





#### MIKADO – Generation of SeaDataNet metadata files

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## Summary

- Reminder of MIKADO main features and principles
- MIKADO last developments and main changes
- Best practice for EDMED, EDIOS, CDI content
  - Reoccuring mistakes
  - Recommandations
- Hands-on session



#### What's MIKADO ?

MIKADO is used to generate XML descriptions for the SeaDataNet catalogues:

- CSR Cruise Summary Reports
- EDMED Marine Environmental Data sets
- CDI Common Data Index
- EDMERP Marine Environmental Research Projects
- EDIOS Permanent Ocean-observing System



#### **Technical characteristics**

- Written in Java Language (Version >= 1.8)
- Available under multiple environments : Windows, Linux.
- Interactive and batch modes available
- Use of the SeaDataNet common vocabularies web services to update lists of values
  - needs network connection in order to have up to date lists of values.
  - but Mikado works offline once the lists are up-to-date



### MIKADO main features MIKADO can be used in 2 different ways :

- One manual way for users who have a small amount of entries
- One automatic way to generate automatically XML descriptions from information referenced in a database or in a CSV file.







#### Current release V3.5.1

Freely available on SeaDataNet Web site <a href="https://www.seadatanet.org/software/mikado">https://www.seadatanet.org/software/mikado</a>

User manual is also provided: <u>https://www.seadatanet.org/content/download/651/3414/file/sdn\_Mikado\_UserManual\_V3.5.1.pdf</u>

FAQ webpage: https://www.seadatanet.org/Software/MIKADO/FAQ



## MIKADO last developments

- Last SDN2 training session (May 2015)
   MIKADO 3.3.4 (4 new releases since then)
- Last EMODnet chemistry training session (May 2017)
   MIKADO 3.3.5 (3 new releases since then)
- Present version of MIKADO
  - MIKADO 3.5.1 released on June 2018



## Main changes in MIKADO

- MIKADO 3.4
  - Upgraded database drivers
  - New facility to import directly the NEMO CDI summary file in MIKADO
- MIKADO 3.5
  - Report for Vocabulary updates
  - Improvement to avoid reoccurring errors "Date type"



## Upgraded database drivers

- Upgrade of all database drivers
- Driver for Excel no more maintained
  - Connection to Excel files are no more possible
  - JDBC connectivity to excel is not maintained by Java
  - Alternative solutions for Excel users are described in the <u>MIKADO user manual - Part 10.4</u> and will be demonstrated during this training session.
- Driver for csv added



## Upgraded database drivers

Alternative solutions for Excel users

- Case 1: Excel file with one sheet
  - Convert your Excel file into csv file to be connected with MIKADO
- Case 2: Excel file with several sheets
  - Try to merge your different sheets in only one sheet and convert your file into csv file → case 1
  - Store your metadata in a database (Open Office database, Microsoft Office Access, MySQL, ...)

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### **Upgraded database drivers**





## **Upgraded database drivers**

New CsvJdbc driver added to configure csv files containing the metadata

	, <u> </u>		
abase		Preset	
Driver class name	org.relique.jdbc.csv.CsvDriver	Mysql	Oracle
DBC connect url	:test_logicielsNEMOovide 3 CTD?fileExtension=.csv&separator=	Access	Excel
Jser		Ms Server	PostgreSql
asswd		Sybase	LibreOffice
		Csv	Other
check			
check			



### **NEMO-MIKADO** interactions

A new facility has been implemented in MIKADO to import directly the NEMO CDI\_summary\_file in MIKADO without the Excel STEP and to generate automatically the corresponding SQL queries.

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#### **NEMO-MIKADO** interactions





This software has received funding from the EU H2020 programme under agreement n° 730960 SeaDataCloud (2016-2020), the EU FP7 programme under agreement n° 283607 SeaDataNet II (2011-2015) and agreement n° 238952 Geo-Seas (2009-2013) and EU FP6 programme under agreement n° 026212 SeaDataNet (2006-2011).



#### NEMO CDI\_summary file imported

Connection Querie	s		
Database		Preset	
Driver class name	org.relique.jdbc.csv.CsvDriver	Mysql	Oracle
JDBC connect url	C:\test_logiciels\NEMO\ovide 3 CTD?fileExtension=.txt&separator=	Access	Excel
User		Ms Server	PostgreSql
Passwd		Sybase	LibreOffice
	J	Csv	Other
Test			



Corresponding SQL queries automatically generated

Configuration file automatically created and saved by MIKADO

anual Automatic Options roots ?				<u>.</u>
Connection Queries				
🔻 🚞 Requests	query			
Main Query	SELECT			
🖌 🖌 🖌 🖌 🖌	SELECT	var	sql	
Single subqueries		var01	distinct EDMO_AUTHOR	
✓ var01 CDI Partner		var02	AREA TYPE	X
✓ var02 Measuring area type				0
Var03 Horizontal Datum		var04	DATASET_NAME	
Var04 Dataset name		var05	LOCAL_CDI_ID	
var06 Dataset-Iu				
var09 Abstract (datasot)	FROM	CDI_su	Immary	2
✓ varue Austract (udidset)		_		
✓ varios notaling centre (cust	MUEDE			
var15 Cruise name	WHERE	LOCAL_	_CDI_ID =':\$'	2
√ var16 Cruise short name				
✓ var17 Cruise start date				
🗸 var18 Station name				
✓ var19 Station short name				
✓ var20 Station start date				
🖌 var21 Time resolution value				
√ var22 Time resolution unit				
√ var28 Start date (dataset)	ORDER BY			2
√ var29 End date (dataset)				
🗹 var30 Minimum depth of ins	- L			
√ var31 Maximum depth of ins	Test			
🗸 var34 Vertical datum	lest			
🗸 var35 Water depth			- (496)	
✓ var36 Distributor	check	var01	= [Point]	
✓ var45 Vertical resolution value		var04	= [OVIDE 3]	
✓ var46 Vertical resolution uni		var05	= [FI35200653001_00001_H10]	
var47 Horizontal resolution		var06	= [2014-08-22]	
Var48 Horizontal resolution (		var08	= [Not Specified] = [9]	
Var80 EDMED Reference		var12	= [31]	
Var81 CSR Reference		var28	= [2006-05-24T14:28:00]	
Multiple subquelles		var29	= [2006-05-24T14:28:00]	
		var36	= [6] = [001]	
		var19	= [001]	
		var20	= [2006-05-24T14:28:00]	
				2
Check All				Y

🚣 Mikado 3.4 SDN V2 🛛 Automatic / CDI 19139 : C:\test\_logiciels\NEMO\ovide 3 CTD\CDI\_summary.txt.xml

- 0 X



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#### **Report for vocabulary updates**

MIKADO uses the SeaDataNet common vocabularies web services to update its lists of values

To update the MIKADO vocabularies lists: *Menu "Options" > Vocabulary update* 





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# Report for vocabulary updates

MIKADO < 3.5



## MIKADO



This software has received funding from the EU H2020 programme under agreement n<sup>a</sup> 730060 SorDetarClaud (2016-2020), the EU FP7 programme under agreement n° 23607 SorDetarClaud (2011-2015) and agreement n° 238952 Geo-Seas (2009-2013) and EU FP6 programme under agreement n° 075212 SorDetarClaud (2006-2011).

Check version for

C17 vocabulary list

#### MIKADO >= 3.5

#### - O X Vocabularies update P01 P01 local version is 803 (2018-04-05T01:00:04Z) P01 download version 825 (2018-06-08T01:00:03Z) successful P02 P02 local version is 108 (2018-04-05T01:00:04Z) P02 up to date, version 108 (2018-04-05T01:00:04Z) successful P06 P06 local version is 99 (2018-02-16T02:00:02Z) P06 download version 103 (2018-05-25T01:00:05Z) successful P08 P08 local version is 5 (2017-02-03T02:00:03Z) P08 up to date, version 5 (2017-02-03T02:00:03Z) successful from C16 to C19 mapping local mapping version is SDN.SDN:C19:17:.17.SDN.SDN:C16:9:.9 local mapping up to date, version SDN.C19.17.SDN.C16.9 successful EDMERP EDMERP download successful EDMO EDMO download Ok



## Report for vocabulary updates

- Vocabulary update OK
  - No need to update
  - Updated

Vocabularies update
P01 P01 local version is 803 (2018-04-05T01:00:04Z) P01 download version 825 (2018-06-08T01:00:03Z) successful
P02 P02 local version is 108 (2018-04-05T01:00:04Z) P02 up to date, version 108 (2018-04-05T01:00:04Z) successful
P06 P06 local version is 99 (2018-02-16T02:00:02Z) P06 download version 103 (2018-05-25T01:00:05Z) successful
P08 P08 local version is 5 (2017-02-03T02:00:03Z) P08 up to date, version 5 (2017-02-03T02:00:03Z) successful
from C16 to C19 mapping local mapping version is SDN.SDN:C19:17:.17.SDN.SDN:C16:9:.9 local mapping up to date, version SDN.C19.17.SDN.C16.9 successful
EDMERP EDMERP download successful
EDMO download
Ok



### Report for vocabulary updates

#### • Vocabulary update KO

	_
Vocabularies update	
*** switch to offline mode	4
P01 local requested P01 local version is 825 (2018-06-08T01:00:03Z) P01 read version 825 (2018-06-08T01:00:03Z) P02 java.lang.ClassCastException: uk.ac.nerc.vocab.types.GetConceptCollectionRespon	
*** switch to offline mode	
P02 local requested P02 local version is 108 (2018-04-05T01:00:04Z) P02 read version 108 (2018-04-05T01:00:04Z) P06	
java.lang.ClassCastException: uk.ac.nerc.vocab.types.GetConceptCollectionRespon	
*** switch to offline mode	
P06 local requested P06 local version is 103 (2018-05-25T01:00:05Z) P06 read version 103 (2018-05-25T01:00:05Z) P08 java.lang.ClassCastException: uk.ac.nerc.vocab.types.GetConceptCollectionRespon	
*** switch to offline mode	
P08 local requested P08 local version is 5 (2017-02-03T02:00:03Z) P08 read version 5 (2017-02-03T02:00:03Z) EDMERP EDMERP download failed	
Acknowledge error	

- O X

## Reoccurring "Date type" errors

- "Date type" errors (MIKADO automatic)
  - In CDI ISO19139 and CSR ISO19139, the following dates must be extracted from the database as a Date (YYYY-MM-DD) and not as a Date Time (YYYY-MM-DDThh:mm)
    - CDI: Revision date (var06), Cruise date (var17), Station date (var20), Quality procedure date (var96)
    - CSR: Revision date (var04)

→ MIKADO expects a Date and your query returns a Date Time



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#### Reoccurring "Date type" errors

- Error messages during XML generation
- Not easily understandable



anual Automatic (	Options Tools ?
	SeaDataNet CDI
ſ	🗿 mikado.xmLISOException
	[0151] <gmd:title> [0152] <gco:characterstring>BATM11_El482011010120_169175</gco:characterstring></gmd:title>
	[0153]
	[0154] <gmd:alternatetitle></gmd:alternatetitle>
6-02-0	[0155] <gco:characterstring>BATM11_FI482011010120_169175</gco:characterstring>
STATISTICS AND ADDRESS OF THE OWNER	[0156]
	[0157] <gmd:date></gmd:date>
	[0158] <gmd:cl_date></gmd:cl_date>
	[0159] <gmd:date></gmd:date>
	[ERROR : line 160 : cvc-datatype-valid.1.2.3: '018-01-18 04:01:30' is not a valid value of union type 'Date_Type'.]
mlie notvolid (P	[0160] <gco:date>018-01-18.04:01:30</gco:date>
vc-datatyne-valid	[0161]
ine Number : 160	0162) <gmd:datetype></gmd:datetype>
	[0163] <gmd:cl_datetypecode aua-"ang<="" codelist="http://vocab.nerc.ac.uk/isoCodelists/sdnCodelists/gmxCodelists/sdnCodelists/gmxCodelists/sdnCodel&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;0001] &lt;?xml versi&lt;/td&gt;&lt;td&gt;[0164] &lt;/gmd:dateType&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;0002] &lt;! this file&lt;/td&gt;&lt;td&gt;[0165] &lt;/gmd:Cl_Date&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;0003] &lt;?xml-mod&lt;/td&gt;&lt;td&gt;[0166] &lt;/gmd:date&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;)004] &lt;gmd:MD_I&lt;/td&gt;&lt;td&gt;Condidentifier&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;0005] &lt;gmd:filel&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;0006] &lt;gco:Ch&lt;/td&gt;&lt;td&gt;Ok&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;0007] &lt;/gmd:tile&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;1000 Sundian&lt;/td&gt;&lt;td&gt;nuianaCoda codal ist=" http:="" isocodalists="" ist="" ists.vml#languanacoda".codal="" omvcodal="" sdocodalists="" td="" worsh.narc.ac.uk=""></gmd:cl_datetypecode>
010] <td>ngangseede eedelist mpunteebineteide annoede annoedenistig misedeeliste in multiplage eede eedelist and - eng 1980e</td>	ngangseede eedelist mpunteebineteide annoede annoedenistig misedeeliste in multiplage eede eedelist and - eng 1980e
011] <gmd:chara< td=""><td>acterSet&gt;</td></gmd:chara<>	acterSet>
)012] <gmd:md< td=""><td>_CharacterSetCode codeList="http://vocab.nerc.ac.uk/isoCodelists/sdnCodelists/gmxCodeLists.xml#MD_CharacterSetCode" codeLi</td></gmd:md<>	_CharacterSetCode codeList="http://vocab.nerc.ac.uk/isoCodelists/sdnCodelists/gmxCodeLists.xml#MD_CharacterSetCode" codeLi
0013] <td>acterSet&gt;</td>	acterSet>
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00151 <amd:md< td=""><td></td></amd:md<>	
$\bigcirc$	



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#### Reoccurring "Date type" errors

- Error messages during checking
- Easier to understand



Mikado 3.5 SDN V2 Automatic / Cdi : C:\Users\vtosello\Desktop\BATM	111_Auto_CDI_create_erro	or_date.xr	m	I X
Manual Automatic Options Tools ?				<u>k</u>
Connection Queries				
	query			
V Requests	query			
<ul> <li>Main duely</li> <li>Cdi identifier</li> </ul>	SELECT	var	sql	
V Single subqueries		vor06	to chor/PES PES DATIVAL (www.mm.dd.bh/mm/col)	
√ var01 CDI Partner		Value	to_drar(RES.RES_DR1mRd, )))+inihidd initianitiss )	X
✓ var02 Measuring area type		var28	concat(to_char(RES.RES_DATDEB, 'yyyy-mm-dd'), concat('T', to_char(RES.RES_DATDEB, 'HH24:MI:SS')))	~
🗸 var03 Horizontal Datum		var29	concat(to_char(RES.RES_DATFIN, 'yyyy-mm-dd'), concat('T', to_char(RES.RES_DATFIN, 'HH24:MI:SS')))	
🗸 var04 Dataset name				
√ var05 Dataset.id				
✓ var06 Revision date (dataset)	FROM	RES		2
✓ var08 Abstract (dataset)		, ALO		
varus Holding Centre (custodian)		L		
varia Cruise name	WHERE	RES.RE	S_CRES = substr(':\$',instr(':\$','_;-1)+1)	2
✓ var16 Cruise short name				
✓ var17 Cruise start date				
√ var18 Station name				
✓ var19 Station short name				
✓ var20 Station start date				
✓ var21 Time resolution value				
✓ var22 Time resolution unit				
✓ var28 Start date (dataset)	ORDER BY			
✓ var29 End date (dataset)				
var31 Maximum depth of instrument				]
✓ var34 Vertical datum	TESL			_
√ var35 Water depth				
🗸 var36 Distributor	check	:\$ = [	[BATM11_FI482011010120_169175]	
✓ var45 Vertical resolution value		var06	= [018-01-18_04-01-30]	
✓ var46 Vertical resolution unit				
✓ var47 Horizontal resolution value		var06	Date without time expected (like 2018-01-15)	
✓ var48 Horizontal resolution unit				
✓ var80 EDMED Reference				
Varsh CSR Reference	Vor (	hC	"Doto without time expect	ad
<ul> <li>Multiple subquelles</li> </ul>	var	JO	Date without time expect	eu
			and the second	
Check All				
Check All				



## EDMED population: Best Practice

- Consider appropriate **granularity** of the EDMED facilitates discovery of suitable packages of data
- Search the catalogue before compiling new records an appropriate record may already exist
- Use Mikado to extract and update records from the EDMED database (MIKADO manual > Download > EDMED from BODC) – please do not update local copies. Or make sure that your local database is kept updated with the feedback received from BODC.
- **Dataset name** should describe the content of the dataset and provide spatial and temporal information
- Abstracts should include the 'WHAT', 'WHERE', 'WHEN', 'HOW', 'WHO' of the dataset. Informative abstracts help to 'sell' datasets.
- Please refer to **EDMED Guidance notes**



## **EDIOS population: Best Practice**

- An imminent review of the EDIOS schema structure is planned some changes may be ahead to ensure the schema remains fit for purpose
- BODC will be engaging with SeaDataCloud partners in due course to refresh existing EDIOS content and encourage new content
- The Mikado User Manual should always be consulted when creating and updating records. Please refer also to <u>EDIOS</u> <u>Guidance Notes</u>.
- A common misconception:
- Programme entries do not need to be ingested first for you to create Series and Platform entries



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### **Common CDI errors**

- Values "unknown" or blank where (probably / possible) information is available.
  - Error: Abstract: "not specified"
  - Correct: Please fill out at least a general description of the set
- Coordinates: Often coordinates are located on land or in a different area than reported.
- Measuring area type not corresponding with the instrument.
  - Error: CTD as a curve measurement, bathymetry as a point measurement etc.
  - Correct: CTD as point measurement, Bathymetry as a curve measurement



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## **Common CDI errors**

- Local CDI ID should have the correct syntax:
  - Correct syntax: urn:SDN:CDI:LOCAL:value.
  - $\rightarrow$  Use MIKADO
- Cruise / station start date incorrect
  - Wrong: Measurement before start date cruise/station
  - Correct: Measurement must be occurring at the start date or after the start date of the cruise/station.
- Please refer to FAQ about CDI Metadata generation:
  - <u>http://seadatanet.maris2.nl/faq\_vervolg.asp?cat=2</u>



#### CSR and EDMED references in CDI files

- Every CDI can be linked to a CSR reference and an EDMED reference
  - MIKADO manual
    - Dropdown list, uploaded using webservices
  - MIKADO automatic:
    - Var80 (EDMED), var81 (CSR)

Do not forget to create first your entry in CSR/EDMED catalogue and update the vocabularies in MIKADO!



#### CSR Reference



#### EDMED Reference



#### PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

#### SEADATANET COMMON DATA INDEX (CDI) V3

#### **EDMED** Reference

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	BODC holdings	
WHAT?	Cruise inventory	
Data cat name	EDMED	
Data set name	2018000005.CL0(00144) GLOSS Station Handbook	
Discipline	Administration and dimensions	
	Biological oceanography Katadata	
	Chemical oceanography Deposit	
	Conditions	
	Marine geology Vocabularies	
	Physical oceanography Products	
Parameter groups	Administration and dimensions	
0	Discolved gases	
	Optical properties	
	Discussion of the second s	
	Pigments	
	Suspended particulate material	
	Water column temperature and salinity	
Discovery parameters	Chlorophyll pigment concentrations in water bodies	
	Concentration of suspended particulate material in the water colu	
	Dissolved ovygen parameters in the water column	
	Saliaity of the water column	
	Sainity of the water column	
	Temperature of the water column	
	Vertical spatial coordinates	
	Visible waveband radiance and irradiance measurements in the w	
GEMET-INSPIRE themes	Oceanographic geographical features	
Abstract	Données CTD IBTS 2018 137 Antarctic Peninsula @	
Related EDMED dataset	FRENCH COASTAL OR LOW RESOLUTION CTD	
Data format	MEDATLAS ASCII Version 2.0 المركز المعادي المحافظ	
	Climate and Forecast Point Data NetCDF Version 1.0	
	Ocean Data View ASCII input Version 0.4	
	occar bata new Aben input <b>nersion</b> of	

EALER CONTROL O	•	
CDI entry Points	?	
CDI entry Tracks	?	
CDI entry Areas	?	=
Grid Lines	? ^ ~	
Regional sea	? ^ ~	
Regional sea	? ^ ~	Ŧ
Oisplay all selected r	ecords	
Only selected record	ls in results	list
LISTING RESULTS		



British Oceanographic Data Centre

# European Directory of Marine Environmental Data (EDMED)

#### **Data set information**

	Query EDMED
General	
Data set name	FRENCH COASTAL OR LOW RESOLUTION CTD
Data holding centre	IFREMER / IDM / SISMER - Scientific Information Systems for the SEA
Country	France 1
Project	OCEANOGRAPHIC DATA CENTER(CDO)
Time period	1988>
Ongoing	Yes
Geographical area	Zone economique exclusive des cotes de France metropolitaine et d'Outre-Mer ainsi qu'en Golfe de Guinee
Observations	
Parameters	Variable fluorescence parameters; Dissolved oxygen parameters in the water column; Salinity of the water column; Temperature of the water column; Visible waveband radiance and irradiance measurements in the water column
Instruments	Fluorometers; optical backscatter sensors; CTD
Description	
Summary	CTD data collected during the French oceanographic coastal cruises
Originators	ACTIMAR CEA / DEPT DASE/ SERVICE TMG CEREGE COM - Physical and Biogeochemical Oceanography Laboratory (Endoume) COM - Physical and Biogeochemical Oceanography Laboratory (LUMINY) EPOC - Geology and Oceanography Department IFREMER / DVIECO/-LERCO Laboratory of coastal Benthic Ecology IFREMER / GNI-CERCO Laboratory of Coastal Benthic Ecology IFREMER / STATION DEL ATEMIT HALIEUTIQUE DE MANCHE-MER DU NORD IFREMER / STATION DEL ATEMIT IFREMER / STATION DEL STEF IFREMER / STAT

Data size

0.008

-Data set creation date	20180530			
WHERE?				
Мар	-105			CSR Reference
		SeaDataNe	PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT	CRUISE SUMMARY REPORT INVENTORY (CSR)
Latitude 1	50.1425			
Longitude 1	0.896833			
Measuring area type	point	CRUISE S	UMMARY REPORT OF TH	ALASSA CRUISE IBTS 2018 (BSH REF-NO.:
Water depth (m)	-9999	2016520	2)	
Depth reference	sea level	GENERAL INFORMATION		
Sea regions	Dover Strait	Platform/Ship	Thalassa	
WHEN?		Cruise begin	15.01.2018	
Start date	20180211	Cruise end	12.02.2018 Boulogne, France	
Start time	06-36-00	Departure		
Sultine	00.50.00	Port of Return	Boulogne, France	
End date	20180211	Chief Scientist(s)	VERIN YVES - IFREMER / HMMN-DEPARTEMENT I	HALLEUTIQUE DE MANCHE-MER DU NURD
End time	07:36:00	Responsible	IFREMER / HMMN-DEPARTEMENT HALIEUTIQUE	DE MANCHE-MER DU NORD
HOW?		Laboratory		
Instrument / gear type	СТD	General Ocean	English Channel, North Sea	
Vertical resolution	1 Decibars	Areas		
Platform type	research vessel	Marsden Squares (S, N, E,		
Cruise name	IBTS 2018	W)		
Alternative cruise name	18000003	Bounding Box(es)	-1.4 8.9 49.6 55	
Cruise start date	20180115	Specific	Sud mer du Nord et Manche Orientale	
Cruise Summary Report (CSR)	🕼 IBTS 2018 - Thalassa (35HT)	Areas		
Station name	FI3520180003000144	Link to Track Charts		
Alternative station name	144	PROJECT		
Station start date	20180211	Project Title /	IBTS - INTERNATIONAL BOTTOM TRAWL SURVEY	(IBTS) - FRANCE / IFREMER / HMMN-DEPARTEMENT HALIEUTIQUE DE MANCHE-MER DU NORD
WHO?				
Originator	■ IFREMER / HMMN-DEPARTEMENT HALIEUTIQUE DE MANO	HE-MER DU N	ORD	
Data Holding centre	IFREMER / IDM / SISMER - Scientific Information Systems f	or the SEA		
Project name	☑ INTERNATIONAL BOTTOM TRAWL SURVEY (IBTS) - FRANCE			



## Hands-on session

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#### **Objectives**

Be trained on specific functions of MIKADO software

- Generation of CDI XML file using the NEMO summary file
- Adding CSR and EDMED references in CDI files using MIKADO manual and MIKADO automatic
- Alternative solution for CDI generation for Excel users

https://classroom.oceanteacher.org/course/view.php?id=335 Workshop SeaDataNet tools: MIKADO

- Exercise 1: NEMO-MIKADO interactions
- Exercise 2: CSR and EDMED references in CDI files
- Exercise 3: Alternative solutions for Excel users



#### Exercise 1: NEMO – MIKADO interactions

Step 1: Create a new configuration file using NEMO summary file (CDI\_SUMMARY.txt)

- Menu "Automatic"
  - Select "New" / "CDI from NEMO export"

→ MIKADO creates automatically a configuration file at the same place than the NEMO summary file.



FP6 programme under agreement n° 026212 SeaDataNet (2006-2011).



#### Exercise 1: NEMO – MIKADO interactions

Connection Queries					
Database	Preset				
Driver class name org.relique.jdbc.csv.CsvDriver	Mysql Oracle	Mikado 3.5 SDN V2 Automatic / CDI 19139 : N:\	projets\seadataclou	ud\Meetings\Training Workshops\2018-06 Training 1\Practical_wo	ork\MIKADO\CDI_SUMMAR
JDBC connect url 3 Training 1\Practical_work\MIKADO?fileExtension=.txt&separat	or= Access Excel	Manual Automatic Options Tools ?			
User	Ms Server PostgreSql	Connection Queries			
Passwd	Sybase LibreOffice		query		
		Main Query	SELECT		
	CSV Other	🚽 🗸 :\$ Cdi identifier	SELEC	var sql	
Taet		Single subqueries		:\$ distinct LOCAL_CDI_ID	
		√ var02 Measuring area type			
Check JDBC driver loaded		🗸 var03 Horizontal Datum			
Connected to database		√ var04 Dataset name			
		✓ var05 Dataset-id ✓ var06 Revision date (dataset)	FROM		
		varios Revision date (dataset)		CDI_SUMMARY	
		🗸 var09 Holding Centre (custodian)			
		√ var12 Platform	WHERE		2
		✓ var15 Cruise name			
		√ var17 Cruise start date			
		✓ var18 Station name			
		✓ var19 Station short name			
		✓ var20 Station start date			
		var21 Time resolution value			
		√ var28 Start date (dataset)	ORDER BY	LOCAL_CDI_ID	2
		✓ var29 End date (dataset)			
		✓ var30 Minimum depth of instrument			
		✓ var31 Maximum depth of Instrument ✓ var34 Vertical datum	Test		
		√ var35 Water depth			
		✓ var36 Distributor	check	:\$ = [FI361997010120_00010_H13]	
		✓ var45 Vertical resolution value			
		✓ var46 Vertical resolution unit var47 Herizontal resolution value			
		√ var48 Horizontal resolution value			
		✓ var80 EDMED Reference			
		√ var81 CSR Reference			
		<ul> <li>Multiple subqueries</li> <li>var07 Originators (dataset)</li> </ul>			
		✓ varior originators (dataset) ✓ var10 Parameters			
		√ var11 Instruments	7		



SeaDataCloud 1st training session, Ostende, Belgium, 20-27 June 2018

#### Exercise 1: NEMO – MIKADO interactions

Step 2: Generate the CDI XML files

- Menu "Automatic"
  - Select "Generate" / "CDI"




#### Exercise 1: NEMO – MIKADO interactions

🛃 Mi

Mani

Select the configuration file automatically created by MIKADO

ado 3.5 SDN V2	Automatic / Gen	erate CDI 19139	2012 A 101 A 101			_ 0	23
al Automatic Op	otions Tools ?						
	Automatic id Open configurati Look In:	on MIKADO MARY.xml					
	File <u>N</u> ame: Files of <u>T</u> ype:	CDI_SUMMARY.xml		Open con	iguration Cancel		
,							



#### Exercise 1: NEMO – MIKADO interactions

#### Select the output folder

C output	
Folder Name: N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practical_work\MIKADO\output	
Files of Type: directory	
Export	Cancel
	_



#### Exercise 1 : NEMO – MIKADO interactions

#### Generate the XML files

Mikado 3.5.1 SDN V2	Automatic / Generate CDI 19139 : N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Practic	a x
Manual Automatic Op	tions Tools ?	
	SeaDataNet CDI	
	Automatic	
	Id HIS51997010120_00810_H13	
	count 81	
STATEMENT STATE COLOR		
	100	%
	Automatic generation successful	





#### Exercise 1 : NEMO – MIKADO interactions

#### The 81 CDI XML files have been created!

v projets > seadatacloud > Meetings > Training	Workshops	2018-06 Training 1  Practical_work  M	IKADO 🕨 output		▼ 4 <sub>7</sub> Rea	chercher dans : output		
rganiser 🔻 Nouveau dossier							•	6
	-	Nom	Modifié le	Туре	Taille			
🧮 Bureau		FI351997010120_00010_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
퉬 seadatanet2		FI351997010120_00020_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
퉬 seadatacloud		FI351997010120_00030_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
🎍 Mikado		FI351997010120_00040_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
퉬 Imdis_2018		FI351997010120_00050_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
🐌 2015_Archimède		FI351997010120_00060_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
📕 banque_de_geologie		FI351997010120_00070_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
📙 banque_de_geophysique		FI351997010120_00080_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
PERSO		FI351997010120_00090_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
Emplacements récents		FI351997010120_00100_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
Téléchargements	=	FI351997010120_00110_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
		PI351997010120_00120_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
Bibliothèques		PI351997010120_00130_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
Documents		FI351997010120_00140_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
Images		FI351997010120_00150_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
Musique		FI351997010120_00160_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
Vidéos		PI351997010120_00170_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
		PI351997010120_00180_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
Ordinateur		FI351997010120_00190_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
a documentLibrary (\\ged-ifr\Alfresco\seadatanet) (A:)		PI351997010120_00200_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
🚣 OS (C:)		PI351997010120_00210_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
連 eole (\\homedir3) (E:)		FI351997010120 00220 H13.xml	11/06/2018 09:36	Document XML	35 Ko			
idmtmp7 (\\homedir3) (F:)		FI351997010120 00230 H13.xml	11/06/2018 09:36	Document XML	35 Ko			
gm_labsed2 (\\tera10) (L:)		FI351997010120 00240 H13.xml	11/06/2018 09:36	Document XML	35 Ko			
sismercb (\\homedir7) (N:)		PI351997010120_00250_H13.xml	11/06/2018 09:36	Document XML	35 Ko			
₽ p (\\brest) (P:)		FI351997010120 00260 H13.xml	11/06/2018 09:36	Document XML	35 Ko			
vtosello (\\homedir4) (Q:)		FI351997010120 00270 H13.xml	11/06/2018 09:36	Document XML	35 Ko			
isi-projets (\iota1) (T;)	-	EI351997010120_00280_H13 xml	11/06/2018 09:36	Document XMI	35 Ko			



#### Exercise 1 : NEMO – MIKADO interactions

#### Step 3: Open one of the XML files in MIKADO manual

Mikado 3.5 SDN V2 Manual / CDI : N:\projets\seadatacloud\Meetings	s\Training Workshops\2018-06 Training 1\Practical_work\MIKADO\output\FI351997010120 🗖 🔳 🗮 🌉	
Manual Automatic Options Tools ?	<u>a</u>	
Identification Where When What How Who Where to find	d the data Cruise/Station Documentation Quality Others	
	Mikado 3.5 SDN V2 Manual / CDI : N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Pr	ractical_work\MIKADO\output\FI351997010120
Dataset-id * FI351997010120_00010_H13	Manual Automatic Options Tools ?	🔈
CDI identifier * urn:SDN:CDI:LOCAL:FI351997010120_000	Identification Where When What How Who Where to find the data Cruise/Station Documentati	Manual Automatic Ontions Tools 2
Dataset-name * CALMAR97	Baramatara	Lidentification   Miller   Miller   Miller   Miller   Miller   Miller   Miller   Contra Disting   Descented ing   Contin   Contra
	Parameters	
	Vertical spatial coordinates     AHGT	EDMED Reference
	Temperature of the water column TEMP	EDMED Identifier
The ID must be a UNIQUE LOCAL identifier The LOCAL_ID is vital for so the Central system will recognise whether new contributions are	fo	code list value
cords OR really new records.		Projects
	Abstract * Not Specified	project code list value
		Data format
		format     code     version     Version     Ocean Data View ASCII     ODV     0.4
		Climate and Forecast P CFPOINT 1.0
		Revision date 108/06/2018 dt/mm/www.(25/01/2007)



# Exercise 2 : CSR and EDMED references in CDI files

Add a CSR reference and a EDMED reference in the CDI XML files generated with the NEMO summary file

- using MIKADO manual
- using MIKADO automatic



#### Exercise 2 : CSR and EDMED references in CDI files

#### **MIKADO** manual

 Open one CDI XML file generated during exercise 1 (Menu "Manual" > Open > CDI)

		10/1	( <b>11</b> -11)	14/1	1/6 I- E I/6		Desurrentette	Quality	0			
Identification whe	re wr	en   what	HOW	who	where to find the dat	Cruise/Station	Documentatio	Quality	Others			_
)stasst.id	* 6	251007010	120 000	10 112								
Jalaberiu	-	551997010	120_000	/IU_H13								
DI identifier	* u	n:SDN:CDI	LOCAL:	FI351997	010120_00010_H13							
)ataset-name	* 0	ALMAR97										
The ID must be a	UNIQU	LOCALide	entifier Th	1e LOCA	D is vital for the up	dating process.						
The ID must be a so the Central sys	UNIQUI	LOCAL ide	entifier Th whether r	ne LOCA	ID is vital for the up	dating process, ES of existing re						
The ID must be a so the Central sys	UNIQUI stem wil	LOCAL ide recognise	entifier Th whether r	ne LOCA	ID is vital for the up ributions are UPDAT	dating process, ES of existing re						
The ID must be a so the Central sy: cords OR really n	UNIQUI stem wil ew reco	LOCAL ide recognise d	entifier Th whether r	ne LOCA new cont	ID is vital for the up ributions are UPDAT	dating process, S of existing re						
The ID must be a so the Central sy: cords OR really n	UNIQUI stem wil	LOCAL ide recognise ds.	entifier Th whether r	te LOCA new cont	_ID is vital for the up ributions are UPDAT	dating process, S of existing re						
The ID must be a so the Central sy cords OR really n	UNIQUI stem wil	LOCAL ide recognise ' ds.	entifier Th whether r	ne LOCA new conf	_ID is vital for the up ributions are UPDAT	fating process, S of existing re						
The ID must be a so the Central sy: cords OR really n	UNIQUI stem wil	LOCAL ide recognise ds.	entifier Th whether r	ne LOCAI new cont	_ID is vital for the up ributions are UPDAT	lating process, S of existing re						
The ID must be a so the Central sy: cords OR really n	UNIQUI stem wil	LOCAL ide recognise ds.	entifier Th whether r	ne LOCA new cont	_ID is vital for the up ributions are UPDAT	dating process, IS of existing re						
The ID must be a so the Central sy: cords OR really n	UNIQUI stem wil	LOCAL ide recognise ds.	entifier Th whether r	ne LOCA new cont	_ID is vital for the up ributions are UPDAT	dating process, S of existing re						
The ID must be a so the Central sy so the Central sy cords OR really n	UNIQUI stem wil	LOCAL ide recognise ' ds.	entifier Th whether r	ne LOCAI	_ID is vital for the up ributions are UPDAT	dating process, SS of existing re						
The ID must be a so the Central sy: cords OR really n	UNIQUI stem wil	LOCAL ide recognise ' ds.	entifier Th whether r	ne LOCAI	_ID is vital for the up ributions are UPDAT	tating process, S of existing re						
The ID must be a so the Central sy: cords OR really n	UNIQUI stem wil	LOCAL ide recognise t ds.	entifier Th whether r	ie LOCA new cont	_ID is vital for the up ributions are UPDAT	tating process, iS of existing re						





# Exercise 2 : CSR and EDMED references in CDI files

# MIKADO manual

- Add a CSR reference in the "Cruise/Station" tab
  - Search by name, local ID or central ID (Use \* to set filter in the CSR list and <return> for next match)
  - Cruise name: CALMAR97
  - CSR local ID 97010120 (EDMO 486)
  - CSR central ID 19976012

🚣 Mikado 3.5.1 SDN V2 🛛 N	/lanual / CDI : N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Solutions\MIKADO\Ex1\o 💷 💷 💻 🌉
Manual Automatic Option	ns Tools ?
Identification Where	When What How Who Where to find the data Cruise/Station Documentation Quality Others
CSR Reference	
CSR Identifier	CALMAR97 - L'Atalante (35A3)
code list value	19976012
Cruise information	
Cruise name	
Cruise id	
Start date	dd/mm/yyyy (25/01/2007)
Station information	
Station name	* 010
Station id	* 010
Start date	* 13/11/1997 dd/mm/yyyy (25/01/2007)



# Exercise 2 : CSR and EDMED references in CDI files

## MIKADO manual

- Add a EDMED reference in the "Others" tab
  - Search by name, local ID or central ID (Use \* to set filter in the EDMED list and <return> for next match)
  - Central ID 6218
  - Local ID XBTF01 (EDMO 486)

anual Automatic Options		straining transformers to raining 1 bolations (mild bo (Ext (o
anda hatomato optiona	Tools ?	
Identification Where W	hen What How Who Where to find	the data Cruise/Station Documentation Quality Others
EDMED Reference		
EDMED Identifier	rranean XBT, XCTD and Lagrangian Drift	er vertical profiles collected from 1995 to present 🛛 🖓 🛍
code list value	6812	
Projects		
project	code list value	
Data format		
format	codo version	
Ocean Data View ASC		
Climate and Forecast	P CFPOINT 1.0	



### Exercise 2 : CSR and EDMED references in CDI files

# **MIKADO** manual

- Save the XML file
  - Menu Manual
    - Save or Save as

Mikado 3.5.1 SDN	V2 N	lanual /	CDI : N:\	projets\	seadata	cloud\Meetings\Tr	aining	Workshops\2018	-06 Training 1\Prac	tical_work	MIKADO	Ex1_NEMO_MIK	ADO\output\FI3	51	~
Manual Automatic	Option	is Tool	s ?												
New > Open > Download > Save >	nere	When	What	How	Who	Where to find the	data	Cruise/Station	Documentation	Quality	Others	<u> </u>			
Save as ► Exit	URI	Stream	n for Wel 76012	b Servic	e (35	A3)				2					
Cruise informatio	n														
Start date				dd/r	nm/yyyy	(25/01/2007)									
Station information	on														
Station name		* 010	)												
Station id		* 010	)	_											
Start date		* 13/	11/1997	dd/r	nm/yyyy	(25/01/2007)									



### Exercise 2 : CSR and EDMED references in CDI files

# Open the XML file using text editor and look for SDN\_CSRCode and SDN\_EDMEDCode

- <gmd:code>

<sdn:SDN\_EDMEDCode codeListValue="4519" codeList="http://vocab.nerc.ac.uk/isoCodelists/sdnCodelists/edmedCodeList.xml#SDN\_EDMEDCode" codeSpace="SeaDataNet">XBT, XCTD,
LAGRANGIAN DRIFTER PROFILES IN W-MEDITERRANEAN</sdn:SDN\_EDMEDCode>
</amd:code>

- <gmd:code>

<sdn: SDN\_CSR Code codeListValue="19976012" codeList="http://seadata.bsh.de/isoCodelists/sdnCodelists/csrCodeList.xml#SDN\_CSR Code" codeSpace="SeaDataNet">CALMAR97 - L'Atalante (35A3)</sdn: SDN\_CSR Code>

</gmd:code>



# Exercise 2 : CSR and EDMED references in CDI files

- Open the configuration file of Exercise 1
  - Menu Automatic > Open > CDI
- Add a CSR reference (var81)
  - Cruise name: 'CALMAR97'
  - CSR local ID '97010120'
  - CSR central ID '19976012'





# Exercise 2 : CSR and EDMED references in CDI files

- Add a EDMED reference (var 80)
  - Local ID 'XBTF01'
  - Central ID '6218'

Connection Queries				
Requests	query			
Main Query	051507			
🗹 :\$ Cdi identifier	SELECT	var	sql	
Single subqueries		var18	STATION_NAME	
🗸 var01 CDI Partner				-N 🗶
🗸 var02 Measuring area type		varig	STATION_NAME	0
🗸 var03 Horizontal Datum		var20	SUBSTRING(STATION_DATE,1,10)	
✓ var04 Dataset name		war90	VRTE01	
✓ var05 Dataset-id		Varou	ABIFUI	Ŧ
✓ var06 Revision date (dataset	FROM		NHARY	- P)
✓ var08 Abstract (dataset)		CDI_SU	MMART	-
✓ var09 Holding Centre (custo)				
√ var12 Platform	WHERE			2
✓ var15 Cruise name		LOCAL_	ф. <u>- d</u> _dd	
✓ var16 Cruise short name				
✓ var17 Cruise start date				
✓ var18 Station name				
✓ var19 Station short name				
✓ var20 Station start date				
✓ var21 Time resolution value				
✓ var22 Time resolution unit				
✓ var28 Start date (dataset)	ORDER BY			-
✓ var29 End date (dataset)				
Var30 Minimum depth of instri				
Var31 Maximum depth of Instr	Test			
Var34 Vertical datum	Test			
Var35 Water depth	chack			
Variab Distributor	CHECK			
Variab Vertical resolution value				
Var46 Vertical resolution unit				
Var47 Horizontal resolution va				
Var48 Holizofital resolution di				
var80 EDMED Reference				
Multiple subqueries				
- maluple subquelles				



SeaDataNet

SeaDataCloud 1st training session, Ostende, Belgium, 20-27 June 2018

# Exercise 2 : CSR and EDMED references in CDI files

- Check the queries
- Save the configuration file
- Generate the XML files
  - Mapping for CSR
  - Mapping for EDMED

Ĩ	Mikado 3.5.1 SDN V2	Automatic / Generate CDI 19139 : N:\projets\seadatacloud\Meetings\Training Workshops\2018-06 Training 1\Solutions\MIKAD		23
L	Manual Automatic Opti	ons Tools ?		
		SeaDataNet CDI		
ľ		Automatic		
l		id FI351997010120_00810_H13		
l	1 cm			
	Management and server	count 81		
			100%	
		Automatic generation successful		



#### Exercise 2 : CSR and EDMED references in CDI files

- To avoid mapping:
  - Use Central ID or
     "EDMO\_code"\_"Local\_ID"
     in var80/81 queries
  - Ex:
    - CSR: '19976012' or '486\_97010120'
    - EDMED: '6812' or '486\_XBTF01'



# Exercise 2 : CSR and EDMED references in CDI files

# Open the XML file using text editor and look for SDN\_CSRCode and SDN\_EDMEDCode

- <gmd:code>

<sdn:SDN\_EDMEDCode codeListValue="4519" codeList="http://vocab.nerc.ac.uk/isoCodelists/sdnCodelists/edmedCodeList.xml#SDN\_EDMEDCode" codeSpace="SeaDataNet">XBT, XCTD,
LAGRANGIAN DRIFTER PROFILES IN W-MEDITERRANEAN</sdn:SDN\_EDMEDCode>
</amd:code>

- <gmd:code>

<sdn: SDN\_CSRCode codeListValue="19976012" codeList="http://seadata.bsh.de/isoCodelists/sdnCodelists/csrCodeList.xml#SDN\_CSRCode" codeSpace="SeaDataNet">CALMAR97 - L'Atalante (35A3)</sdn: SDN\_CSRCode>

</gmd:code>



#### Exercise 2 : CSR and EDMED references in CDI files

CSR and EDMED references in CDI portal



PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

#### SEADATANET COMMON DATA INDEX (CDI) V3



ADD TO	D BASKET 📜		TIMESERIES	IN SUMMARY ZOOM TO SERVICE Refine query New query	LECTED EXPORT RESULT STORE QUERY ound 81   Show (1-20)   Previous   Next 2		
<b>#</b>	Data set name 🛱	DC country \$	Start date \$	Disciplines - Topics	Instrument / gear type 🖨	Show	
	FI35199701012_00810_H13(x3500261.997)	France	19971126	Administration and dimensions > Administration and dimensions Physical oceanography > Water column temperature and salinity	bathythermographs	•	
	FI35199701012_00800_H13(x3500261.997)	France	19971125	Administration and dimensions > Administration and dimensions Physical oceanography	bathythermographs	0	



#### Exercise 2 : CSR a TOOLS®

# CSR and EDMED references in CDI portal

#### SeaDataCloud 1st training session, Ostende, Belgium, 20-27 June 2018



PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

#### SEADATANET COMMON DATA INDEX (CDI) V3



GEMET-INSPIRE themes	Oceanographic geographical features
Abstract	Sondes Sparton XBT -
Related EDMED dataset	🕼 Mediterranean XBT, XCTD and Lagrangian Drifter vertical profiles collected from 1995 to present
Data format	Ocean Data View ASCII input Version 0.4 MEDATLAS ASCII Version 2.0
Data size	8.270641E-03
Data set creation date	20180614



#### Exercise 2 : CSR and

CSR and EDMED references in CDI portal

#### SeaDataCloud 1st training session, Ostende, Belgium, 20-27 June 2018





- Case 1: Excel file with one sheet
  - Convert your Excel file into csv file to be connected with MIKADO
- Case 2: Excel file with several sheets
  - Try to merge your different sheets in only one sheet and convert your file into csv file → case 1
  - Store your metadata in a database (Open Office database, Microsoft Office Access, MySQL, ...)



# Exercise 3: Alternative solutions for Excel users

• Excel file with one sheet

Files CDI\_SUMMARY.xlsx CDI\_SUMMARY\_excel\_ones heet.xml

Convert the Excel file into csv file using Microsoft Office Excel or Open Office Calc

- Save as
- Select csv type
- Save

CDI_SUMMARY.xisx - OpenOffice Cal	IC					_				
Enregistrer sous	a los gome per				X					×
📿 🖓 🗸 🖉 🖉 🖉 🖉	► Hands-on ► MIKADO	excel_onesheet	<b>▼</b> 4	Rechercher dans .	excel_onesh 🔎	Find	- 🕹 🕯	· 📕		
Organiser 🔻 Nouveau dossier					H • 🔞					
Documents	▲ Nom	*	Modifié le	Туре	Taille					
🔚 Images						0	Р	0 R	s .	-
🚽 Musique		Aucun élément r	ne correspond à votre	recherche.		ION_NA ST	ATION_L+ST	ATION_LISTATION DE	DMO_DIST FO	1 😵
Vidéos						10	41,07	2,02 1997-11-137	486 OD	
						10	41,07	2,02 1997-11-137	486 CFI	1
🖳 Ordinateur						10	41,07	2,02 1997-11-13	486 OD	
👳 documentLibrary (\\ged-ifr\Al	lfr					20	40.87	1.78 1997-11-131	486 OD	🐃
🚢 OS (C:)						20	40,87	1,78 1997-11-131	486 CFI	6
eole (\\homedir3) (E:)	=					20	40,87	1,78 1997-11-131	486 OD	
👳 idmtmp7 (\\homedir3) (F:)						20	40,87	1,78 1997-11-13	486 CFI	£×
gm_labsed2 (\\tera10) (L:)						30	40,58	1,62 1997-11-13	486 OD	
sismercb (\\homedir7) (N:)						30	40,58	1.62 1997-11-131	486 OD	
p (\\brest) (P:)						30	40,58	1,62 1997-11-131	486 CFI	
wtosello (\\homedir4) (0;)						40	39,8	1,12 1997-11-131	486 OD	
	<b>▼</b>		III		•	40	39,8	1,12 1997-11-13	486 CFI	
Nom du fichier (DI SUMMAR)	V cov				_	40	39,8	1,12 1997-11-13	486 OD	
	11034				•	50	39.73	1 08 1997-11-14	486 OD	
Type : Text CSV (.csv)	(*.csv)				•	50	39,73	1,08 1997-11-147	486 CFI	
Automa	tic file name					50	39,73	1,08 1997-11-141	486 OD	
extensio	n					50	39,73	1,08 1997-11-14	486 CFI	
Save wit	h password					60	39,78	1,55 1997-11-14	486 OD	
Edit filte	r settings					60	39,70	1,55 1997-11-14	486 OD	
						60	39,78	1,55 1997-11-147	486 CFI	•
Cacher les dossiers				Enregistrer	Annuler	70	40,37	1,85 1997-11-15	486 OD	
						70	40,37	1,85 1997-11-15	486 CFI	
20 113513510172010-00-00	405 Not Opecine 495 Not Cossifiat		2110		1007 11 12	70	40,37	1,85 1997-11-15	486 OD	
29 FI35199701 2018-06-08	465 Not Specifier	400 I EIVIP	311.5	CALMAR97	1997-11-13	80	40,37	3 17 1997-11-15	486 OD	
31 FI35199701 2018-06-08	485 Not Specifie	486 AHGT	31LS	CALMAR97	1997-11-13	80	41,45	3,17 1997-11-15	486 CFI	
32 FI35199701 2018-06-08	485 Not Specifie	486 TEMP	31 LS	CALMAR97	1997-11-13	80	41,45	3,17 1997-11-15	486 OD	
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• Update the queries



Syntax is not the same for querying an Excel file and a Open Office database

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- Check all the queries
- Save the configuration file
- Generate XML files

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- Case 1: Excel file with one sheet
  - Convert your Excel file into csv file to be connected with MIKADO
- Case 2: Excel file with several sheets
  - Try to merge your different sheets in only one sheet and convert your file into csv file → case 1
  - Store your metadata in a database (Open Office database, Microsoft Office Access, MySQL, ...)

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Files

#### **Exercise 3: Alternative solutions for Excel users**

#### • Case 2: Excel file with several sheet

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4 FI351997010120_000	30_H13	486 Point	CALMAR97 FI35199701 08/06/201	18 485 Not Specifie	486	31 LS	CALMAR97	30	40,58	1,62 1997-11-13	486	0,4	
5 FI351997010120_000	40_H13	486 Point	CALMAR97 FI35199701 08/06/20	18 485 Not Specifie	486	31LS	CALMAR97	40	39,8	1,12 1997-11-13	486	0,4	
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7 FI351997010120_000	60_H13	486 Point	CALMAR97 FI35199701 08/06/20	18 485 Not Specifie	486	31LS	CALMAR97	60	39,78	1,55 1997-11-14	486	0,4	
8 FI351997010120_000	/0_H13	486 Point	CALMAR97 F135199701 08/06/20	18 485 Not Specifie	486	3115	CALMAR97	70	40,37	1,65 1997-11-15	486	- 1	
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20 FI351997010120_001	90_H13	486 Point	CALMAR97 FI35199701 08/06/201	18 485 Not Specifie	486	31 LS	CALMAR97	190	42,53	3,53 1997-11-16	486	0,4	
21 FI351997010120_002	00_H13	486 Point	CALMAR97 FI35199701 08/06/20	18 485 Not Specifie	486	31 LS	CALMAR97	200	42,37	3,35 1997-11-16	486	0,4	
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36 FI351997010120_003	50_H13	486 Point	CALMAR97 FI35199701 08/06/201	18 485 Not Specifie*	486	31 LS	CALMAR97	350	42,97	3,95 1997-11-18	486	0,4	
37 FI351997010120_003	60_H13	486 Point	CALMAR97 FI35199701 08/06/201	18 485 Not Specifie*	486	31 LS	CALMAR97	360	42,9	3,85 1997-11-18	486	1	
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39 FI351997010120_003	80_H13	486 Point	CALMAR97 FI35199701 08/06/20	18 485 Not Specifie	486	31 LS	CALMAR97	380	42,82	3,73 1997-11-18	486	1	
40 FI351997010120_003	90_H13	486 Point	CALMAR97 FI35199701 08/06/20	18 485 Not Specifie	486	31LS	CALMAR97	390	42,93	3,7 1997-11-18	486	0,4	
41 FI35199/010120_004	00_H13	486 Point	CALMAR97 FI35199701 08/06/201	485 Not Specifie	486	31LS	CALMAR97	400	42,67	3,87 1997-11-18	486	1	
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36 FI351997010120_00350_H13	486 Point CALM	AR97 FI35199701	08/06/2018	485 Not Specifie	486	31 LS	CALM	AR97 35	0 42,97	3,95 1997-11-18₽	486	0,4 (	J,
37 FI351997010120_00360_H13	486 Point CALM	AR97 FI35199701	08/06/2018	485 Not Specifie	486	31 LS	CALM	AR97 36	0 42,9	3,85 1997-11-18₽	486	1 (	),
38 FI351997010120_00370_H13	486 Point CALM	AR97 FI35199701	08/06/2018	485 Not Specifie	486	31LS	CALM	AR97 37	0 42,83	3,72 1997-11-18	486	0,4 0	2
39 FI351997010120_00380_FI13	486 Point CALM	AR97 FI35199701	08/06/2018	485 Not Specifie	486	311.5	CALM	4K97 38	0 42,82	3,73 1997-11-16	466		2
40 FI351997010120_00390_F13	400 Point CALM	AD07 FI35199/01	08/06/2018	405 Not Specific	486	3115	CALM	AD07 40	0 42,93	3,7 1997-11-18	400	0,4 U	0
42 FI351997010120_00400_1115	486 Point CALM	AD97 FI35199701	08/06/2010	405 Not Specific	400	3110	CALM	AD97 41	0 42,07	J 15 1007-11 101	400	0.4	0
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44 FI351997010120_00430_H13	486 Point CALM	AR97 FI35199701	08/06/2018	485 Not Specifie	486	311.5	CALM	AR97 43	0 42.03	3 98 1997-11-19	486	0.4 (	ő
45 FI351997010120 00440 H13	486 Point CALM	AR97 FI35199701	08/06/2018	485 Not Specifie	486	311.5	CALM	AR97 44	0 42.25	3.75 1997-11-19	486	1 1	0
46 FI351997010120 00450 H13	486 Point CALM	AR97 FI35199701	08/06/2018	485 Not Specifie	486	31 LS	CALM	AR97 45	0 42.28	3,63 1997-11-197	486	0.4 /	0.
47 FI351997010120_00460_H13	486 Point CALM	AR97 FI35199701	08/06/2018	485 Not Specifie	486	31 LS	CALM	AR97 46	0 42,57	3,95 1997-11-197	486	1 (	0
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#### Run Open Office Base and create a new database

Database Wizard	
<u>Steps</u>	Welcome to the OpenOffice Database Wizard
1. Select database 2. Save and proceed	Use the Database Wizard to create a new database, open an existing database file, or connect to a database stored on a server.
	What do you want to do? © Create a n <u>e</u> w database
	Open an existing database <u>file</u> <u>R</u> ecently used
	CEFAS
	🖉 Open
	Connect to an existing database
Help	<< Back <u>N</u> ext >> <u>Finish</u> Cancel



Drag and drop the different sheets from Open Office Calc to Open Office base: a table will be created for each Excel sheet

CDI_summary_new.odb - OpenOffice Base	atter Breathers - 100 Die	
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Embedded database	HSQL database engine	



- Table name = Name of Excel sheet
- Check "Use first line as column names"
- Check "Create primary key"
- Click on "Next"

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#### Select all the columns

Apply columns				×
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#### Exercise 3 : Alternative solutions for Excel users

#### Click on "Next"

Existing columns		LOCAL_CDI_ID EDMO_AUTHOR AREA_TYPE DATASET_NAME DATASET_NAME DATASET_REV_DATE EDMO_ORIGINATOR DATASET_ABS EDMO_CUSTODIAN PLATFORM_TYPE DATASET_ACCESS CRUISE_NAME STATION_LATITUDE STATION_LATITUDE STATION_LONGITUDE STATION_LONGITUDE STATION_DATE EDMO_DISTRIBUTOR FORMAT_VERSION DATA SIZE	
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Define the format of each field/column

- LOCAL\_CDI\_ID
  - Type = Text

Type formatting		×					
	Column information						
EDMO_AUTHOR	<u>F</u> ield name	LOCAL_CDI_ID					
DATASET_NAME	Field <u>t</u> ype	Text [ VARCHA					
DATASET_REV_DATE	Entry required	No					
DATASET_ABS	<u>L</u> ength	255					
PLATFORM_TYPE							
CRUISE_NAME							
STATION_NAME STATION_LATITUDE							
STATION_LONGITUDE	Automatic type recognition						
EDMO_DISTRIBUTOR FORMAT_VERSION	Lines (ma <u>x</u> ) 10	Auto					
DATA_SIZE DIST_WEBSITE							
<u>H</u> elp <u>Cancel &lt; Back</u> <u>N</u> ext> <u>Create</u>							





Define the format of each field

- DATASET\_REV\_DAT
  - Type = Date

Type formatting		×		
LOCAL_CDI_ID	Column information			
EDMO_AUTHOR AREA_TYPE	<u>F</u> ield name	DATASET_REV_DA		
DATASET_NAME DATASET_ID	Field <u>t</u> ype	Date [ DATE ]		
DATASET_REV_DATE EDMO_ORIGINATOR	Entry required	No		
DATASET_ABS EDMO_CUSTODIAN	-			
DATASET_ACCESS CRUISE NAME				
STATION_NAME STATION_LATITUDE				
STATION_LONGITUDE STATION_DATE	Automatic type recognition			
EDMO_DISTRIBUTOR FORMAT_VERSION	Lines (ma <u>x</u> ) <u>10</u>	Auto		
DATA_SIZE DIST_WEBSITE	-			
<u>Help</u> <u>Cancel</u> < <u>Back</u> <u>N</u> ext> <u>Cr</u> eate				



Define the format of each field

- STATION\_LATITUDE
  - Type = Decimal
  - Decimal places = 2
- STATION\_LONGITUDE
  - Type = Decimal
  - Decimal places = 2

AREA_TYPE	Column information	
DATASET_NAME DATASET_ID	<u>F</u> ield name	STATION_LATITU
DATASET_REV_DATE EDMO_ORIGINATOR	Field <u>t</u> ype	Decimal [ DECI 💌
DATASET_ABS EDMO_CUSTODIAN	Entry required	No
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#### Click on « Create »

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DATASET_ABS	Entry required	No		
PLATFORM_TYPE	<u>L</u> ength	255		
CRUISE_NAME	Decimal <u>p</u> laces	2		
STATION_NAME				
STATION_LONGITUDE				
	Automatic type recognition			
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Embedded database	HSQL database engine	



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Embedded database

HSQL database engine



- Open the Excel configuration file
- Click on "LibreOffice" button
- Select the Open Office Base
- Check the connection



• Update the queries



Syntax is not the same for querying an Excel file and a Open Office database

- Remove [...\$] in the« From » clauses
  - [CDI\_SUMMARY\$]
  - [CDI\_PARAM\$]
  - [CDI\_FORMAT\$]
- Replace the « format » function by the « to\_char » function (var 28 and 29)





- Check all the queries
- Save the configuration file
- Generate XML files

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SeaDataNet

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# Any questions?

