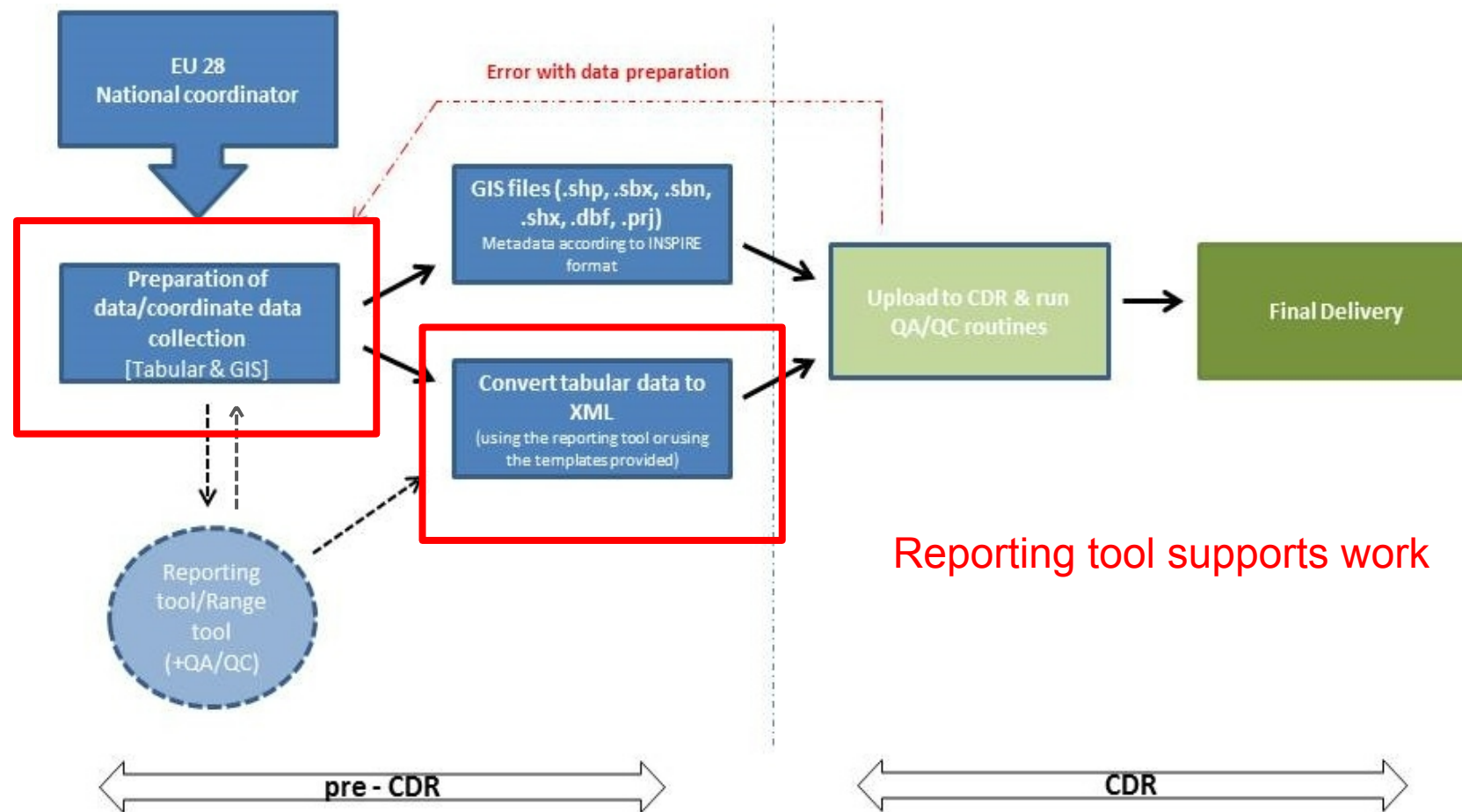


# Introduction to the reporting tool



# Generalised data flow



Reporting tool supports work



# Who uses the reporting tool and for which task?

## National Reporters

- Collect & prepare data



## National data coordinator

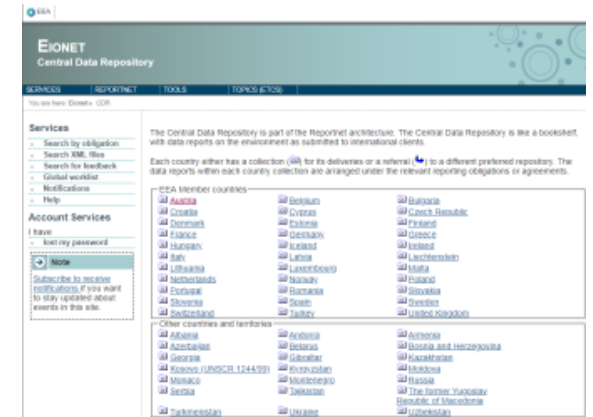
- Qa/qc data
- Merge data
- Export xml



(XML)



## CDR ReportNet



# What is the reporting tool? Which functionalities?

- MS Access based desktop application based on MS Access
  - Frontend with report forms, linked tables and VBA code
  - Backend with main look up tables, checklists and report tables
- Based on their role (reporter or coordinator) the user can
  - fill different forms (general report, biogeographical region)
  - do other tasks (import/export, validate, copy,...)
- Forms for entering the data
- Set of rules applied in the forms and final validation assures data quality
- Exports all tabular data in the requested format (link to CDR)



Tous les objets Access

Rechercher...

Tables

- lu\_art17\_habitats\_check\_list
- lu\_art17\_species\_check\_list
- lu\_assessments
- lu\_biogeoreg
- lu\_countries\_regions
- lu\_country\_code
- lu\_favourable\_range\_operator
- lu\_habitatype\_codes
- lu\_hd\_species
- lu\_measures
- lu\_measures\_identified
- lu\_measures\_location
- lu\_measures\_purpose\_habitats
- lu\_measures\_purpose\_species
- lu\_measures\_response
- lu\_methods\_used
- lu\_population\_units
- lu\_presence\_habitats
- lu\_presence\_species
- lu\_prospects
- lu\_ranking
- lu\_reason\_change
- lu\_threats
- lu\_trends
- lu\_trends\_conclusion
- lu\_type\_of\_estimate
- lu\_yes\_no\_tooearly
- lu\_yes\_no\_unknown
- merge\_diff
- Paste Errors
- sys\_dummy
- sys\_info\_fe
- sys\_yesno

### Habitats and Birds Directive Reporting Tool

## Article 17 - Habitats Directive Reporting Tool

v. 3.0

Country:

Reporter Code:

Role:

- Data reporter
- Coordinator

# Starting point: Species/habitats checklist

- The checklist defines for which species/habitat a report needs to be created.
- The checklist for the Art17/12 reporting has been discussed between MS and EC (with support of EEA -ETC/BD). This predefined checklist is available for each country in the reporting tool
- For emerald the checklist is in preparation
- Many of the rules for filling in the report format depend on the presence status
- If required the checklist in the tool can be modified (delete or add a species/habitat, change presence status)

Species checklist for the country

## Species (Article 17) checklist for AT

**Filters**

Code Name Region Presence

Filter Expressions like '9\*' can be used in the code and name filter boxes. Full text search works for names

Code	Name	Region	Presence
2487	Acipenser ruthenus	CON	Present reg
2487	Acipenser ruthenus	ALP	Present reg
4068	Adenophora lilifolia	ALP	Marginal
4068	Adenophora lilifolia	CON	Present reg
1048	Aeshna viridis	CON	Present reg
5289	Alburnus mento	CON	Marginal
5289	Alburnus mento	ALP	Present reg
4056	Anisus vorticulus	ALP	Present reg
4056	Anisus vorticulus	CON	Present reg
1614	Apium repens	ALP	Present reg
1614	Apium repens	CON	Present reg
1480	Aquilegia alpina	ALP	Present reg
1762	Arnica montana	ALP	Present reg

Code can be written in the dropdown for the new checklist item

Export Table Import Table Reset Checklist (ETC) Export XML Add New

Changed by MS  
Added by MS

Record: 1 of 355 No Filter Search



Species report

**NATIONAL LEVEL**

1. General information

1.1 Member State   Export Reporting: **Mandatory**

1.2 Species code

1.3 Species scientific name

1.4 Alternative species scientific name

1.5 Common name (in national language)

2. Maps

Distribution of the species within the Member State concerned.

2.1 Sensitive species  (tick if sensitive)

2.2 Year or period  (leave the 2nd YYYY empty if year)

2.3. Distribution map  (tick if provided)

2.4. Distribution map Method used

2.5 Additional maps  (tick if provided)

3. Information related to Annex V Species (Art. 14)

Distribution of the species within the country concerned.

3.1 Is the species taken in the wild/exploited?  (tick if yes)

If the reply is NO, or if the reply is YES and the conservation status of the species is Favourable (F) or all biogeographical regions concern the species, the user must fill in the

10/04/2018 16:55:36

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**BIOGEOGRAPHICAL LEVEL**

Complete for each biogeographical region or marine region concerned.

ATL	Atlantic
<input type="text"/>	<input type="text"/>

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For editing the information on species and habitat there are two levels:

1. national level
2. biogeographical level

Species report on Biogeographical level

Member State	Species code	Species name	Region	Presence
PT	1221	Mauremys leprosa	ATL	Present regularly

4.

5.	6.	7.	8.	9.	10.	11.	12.	13.
----	----	----	----	----	-----	-----	-----	-----

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information



Species report on Biogeographical level

Member State	Species code	Species name	Region	Presence
PT	1221	Mauremys leprosa	ATL	Present regularly

4. **5.** 6. 7. 8. 9. 10. 11. 12. 13.

**5. Range**

Range within the biogeographical/marine region concerned.

5.1 Surface area (km<sup>2</sup>)

5.2 Short-term trend Period

5.3 Short-term trend Direction

5.4 Short-term trend Magnitude

a) Minimum (for 50%, please enter 50)

b) Maximum (for 50%, please enter 50)

5.5 Short-term trend Method used

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude

a) Minimum (for 50%, please enter 50)

b) Maximum (for 50%, please enter 50)

5.9 Long-term trend Method used

5.10 Favourable reference range

only one of a), b) or c) must be filled!

a) Area (km<sup>2</sup>)

b) Operator

c) Unknown (tick if yes)

d) Method

Notes report Validate Report Validate Region Close

Design of the forms reflects the report format

5 Range	
Range within the biogeographical/marine region concerned.	
5.1 Surface area	Total surface area of the range within biogeographical/marine region concerned in km <sup>2</sup>
5.2 Short-term trend Period	2007–2018 (rolling 12-year time window) or period as close as possible to that. The short-term trend should be used for the assessment of range
5.3 Short-term trend Direction	stable / increasing / decreasing / uncertain / unknown
5.4 Short-term trend Magnitude	a) Minimum Percentage change over the period indicated in the field 5.2. If a precise value is known provide the same value under both minimum and maximum
	b) Maximum Percentage change over the period indicated in the field 5.2. If a precise value is known provide the same value under both minimum and maximum
Optional	
5.5 Short-term trend Method used	Select one of the following methods: a) Complete survey or a statistically robust estimate b) Based mainly on extrapolation from a limited amount of data c) Based mainly on expert opinion with very limited data d) Insufficient or no data available
5.6 Long-term trend Period	A trend calculated over 24 years (1994–2018)
Optional	
5.7 Long-term trend Direction	stable / increasing / decreasing / uncertain / unknown
Optional	
5.8 Long-term trend Magnitude	a) Minimum Percentage change over the period indicated in the field 5.6. If a precise value is known provide the same value under both minimum and maximum
	b) Maximum Percentage change over the period indicated in the field 5.6. If a precise value is known provide the same value under both minimum and maximum
Optional	



Many report fields have a fixed vocabulary (code lists)  
The values from these codes lists are displayed as drop-down lists

Species report on Biogeographical level

Member State	Species code	Species name	Region	Presence
PT	1221	Mauremys leprosa	ATL	Present regularly

4. 5. 6. 7. 8. 9. 10. 11. 12. 13.

**5. Range**

Range within the biogeographical/marine region concerned.

5.1 Surface area (km<sup>2</sup>)

5.2 Short-term trend Period

5.3 Short-term trend Direction

5.4 Short-term trend Magnitude

5.5 Short-term trend Method used

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude  
a) Minimum  (for 50%, please enter 50)  
b) Maximum  (for 50%, please enter 50)

5.9 Long-term trend Method used

5.10 Favourable reference range  
only one of a), b) or c) must be filled!  
a) Area (km<sup>2</sup>)   
b) Operator   
c) Unknown (tick if yes)   
d) Method

Notes report Validate Report Validate Region Close

lu\_trends

code	name	order	Clig
D	Decreasing (-)	3	
I	Increasing (+)	2	
S	Stable (0)	1	
U	Uncertain (u)	4	
Unk	Unknown (x)	5	
*		0	

Enr: 1 sur 5 | Aucun filtre | Rechercher

Species report

**Species report**

1.1 Member State   Export Reporting:

1.2 Species code

1.3 Species scientific name

1.4 Alternative species scientific name

1.5 Common name (in national language)

**2. Maps**

Distribution of the species within the Member State concerned.

2.1 Sensitive species (tick if sensitive)

2.2 Year or period (leave the 2nd YYYY empty if year)

2.3 Distribution map (tick if provided)

2.4 Distribution map Method used

2.5 Additional maps (tick if provided)

**3. Information related to Annex V Species (Art. 14)**

Distribution of the species within the country concerned.

3.1 Is the species taken in the wild/exploited? (tick if yes)

If the reply is NO, or if the reply is YES and the conservation status of the species is Favourable (FV) in all biogeographical or marine regions where the species occurs, then do not fill in the remaining fields of this section.  
If the reply is YES and the conservation status of the species is unfavourable (U1 or U2) in one or more biogeographical/marine regions where the species occurs, please complete the

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repSpecies

**Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)**

**NATIONAL LEVEL**

**1. General information**

1.1 Member State

1.2 Species code

1.3 Species scientific name

1.4 Alternative species scientific name

1.5 Common name (in national language)

**2. Maps**

2.1 Sensitive species

2.2 Year or period

2.3 Distribution map

2.4 Distribution map Method used

2.5 Additional maps

**3. Information related to Annex V Species (Art. 14)**

3.1 Is the species taken in the wild/exploited?

3.2 Which of the measures in Art. 14 have been taken?

a) regulations regarding access to property

b) temporary or local prohibition of the taking of specimens in the wild and exploitation

c) regulation of the periods and/or methods of taking specimens

d) application of hunting and fishing rules which take account of the conservation of such populations

e) establishment of a system of licences for taking specimens or of quotas

f) regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens

g) breeding in captivity of animal species as well as artificial propagation of plant species

h) other measures

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repSpecies

**Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)**

3.3 Hunting bag or quantity taken in the wild for Mammals and Acipenseridae (Fish) a) Unit

b) Statistics/quantity taken Provide statistics/quantity per hunting season or per year (where season is not used) over the reporting period

Season/ year	Season/ year 1	Season/ year 2	Season/ year 3	Season/ year 4	Season/ year 5	Season/ year 6
Min. (raw, ie. not rounded)						
Max. (raw, ie. not rounded)						
Unknown	No	No	No	No	No	No

3.4. Hunting bag or quantity taken in the wild Method used

3.5. Additional information

**BIOGEOGRAPHICAL LEVEL**

**4. Biogeographical and marine regions**

4.1 Biogeographical or marine region where the species occurs

4.2 Sources of information

**5. Range**

5.1 Surface area

5.2 Short-term trend Period

5.3 Short-term trend Direction

5.4 Short-term trend Magnitude a) Minimum b) Maximum

5.5 Short-term trend Method used

5.6 Long-term trend Period

5.7 Long-term trend Direction

5.8 Long-term trend Magnitude a) Minimum 10 b) Maximum 50

5.9 Long-term trend Method used

5.10 Favourable reference range a) Area (km<sup>2</sup>) b) Operator c) Unknown d) Method

5.11 Change and reason for change in surface area of range  The change is mainly due to:

5.12 Additional information

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Page: 14 < 2 > Filtré

Function « Print Preview » : allows to check all information related to a selected species/habitat in a single document

## Species (Article 17) reports

Show Duplicates

 Show only chosen for export

Country Code	Species Name	Last modified	Actor	Creator	Regions	Export	Valid	Validated on	Edit	Delete	Diff	Copy...			
PT	6987	Angelica lignescens	10/04/2018	1234	1234		Yes			No		Edit	Delete	Diff	Copy...
PT	1560	Anthyllis lemanniana	10/04/2018	123	123		No			No		Edit	Delete	Diff	Copy...
PT	1560	Anthyllis lemanniana	10/04/2018	1234	1234		No			No		Edit	Delete	Diff	Copy...
PT	1614	Apium repens	10/04/2018	1234	1234		No			No		Edit	Delete	Diff	Copy...
PT	1221	Mauremys leprosa	10/04/2018	123	1234	ATL	Yes			No	10/04/2018	Edit	Delete	Diff	Copy...

User can select the reports to be exported

Duplicates are identified (highlighted in red)

Highlight in red shows a duplicated report, this might be a case where experts worked on different part of the same report.

Import ACCDB

Export XML

Validate

Statistics

Notes report

Nothing ch

Duplicate not handled reports

Duplicate report not included to export

List of Species

**Species (Article 17) reports**  Show Duplicates  Show only chosen for export

Country Code	Species Name	Last modified	Actor	Creator	Regions	Export	Valid	Validated on	Edit	Delete	Diff	Copy...
PT	6987 Angelica lignescens	10/04/2018	1234	1234		Yes	No		Edit	Delete	Diff	Copy...
PT	1560 Anthyllis lemnniana	10/04/2018	123	123		No	No		Edit	Delete	Diff	Copy...
PT	1560 Anthyllis lemnniana	10/04/2018	1234	1234		No	No		Edit	Delete	Diff	Copy...
PT	1614 Apium repens	10/04/2018	1234	1234		No	No		Edit	Delete	Diff	Copy...
PT	1221 Mauremys leprosa	10/04/2018	123	1234	ATL	Yes	No	10/04/2018	Edit	Delete	Diff	Copy...

The difference between two reports can be identified

Reports differences

10/04/2018 18:02:52

Created by: 123

Species Code: 1560

Species Code: 1560 Region MAC

Import ACCDB Export XML Va

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Reports differences

10/04/2018 18:02:42

Created by: 1234

Species Code: 1560

Species Code: 1560 Region MAC

List of Species

**Species (Article 17) reports**  Show Duplicates  Show only chosen for export

Country Code	Species Name	Last modified	Actor	Creator	Regions	Export	Valid	Validated on	Edit	Delete	Diff	Copy...
PT	6987 Angelica lignescens	10/04/2018	1234	1234		Yes +! ✕	No		Edit	Delete	Diff	Copy...
PT	1560 Anthyllis lemanniana	10/04/2018	123	123		No +! ✕	No		Edit	Delete	Diff	Copy...
PT	1560 Anthyllis lemanniana	10/04/2018	1234	1234		No +! ✕	No		Edit	Delete	Diff	Copy...
PT	1614 Apium repens	10/04/2018	1234	1234		No +! ✕	No		Edit	Delete	Diff	Copy...
PT	1221 Mauremys leprosa	10/04/2018	123	1234	ATL	Yes +! ✕	No	10/04/2018	Edit	Delete	Diff	Copy...

Import ACCDB Export XML Validate **Statistics** Notes report

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Statistics

Total reports 5

Valid reports 0

Invalid reports 5

Selected for export 1

Not included into export 4

*No of item codes where one or more reports exist for the code but none of them is marked for export*

Duplicates for export 0

*No of item codes where more than one report with this item code are selected to be exported*

Missing checklist items 463

*See the end of validation report for exact details*

Close

Statistics for regional reports can be generated to keep the overview on:

- number of valid reports
- number of reports
- number of duplicates
- missing checklist items



By means of the reporting tool the xml files can be generated.

These xml files need then be Uploaded to CDR/Reportnet

PT_habitats_checklist-20180301-111526	01/03/2018 11:15	Document XML	40 Ko
PT_habitats_general_report	01/03/2018 11:15	Document XML	2 Ko
PT_habitats_reports-20180301-111528	01/03/2018 11:15	Document XML	9 Ko
PT_species_checklist-20180301-111527	01/03/2018 11:15	Document XML	80 Ko
PT_species_reports-20180301-111529	01/03/2018 11:15	Document XML	11 Ko

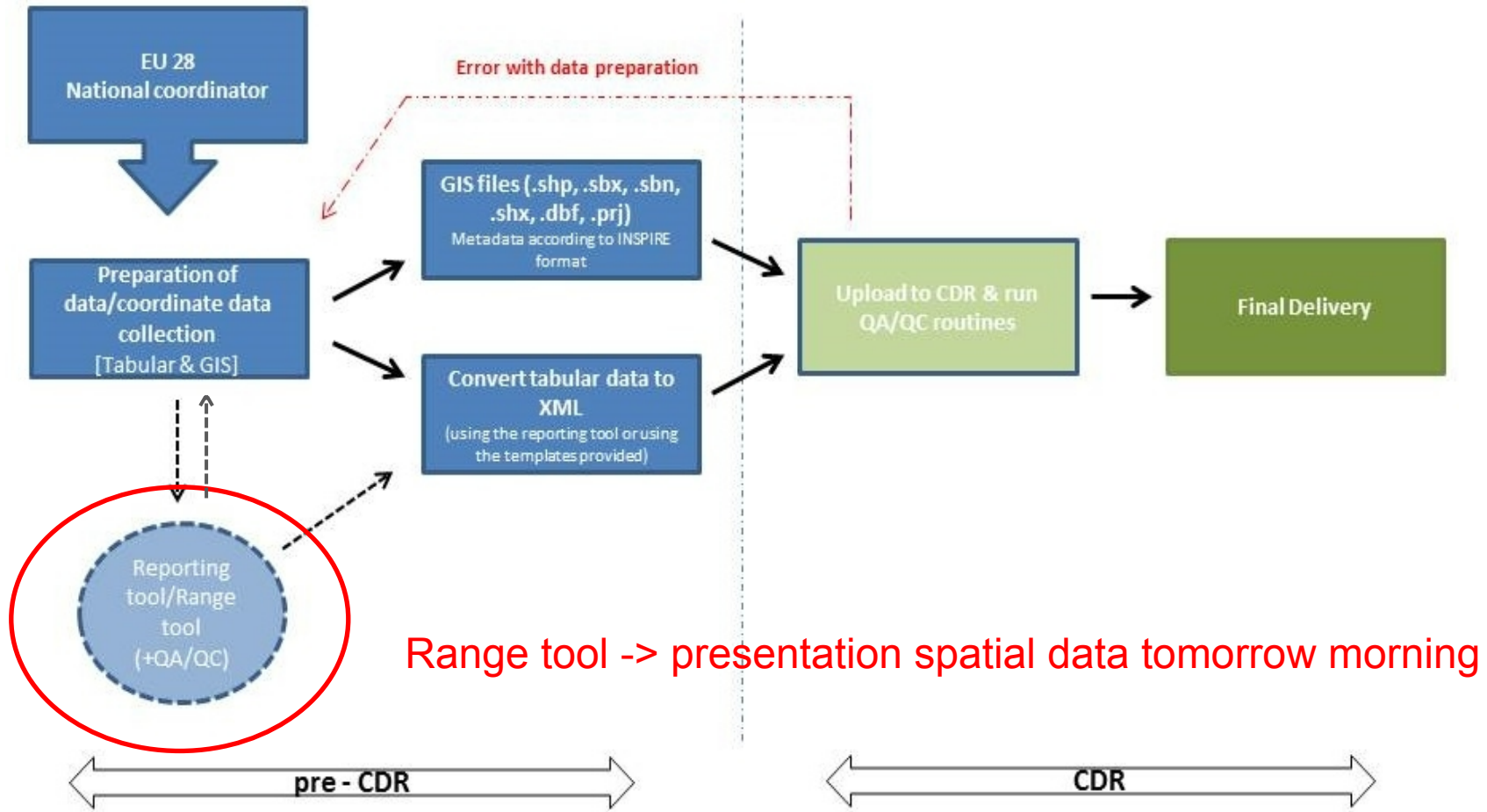
XML

```

<range_trend_long_magnitude_min>10</range_trend_long_magnitude_min>
<range_trend_long_magnitude_max>50</range_trend_long_magnitude_max>
<range_trend_long_method desc="Based mainly on extrapolation from a limited amount of data">estimatePartial</range_trend_long_method>
<complementary_favourable_range/>
<complementary_favourable_range_op desc=""/>
<complementary_favourable_range_method/>
- <range_reasons_for_change>
  <no_change>false</no_change>
  <genuine>true</genuine>
  <knowledge>false</knowledge>
  <method>false</method>
  <no_info>false</no_info>
  <main_reason desc="Genuine change">genuine</main_reason>
</range_reasons_for_change>
<range_info>test</range_info>
<population_date/>
<population_size_unit desc="number of subadults">subadults</population_size_unit>
<population_size_min/>
<population_size_max/>
<population_size/>
<population_estimate_type desc="Multi-year mean">mean</population_estimate_type>
<population_alt_size_unit desc="number of breeding females">bfemales</population_alt_size_unit>
<population_alt_size_min/>
<population_alt_size_max/>
<population_alt_size>100</population_alt_size>
<population_alt_estimate_type desc="Best estimate">estimate</population_alt_estimate_type>
<population_method desc="Based mainly on extrapolation from a limited amount of data">estimatePartial</population_method>
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<population_trend_desc desc=""/>
<population_trend_magnitude_min/>
<population_trend_magnitude_max/>
<population_trend_magnitude_ci/>
<population_trend_method desc=""/>
<population_trend_long_period/>
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<population_trend_long_magnitude_min/>
<population_trend_long_magnitude_max/>
<population_trend_long_magnitude_ci/>
<population_trend_long_method desc=""/>
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<complementary_favourable_population_unit desc=""/>
<complementary_favourable_population_op desc=""/>
<complementary_favourable_population_unknown/>
<complementary_favourable_population_method/>
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  <genuine>false</genuine>
  <knowledge>false</knowledge>
  <method>false</method>
  <no_info>false</no_info>
  <main_reason desc=""/>
</population_reasons_for_change>
<population_info/>
<habitat_sufficiency_occupied desc="No">N</habitat_sufficiency_occupied>
<habitat_sufficiency_unoccupied desc="No">N</habitat_sufficiency_unoccupied>
<habitat_sufficiency_method desc="Based mainly on expert opinion with very limited data">estimateExpert</habitat_sufficiency_method>
<habitat_trend_period/>

```

# Generalised data flow



Range tool -> presentation spatial data tomorrow morning

