

Housekeeping rules for participants

No recording



Keep your camera on



The webinar is **not** being **recorded**

Feel free to keep your camera on but with your microphone muted – unless you wish to speak.

We want to hear from you

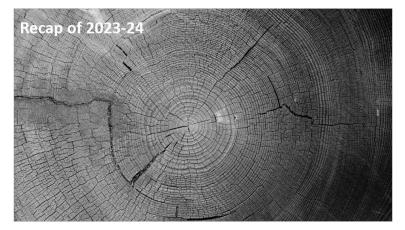


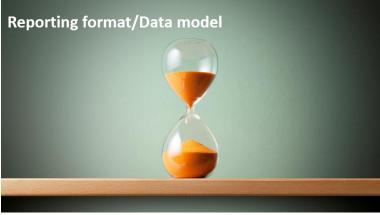
Raise your hand if you wish to speak.
Or share your comments, questions and insights in the chat.

Technical difficulties? Send a message through the chat, or email to Seveso.helpdesk@eea.europa.eu

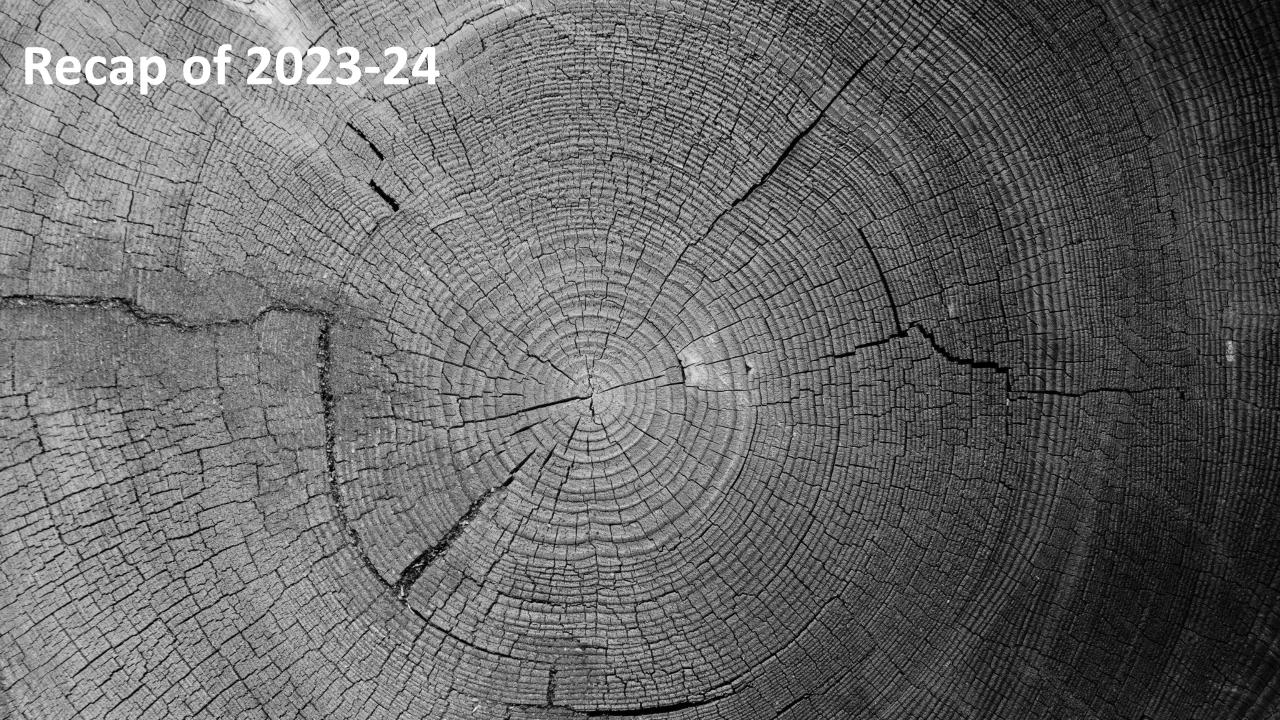


Outline



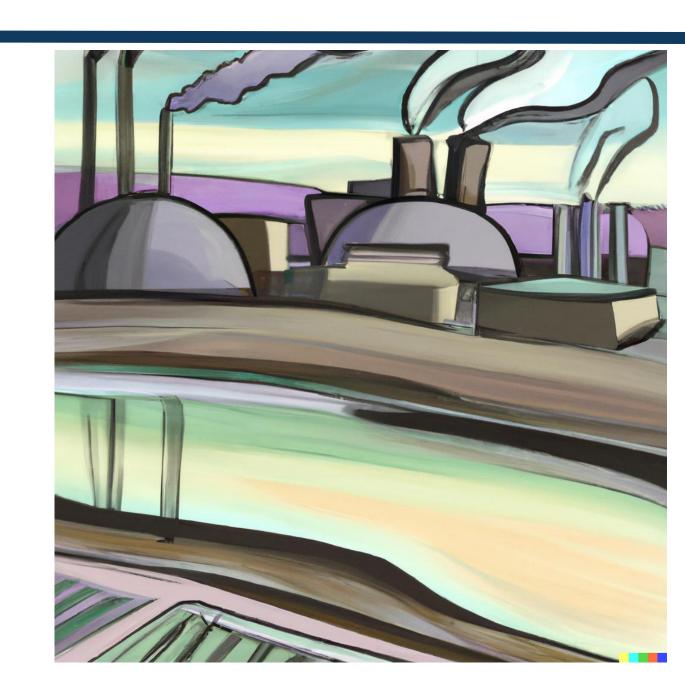






Developments 2023-24

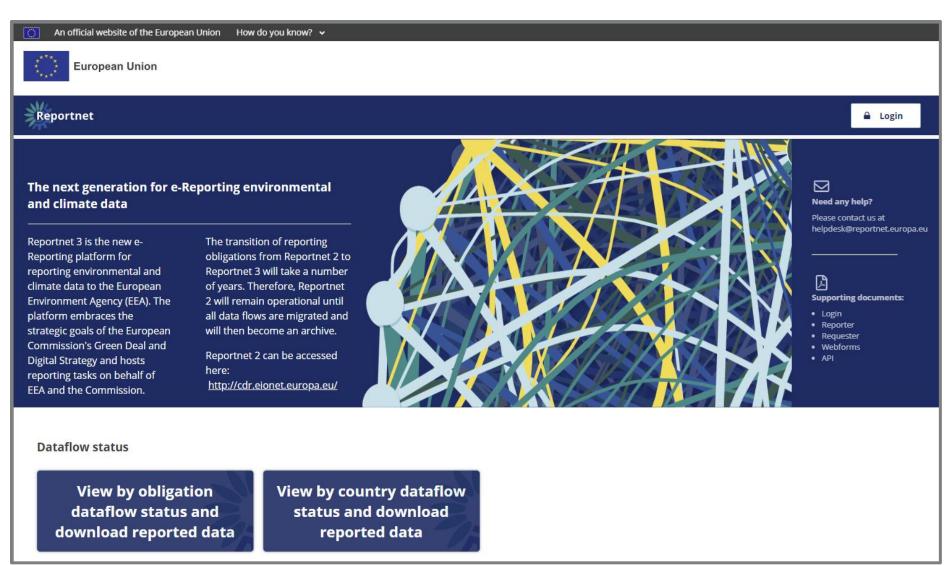
- > Analyse requirements
- Analyse current systems
- Key focus to date
 - Reporting platform
 - Database
 - Documentation



Reporting system

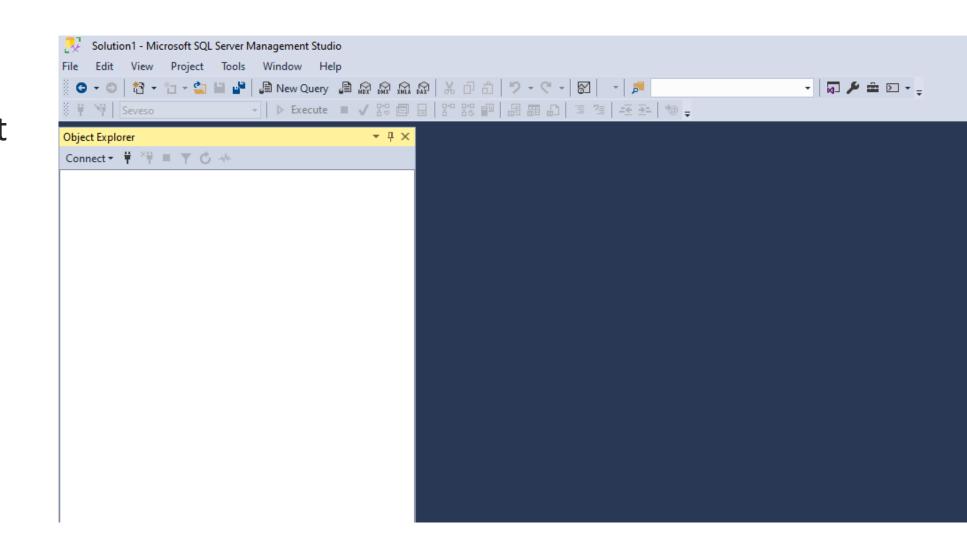
EEA eReporting

- New functionality
- Setting up specific format



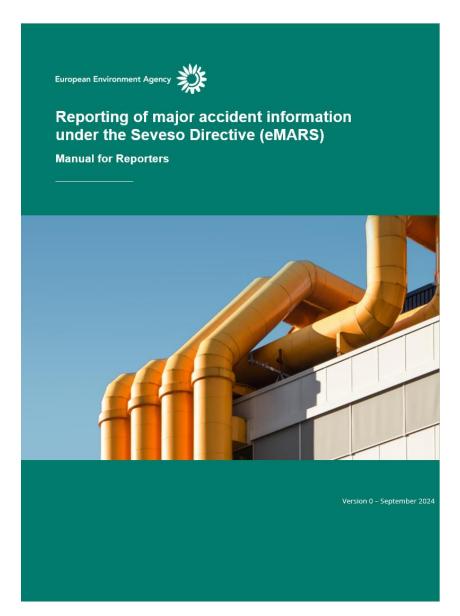
Database development

- > SQL server
- Data transfer test(JRC to EEA)



Documentation

- Data reporting manuals for users
 - Background
 - Data model and historical data
 - How to report
- Regular updates



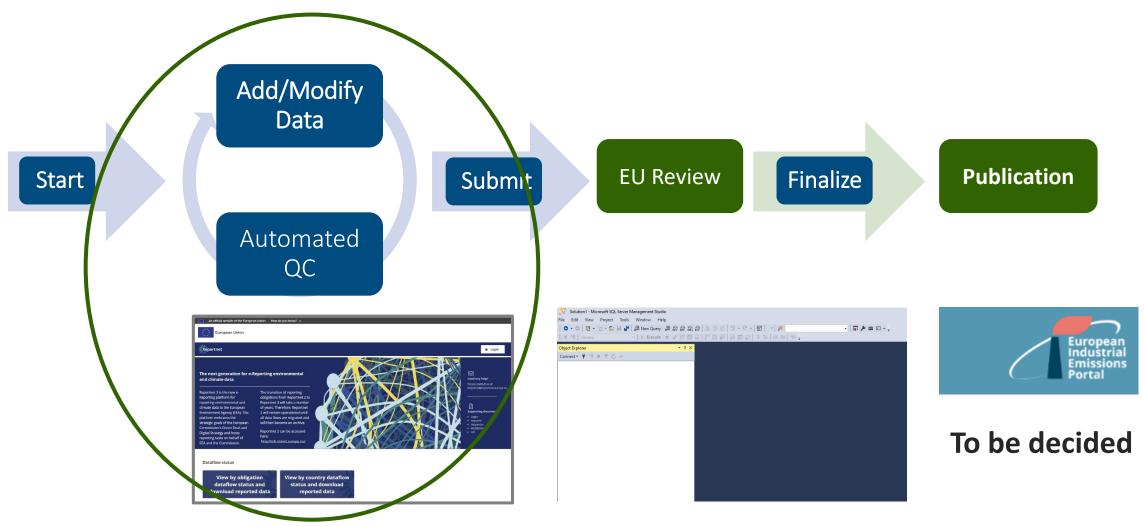
Drafted

Pending

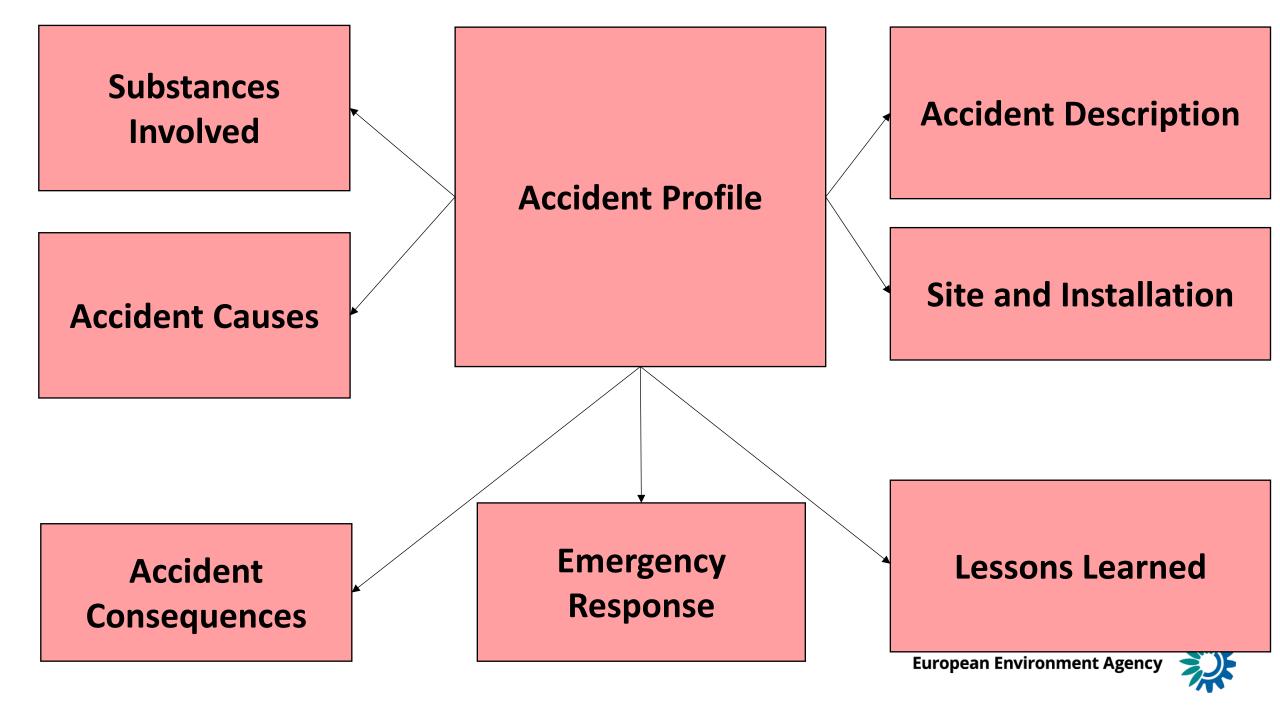
Reporting format/Data model



Accident reporting workflow







User interface: example form for a single accident

Current:

Accident Profile

Accident Description

Site and Installation

Substances Involved

Causes

Consequences

Emergency Respons

Lessons Learned

Attachment Section

Reportnet:

■ Accident Profile

■ Accident Description

⊞ Site and Installation

■ Substances Involved

■ Cause

⊞ Consequences

■ Emergency Response

⊞ Lessons Learned

⊞ Attachment Section



For each section

- > Content requirement
- Data structure and reporting form implementation
- Proposed changes your reactions now or in writing



Accident profile

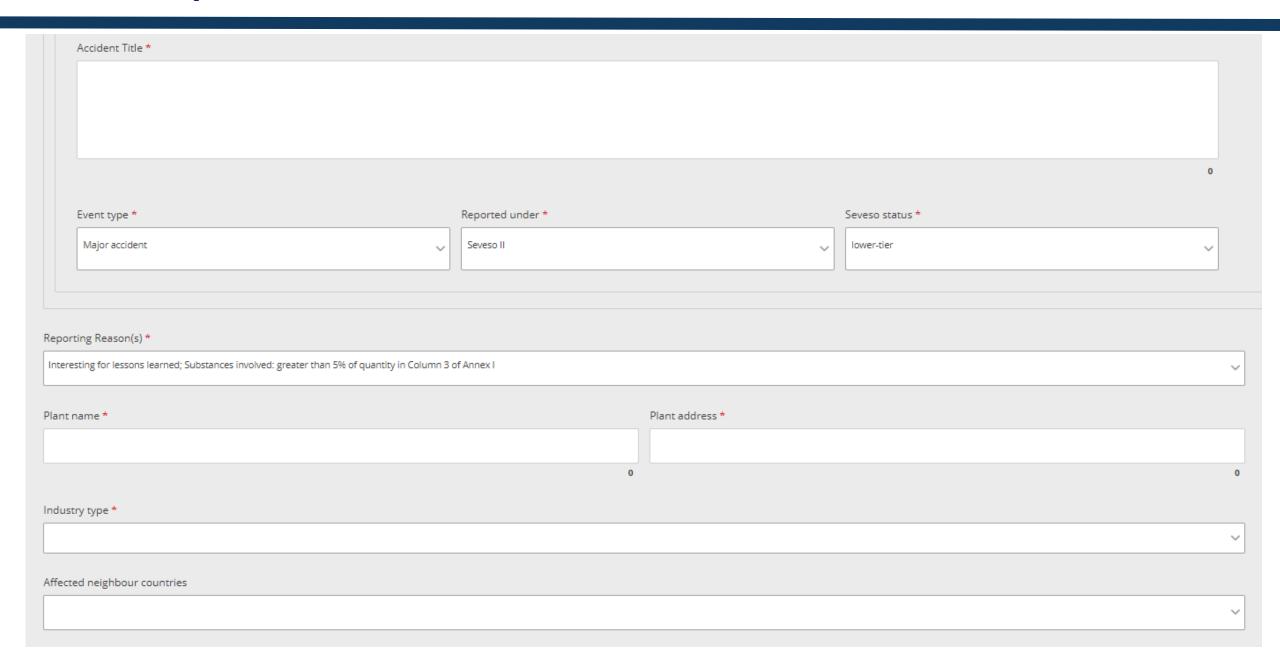


Accident profile - Requirements

- Basic information about the accident
- Information most useful for top level filtering of accidents

Attribute	Item number in the Commission Decision (Part I)
accidentID	Metadata
accidentCode	Metadata
accidentTitle	1.2
startDate	1.1
endDate	1.1
reportingAuthority	1.3, 1.4
authorityName	1.3
authorityAddress	1.3
authorityCity	1.3
reporterName	1.4
reporterTel	1.4
reporterEmail	1.4
accidentType	1.5
reportedUnder	1.6
sevesoStatus	1.7
industrialActivity	1.8
plantInformation	1.9
plantName	1.9
plantAddress	1.9
reportingReasons	1.10
affectedNeighbours	1.11

Accident profile – Structure and format



Accident profile - proposed changes and points to observe

- Accident ID and Accident Code we propose to create only a single accident ID for each accident
 - Currently ID used in public search, Accident code in admin search
- Reporting authority should it be at accident level or separately?



Accident description

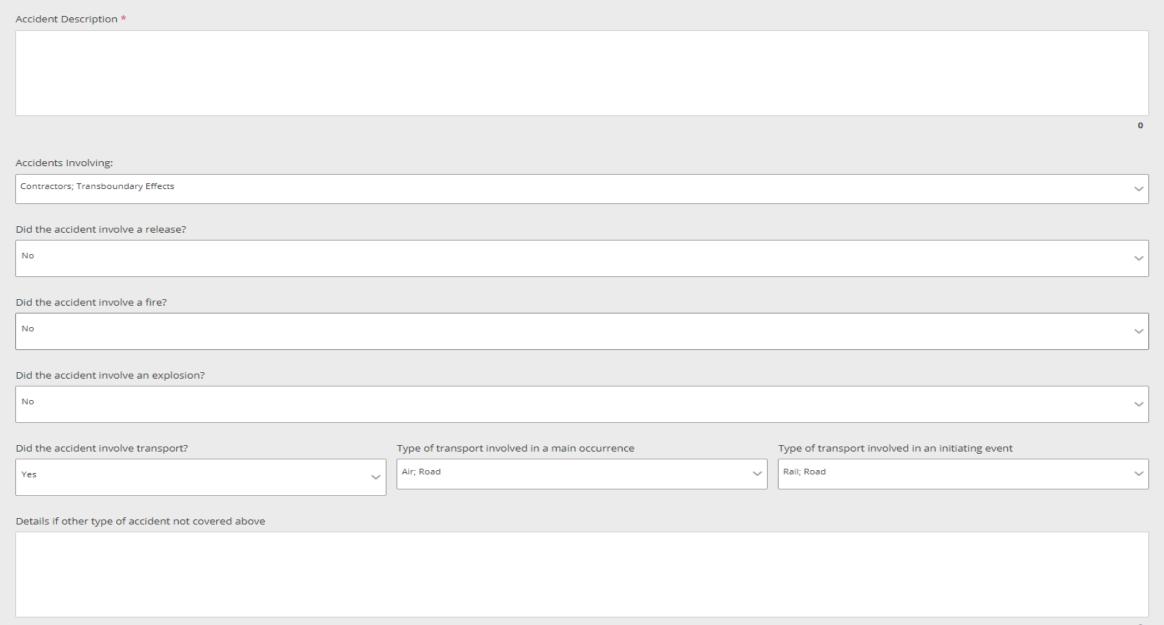


Accident description - Requirements

- Description of the accidents
- Details if there have been specific events: fire, release, explosion or transport related event

Attribute	Item number in the Commission Decision (Part II)
accidentDescription	1.1
accidentsInvolving	1.2
release	1.3, 1.3.1
releaseYN	1.3
releaseInit	1.3.1
releaseMajor	1.3.1
fire	1.4
fireYN	1.4
fireInit	1.4.1
fireMajor	1.4.1
explosion	1.5, 1.5.1
explosionYN	1.5
explosionInit	1.5.1
explosionMajor	1.5.1
transport	1.6, 1.6.1
transportYN	1.6
transportInit	1.6.1
transportMajor	1.6.1
other: CharacterString	1.7

Accident description – Structure and format



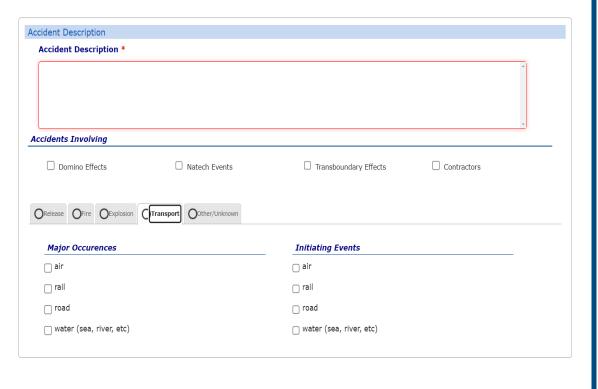
Accident description – proposed changes and points to observe

- > Saying yes or no for each type of event, then entering info
 - > To ensure no type of event is missed
 - > Ensuring at least "high level" events are added
- Currently entered by clicking through tabs for each type of event

Comparison with current

Current:

Accident Description



Reportnet:

■ Accident Description

Accident Description *			
Accidents Involving:			
Domino Effects; Transboundary Effects			
Did the accident involve a release?			
No			
Did the accident involve a fire?			
No			
Did the accident involve an explosion?			
No			
Did the accident involve transport?	Type of transport involved in a main occurrence	Type of transport involved in an initiating event	
Yes	Air; Road	Rail; Road	
Details if other type of accident not covered above			

Site and Installation

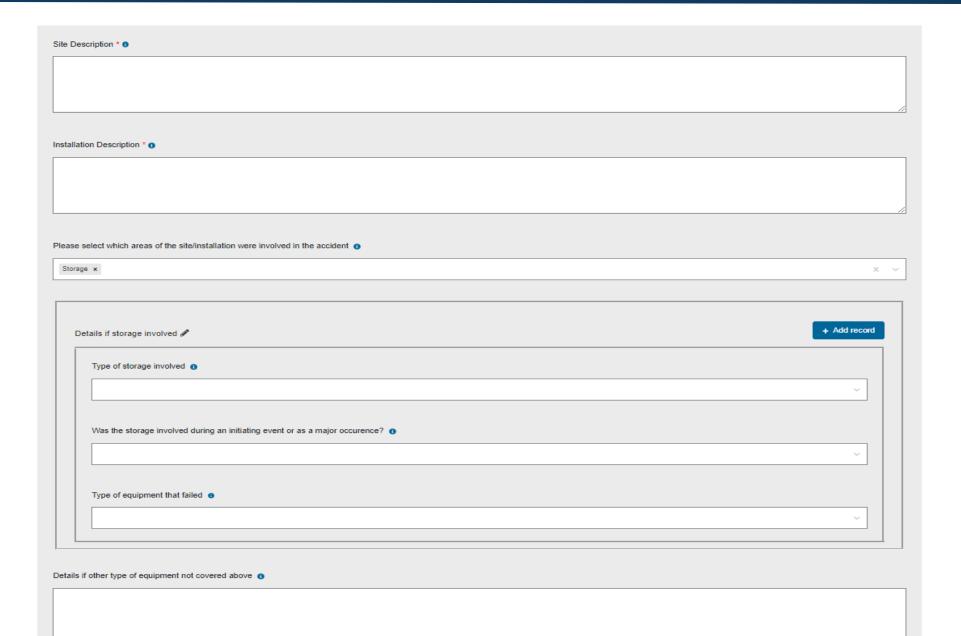


Site and installation - Requirements

- Description of the site and installation where the event occurred
- Details if there have been equipment failures related to: storage, process, transfer, or transport

Attribute	Item number in the Commission Decision (Part II)
siteDescription	2.1
installationDescription	2.2
operationalPhasesInvolved	2.3, 2.4, 2.5, 2.6
storageType	2.3.1
eventCategory	2.3.1
storageEquipmentType	2.3.2
processType	2.4.1
eventCategory	2.4.1
processEquipmentType	2.4.2
transferType	2.5.1
eventCategory	2.5.1
transferEquipmentType	2.5.2
transportType	2.6.1
eventCategory	2.6.1
transportEquipmentType	2.6.2
otherEquipment	2.7

Site and installation – Structure and format



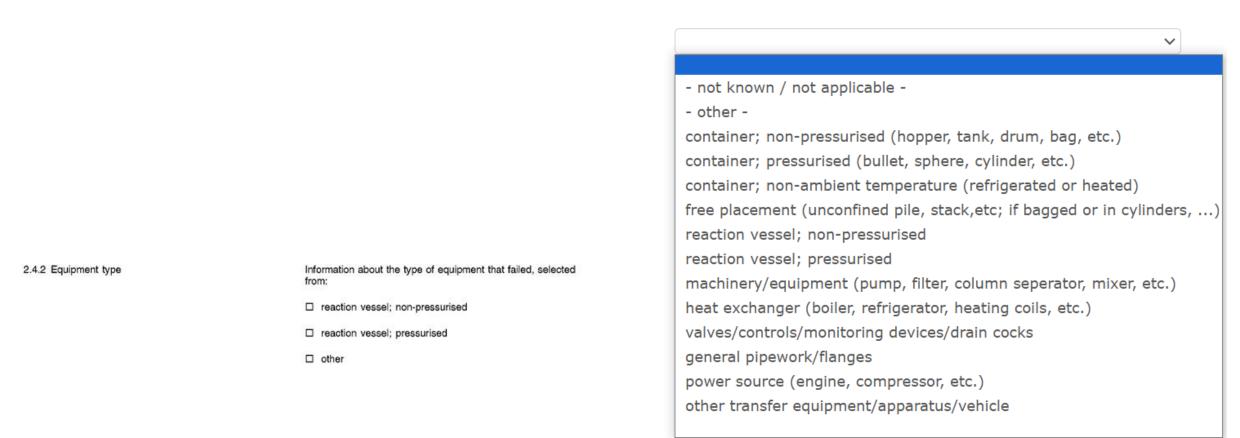
Site and installation - changes and points to observe

- Selecting specific phases before entering relevant equipment failures and other details
 - To ensure no failure is missed
 - > Ensuring at least "high level" failures are added
 - (Currently entered by clicking through tabs)

Site and installation – proposed changes and points to observe

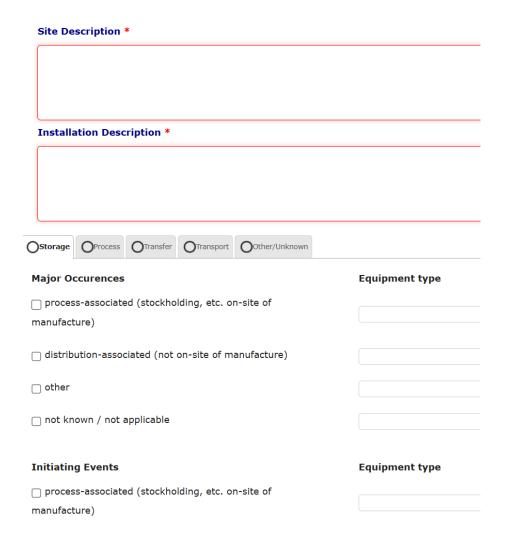
Equipment types in the CD are different for each category (process, storage...), this is not the case in the current implementation

Equipment type

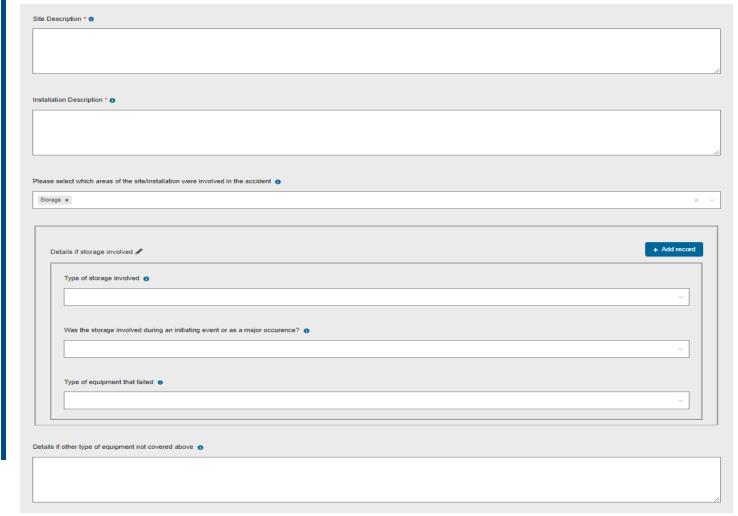


Comparison with current

Current:



Reportnet:





Substances involved



Substances involved - Requirements

- Substances involved in the accident: a description and details for all substances involved
- The CD envisages this to be substances notifiable under the Seveso Directive

Attribute	Item number in the Commission Decision (Part II)
substancesDescription	3.1
substanceInvolved	3.2-3.5
substanceClassification	3.2
substanceName	/
numberCAS	3.3
quantityDirectlyInvolved	3.4
quantityPotentiallyInvolv ed	3.5

3 SUBSTANCES INVOLVED

A description of the substances involved in the accident that are either notified or notifiable for the establishment under Article 6 and classified according to Annex I to the Directive. As well as the name, the CAS number and estimates of the quantities of the most important dangerous substances involved (or potentially involved), any relevant information on their characteristics should be included, e.g. whether liquid, powder, etc., and whether they are 'raw materials', 'on-site intermediates', 'normal finished products' or 'possible abnormal products'.



Substances involved – examples of data

Formula	H ⁺ CΓ	H ⁺ F ⁻		
CAS number	7647-01-0	7664-39-3		
Seveso III Directive	Hydrogen chloride (liquefied gas)	Not a named substance		
CLP Regulation	Hydrogen chloride	Hydrogen fluoride Hydrofluoric acid %		
ECHA substance card	Hydrogen chloride	Hydrogen fluoride		
Substance names in the eMARS database	Aqueous Ammonia Solution gaseous hydrochloric acid (HCl) hydrochloric acid Hydrochloric acid (31-33%) Hydrochloric Acid, HCl hydrocloridric acid hydrogen chloride Hydrogen Chloride (liquefied gas)	Hydrogen Fluoride Hydrofluoric acid Hydrofluoric acid 72-75%, aqueous solution Hydrogen Flouride Hydrogen flouride (HF) Hydrogen fluoride Hydrogen Fluoride (HF) (Anhydrous) Hydrogen fluoride 40 % Hydrogen fluoride gas, lighter than air hydrogen-fluoride New substance		

Substances involved – examples of data

- > Spelling issues with CAS numbers, e.g.
 - Leading zeroes, "07647-01-0" (and leading blanks)
 - Multiple numbers in the cell, e.g. "00106-97-8; 00075-28"
 - Dots and not dashes, "74.87.3"
 - Missing control number, or extra digits in control number "7664-41-07", or "7664-41"
 - > Other formats: "A-C025", "EWC 06 05 02", "2,236"

Substances involved – proposed changes and points to observe

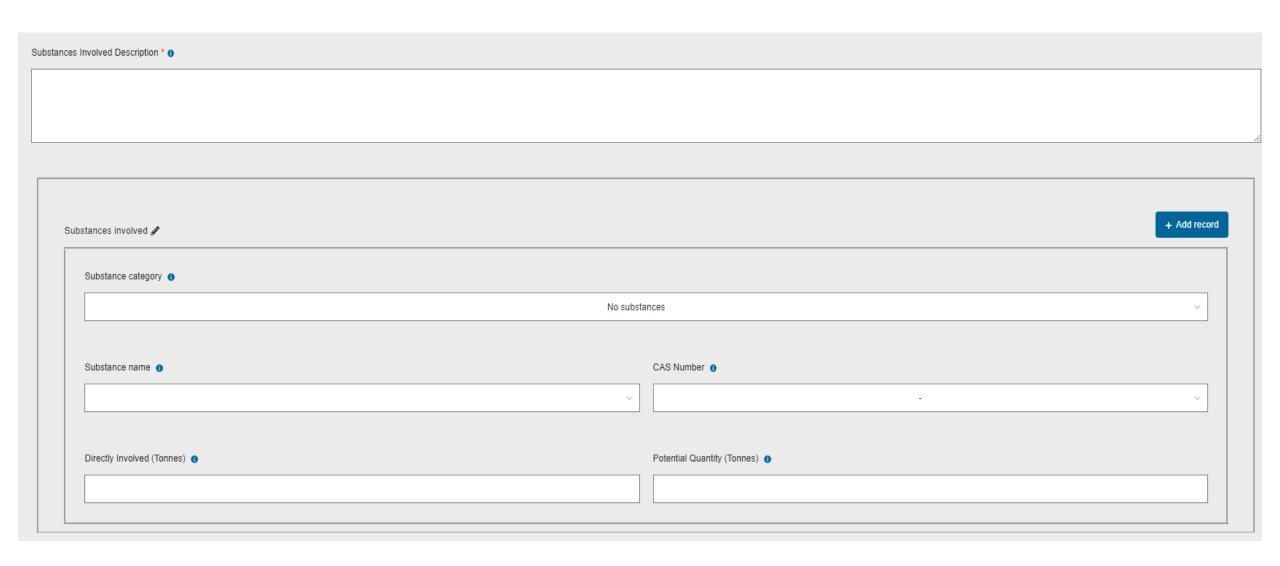
- The name and CAS number are proposed to come from lists rather than being free text fields
 - > To allow improved data quality
 - Bring closer to the CD requirement

	Substance Involved	CAS Number	Directly Involved (tonnes)	Potential Quantity (tonnes)
7				

> It could be possible to add another field for additional substances that do not fall in the above



Substances involved – Structure and format



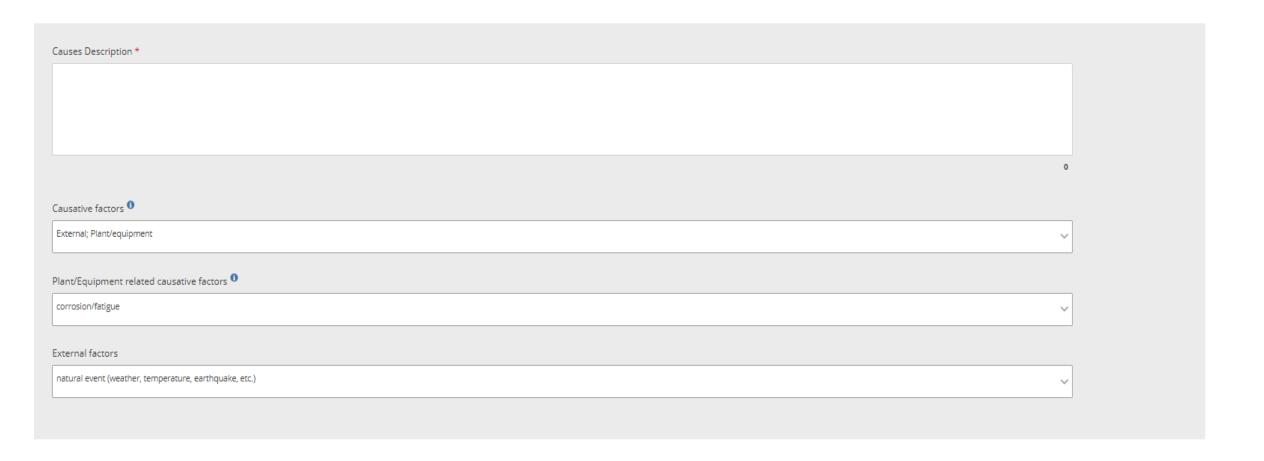


Causes - Requirements

- Description of the causes of the accident
- Details by type of causative factors, e.g. equipment, human, organisational, external

Attribute	Item number in the Commission Decision (Part II)
causesDescription	4.1
causativeFactorType	4.2, 4.3, 4.4, 4.5, 4.6
causesPlantEquipment	4.2.1
causesHuman	4.3.1
causesOrganisational	4.4.1
causesExternal	4.5.1
causesOtherDescription	4.6

Causes – Structure and format



Causes – proposed changes and points to observe

- > Selecting types of causative factors before entering relevant details
 - > Ensuring at least "high level" causes are entered
 - (Currently entered by clicking through tabs)
- Drop-downs for causative factors: without "not known / not applicable"

and "not identified"

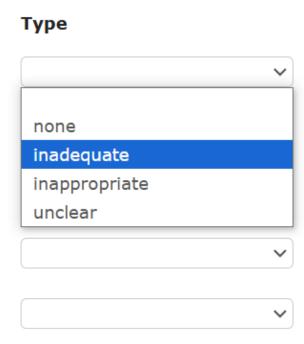
Causative Factor
operator error
operator health (includes ailments, intoxication, death, etc.)
wilful disobedience/failure to carry out duties
malicious intervention
other
not known / not applicable
not identified

Causes – changes and points to observe

Causative Factor

"Type" in the current system not envisaged in the new system

operator error operator health (includes ailments, intoxication, death, etc.) wilful disobedience/failure to carry out duties malicious intervention other



Consequences



Consequences - Requirements

- Description of the consequences of the accident
- Details by type of consequences(human, environmental, material, disruption)

Attribute	Item number in the Commission Decision (Part II)
consequenceDescription	5.1
consequencesType	5.2, 5.3, 5.4, 5.5
humanEffectsLocation	5.2.1
typeHumanEffect	5.2.2
humanEffectsQuantity	5.2.3
humanEffectsDesc	5.2.3
envEffectsLocation	5.3.1
typeEnvironmentalEffect	5.3.2
envEffectsQuantity	5.3.3
envEffectsDesc	5.3.3
costEffectsLocation	5.4.1
typeCostEffect	5.4.2
costEffectsQuantity	5.4.3
costEffectsDesc	5.4.3
disruptionEffectsDesc	5.5.1
effectsLocation	5.5.2
typeDisruptionEffect	5.5.3
disruptionEffectsQuantity	5.5.3

Consequences – Structure and format



Consequences – proposed changes and points to observe

- > Selecting types of consequences before entering relevant details
 - > Ensuring at least "high level" consequences are entered
 - (Currently entered by clicking through tabs)
- MAHB converted all "quantity" fields to quantitative values (from free text) in 2024, this will be this way in the new system
- Discussion to remove "on-site" effects from environmental consequences options



Emergency response



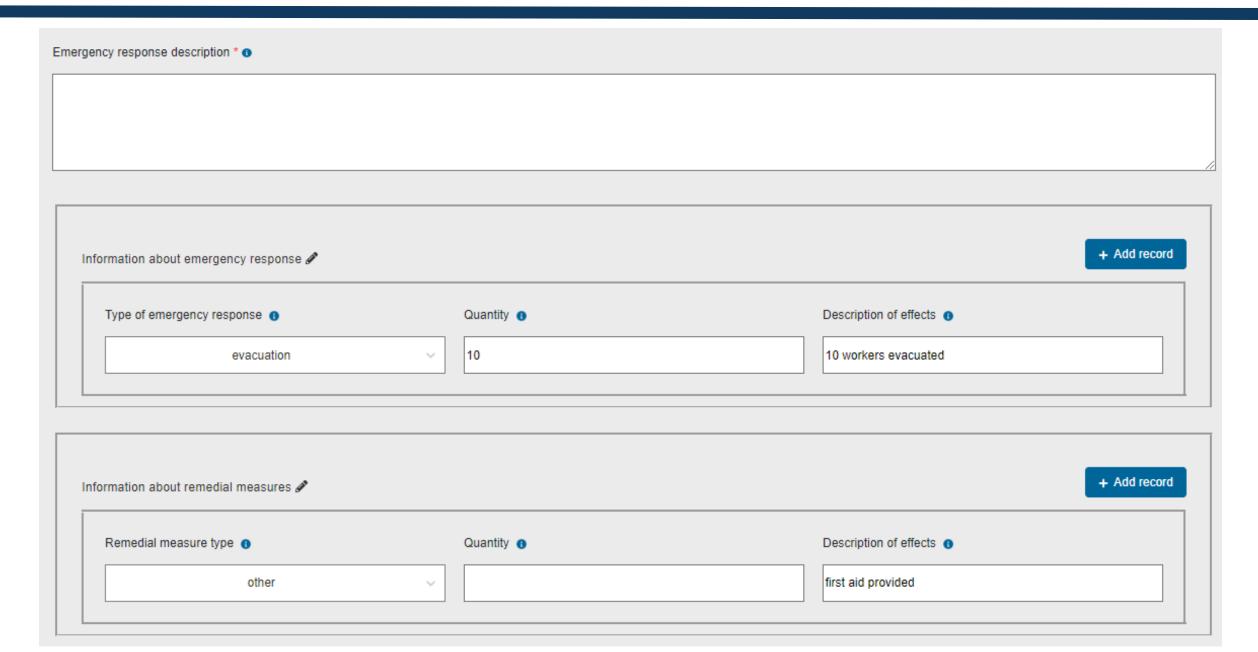


Emergency response – Requirements

- Description of emergency and remedial measure
- Details by type of emergency response (evacuation, sheltering, etc.)
- Details of remedial measures taken(e.g., decontamination)

Attribute	Item number in the Commission Decision (Part II)
emergencyResponseDes cription	6.1
emergencyResponseMea sure	6.2.1-6.2.2
responseMeasureType	6.2.1
<u> </u>	U
ERquantity	6.2.2
ERquantityEffect	6.2.2
remedialMeasure	6.3.1-6.3.2
remedialMeasureType	6.3.1
RMquantity	6.3.2
RMquantityEffect	6.3.2

Emergency response – Structure and format



Emergency response – proposed changes and points to observe

Layout change, no significant update

Lessons learned



Lessons learned – Requirements and format

Lessons learned description and themes

	Item number in the Commission Decision (Part II)
lessonsLearnedThemes	7.1
lessonsLearnedDescription	7.2

No significant change

A description of any practical, organisational or other lessons learned on the prevention of accidents





Key next steps

- Development of data output
 - > Hosted at EEA
 - Content (download data, dashboards)
 - User inputs will be key!
- Import and verify data (test phase)
 - > JRC MAHB -> EEA backend -> EEA frontend -> user verification

