

12th meeting of the PSN IUCLID sub-group

11-12 March 2025

IUCLID DATA REUSE: UPDATE ON THE PROGRESS



RECAP OF THE STRATEGY

At the last PSN IUCLID meeting (Nov 2024), EFSA presented its strategy for IUCLID data reuse. In brief:

- EFSA wants to exploit structured data in PPP IUCLID applications to speed up the risk assessment process
- EFSA will produce dashboards with structured data across dossiers to facilitate data reuse, increasing consistency and efficiency of the process. The dashboards will be available to evaluators in EFSA and Member States. Easier access to attachments also being considered.
- Target date for the first dashboards: H1 2026. First use case: dashboard with metabolites to identify common metabolites and related studies across dossiers.



PROGRESS SINCE LAST MEETING

- The first step to produce dashboards is the extraction of data from IUCLID dossier. It needs to consider the large size and complexity of PPP dossiers.
- EFSA is exploring three ways to extract data from PPP dossiers:
 1. Building its own “**Data product**” – an IT solution to extract, manipulate and distribute data
 2. Using **IUCLID APIs** (pilot with Germany) – to extract data from specific fields programmatically
 3. Using **ECHA’s data extractor** – a IUCLID tool developed by ECHA for data extraction of specific fields from a predefined list of dossiers



THE THREE OPTIONS

Option	Pro	Cons	Comment
EFSA Data Product (Preferred option long-term)	Compatible with EFSA IT Architecture All IUCLID data available to business	Longer time-to-market: Mass-extraction of all IUCLID data will require further developments by ECHA and EFSA	A proof of concept with data extraction limited to fields relevant to the dashboards will be implemented in line with the existing time plan
APIs (Short-term alternative)	IUCLID APIs already exist	Only a limited list of fields should be extracted to prevent system overload Requires some developments on the user side (i.e. Germany for the pilot)	Pilot in collaboration with German Competent Authorities and ECHA has started
ECHA Data Extractor (Short-term alternative)	The tool already exists	Data will be extracted outside EFSA's IT architecture, requiring extra steps for handling and sharing confidential data Tool needs to be tested on PPP dossiers	ECHA is already working on the deployment of the tool on EFSA Agency



DASHBOARDS

- Once the data are extracted from IUCLID, EFSA IDATA unit will produce and give access to EFSA and Member States to dashboards containing IUCLID data across dossiers.
- The first dashboards have been conceptualised in collaboration with EFSA's PREV unit. Member States will also be involved in the design of the dashboards when the data become available.
- The plan is to increase the number of dashboards over time to serve all data reuse needs identified by evaluators.



EXAMPLE – METABOLITES DASHBOARD

- One of the most common use cases for IUCLID data reuse mentioned by evaluators is the functionality to identify common metabolites across dossiers
- A dashboard will be designed to allow users to search for dossiers that include a specific metabolite using the chemical identifiers available in IUCLID dossiers (e.g. CAS number, name, SMILES, etc...)
- The dashboard will return the dossiers that match the search results (i.e. that include the specific metabolite)
- A second table within the same dashboard will list the endpoint data available for the metabolite (if any) and provide links the endpoint study records



TAKE HOME MESSAGES

- EFSA has prioritised IUCLID data reuse activities to support internal processes and Member States performing risk assessment.
- The first step for data reuse is the extraction of IUCLID data, which can then be used to populate dashboards.
- EFSA is exploring in parallel all options to extract data from IUCLID with a clear long-term preference for building its own *Data Products* (IT tools).
- To shorten the waiting time, other solutions are being put in place as short-term plan.



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