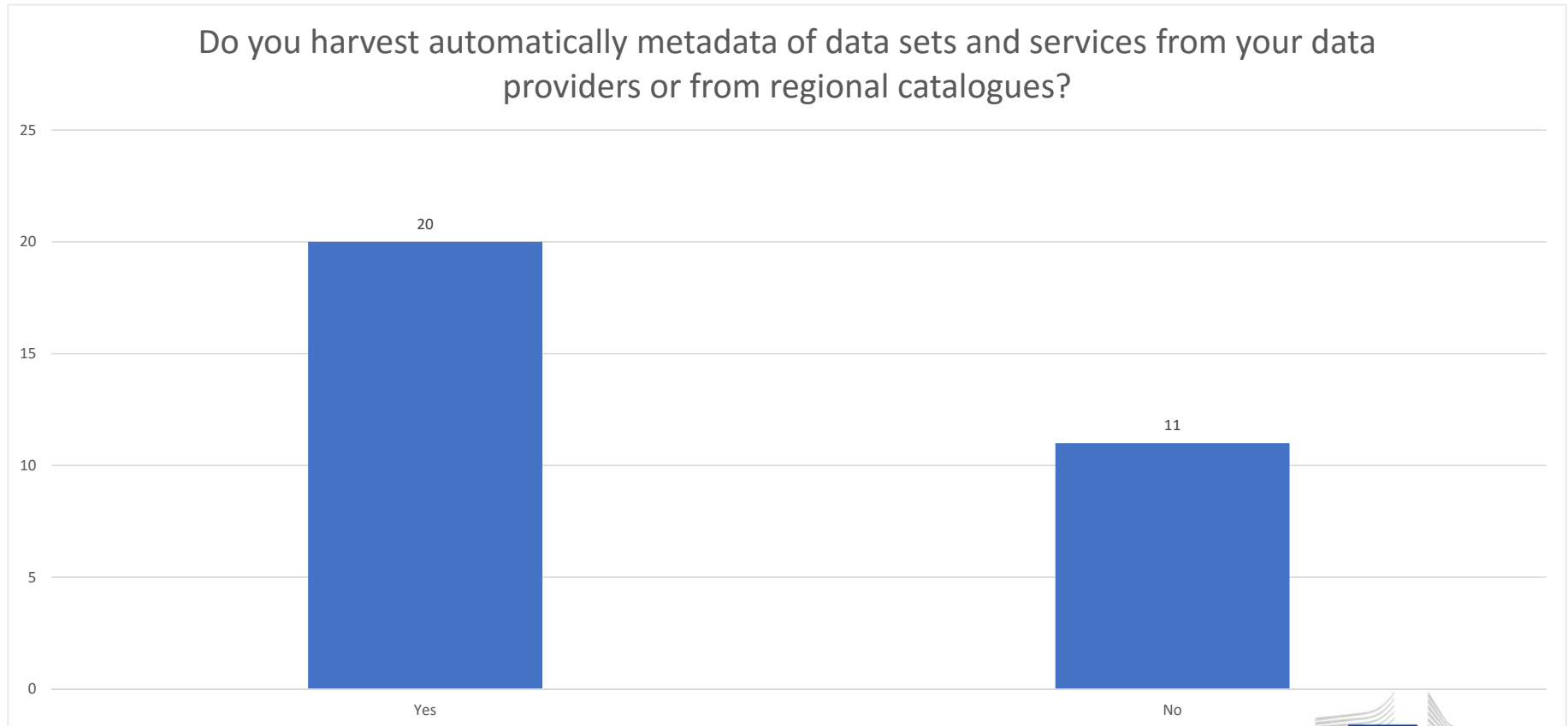


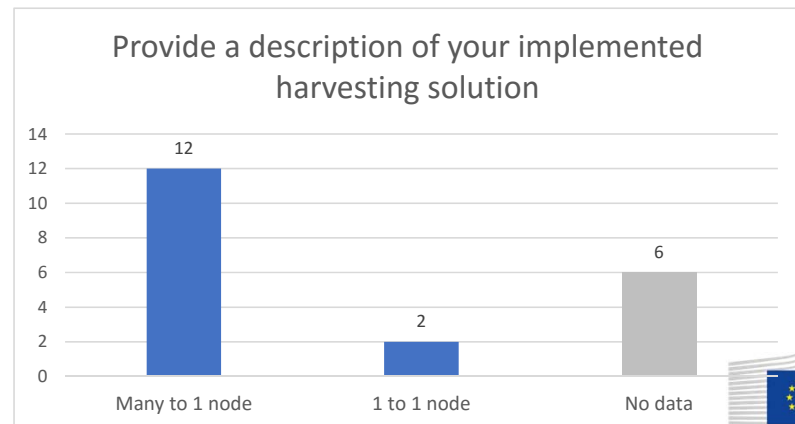
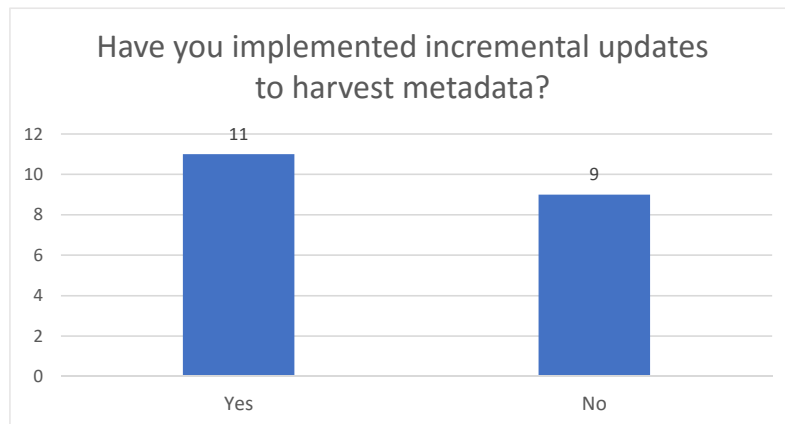
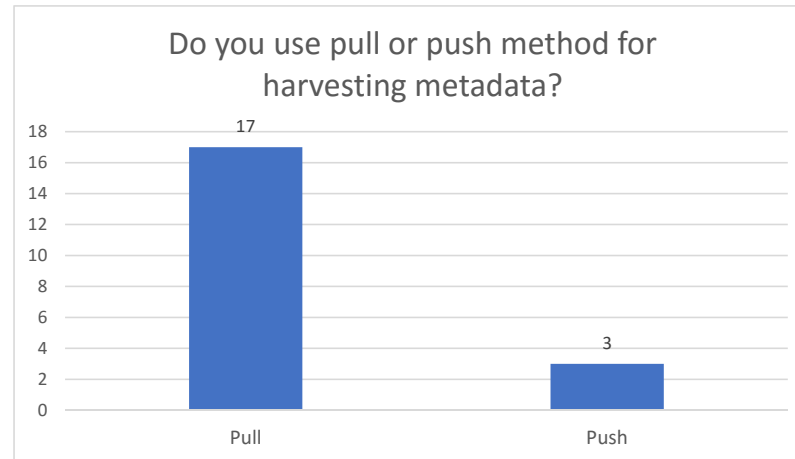
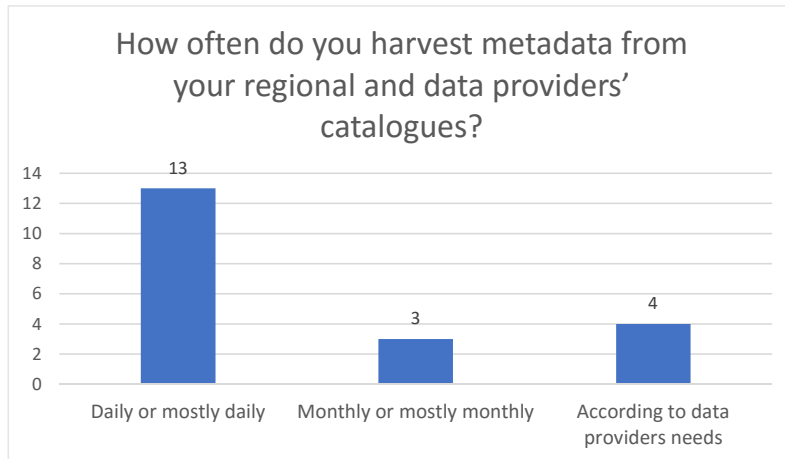
# 2

Description of Member States  
**Metadata & Network services'**  
systems in operation

# Metadata organisation – harvesting mode

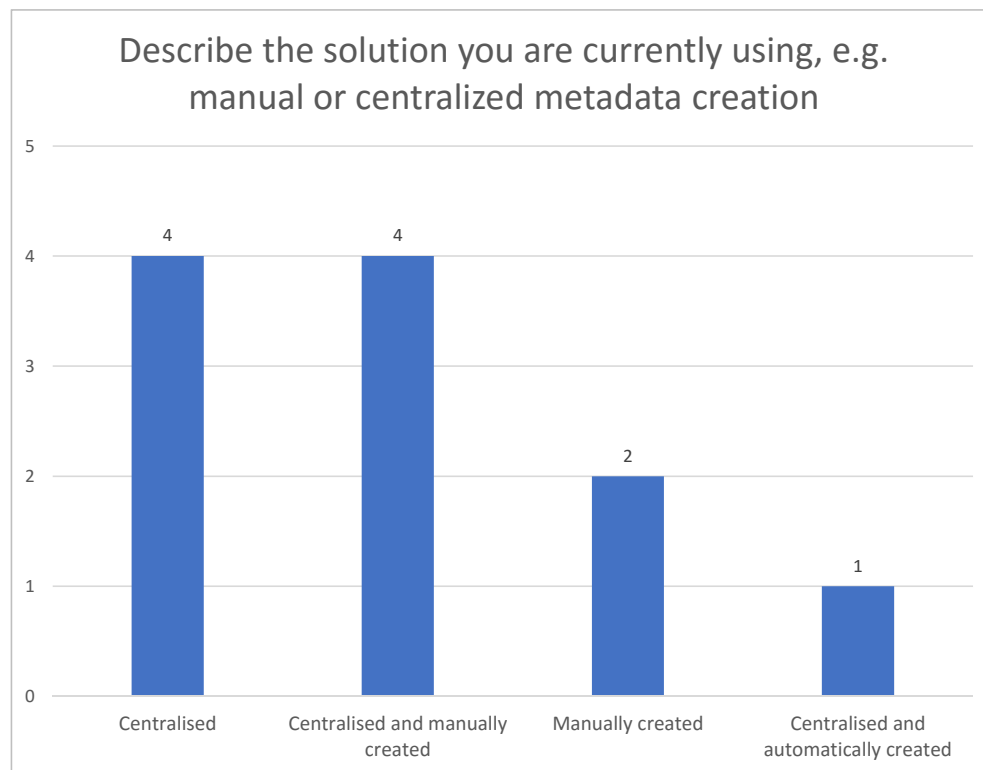


# Metadata organisation – For those who **do** harvest automatically



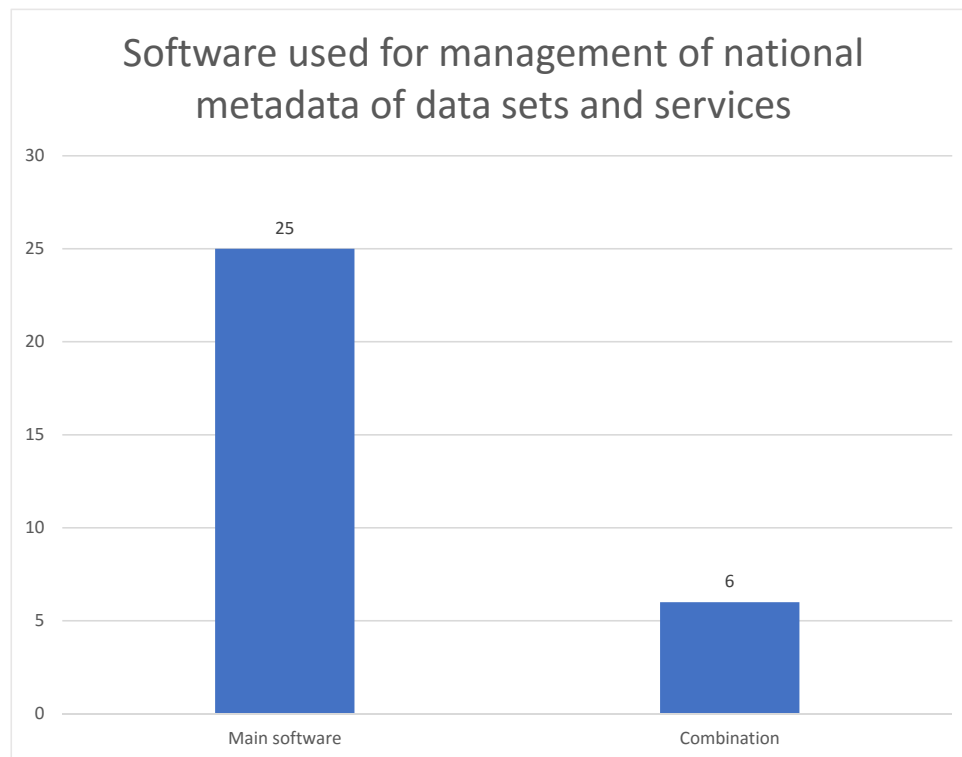
- Different catalogues interfaces are often supported:
  - CSW
  - Webdav (WAF)
- Reporting and approval system for publication often put in place.

# Metadata organisation – For those who **do NOT** harvest



- Reasons for manually creating MD centrally:
  - *“almost all the metadata are created by us (geoportal administrators) because **structure of metadata is quite complex for data providers and they often make mistakes, etc.** So it is easier for use to create metadata for them.”*
  - *“Harvesting process was done only once with the [\*\*\*] agency for environment and nature but since **their metadata profile has some errors and is not completely compliant with INSPIRE implementing rules we had to manually correct the metadata.**”*

# Software used for the management of metadata



Software(s) used	Total
<b>Geonetwork</b>	<b>19</b>
Geonetwork	15
Geoserver	2
CKAN	1
FME	1
<b>ESRI Geoportal Server</b>	<b>8</b>
ESRI Geoportal Server	6
Geonetwork	1
GEMA editor	1
<b>MDE server</b>	<b>1</b>
Metadata Editor (COTS/MOTS)	1
<b>Micka</b>	<b>1</b>
Micka	1
<b>Own development</b>	<b>1</b>
Own development	1
<b>terraCatalog 3.0</b>	<b>1</b>
terraCatalog 3.0	1
<b>Grand Total</b>	<b>31</b>

Some countries are planning:

- to move to Geonetwork
- upgrade their current Geonetwork's version

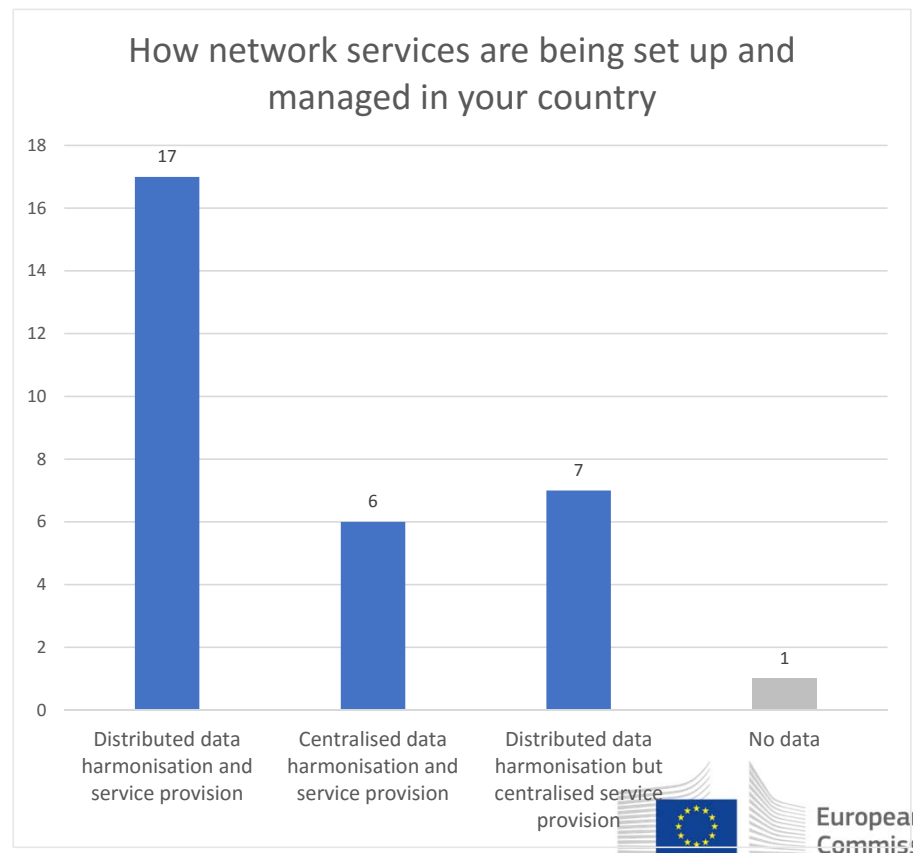
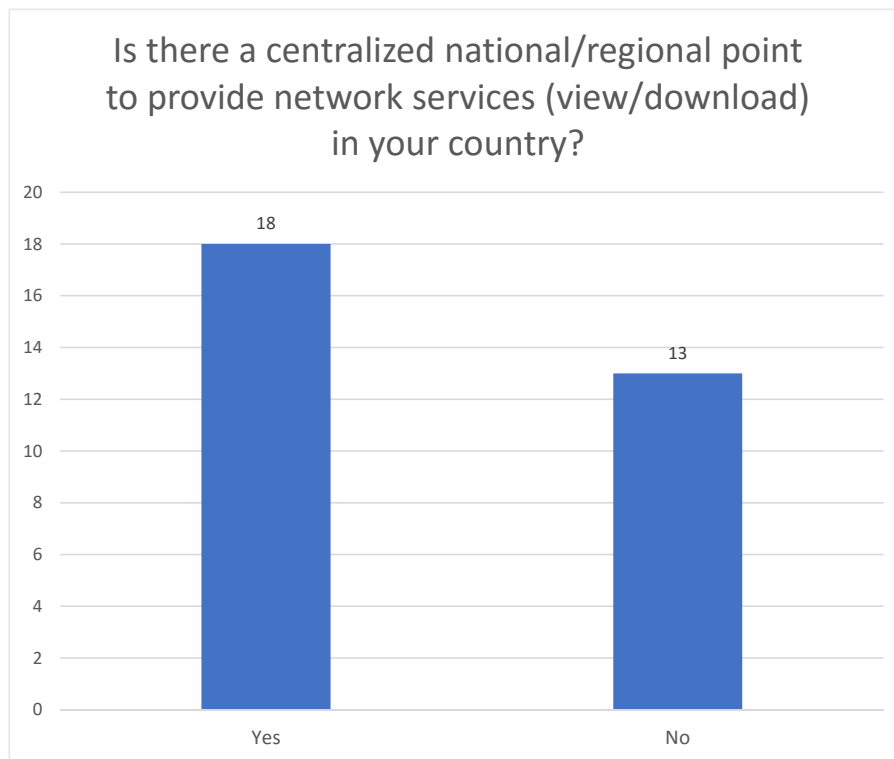
# Metadata software versions used & main issues

Geonetwork Version	Total
<b>2.X</b>	<b>5</b>
2.6.4	1
2.10.1	1
2.10.4	2
2.11	1
<b>3.X</b>	<b>14</b>
3	2
3.0.2.0	2
3.2	3
3.2.2	1
3.4.1	1
3.4	1
3.4.2	2
3.4.3	2
<b>Grand Total</b>	<b>19</b>

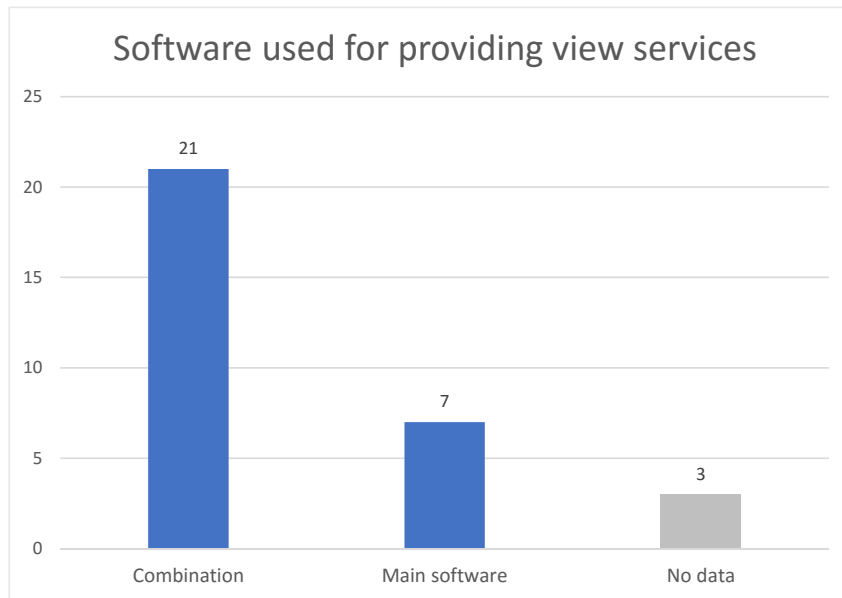
Geoportal Server version	Total
1.2.5	2
1.2.7	1
2.5	1
No version indicated	4
<b>Grand Total</b>	<b>8</b>

<b>Geonetwork</b>	<ul style="list-style-type: none"> <li>• <b>Index issues</b> - duplicated metadata</li> <li>• Download errors with <b>stored query</b></li> <li>• Requires still <b>too much manual operation on raw XML</b> (<i>Tagging of priority datasets, resource linking</i>)</li> <li>• Doesn't drop off decimals of <b>coordinates</b> without rounding up</li> <li>• <b>Opensearch</b> document is not complete (missing information)</li> <li>• <i>Metadata editor doesn't produce 100% INSPIRE compliant metadata.</i></li> </ul>
<b>Geoportal Server</b>	<ul style="list-style-type: none"> <li>• Not possible to <b>import new thesaurus</b>, code lists</li> <li>• <b>Metadata anchor element not supported</b> (<i>manually corrected metadata, is not valid for ESRI validator the file cannot be uploaded</i>)</li> <li>• Have to remain on an older version of Geoportal software as <b>newer versions of CSW not allowed under INSPIRE technical guidelines</b></li> </ul>
<b>MDE Server</b>	<ul style="list-style-type: none"> <li>• Mix of issues with MD editor and harvesting process</li> </ul>

# How **network services** are being set up and managed in your country



# Software used for providing **view services**



Trend of replacing commercial software with open source software

Software(s) used	Total
<b>Geoserver</b>	<b>12</b>
Mapserver	5
ESRI ArcGIS Suite	5
Geoserver	1
FME Server	1
<b>ESRI ArcGIS Suite</b>	<b>10</b>
ESRI ArcGIS Suite	5
Geoserver	2
Intergraph	1
Deegree	1
Geomedia, Erdas Apollo	1
<b>Mapserver</b>	<b>4</b>
Geoserver	2
Mapserver	1
ESRI ArcGIS Suite	1
<b>No data</b>	<b>3</b>
No data	3
<b>Deegree</b>	<b>1</b>
Geoserver	1
<b>Mapproxy</b>	<b>1</b>
Geoserver	1
<b>Grand Total</b>	<b>31</b>



# View services software versions used & main issues

Geoserver Version	Total
2.14	1
2.13	1
2.12.1	1
2.12	1
2.10	1
2.8.4	1
2.8	1
2.5.2	1
No version indicated	14
<b>Grand Total</b>	<b>22</b>

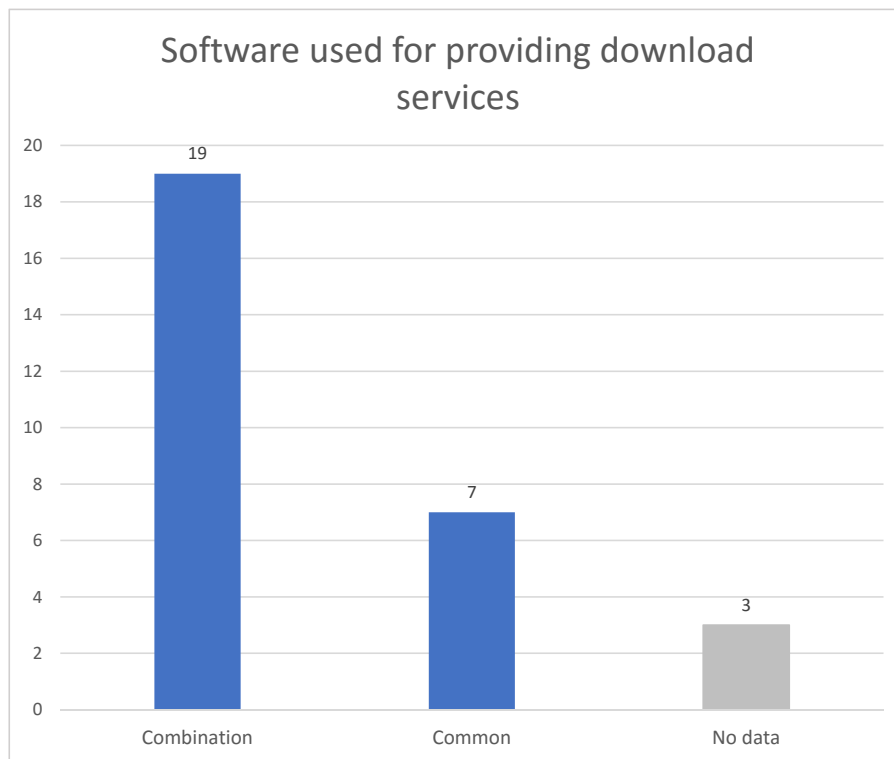
ESRI ArcGIS version	Total
10.1	1
10.3	3
10.3.1	1
10.5	1
No version indicated	14
<b>Grand Total</b>	<b>20</b>

Mapserver version	Total
7.2.1	1
7.0.7	1
6.4.1	1
No version indicated	1
<b>Grand Total</b>	<b>4</b>

- Sometimes, different versions of software used by the same organisation depending on the resource targeted
- INSPIRE extensions and plugins are often used with Geoserver & ESRI

<b>Esri</b>	<ul style="list-style-type: none"> <li>• WMS service configuration environment <b>allows to add only one <i>Layer Identifier</i> authority attribute</b> per service</li> <li>• Bad performance of service</li> </ul>
<b>Deegree</b>	<ul style="list-style-type: none"> <li>• view services render slow</li> </ul>

# Software used for providing **download services**



Software(s) used	Total
<b>ArcGIS Server</b>	<b>9</b>
ArcGIS Server	4
Deegree	1
Geoserver	2
Hexagon	2
<b>Geoserver</b>	<b>9</b>
ArcGIS Server	3
Mapserver	3
Caris	1
ESRI ArcGIS Suite	1
GML packages prepared by Hale Studio	1
<b>Deegree</b>	<b>4</b>
Deegree	2
Mapserver	1
Geoserver	1
<b>Mapbender</b>	<b>1</b>
Deegree	1
<b>GoPublisher</b>	<b>1</b>
Geoserver	1
<b>Files shared through Apache server</b>	<b>1</b>
ArcGIS Server	1
<b>Own development</b>	<b>1</b>
Own development	1
<b>FME Server</b>	<b>1</b>
FME Server	1
<b>GeoNetwork</b>	<b>1</b>
FME Server	1
<b>Grand Total</b>	<b>28</b>

- Geonetwork used for ATOM/OpenSe arch feature
- Plain files placed on a http server
- SOS services with 52Noth

# Download services software versions used & main issues

Geoserver version	Total
2.8.4	1
2.8.0	1
2.5.2	1
2.14	1
2.1	1
No version indicated	11
<b>Grand Total</b>	<b>16</b>

ESRI ArcGIS Suite version	Total
10.3.1	2
10.3	2
10.1	1
No version indicated	16
<b>Grand Total</b>	<b>21</b>

Deegree version	Total
3.4.2	1
3.3.9	1
3.3.20	1
3.3.18	1
No version indicated	5
<b>Grand Total</b>	<b>9</b>

<b>Geoserver</b>	<ul style="list-style-type: none"> <li>• Impossible to provide a single INSPIRE stored query → Geoserver lists all stored queries, also for other datasets.</li> <li>• <b>Impossible to provide many INSPIRE themes dataset on one Geoserver</b> because in a feature type you can't refer to the same namespace.</li> <li>• Impossible to establish different security policies for different WFS services</li> <li>• Bugs in the App Schema extension</li> </ul>
<b>Esri ArcGIS server</b>	<ul style="list-style-type: none"> <li>• Includes invalid parameter in the <i>GetMap</i> request: <b>EXCEPTION=application/vnd.ogc.se_xml</b></li> <li>• <b>Limitation on the maximum number of records</b> that can be downloaded via a REST Feature Access service</li> <li>• Sometimes a WFS service works on QGIS but at the same time is <b>unresponsive in ArcGIS</b></li> <li>• Impossible to configure INSPIRE extended properties for metadata in <i>GetCapabilities</i></li> <li>• Impossible to export SLD legend of dataset</li> </ul>
<b>Deegree</b>	<ul style="list-style-type: none"> <li>• <b>Limit on the number of features loaded</b></li> <li>• <b>Slow reload for complex datasets</b> and rectified grid in GML</li> </ul>
<b>Mapserver</b>	<ul style="list-style-type: none"> <li>• <b>Doesn't have an app-schema plugin.</b> Therefore we can't deliver harmonised data on-the-fly</li> </ul>
<b>Geonetwork</b>	<ul style="list-style-type: none"> <li>• <b>ATOM/OpenSearch</b> passes 39 out of 40 test cases on the etf-webapp</li> </ul>
<b>HALE connect</b>	<ul style="list-style-type: none"> <li>• <i>Application Schema for geology theme has issues with cardinality of Geofeature object</i></li> </ul>