BUILDING BLOCKS FOR GEOGRAPHIC INFORMATION

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Objective

Streamlining and harmonizing workflows in projects that use Geographic information. It delves into the fundamental building blocks of processes, such as data managing and governance, data processing and use and exploitation, emphasizing their interconnections and the importance of a standardized approach.

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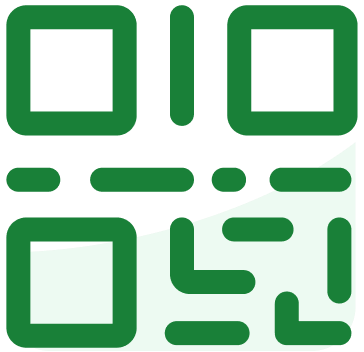

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¿What are the three main phases of a project with Geographic Information?

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What are the difference between data capturing, data collecting and data acquisition?

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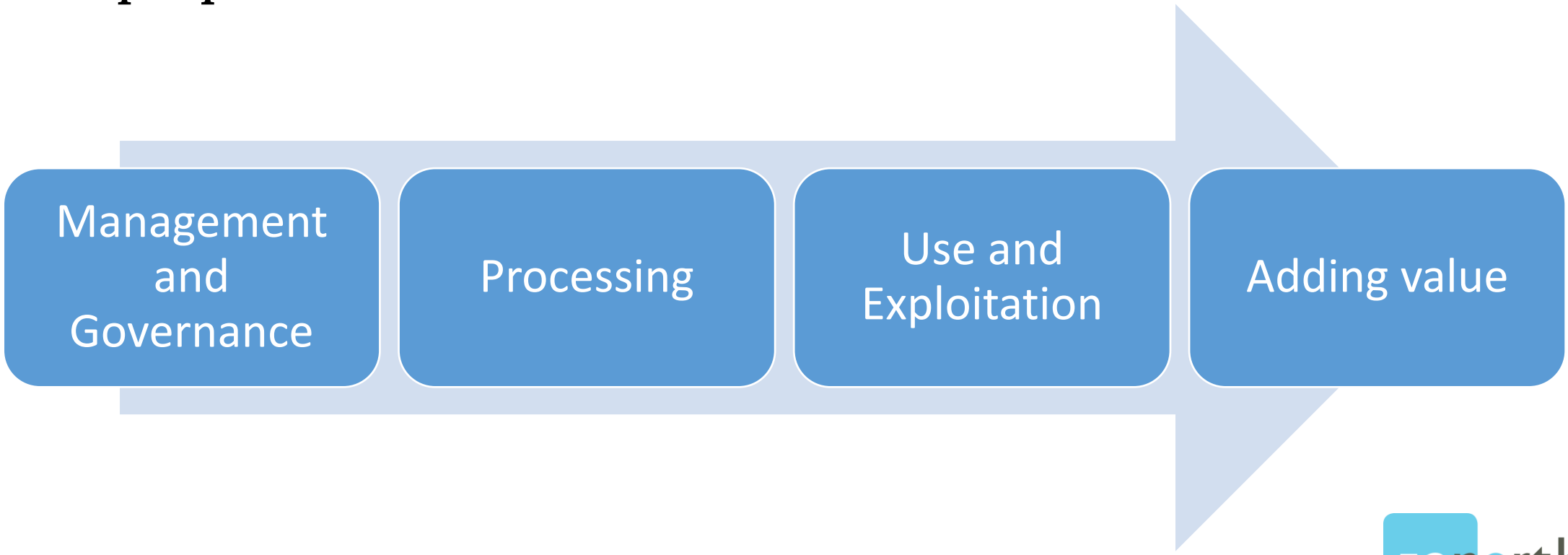
Lack of common understanding

Between companies, clients, institutions about the common steps, processes and approaches in working with geographic data

Need for common ground

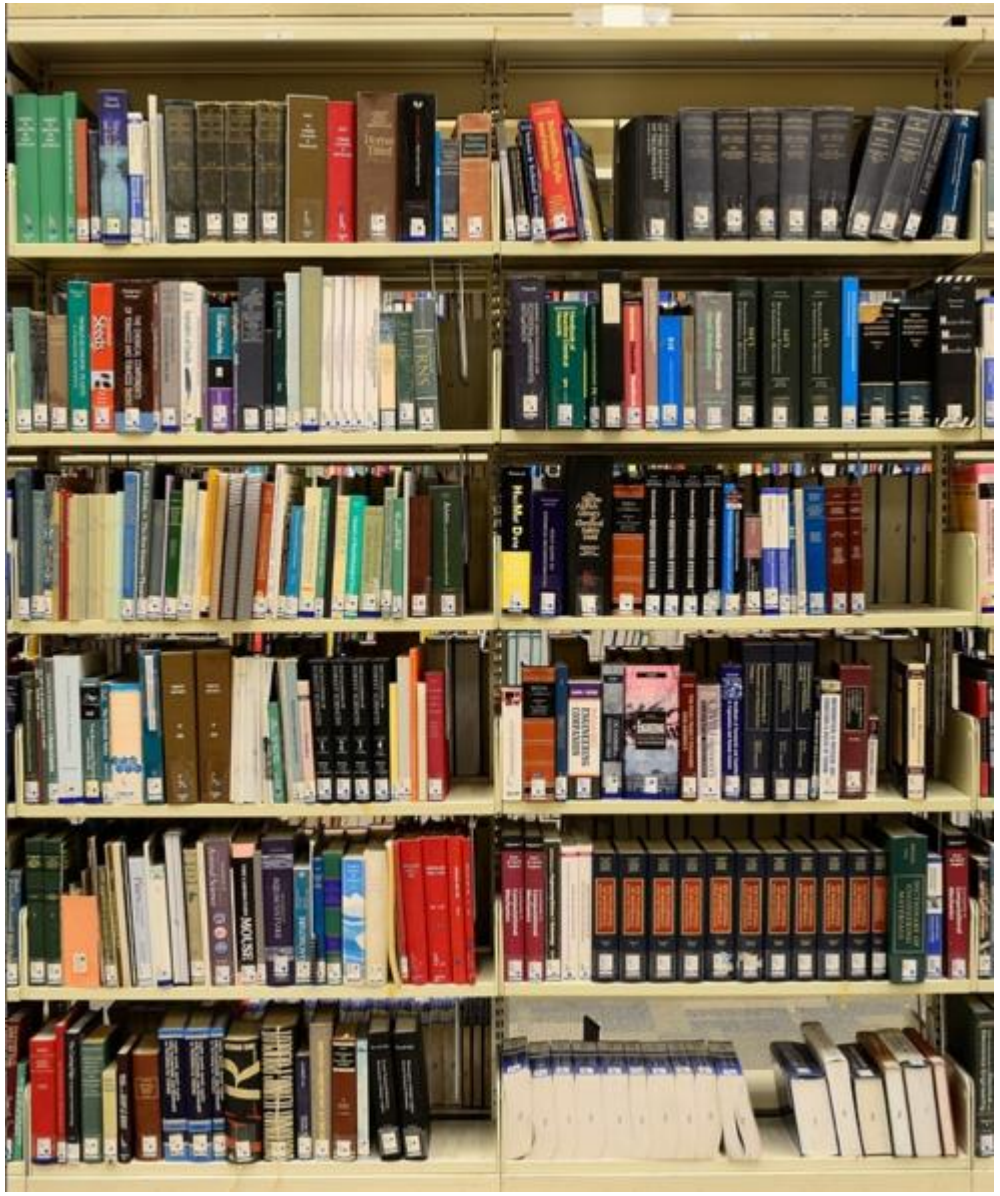
To ease collaboration and project management when working with geographic data across organizations

Our proposal:



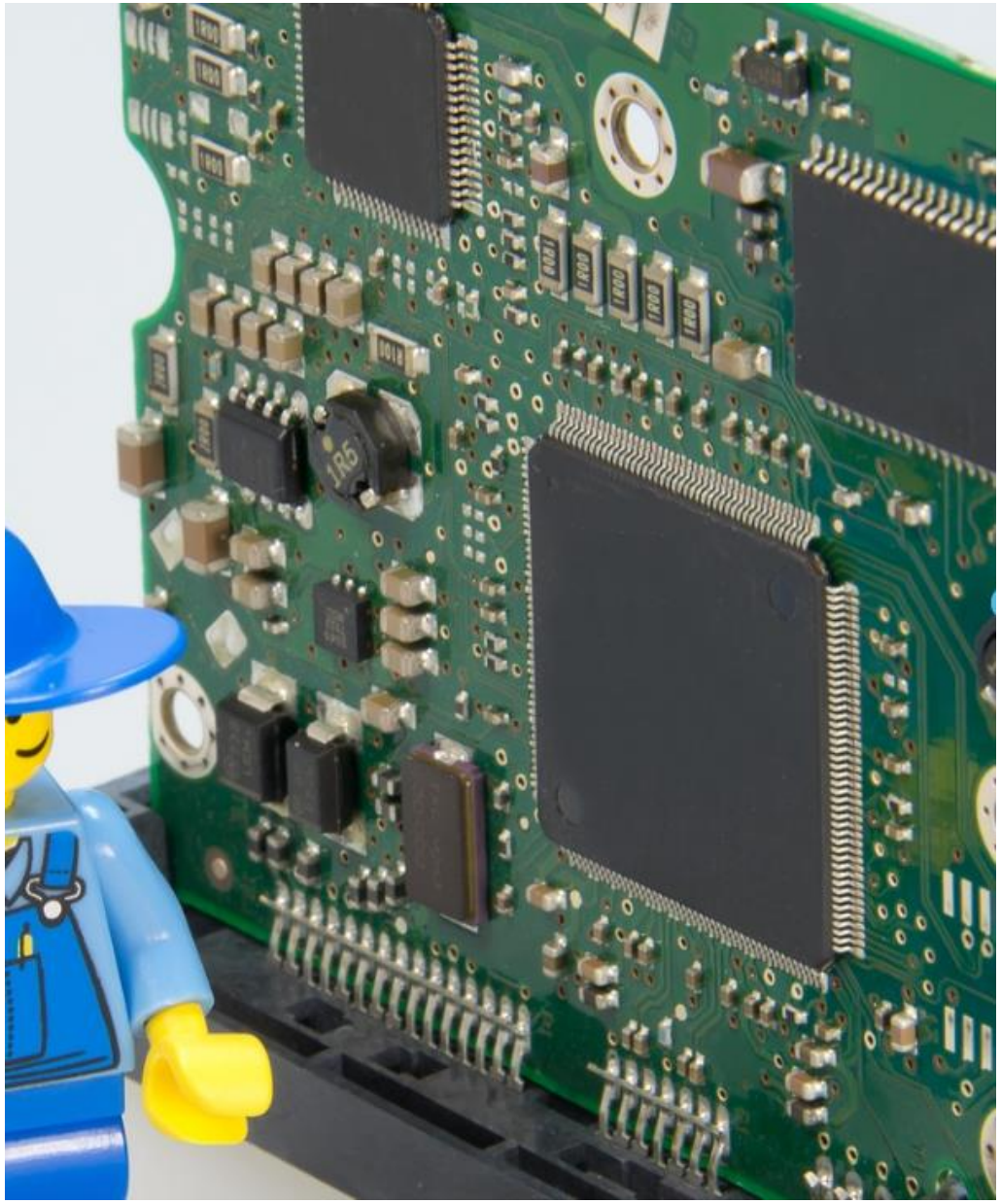
Management and Governance

This step involves establishing procedures for data capturing, acquisition, extraction, organizing and cataloguing the data, and setting up policies and regulations that guide its use.



Processing

This phase involves the manipulation and transformation of geographic data to make it ready for analysis. This can include tasks such as data cleaning, geocoding, or converting between data formats.



Use and Exploitation

This is the stage where the processed data is utilized for various applications like decision making, reporting, and adding value. It involves performing spatial analyses, modelling, and visualizing the results.

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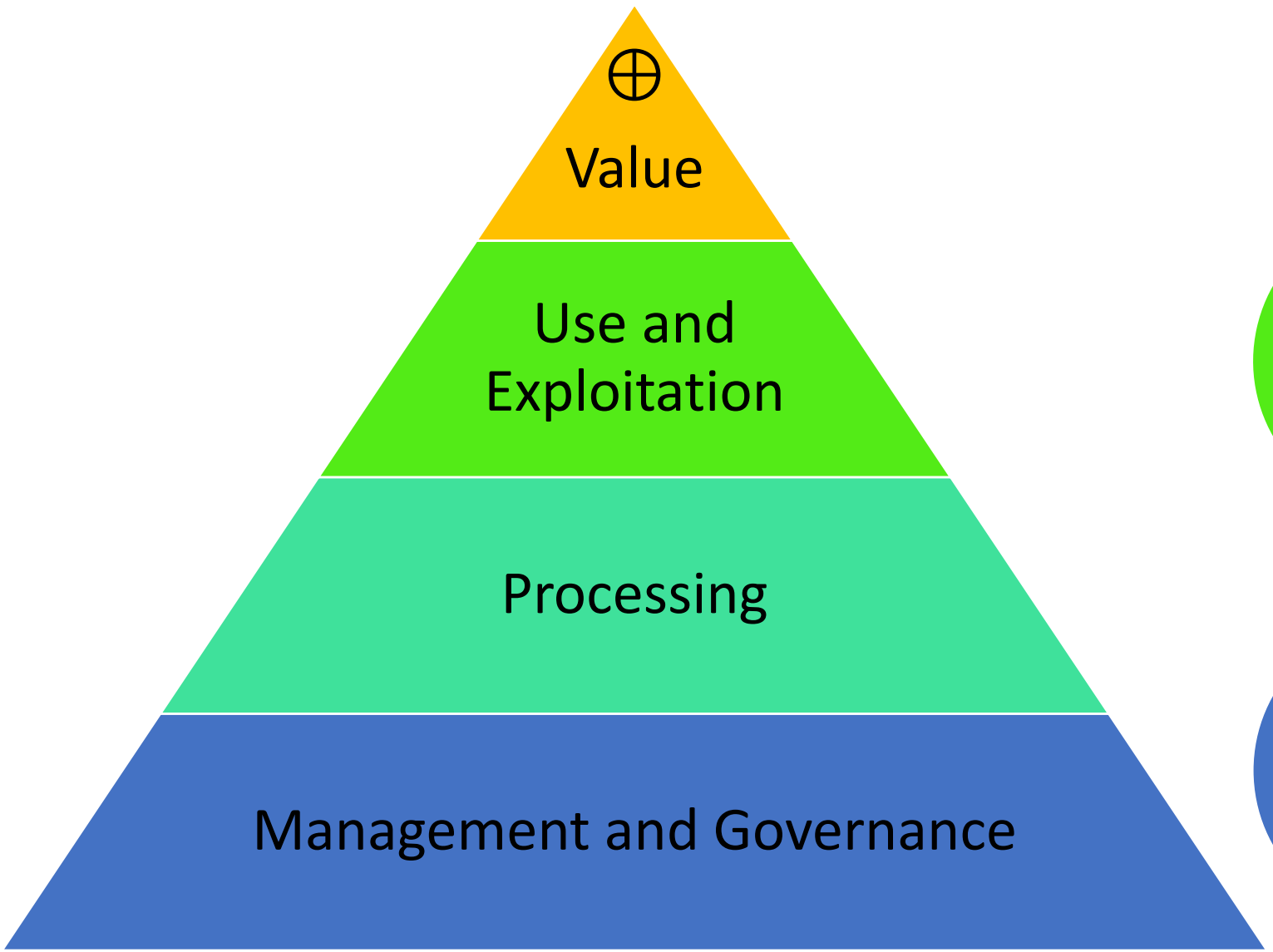
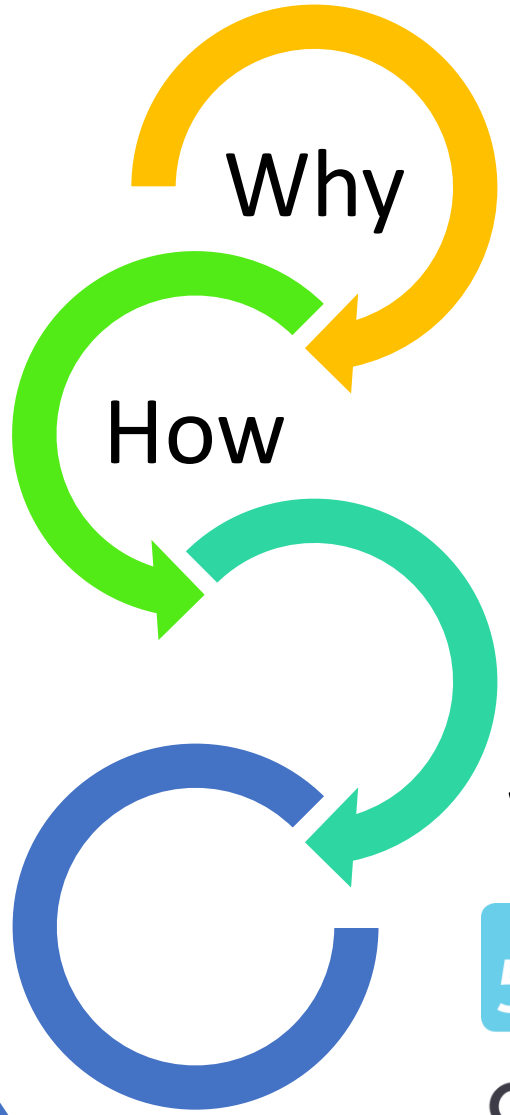
Adding value

This should be the last step in any workflow with GI, ensuring the usefulness or relevance by turning the geoinformation into accessible products that generate knowledge and comprehension.





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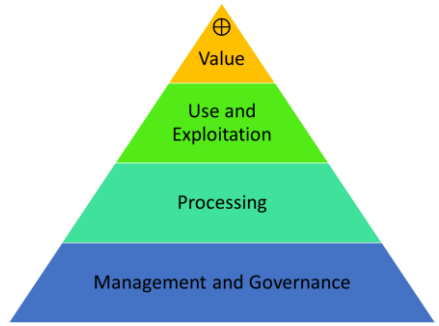
Management and Governance

- Capture (new data)
- Acquisition (existing data)
- Data extraction / Refinement
- Catalogue
- Governance



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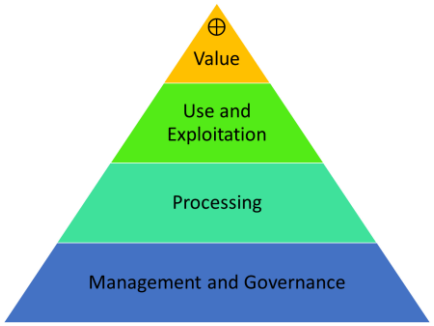
Processing of Data

- Definition
- Transformation (massive, the whole dataset)
- Integration (part of one or more DS)
- Editing (one by one element, manual/few items)
- Deliver



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Use and exploitation

Exploratory Data Analyse

Modelling (of observed natural processes/phenomena)

Interpretation

Overlay/Visualize raw data

Matrix/Correlation

Descriptive statistics

Filter of data

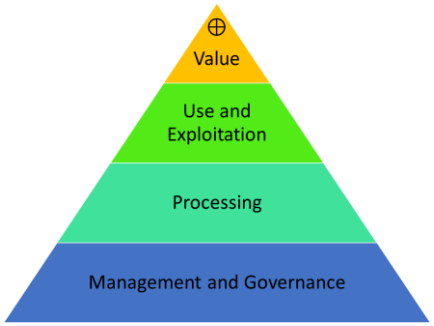
Building assumptions/hypothesis

Statistics/probabilistic models

Machine learning/AI

Numerical model

Visualization



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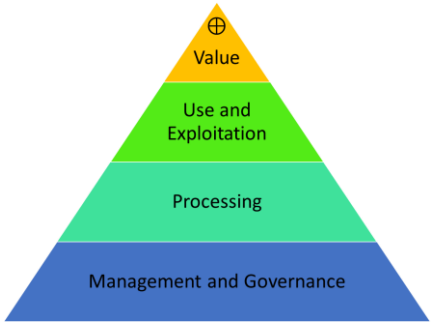
Adding value

Added economic, environmental or social value

Reporting (tailored to the intended audience, I.e., demand driven)

Decision Taking



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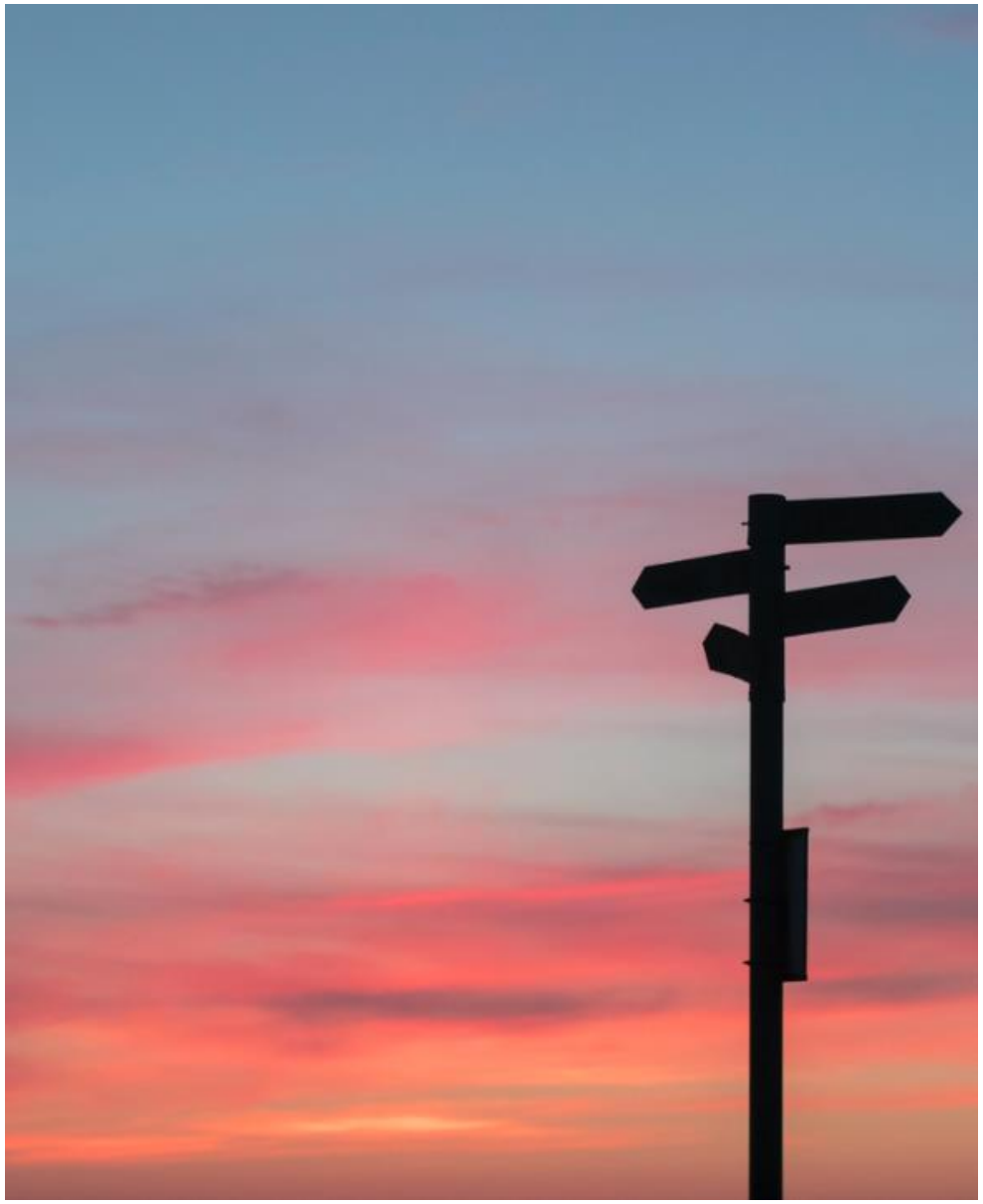
Next Steps

- Finish, publish and share the draft document with the community
- Stress the concepts, with workshops applying real GI projects
- Publish the reviewed final document



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THANK YOU