R Notebook

# GEO Data Sharing and Data Management Principles Crosswalk Analysis

## Reading data from the Google Sheet

* Source of crosswalk information:
* Source worksheets:

dmp\_crosswalk[c(1,4,5,6,7)] %>%   
 qflextable() %>%   
 set\_header\_labels(  
 values = list(DataSharingPrinciple = "Data Sharing Principle",  
 "Lifecycle-EDMF" = "EDMF",  
 "Lifecycle-NSTC" = "NSTC",  
 "Lifecycle-EEA" = "EEA",  
 "Lifecycle-NIST" = "NIST",  
 "Lifecycle-DataONE" = "DataONE")) %>%   
 fontsize(size = 7, part = "body") %>%   
 fit\_to\_width(max\_width = 6.5, unit = "in")

| Data Sharing Principle | NSTC | EEA | NIST | DataONE |
| --- | --- | --- | --- | --- |
| DMP-1: Metadata for Discovery | NSTC-A | EEA-J | NIST-B | DataONE-A |
| DMP-1: Metadata for Discovery |  |  |  | DataONE-D |
| DMP-1: Metadata for Discovery |  |  |  | DataONE-F |
|  |  |  |  |  |
| DMP-2: Online Access | NSTC-B | EEA-K | NIST-B | DataONE-A |
| DMP-2: Online Access |  |  |  | DataONE-F |
| DMP-2: Online Access |  |  |  | DataONE-G |
|  |  |  |  |  |
| DMP-3: Data Encoding | NSTC-D | EEA-H | NIST-A | DataONE-A |
| DMP-3: Data Encoding |  |  | NIST-B | DataONE-E |
| DMP-3: Data Encoding |  |  | NIST-D | DataONE-G |
| DMP-3: Data Encoding |  |  | NIST-E | DataONE-H |
|  |  |  |  |  |
| DMP-4: Data Documentation | NSTC-C | EEA-J | NIST-B | DataONE-A |
| DMP-4: Data Documentation |  |  | NIST-C | DataONE-D |
| DMP-4: Data Documentation |  |  | NIST-D | DataONE-F |
| DMP-4: Data Documentation |  |  | NIST-E | DataONE-G |
| DMP-4: Data Documentation |  |  |  | DataONE-H |
|  |  |  |  |  |
| DMP-5: Data Traceability |  | EEA-J | NIST-D | DataONE-A |
| DMP-5: Data Traceability |  |  | NIST-E | DataONE-B |
| DMP-5: Data Traceability |  |  |  | DataONE-C |
| DMP-5: Data Traceability |  |  |  | DataONE-D |
| DMP-5: Data Traceability |  |  |  | DataONE-H |
|  |  |  |  |  |
| DMP-6: Data Quality-Control |  | EEA-I | NIST-C | DataONE-A |
| DMP-6: Data Quality-Control |  |  | NIST-D | DataONE-B |
| DMP-6: Data Quality-Control |  |  |  | DataONE-C |
| DMP-6: Data Quality-Control |  |  |  | DataONE-D |
|  |  |  |  |  |
| DMP-7: Data Preservation |  | EEA-L | NIST-D | DataONE-A |
| DMP-7: Data Preservation |  |  | NIST-F | DataONE-E |
|  |  |  |  |  |
| DMP-8: Data and Metadata Verification |  | EEA-L | NIST-D | DataONE-B |
| DMP-8: Data and Metadata Verification |  |  | NIST-F | DataONE-C |
| DMP-8: Data and Metadata Verification |  |  |  | DataONE-D |
| DMP-8: Data and Metadata Verification |  |  |  | DataONE-E |
| DMP-8: Data and Metadata Verification |  |  |  | DataONE-F |
|  |  |  |  |  |
| DMP-9: Data Review and Reprocessing |  | EEA-L | NIST-F | DataONE-B |
| DMP-9: Data Review and Reprocessing |  |  |  | DataONE-C |
| DMP-9: Data Review and Reprocessing |  |  |  | DataONE-E |
|  |  |  |  |  |
| DMP-10: Persistent and Resolvable Identifiers | NSTC-A |  | NIST-E | DataONE-A |
| DMP-10: Persistent and Resolvable Identifiers |  |  |  | DataONE-B |
| DMP-10: Persistent and Resolvable Identifiers |  |  |  | DataONE-D |
| DMP-10: Persistent and Resolvable Identifiers |  |  |  | DataONE-F |
| DMP-10: Persistent and Resolvable Identifiers |  |  |  | DataONE-G |

## Visualize some relationships

graph <- graph\_from\_data\_frame(d = e\_dmp\_lifecycle, directed = FALSE)

## Warning in eattrs[[nam[i]]][idx] <- attrs[[nam[i]]]: number of items to replace  
## is not a multiple of replacement length

ggraph(graph) +  
 geom\_edge\_link0() +  
 geom\_node\_point()

## Using `stress` as default layout

