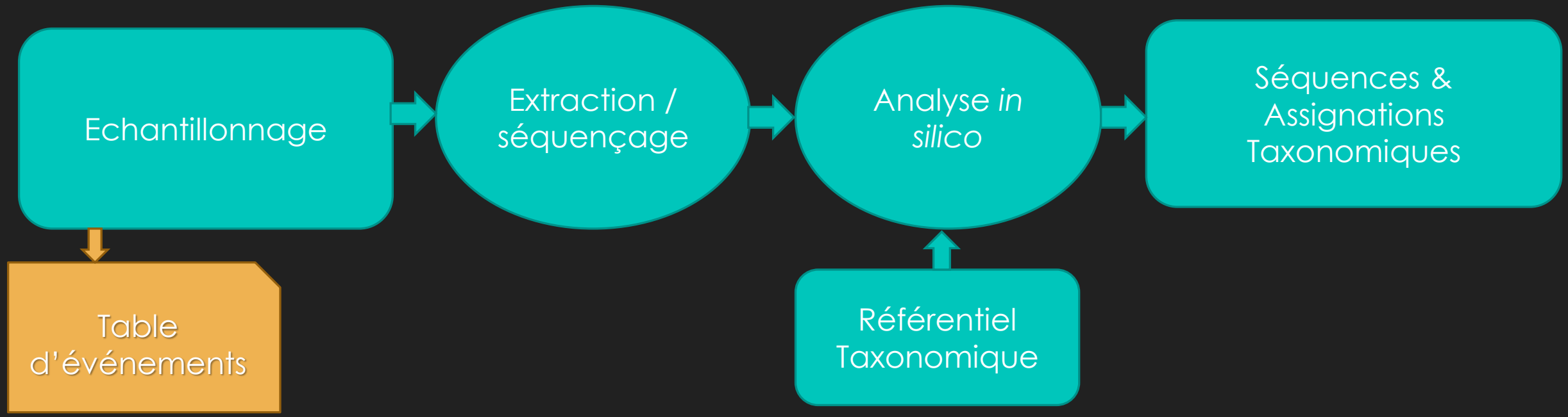
MyGOD

Mise en forme et importation de données

MyGOD – Nature & format des données



MyGOD – Nature & format des données



MyGOD – Nature & format des données

Echantillonnage

Table d'événements

sample_id	station_code	depth_code	depth_min	min_frac_size	date_time_utc_start	latitude_start	longitude_start
RA090107_02	RA	SRF	5	0.2	2009-01-07	48.7716666666667	-3.96833333333333
RA090107_3	RA	SRF	5	3	2009-01-07	48.7716666666667	-3.96833333333333
RA090120_02	RA	SRF	5	0.2	2009-01-20	48.7716666666667	-3.96833333333333
RA090120_3	RA	SRF	5	3	2009-01-20	48.7716666666667	-3.96833333333333
RA090205_02	RA	SRF	5	0.2	2009-02-05	48.7716666666667	-3.96833333333333
RA090205_3	RA	SRF	5	3	2009-02-05	48.7716666666667	-3.96833333333333
RA090218_02	RA	SRF	5	0.2	2009-02-18	48.7716666666667	-3.96833333333333
RA090218_3	RA	SRF	5	3	2009-02-18	48.7716666666667	-3.96833333333333
RA090306_02	RA	SRF	5	0.2	2009-03-06	48.7716666666667	-3.96833333333333
RA090306_3	RA	SRF	5	3	2009-03-06	48.7716666666667	-3.96833333333333

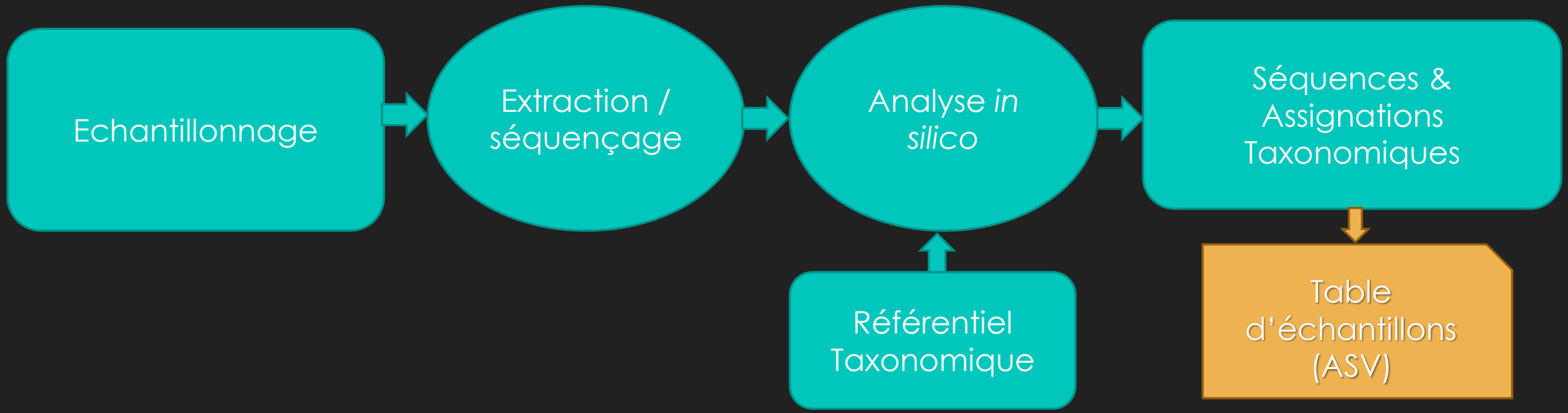
MyGOD – Nature & format des données

Echantillonnage

Table d'événements

sample_id	station_code	depth_code	depth_min	min_frac_size	date_time_utc_start	latitude_start	longitude_start
RA090107_02	RA	SRF	5	0.2	2009-01-07	48.7716666666667	-3.96833333333333
RA090107_3	RA	SRF	5	3	2009-01-07	48.7716666666667	-3.96833333333333
RA090120_02	RA	SRF	5	0.2	2009-01-20	48.7716666666667	-3.96833333333333
RA090120_3	RA	SRF	5	3	2009-01-20	48.7716666666667	-3.96833333333333
RA090205_02	RA	SRF	5	0.2	2009-02-05	48.7716666666667	-3.96833333333333
RA090205_3	RA	SRF	5	3	2009-02-05	48.7716666666667	-3.96833333333333
RA090218_02	RA	SRF	5	0.2	2009-02-18	48.7716666666667	-3.96833333333333
RA090218_3	RA	SRF	5	3	2009-02-18	48.7716666666667	-3.96833333333333
RA090306_02	RA	SRF	5	0.2	2009-03-06	48.7716666666667	-3.96833333333333
RA090306_3	RA	SRF	5	3	2009-03-06	48.7716666666667	-3.96833333333333

MyGOD – Nature & format des données



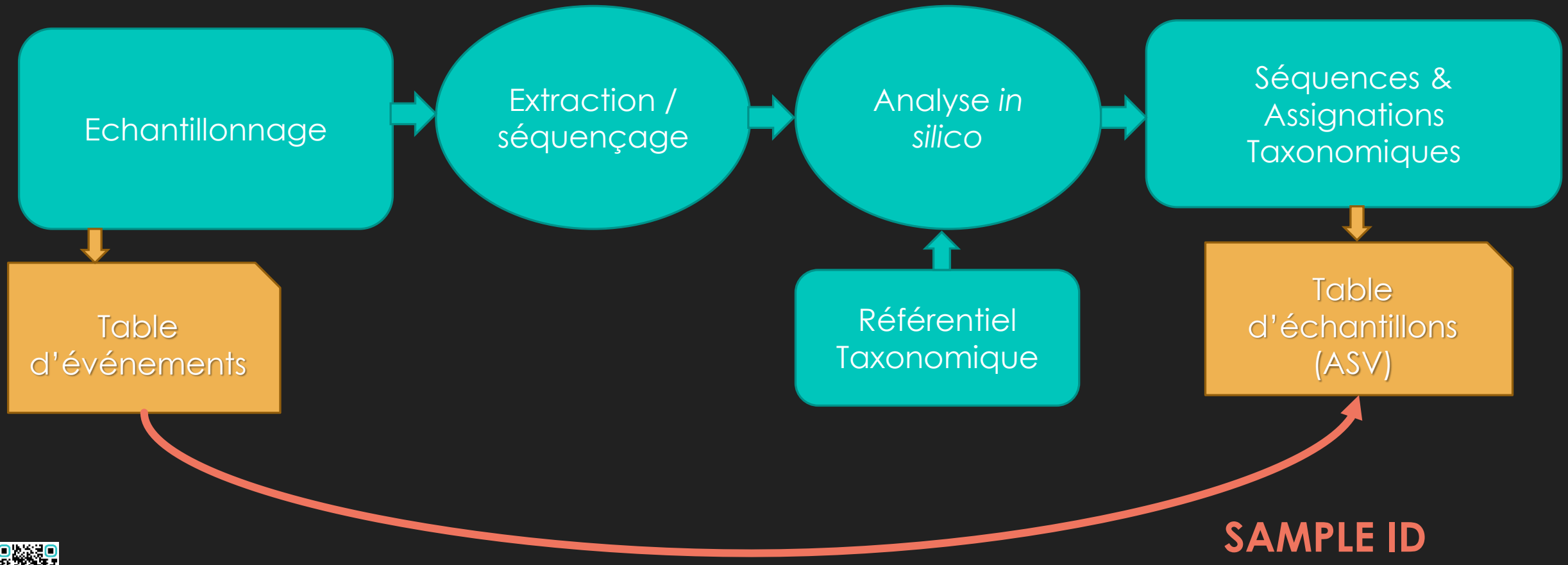
MyGOD – Nature & format des données

amplicon	sequence	taxonomy	taxonomy_score	RA090107_02	RA090107_3	RA090120_02
000c65322f9f735e750835c36e1a1adf78aa9e5d	TACGGAGGGTGCGAGCGTT	Bacteria|Bacteroidota|Bacteroidia|Flavobacteriales|Crocini	100	0	0	0
001fa51ef78fc76baaaf57572f763418b7819f37	TACGGAGGATGCAAGCGTT	Bacteria|Bacteroidota|Bacteroidia|Flavobacteriales|Cryom	100	0	0	0
0028200f0d35ac2e194f1f75b2c010d3a7dc35be	TACCGGCGCCTCAAGTGGT	Archaea|Thermoplasmatota|Thermoplasmata|Marine_Group	99.7	1	0	2
004c0f74a94ef4189cbd8f678c9bed0f0ec12f2b	GACGGAGGATGCAAGTGTT	Bacteria|Cyanobacteria|Cyanobacteriia|Chloroplast|uncultu	99.7	0	0	0
00642ab4b89b87f46f71be328a891046e66fc3c1	TACGGAGGATCCAAGCGTT	Bacteria|Bacteroidota|Bacteroidia|Flavobacteriales|Flavob	100	0	0	0
00868fb83344432c7e757d9ae52283fdb6a4abd	TACGGAGGGTGCGAGCGTT	Bacteria|Proteobacteria|Gammaproteobacteria|Cellvibrional	98.9	0	0	0
00c43e7b6369f3ab56a0c7c22e0c6d6fd0abeb22	TACGGAGGTCCCAAGCGTT	Bacteria|Verrucomicrobiota|Verrucomicrobiae|Arctic97B-4_	100	22	13	5
00e461c03d71af6374c81e25c8c00d1a2071188	TACGGAGACTGCAAGCGTT	Bacteria|Verrucomicrobiota|Verrucomicrobiae|Opitutales|Pu	98.7	0	0	0
01286d77a889468d08f209fabbd0f985e45c5f0c	TACGGAGGGCGCAAGCGTA	Bacteria|Planctomycetota|OM190	99.2	0	0	0
012a5c27f8135c6761bcc74d8201b30e6f678acc	GACGGAGGATGCAAGTGTT	Bacteria|Cyanobacteria|Cyanobacteriia|Chloroplast|uncultu	99.7	0	0	0
012c4646dfd218822a31e52d715439b358f9f5cf	TACGTAGGATGCAAGCGTT	Bacteria|Chloroflexi|Dehalococcoidia|SAR202_clade|mari	100	15	8	12
01353ab44c6786e3a7b113b4fb4c5ddde7447b8	TACGGAGGGGGCTAGCGTT	Bacteria|Proteobacteria|Alphaproteobacteria|Defluviicoccal	99.5	0	0	0
019b4abbaf7bef24f42e86d3e39215cda294a023	TACGTAGGGTGCGAGCGTT	Bacteria|Proteobacteria|Gammaproteobacteria|Burkholderi	100	0	0	0
01b4d6fadb640e7a9252cf863bb5ce74b313ada	TACGGAGGGGGCTAGCGTT	Bacteria|Proteobacteria|Alphaproteobacteria|Rhodospirillale	96.2	0	0	0
01d7f27dcaf3473893ce96ff182d71aa0d091712	TACGGGAGGGGCAAGCGTT	Bacteria|Proteobacteria|Alphaproteobacteria|Rickettsiales|M	79.7	0	0	0
0267030855203e2868e653dab03c524e5b9398	TACGGAGGGTGCAAGCGTT	Bacteria|Proteobacteria|Gammaproteobacteria|Oceanospir	97.6	0	0	0
026b0850250a6372cfa01698e142f31414d70ec	GACGGAGGATGCAAGTGTT	Bacteria|Cyanobacteria|Cyanobacteriia|Chloroplast|uncultu	98.4	0	0	0
0279ad893d997334e55608af715ab61bddfe0da	TACGGAAGGTGCAAGCGTT	Bacteria|Bdellovibrionota|Oligoflexia|Oligoflexales|uncultur	92	0	4	0
02b7b703b4b53ba2b6fd2dbe93f64bda54726f79	TACGGAGGGGACTAGCGTT	Bacteria|Proteobacteria|Alphaproteobacteria|Rhodobacteral	100	0	0	0
02c69a8750e1b49ebedc19ab97eee3bf03c4434	TACGGAGGGTGCAAGCGTT	Bacteria|Proteobacteria|Gammaproteobacteria|Oceanospiril	100	97	52	80
02e1ae672ef7d01a3c817a11bad171f38b0c50e	GACGGAGGATGCAAGTGTT	Bacteria|Cyanobacteria|Cyanobacteriia|Chloroplast	99.7	0	0	0
03078460787d197558165e1d4b7b07636a93e7	TACGAAGGGACCTAGCGTA	Bacteria|Proteobacteria|Alphaproteobacteria|SAR11_clade|	100	470	413	438
033187b1534be69f8bf77f1400ac579a00a88917	GACGGAGGGCGCAAGCGTT	Bacteria|Gemmatimonadota|BD2-11_terrestrial_group|uncu	98.7	0	0	0
03553d8bf45c91fb1791cf20511d7842872de891	TACGTAGGGACCAAGCGTT	Bacteria|Actinobacteriota|Acidimicrobiia|Microtrichales|Mi	99.5	0	0	0
0380500e353cd8dcaf2810c93666ce918f399bf0	TACGGAGGATGCAAGCGTT	Bacteria|Bacteroidota|Bacteroidia|Flavobacteriales|Cryom	99.7	0	0	0
039d44e70e5f0bcf76eeab612d821b07717d0be	TACGGAGGGTACAAACGTT	Bacteria|Planctomycetota|OM190|uncultured_bacterium	99.7	0	0	0
0408ac9edd68a42745fbc236a9a66634af70053	TACGGAGGGTGCGAGCGTT	Bacteria|Proteobacteria|Gammaproteobacteria|Cellvibriona	99.7	0	47	0
0416da962eb18966c4e7e27b527e5cb7afd866f	TACGGAGGGTGCGAGCGTT	Bacteria|Proteobacteria|Gammaproteobacteria|Alteromon	99.5	0	0	0

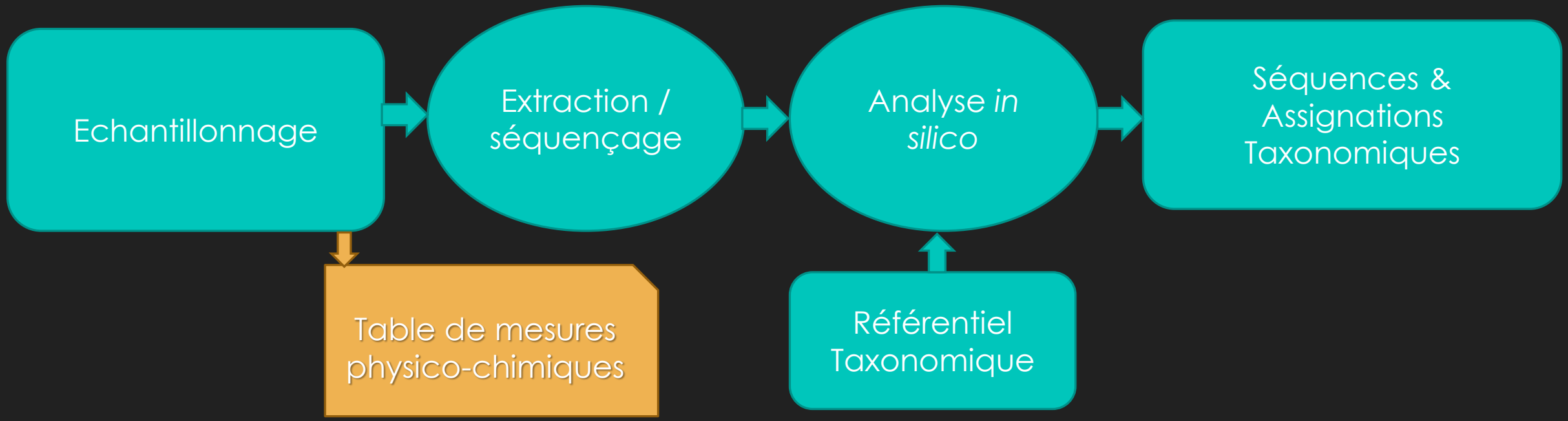
Séquences & Assignations Taxonomiques

Table d'échantillons (ASV)

MyGOD – Nature & format des données



MyGOD – Nature & format des données



MyGOD – Nature & format des données

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// SOMLIT somlit.fr															
// hydro 87e252420568e7d8	2021-02-17	08:34:58													
ID_SITE	DATE	HEURE	COEF_MAREE	MAREE	PROF_TEXT	PROF_NUM	nomSite*	gpsLat*	gpsLong*	T	qT	S	qS	O	
//	(yyyy-mm-dd)	(hh:mm:ss)	-	-	-	m		(wgs84)	(wgs84)	°C		PSU		ml/l	
3	2009-01-07	13:10:00	53.00	PM	F	60.00	Astan	48.7778	-3.9375	9.300	2	35.234	2	6.27	
3	2009-01-07	13:10:00	53.00	PM	S	1.00	Astan	48.7778	-3.9375	9.400	2	35.232	2	6.27	
3	2009-01-20	12:05:00	34.00	PM	F	60.00	Astan	48.7778	-3.9375	9.450	2	35.293	2	6.41	
3	2009-01-20	12:05:00	34.00	PM	S	1.00	Astan	48.7778	-3.9375	9.380	2	35.293	2	6.44	
3	2009-02-05	13:47:00	45.00	PM	F	60.00	Astan	48.7778	-3.9375	8.900	2	35.114	2	6.29	
3	2009-02-05	13:47:00	45.00	PM	S	1.00	Astan	48.7778	-3.9375	8.800	2	35.110	2	6.29	
3	2009-02-18	11:01:00	27.00	PM	F	60.00	Astan	48.7778	-3.9375	8.900	2	35.027	2	6.36	
3	2009-02-18	11:01:00	27.00	PM	S	1.00	Astan	48.7778	-3.9375	8.900	2	35.022	2	6.34	
3	2009-03-06	12:47:00	42.00	PM	F	60.00	Astan	48.7778	-3.9375	9.500	2	34.892	2	6.36	
3	2009-03-06	12:47:00	42.00	PM	S	1.00	Astan	48.7778	-3.9375	9.100	2	34.881	2	6.39	
3	2009-03-20	12:06:00	24.00	PM	F	60.00	Astan	48.7778	-3.9375	9.680	2	34.926	2	6.37	
3	2009-03-20	12:06:00	24.00	PM	S	1.00	Astan	48.7778	-3.9375	9.800	2	999999	1	6.15	
3	2009-04-03	11:00:00	43.00	PM	F	60.00	Astan	48.7778	-3.9375	9.850	2	34.953	2	6.49	
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3	2009-05-04	13:37:00	60.00	PM	F	60.00	Astan	48.7778	-3.9375	11.250	2	35.067	2	6.56	
3	2009-05-04	13:37:00	60.00	PM	S	1.00	Astan	48.7778	-3.9375	11.300	2	35.065	2	6.62	
3	2009-05-18	11:34:00	38.00	PM	F	60.00	Astan	48.7778	-3.9375	11.800	2	35.136	2	6.28	
3	2009-05-18	11:34:00	38.00	PM	S	1.00	Astan	48.7778	-3.9375	12.050	2	35.134	2	6.28	
3	2009-06-02	12:54:00	57.00	PM	F	60.00	Astan	48.7778	-3.9375	12.850	2	35.221	2	6.17	
3	2009-06-02	12:54:00	57.00	PM	S	1.00	Astan	48.7778	-3.9375	13.000	2	35.215	2	6.19	
3	2009-06-16	10:34:00	46.00	PM	F	60.00	Astan	48.7778	-3.9375	13.150	2	35.277	2	6.12	
3	2009-06-16	10:34:00	46.00	PM	S	1.00	Astan	48.7778	-3.9375	13.600	2	35.262	2	6.17	
3	2009-07-01	12:02:00	49.00	PM	F	60.00	Astan	48.7778	-3.9375	14.150	2	35.314	2	6.25	
3	2009-07-01	12:02:00	49.00	PM	S	1.00	Astan	48.7778	-3.9375	14.500	2	35.309	2	6.32	
3	2009-07-16	10:39:00	48.00	PM	F	60.00	Astan	48.7778	-3.9375	14.900	2	35.325	2	5.96	
3	2009-07-16	10:39:00	48.00	PM	S	1.00	Astan	48.7778	-3.9375	15.000	2	35.323	2	5.96	
3	2009-07-31	12:27:00	36.00	PM	F	60.00	Astan	48.7778	-3.9375	15.150	2	35.314	2	5.63	
3	2009-07-31	12:27:00	36.00	PM	S	1.00	Astan	48.7778	-3.9375	15.700	2	35.323	2	5.66	

MyGOD – Nature & format des données

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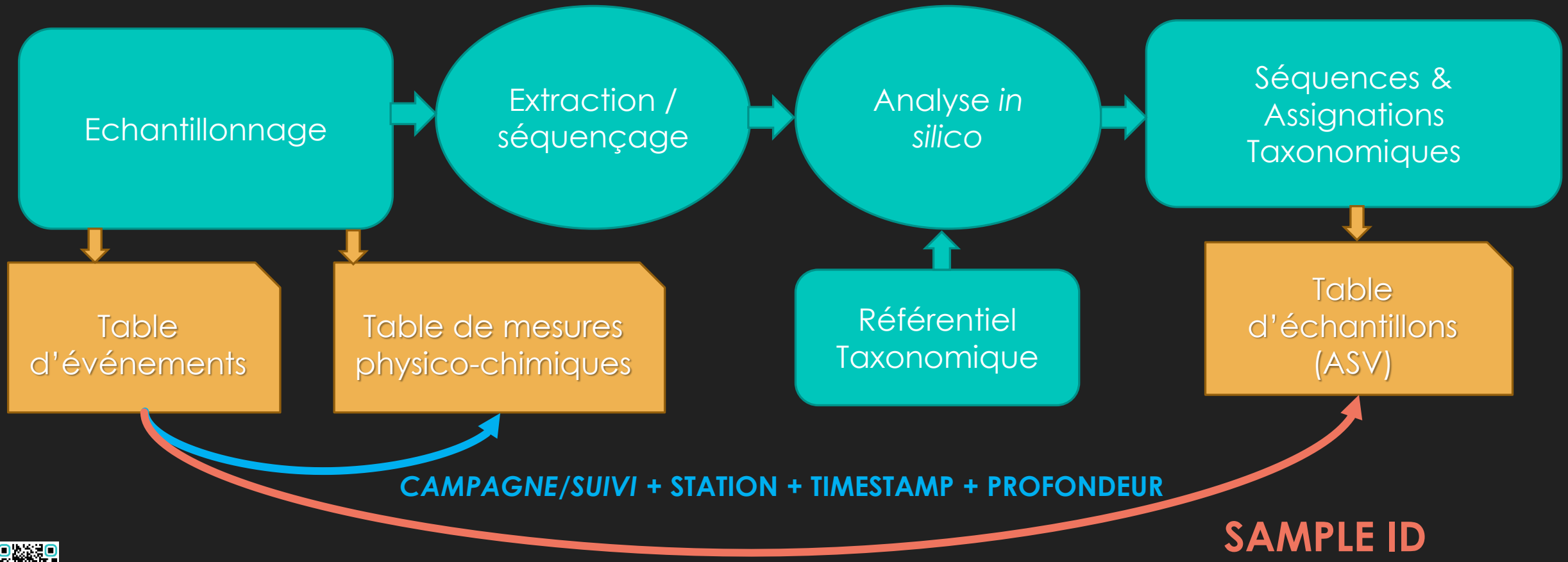
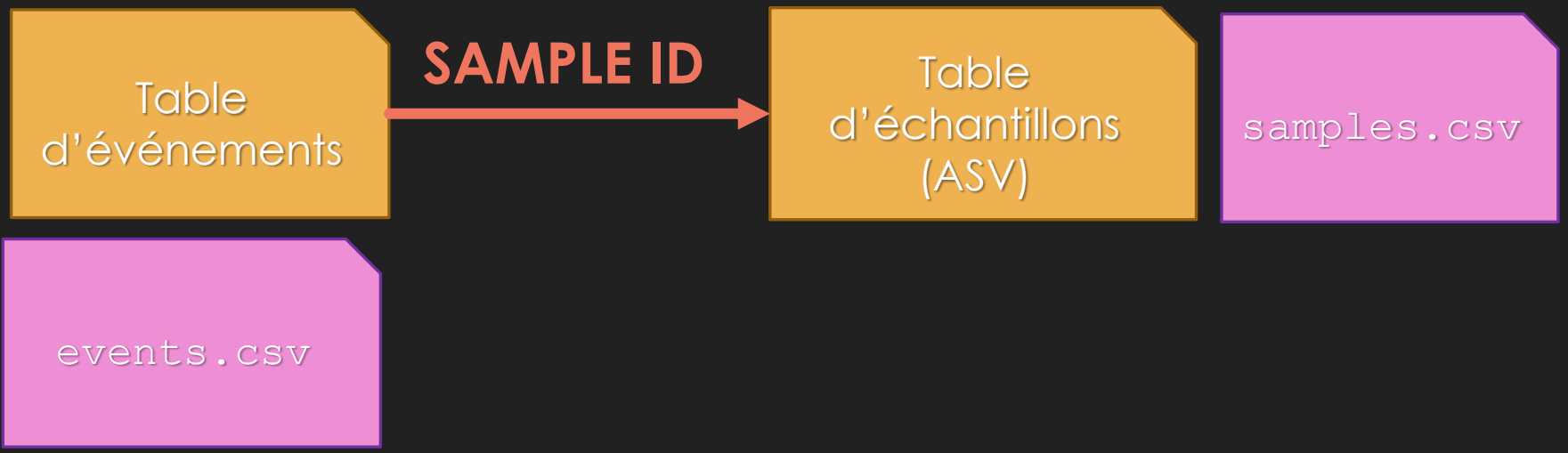
// SOMLIT somlit.fr															
// hydro 87e252420568e7d8	2021-02-17	08:34:58													
ID_SITE	DATE	HEURE	COEF_MAREE	MAREE	PROF_TEXT	PROF_NUM	nomSite*	gpsLat*	gpsLong*	T	qT	S	qS	O	
//	(yyyy-mm-dd)	(hh:mm:ss)	-	-	-	m		(wgs84)	(wgs84)	°C		PSU		ml/l	
3	2009-01-07	13:10:00	53.00	PM	F	60.00	Astan	48.7778	-3.9375	9.300	2	35.234	2	6.27	
3	2009-01-07	13:10:00	53.00	PM	S	1.00	Astan	48.7778	-3.9375	9.400	2	35.232	2	6.27	
3	2009-01-20	12:05:00	34.00	PM	F	60.00	Astan	48.7778	-3.9375	9.450	2	35.293	2	6.41	
3	2009-01-20	12:05:00	34.00	PM	S	1.00	Astan	48.7778	-3.9375	9.380	2	35.293	2	6.44	
3	2009-02-05	13:47:00	45.00	PM	F	60.00	Astan	48.7778	-3.9375	8.900	2	35.114	2	6.29	
3	2009-02-05	13:47:00	45.00	PM	S	1.00	Astan	48.7778	-3.9375	8.800	2	35.110	2	6.29	
3	2009-02-18	11:01:00	27.00	PM	F	60.00	Astan	48.7778	-3.9375	8.900	2	35.027	2	6.36	
3	2009-02-18	11:01:00	27.00	PM	S	1.00	Astan	48.7778	-3.9375	8.900	2	35.022	2	6.34	
3	2009-03-06	12:47:00	42.00	PM	F	60.00	Astan	48.7778	-3.9375	9.500	2	34.892	2	6.36	
3	2009-03-06	12:47:00	42.00	PM	S	1.00	Astan	48.7778	-3.9375	9.100	2	34.881	2	6.39	
3	2009-03-20	12:06:00	24.00	PM	F	60.00	Astan	48.7778	-3.9375	9.680	2	34.926	2	6.37	
3	2009-03-20	12:06:00	24.00	PM	S	1.00	Astan	48.7778	-3.9375	9.800	2	999999	1	6.15	
3	2009-04-03	11:00:00	43.00	PM	F	60.00	Astan	48.7778	-3.9375	9.850	2	34.953	2	6.49	
3	2009-04-03	11:00:00	43.00	PM	S	1.00	Astan	48.7778	-3.9375	9.850	2	34.947	2	6.51	
3	2009-04-16	08:46:00	43.00	PM	F	60.00	Astan	48.7778	-3.9375	10.300	2	35.001	2	6.45	
3	2009-04-16	08:46:00	43.00	PM	S	1.00	Astan	48.7778	-3.9375	10.480	2	34.987	2	6.48	
3	2009-05-04	13:37:00	60.00	PM	F	60.00	Astan	48.7778	-3.9375	11.250	2	35.067	2	6.56	
3	2009-05-04	13:37:00	60.00	PM	S	1.00	Astan	48.7778	-3.9375	11.300	2	35.065	2	6.62	
3	2009-05-18	11:34:00	38.00	PM	F	60.00	Astan	48.7778	-3.9375	11.800	2	35.136	2	6.28	
3	2009-05-18	11:34:00	38.00	PM	S	1.00	Astan	48.7778	-3.9375	12.050	2	35.134	2	6.28	
3	2009-06-02	12:54:00	57.00	PM	F	60.00	Astan	48.7778	-3.9375	12.850	2	35.221	2	6.17	
3	2009-06-02	12:54:00	57.00	PM	S	1.00	Astan	48.7778	-3.9375	13.000	2	35.215	2	6.19	
3	2009-06-16	10:34:00	46.00	PM	F	60.00	Astan	48.7778	-3.9375	13.150	2	35.277	2	6.12	
3	2009-06-16	10:34:00	46.00	PM	S	1.00	Astan	48.7778	-3.9375	13.600	2	35.262	2	6.17	
3	2009-07-01	12:02:00	49.00	PM	F	60.00	Astan	48.7778	-3.9375	14.150	2	35.314	2	6.25	
3	2009-07-01	12:02:00	49.00	PM	S	1.00	Astan	48.7778	-3.9375	14.500	2	35.309	2	6.32	
3	2009-07-16	10:39:00	48.00	PM	F	60.00	Astan	48.7778	-3.9375	14.900	2	35.325	2	5.96	
3	2009-07-16	10:39:00	48.00	PM	S	1.00	Astan	48.7778	-3.9375	15.000	2	35.323	2	5.96	
3	2009-07-31	12:27:00	36.00	PM	F	60.00	Astan	48.7778	-3.9375	15.150	2	35.314	2	5.63	
3	2009-07-31	12:27:00	36.00	PM	S	1.00	Astan	48.7778	-3.9375	15.700	2	35.323	2	5.66	

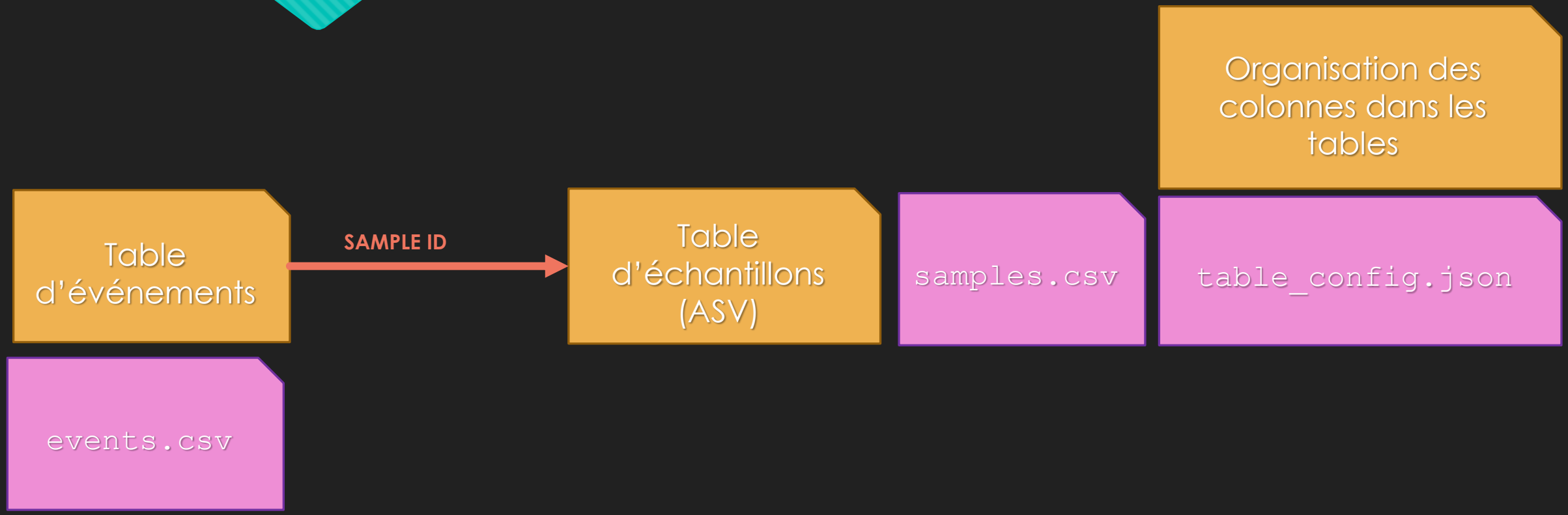
MyGOD – Nature & format des données



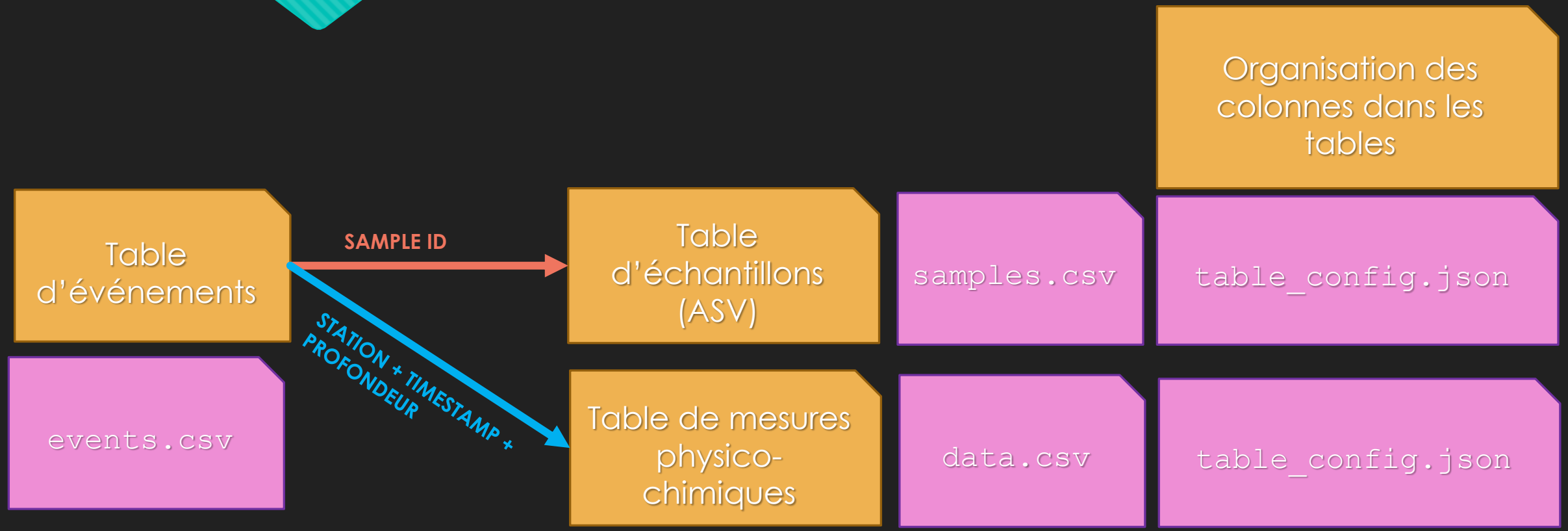
MyGOD – Nature & format des données



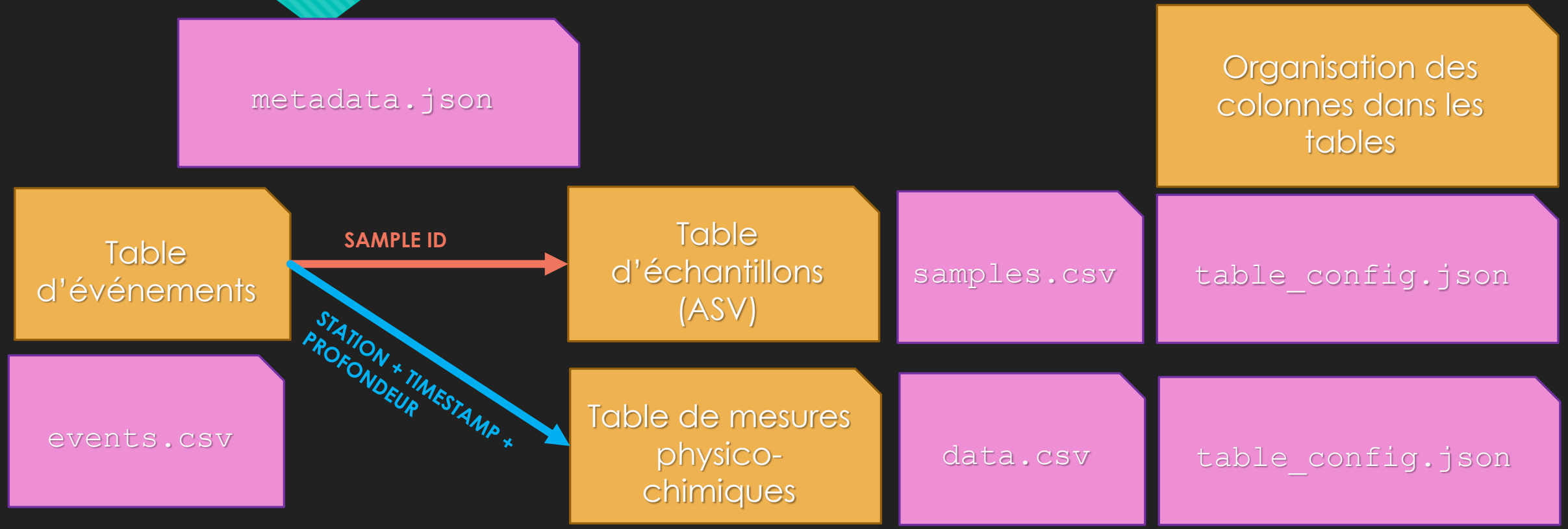
MyGOD – Nature & format des données



MyGOD – Nature & format des données

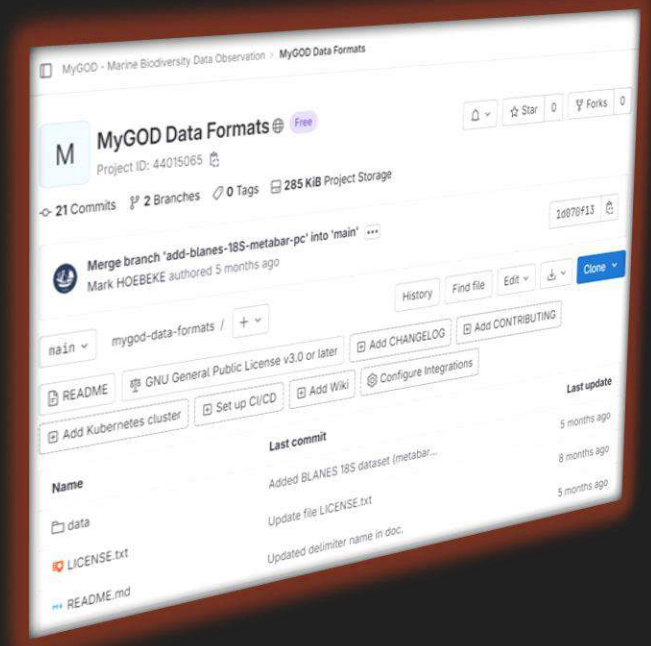


MyGOD – Nature & format des données

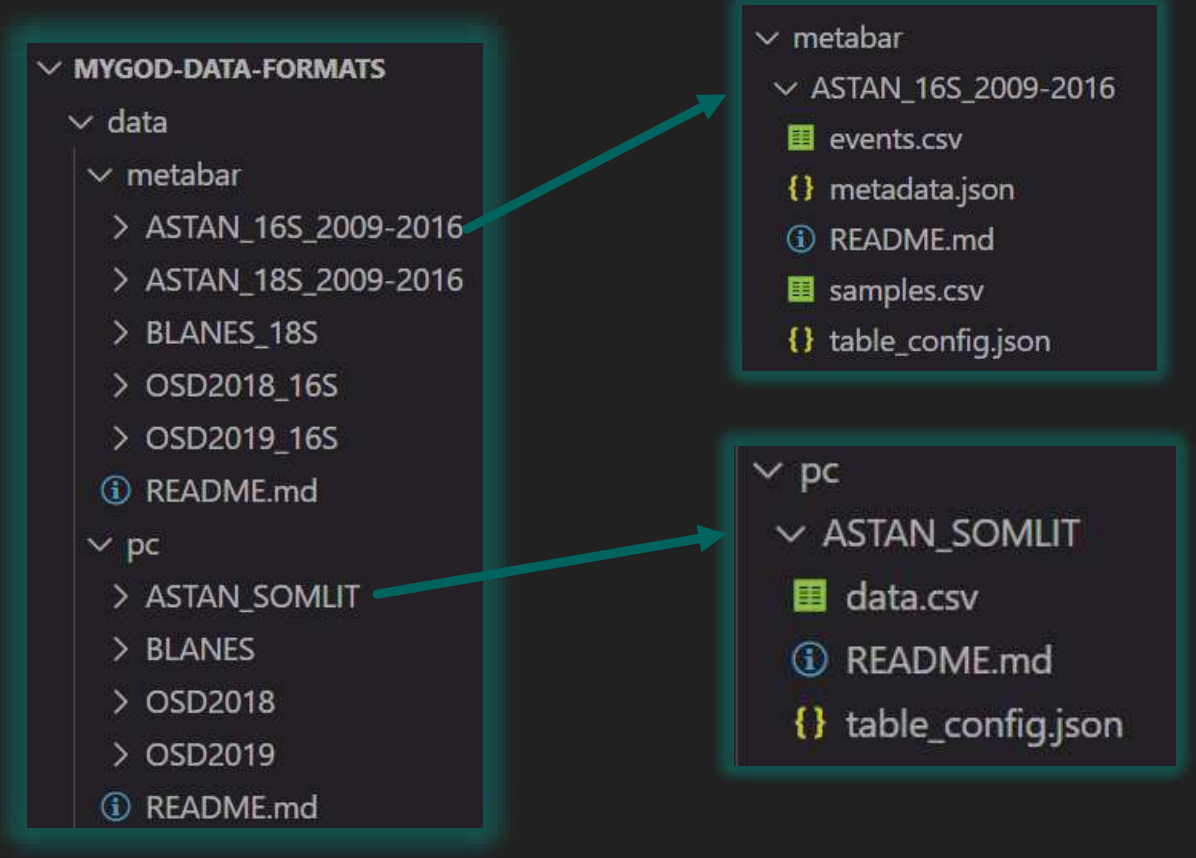


MyGOD – Organisation des jeux de données

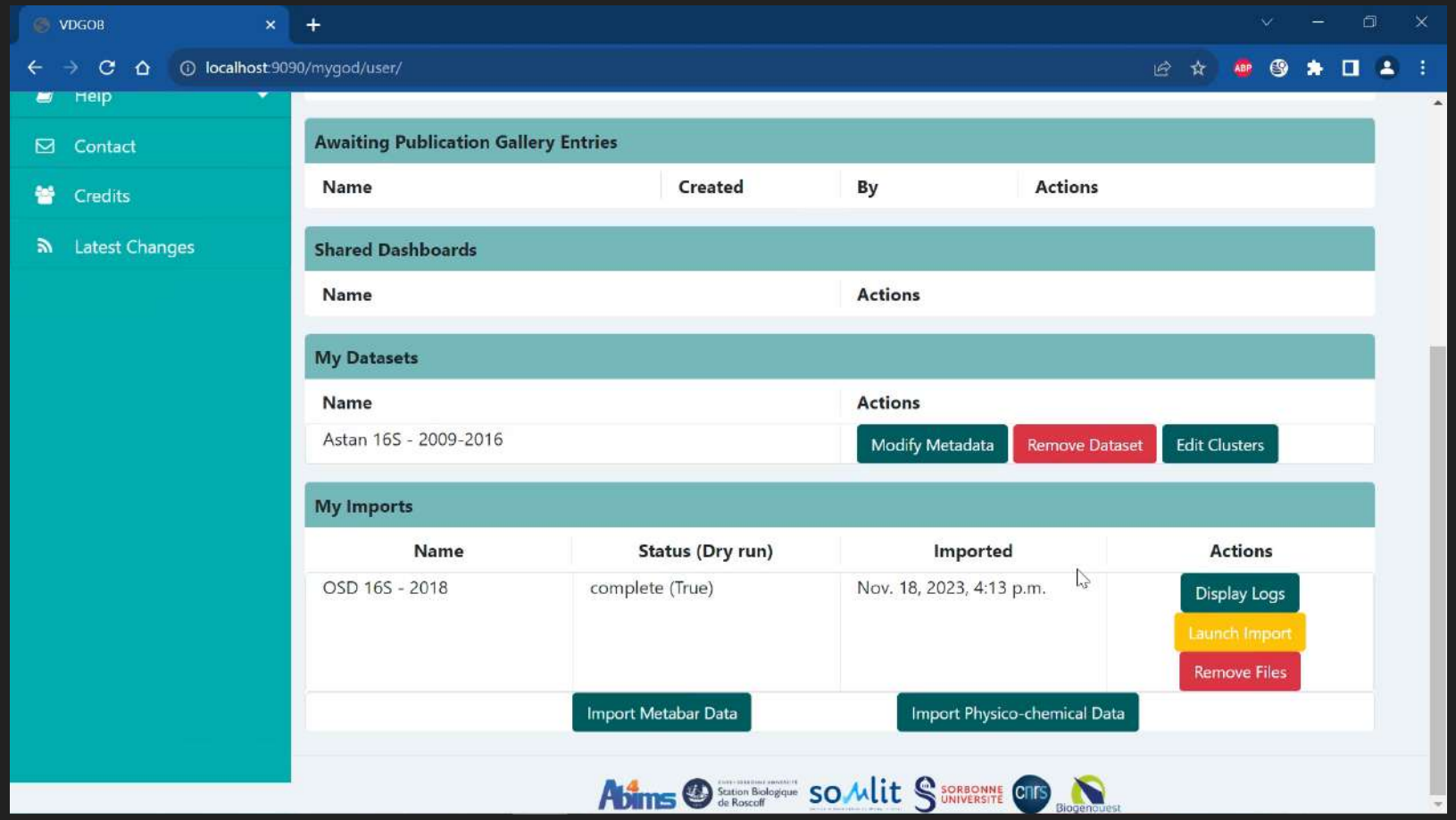
Proposition d'organisation normalisée adaptée à l'importation *automatique*



https://gitlab.com/mygod-biodiv/mygod-data-formats



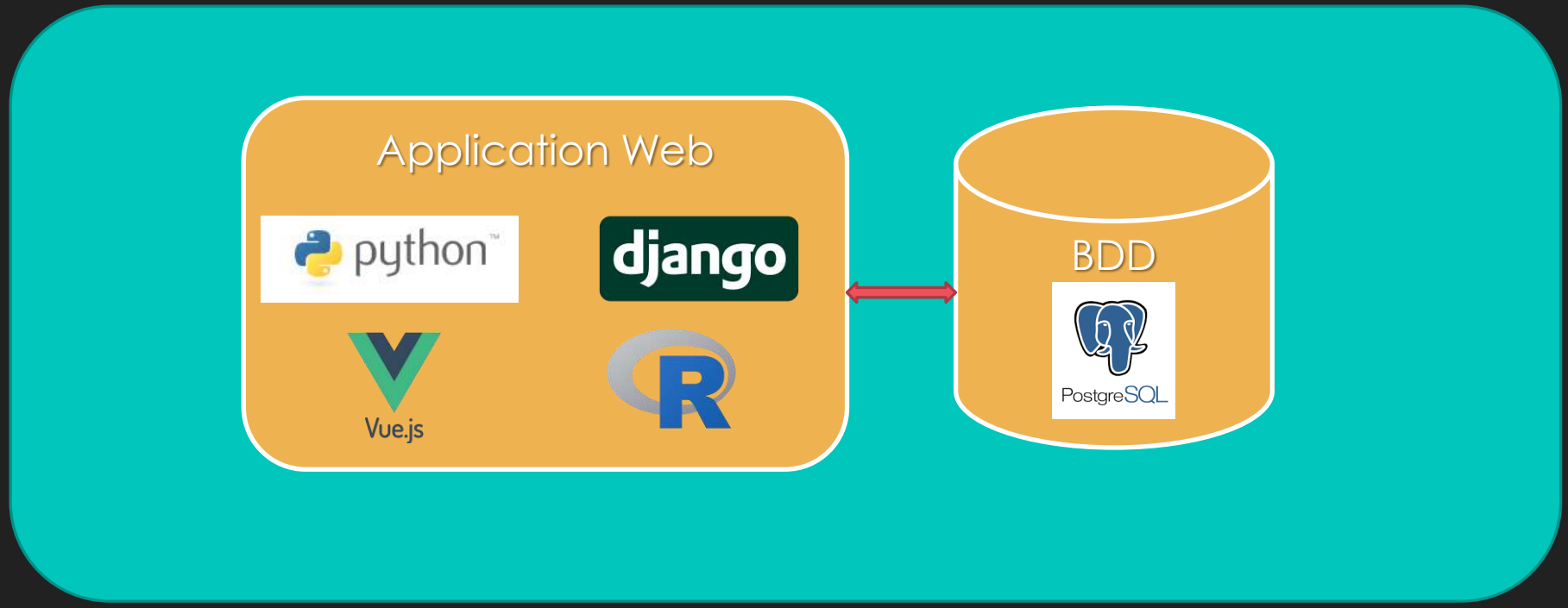
MyGOD – Importation de données



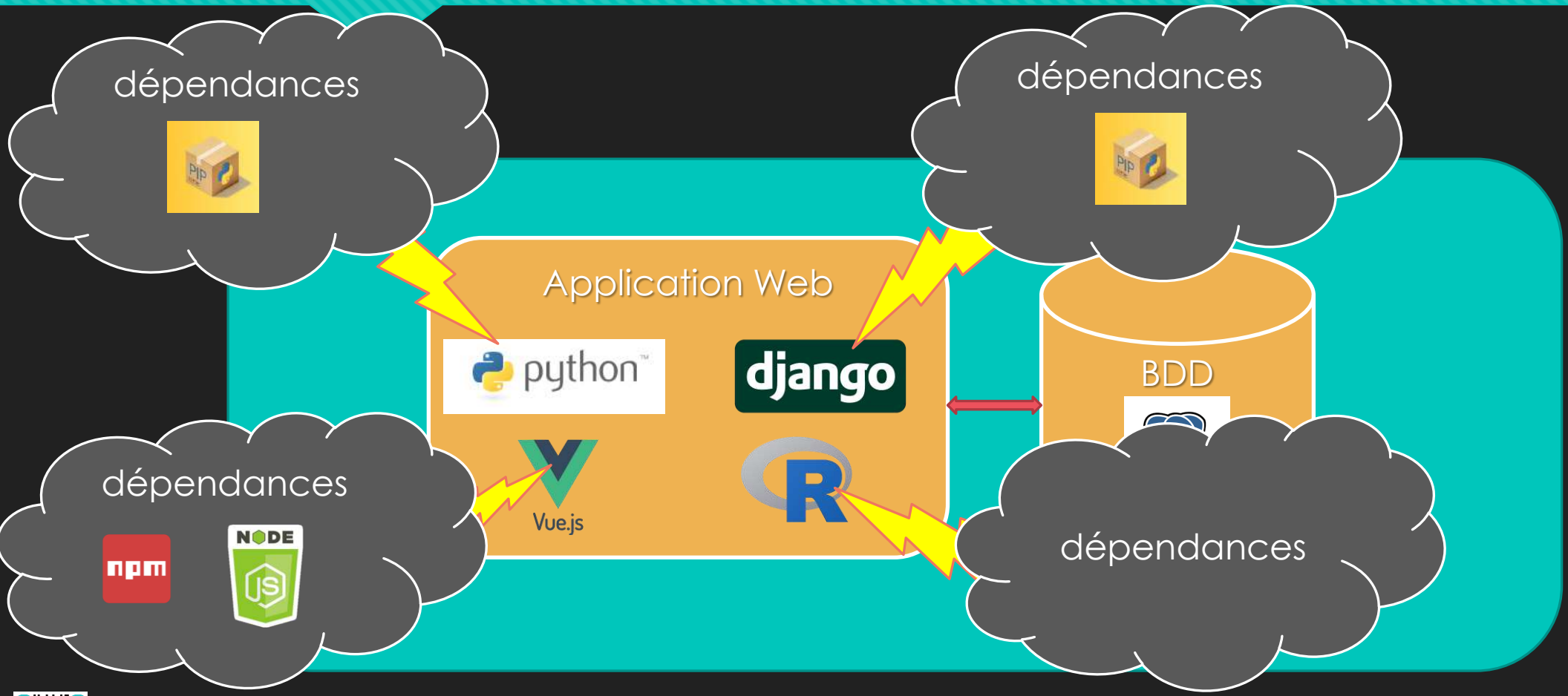
MyGOD

Déploiement

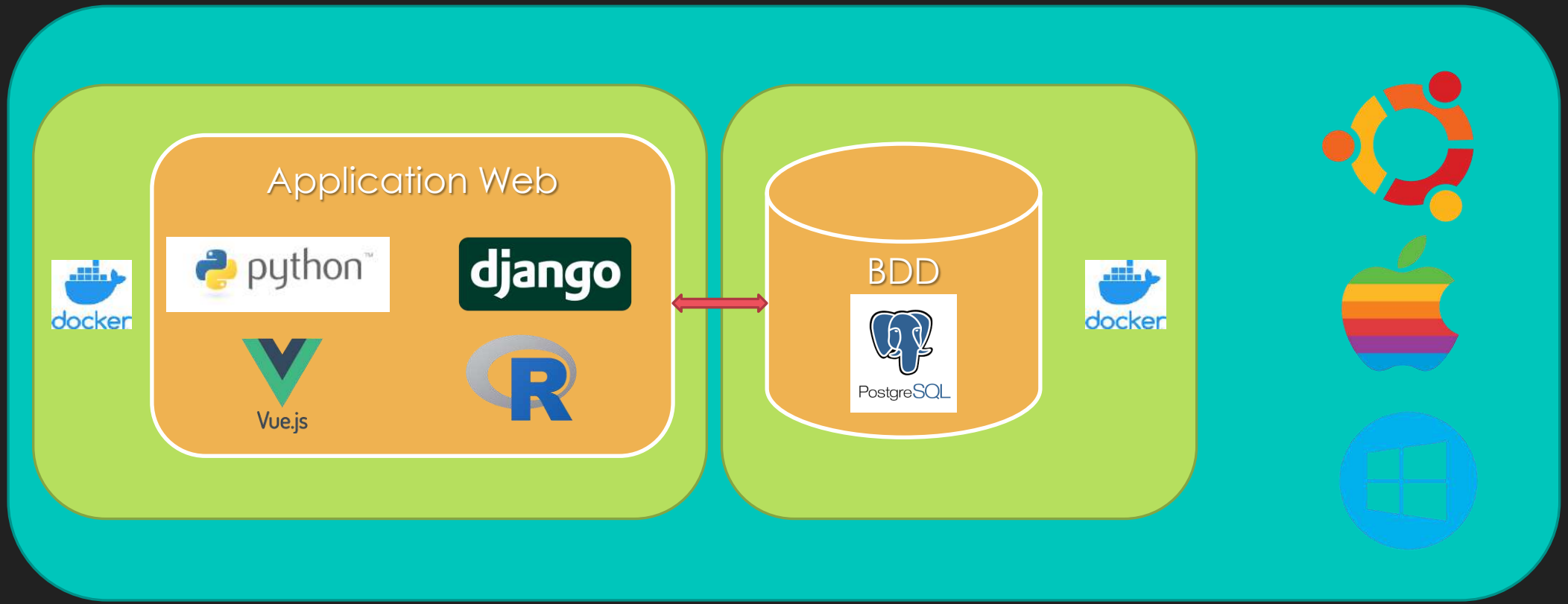
Déploiement - Architecture technique



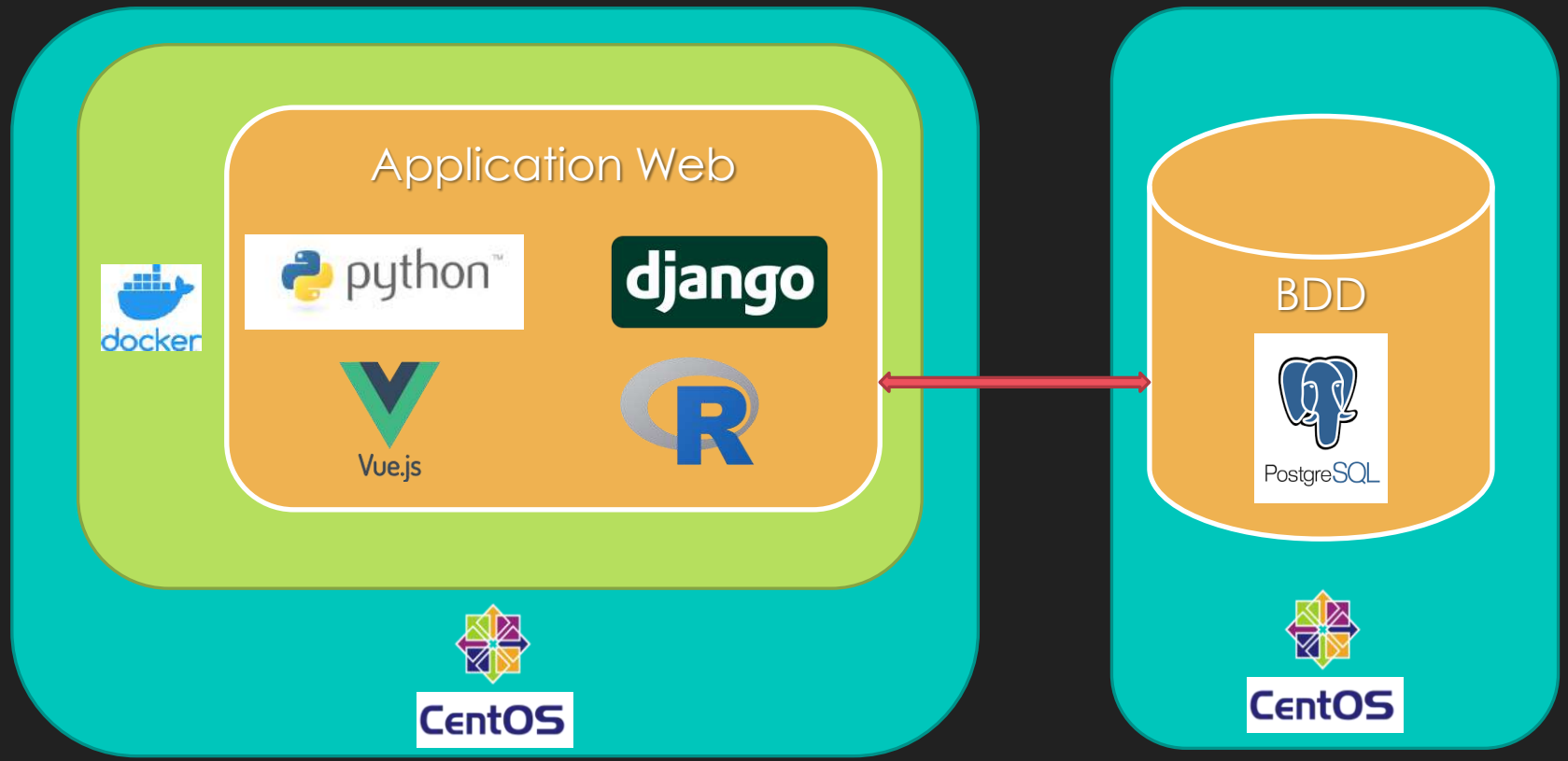
Déploiement - Architecture technique



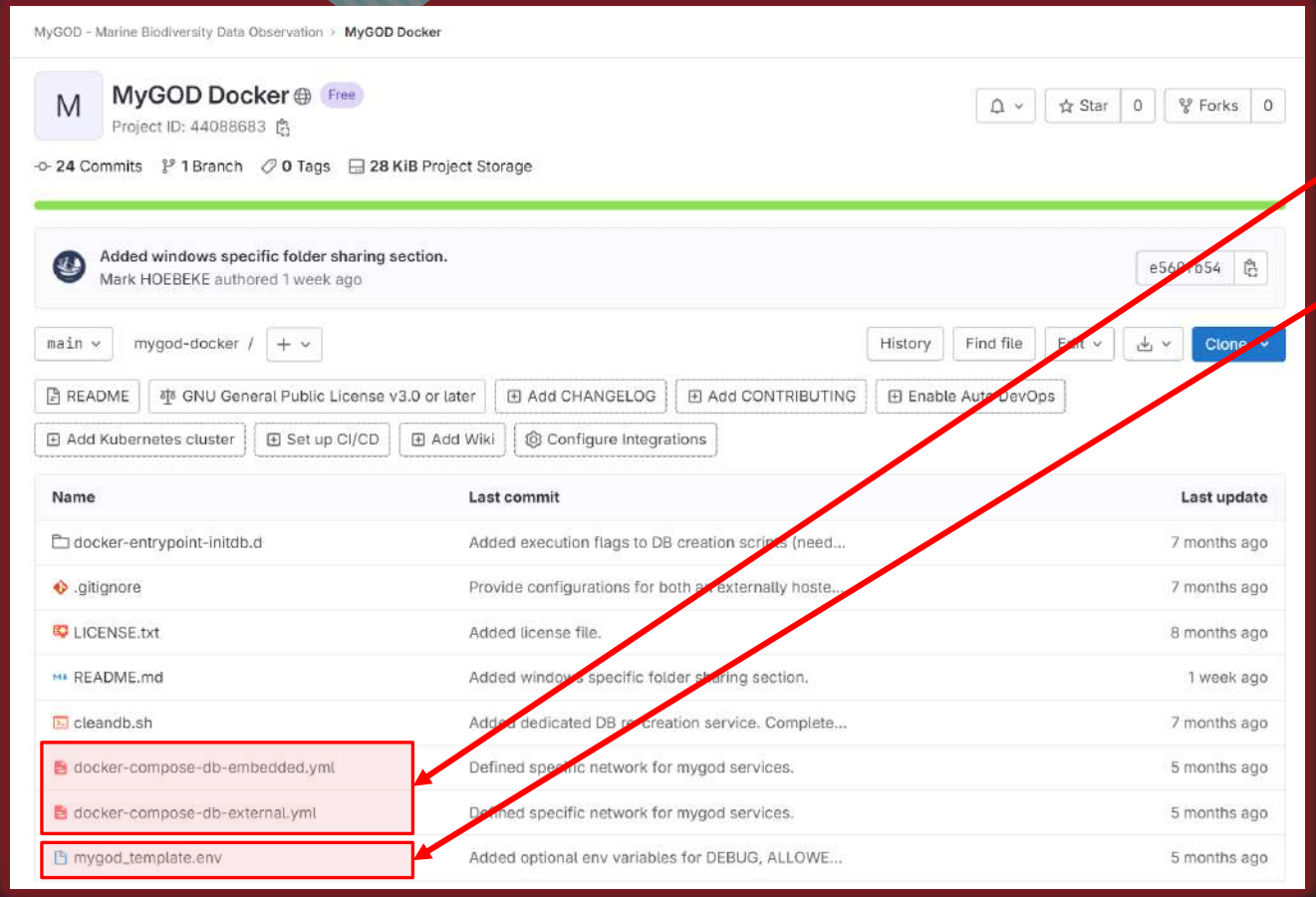
Déploiement – *Embedded* : Poste Individuel



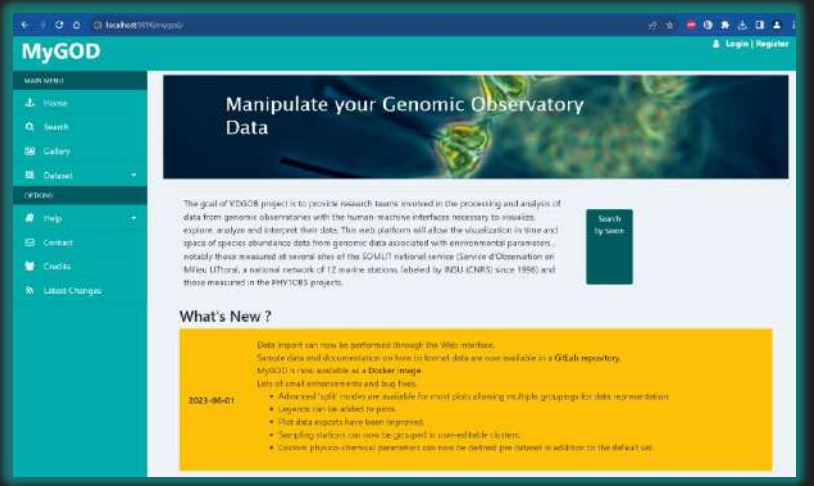
Déploiement – Infrastructure : ABiMS



Déploiement – HOWTO (honteusement simplifié)



1. Clone the GitLab repo
2. Select the appropriate compose configuration
3. Copy & edit the environment template
4. Run Docker compose



MyGOD

Bilan

Perspectives

MyGOD – Bilan

- MyGOD offre depuis juin 2023 :
  - Un outil Web ergonomique
  - La composition de tableaux de bord « avancés »
  - Le partage et la publication des tableaux de bord
  - Un format simple mais générique pour l'importation de données métabarcode et physico-chimiques
  - *L'utilisation de données de campagnes*
  - *Le déploiement d'instances privées et/ou sur des postes de travail*
  - *L'importation de données au travers de l'interface Web*
  - ***L'utilisation de données de biodiversité « morphologique »***

MyGOD – Perspectives

- Déploiements potentiels chez des partenaires
  - SeBiMER
  - MIO
- Extensions des capacités d'importation de données
  - Support du format RO-CRATE (EMO-BON)
  - Développement d'un module R de conversion à partir de PhyloSeq
- Aide à la composition des fichiers de métadonnées
  - Formulaires de saisie intégrés au back-office de MyGOD

MyGOD – Credits & Links

- **Charlotte André**
- **Charlotte Berthelier**
- **Erwan Corre**
- **Patrick Durand**
- **Nicolas Henry**
- **Mark Hoebeke**
- **Magali Lescot**
- **Nolan Lezzoche**
- **Cyril Noël**

- Instance publique
  - https://mygod.sb-roscoff.fr
- Dépôt code source :
  - https://gitlab.com/mygod-biodiv/mygod-webapp
- Dépôt configuration Docker :
  - https://gitlab.com/mygod-biodiv/mygod-docker
- Dépôt format de données & HOWTO :
  - https://gitlab.com/mygod-biodiv/mygod-data-formats

✉ contact.mygod@sb-roscoff.fr