



# Access to Interoperability checkings

## 67<sup>th</sup> MIG-T meeting 08/10/2021

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# Agenda

1. State of the Art and findings
2. Proposals

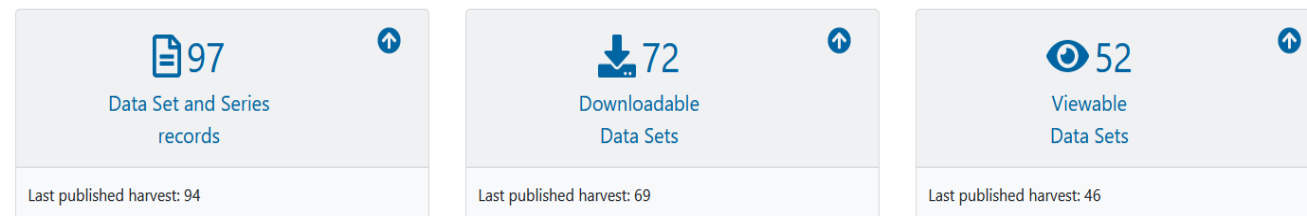
# 1.1 Existing Checkings “check and publish”

## N°1 Global summary of interoperability

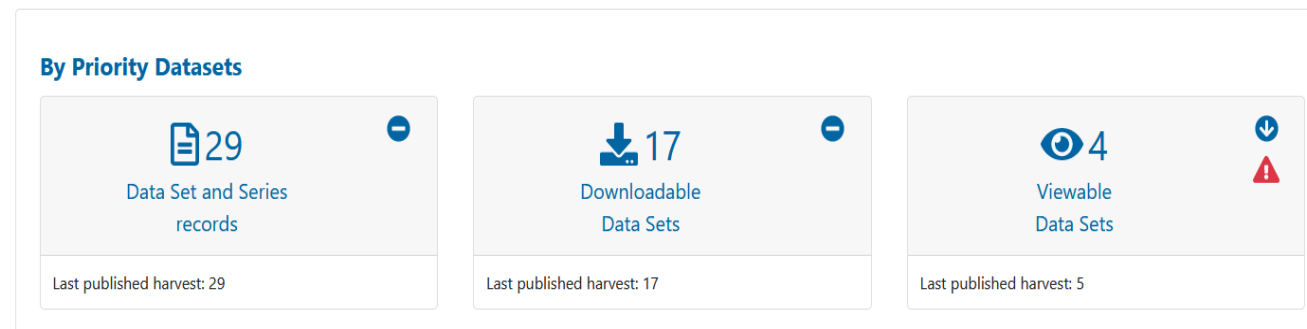
### Harvesting report

 Executed on 2021-07-08 11:06:02. Retrieved metadata records count: 138

### Complete overview of the harvest session



### Filtered results



# 1.2 Existing Checkings

N° 2 Issues reporting concerning invisible or undownloadable datasets

## INSPIRE Geoportal Harvest console

Resource title	Resource FileId	Responsible organization	View service	Download service	Download link	Details
Geological map of Belgium (1:250000)	4df0c9b9-61d9-4895-8872-4776ff2c9af2	Royal Belgian Institute for Natural Sciences, Directorate Earth and History of life, Geological Survey of Belgium (GSB)	Not available	Not available	Not available	View the details
Population demographic characteristics dataset in support of the Marine Strategy Framework Directive (MSFD) Descriptor 1 (D01C03, 2018 Reporting)	bmdc.be:dataset:2036	Royal Belgian Institute for Natural Sciences (RBINS), Directorate Natural Environment (OD Nature), Belgian Marine Data Centre (BMDC) Instituut voor Natuur- en Bosonderzoek / Research Institute for Nature and Forest (INBO)	Not available	Not available	Not available	View the details

Not exportable

# 1.3 Existing checkings

N°3 Global overview of datasets **and** services interoperability monitoring ( old version TG 1.3) but still available

## Resources In This Group Needing Review

*Spatial data set*

Hydro - Physical Waters (National Geographic Institute)	Population distribution per statistical sector-Belgium (FPS Economy, SMEs, Self-Employed and Energy, Statistics Belgium)	Hydro - Network (National Geographic Institute)	Top10Vector - Particular Zones (National Geographic Institute)
Administrative units - Provinces (FPS Finances - General Administration of Patrimonial Documentation (GAPD))	ROB Seismic and Accelerometric Stations (Royal Observatory of Belgium)	Top10Vector - Constructions (National Geographic Institute)	Administrative units - Cour General Administration Documentation
Radon levels in Belgium (Royal Belgian Institute for	Air quality assessment zones of Belgium (Belgian	Interpolated air quality maps of Belgium (Belgian	Marine Reporting Units in t

*Spatial data set series*

Administrative units (FPS Finances - General Administration of Patrimonial Documentation (GAPD))
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*Spatial data service*

INSPIRE download service for the 2014 Marine Spatial Plan-WFS (Royal Belgian Institute for Natural Sciences, Directo...	INSPIRE view service for the core sample collection dataset-WMS (Royal Belgian Institute for Natural Sciences, Direc...	Download service - Royal Observatory of Belgium (Royal Observatory of Belgium)	View service - Royal Observat Observatory of
View service - Orthophotos (National Geographic Institute)	INSPIRE download service for the 2019 Marine Spatial Plan-WFS (Royal Belgian Institute for Natural Sciences, Directo...	INSPIRE View Service - FPS Economy (FPS Economy, SMEs, Self-Employed and Energy, Statistics Belgium)	INSPIRE view service for ge WMS (Royal Belgian Institut Directorate )
Discovery Service - resources entered for the	View service Air Quality Data Belgium - WMS	Federal download service (National Geographic	INSPIRE view service for the

Better target to what should be corrected

**Layers Needing Review**

1	2	3	4	5	6	7
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**Schema Validation Issues**

Relevant documentation:

- See *INSPIRE Metadata Implementing Rules: Technical Guidelines based on EN ISO 19115 and EN ISO 19119 (Version 3.11)*

Validation Schema(s) used for validation: 19139 XSchemas TS RC (2006 May 4)

- In content of element <MD\_Keywords>: Empty content is not allowed. Expected <Q{.../gmd}keyword>. at column 37, line 10**

**INSPIRE Evaluation Potential Warning**

- The Get View Service Metadata Response has validation warnings**

Relevant documentation:

- See *Technical Guidance for the implementation of INSPIRE View Services (Version 3.11)*

Expert documentation

- UML Requirement Diagram*

A copy of the original source file is available here (Media Type application/vnd.iso.19139+xml)

```

+<gmd:MD_Metadata xmlns:gmd="http://www.isotc211.org/2005/gmd" xmlns:geonet="http://www.fao.org/geonetwork" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://www.isotc211.org/2005/srv http://schemas.opengis.net/iso/19139/20060504/>
</gmd:MD_Metadata>

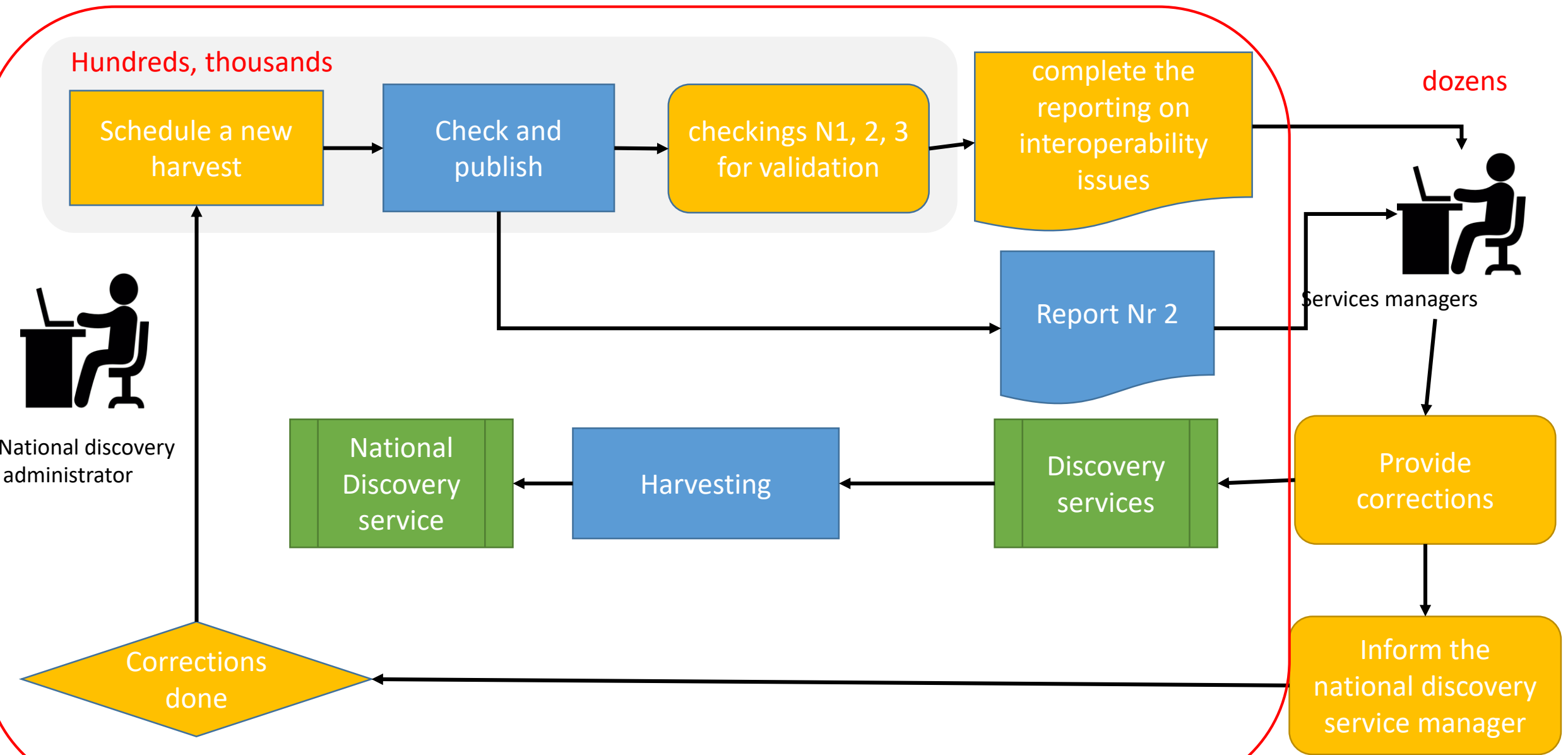
```

**INSPIRE Resources Interoperability Aspects (Documentation)**

Verified	Missing
<ul style="list-style-type: none"> <li>NETWORK_SERVICE_MATCHING_SERVICE_IS_AVAILABLE</li> <li>RESOURCE_METADATA_IS_COMPLETE</li> <li>NETWORK_SERVICE_MATCHING_SERVICE_HAS_COMPLETE_METADATA</li> </ul>	<ul style="list-style-type: none"> <li>CHILDREN_INTEROPERABILITY</li> </ul>

View on the interoperability score and better identification of the mistaking services

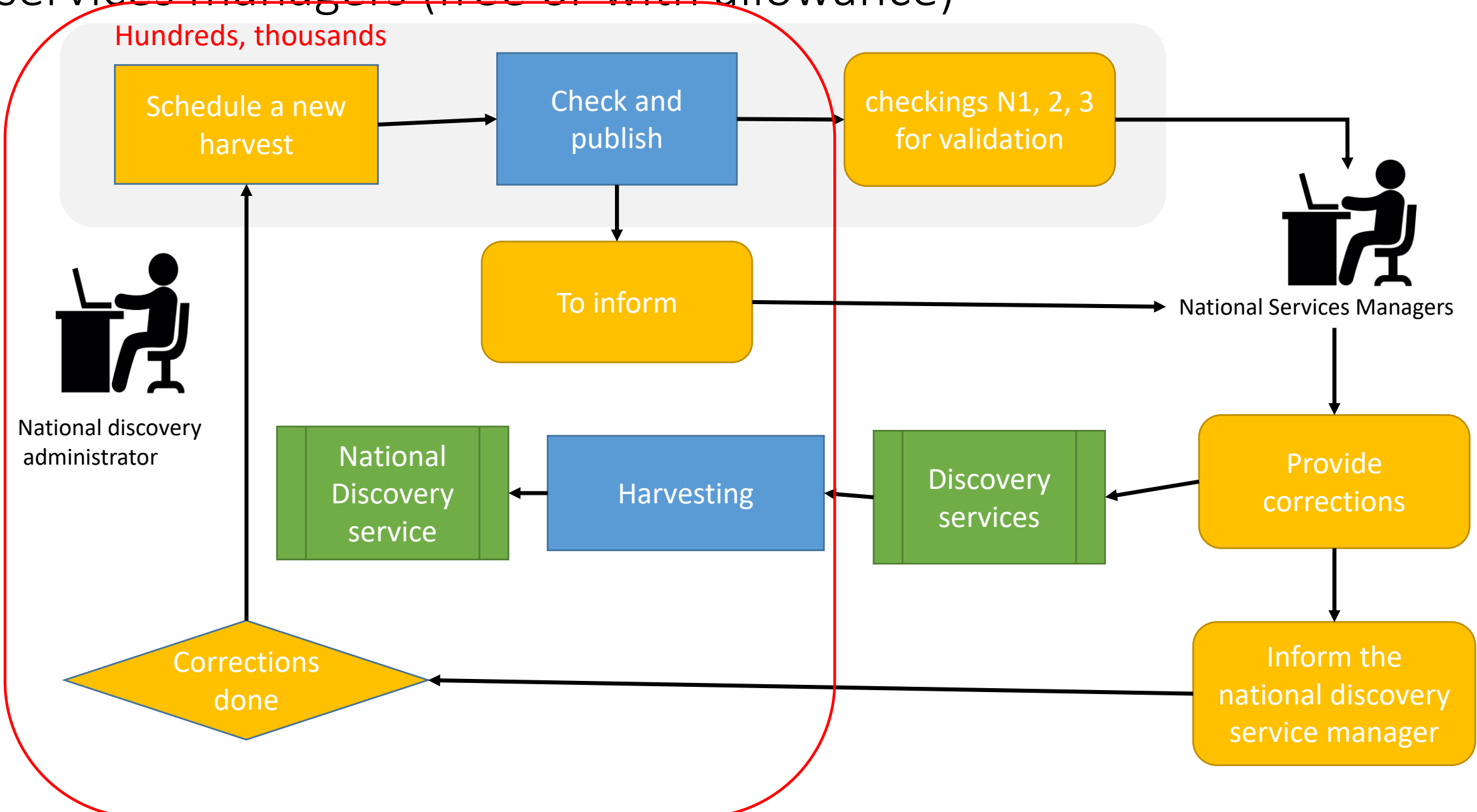
# 1.4 Existing workflow



# 1.4 Findings

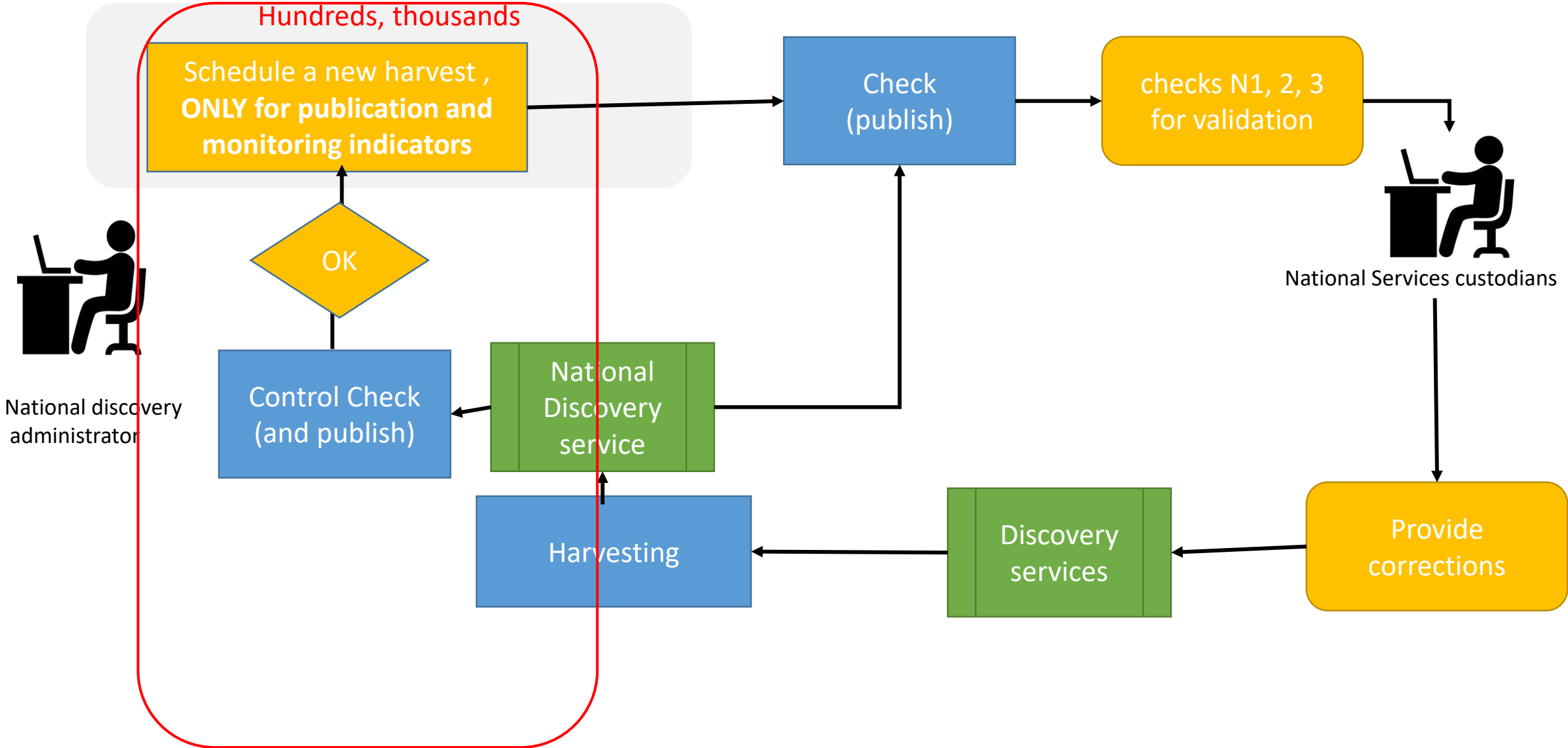
- Many reports or tools are restricted to CSW administrators , the consequences are:
  - Datasets/services managers need additional reporting done by the discovery administrator
  - Coordination is interactive; formal go from the managers for a new harvest on the european console
- What 's happen when dozens of service managers and thousands of metadata?

# 2.1 Proposal 1: give access to the interoperability tools and reporting to the services managers (free or with allowance)





# 2.2 Proposal 2 : the interoperability tools and reporting are runnable on the national discovery service.



## 2.3 Proposal: what to put in « View details » button

- Upgrading global overview of invisible/undownloadable datasets **AND** unfully interoperable services
  - Making it compliant with TG 2.0
  - Making it accessible to all unauthenticated persons (or giving access to anyone asking for it)
  - Making it more user friendly
- Or ??

# Discussion

- What about the efficiency of the process?
- What about the possibility to share the interoperability checkings with other stakeholders ( service managers)?
  - Specific access to the harvest console?
  - Independent Interoperability checkings runnable on the national CSW?

