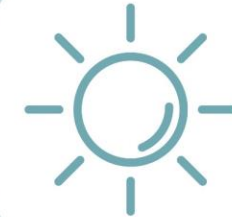


Data Consistency for Automated Biodiversity Net Gain

Becky Marsden
Data Engineer
AECOM

AECOM

Annual
Event
2025



What is Biodiversity Net Gain?



Baseline Habitats



Post Development Habitats

+10%





Summary

A tool to help organisations **achieve regulatory compliance, optimise land-use planning decisions, and report clearly and consistently** on their operational impacts on nature.



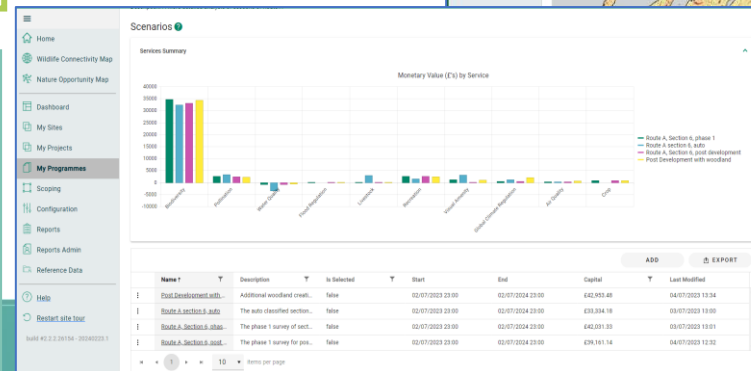
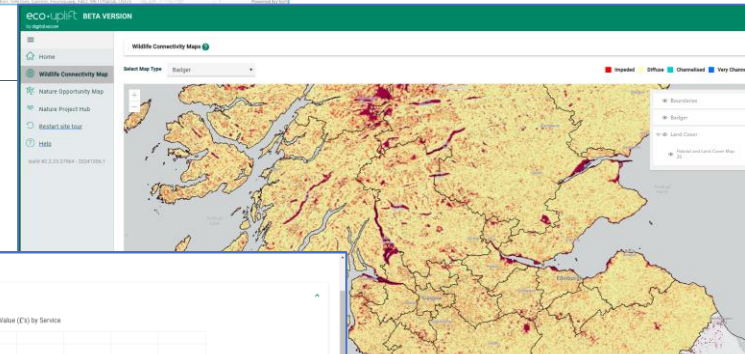
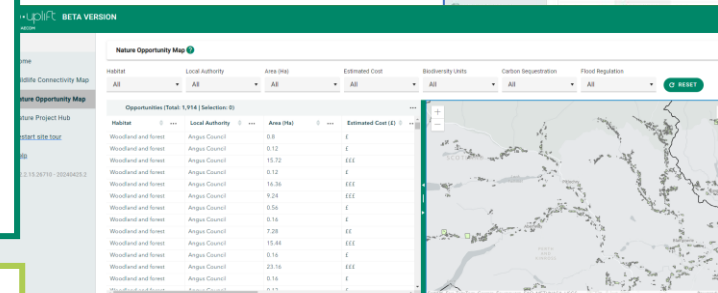
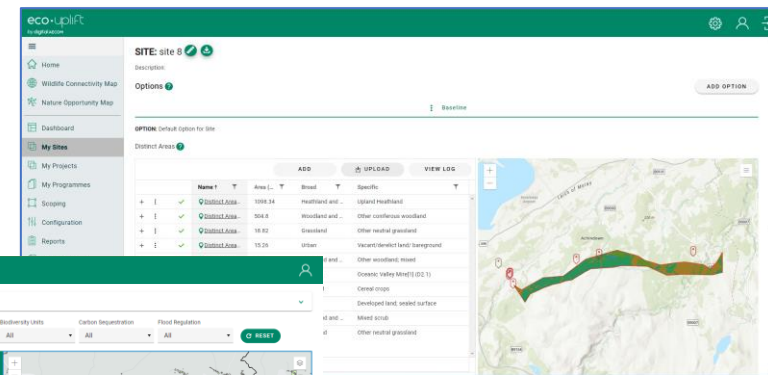
Function

- Automated BNG & Natural Capital Assessments
- Options Appraisal and Optimisation
- Integrated Reporting and Analytics

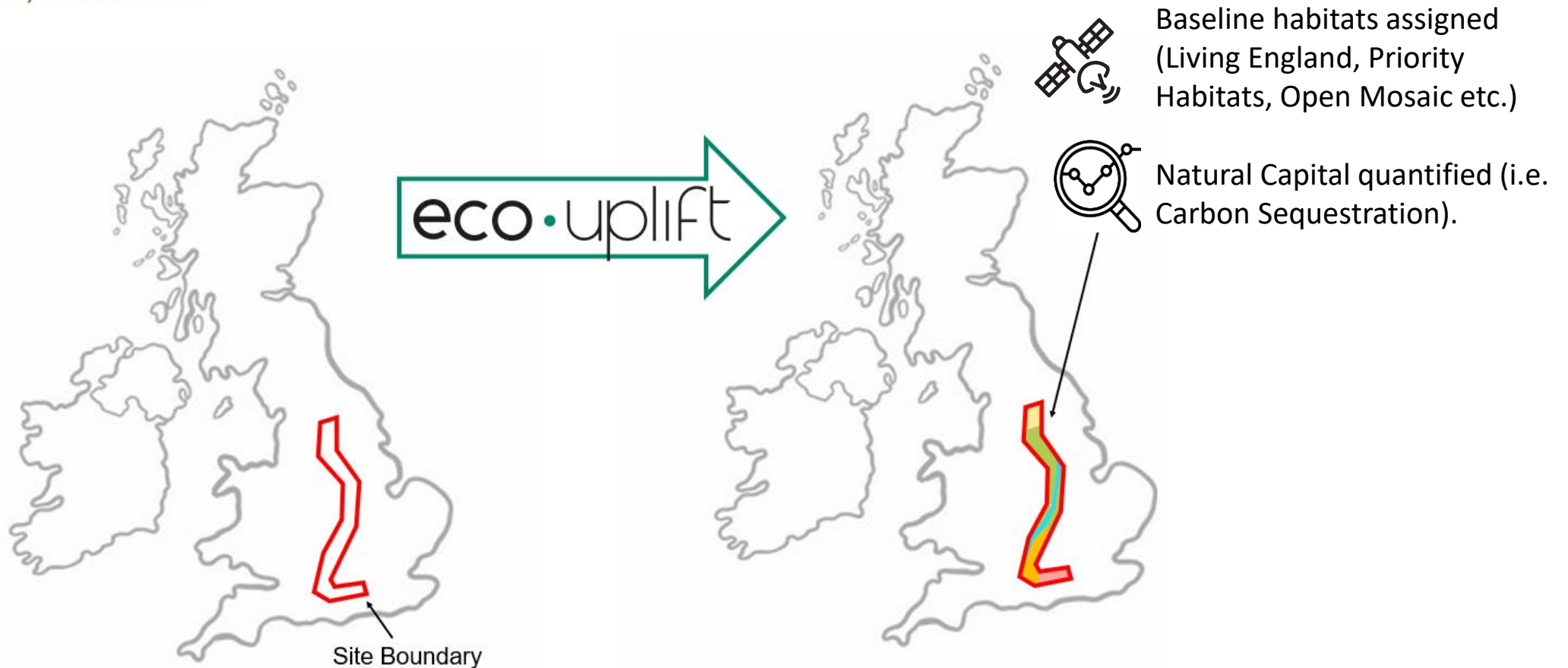


Benefits

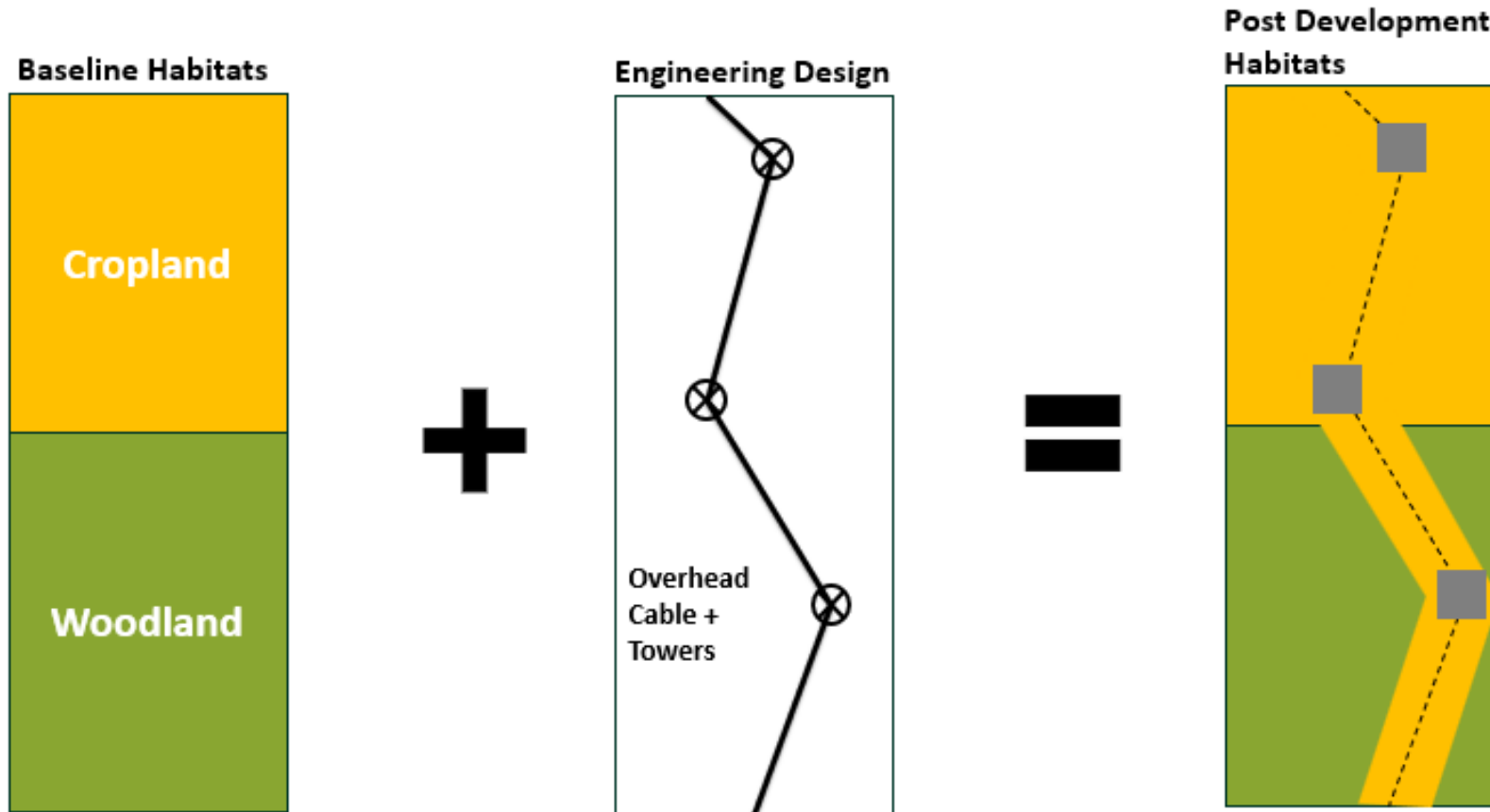
- Quick, low-cost assessments compared to traditional manual approaches
- Supports regulatory compliance
- Supports identification of land-use proposals with best outcomes.
- Helps optimise the performance of nature-based solutions.



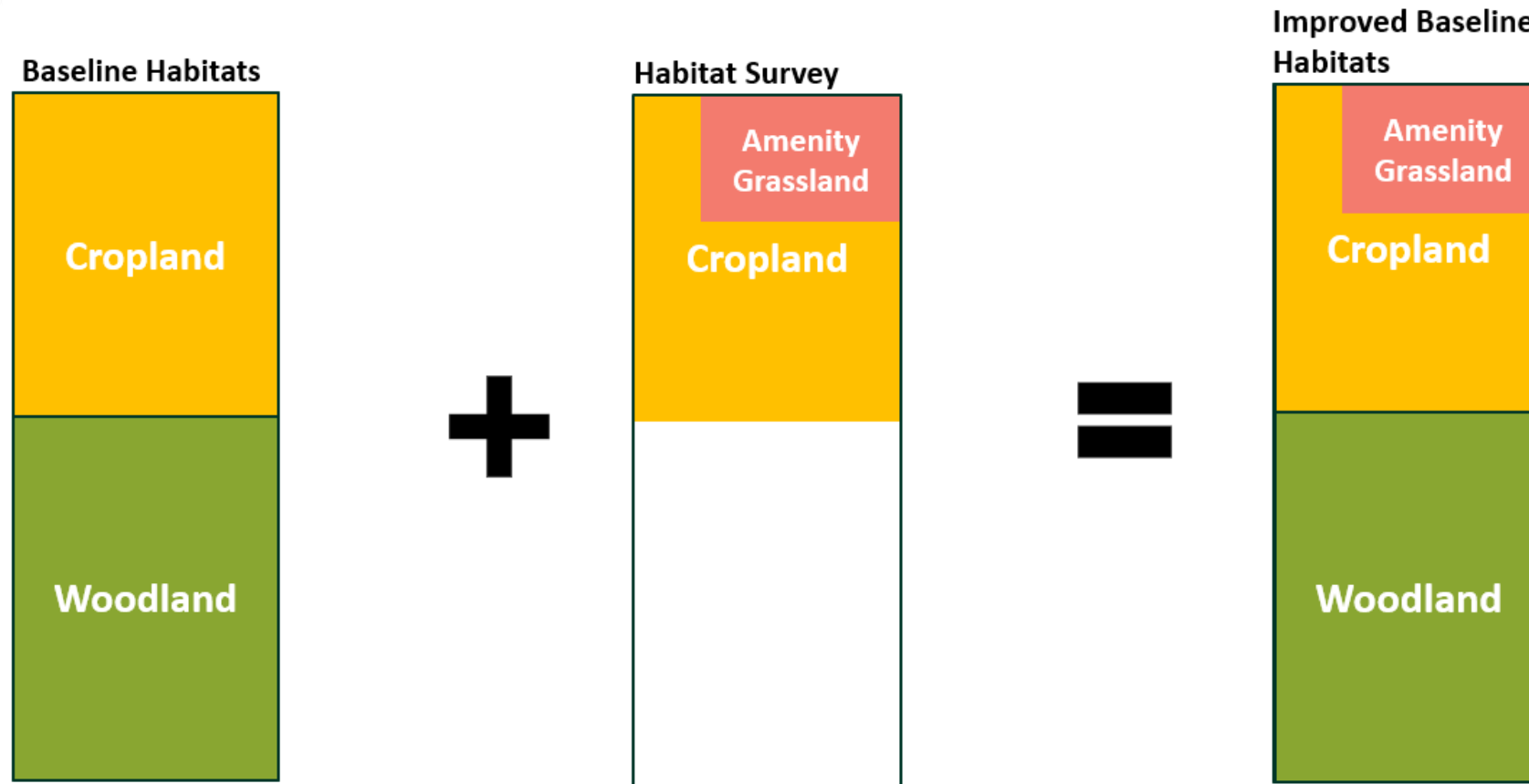
Automated BNG of large schemes



Integrating client data – Construction Design

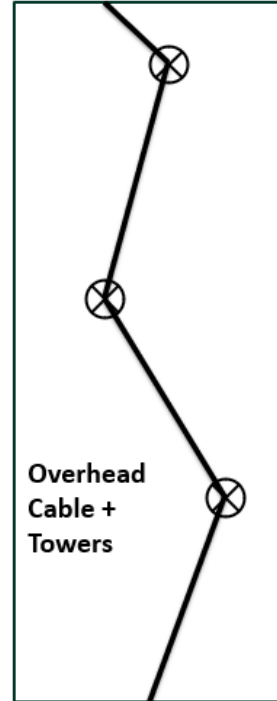


Integrating client data – Habitat Surveys



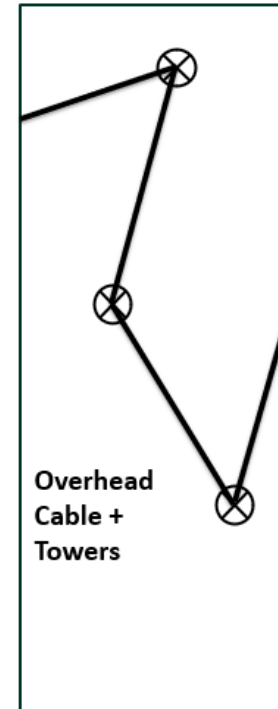
Importance of data consistency – Design Freeze

Design Freeze 1



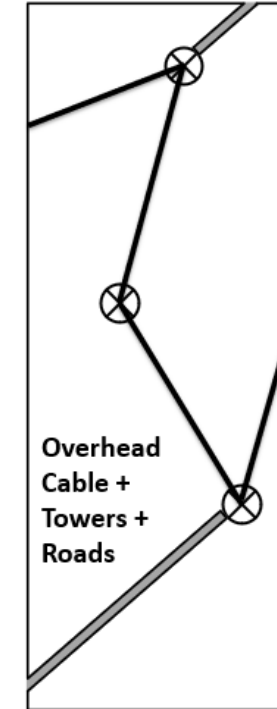
Provided in
Filegeodatabase

Design Freeze 2



Provided as
Shapefile

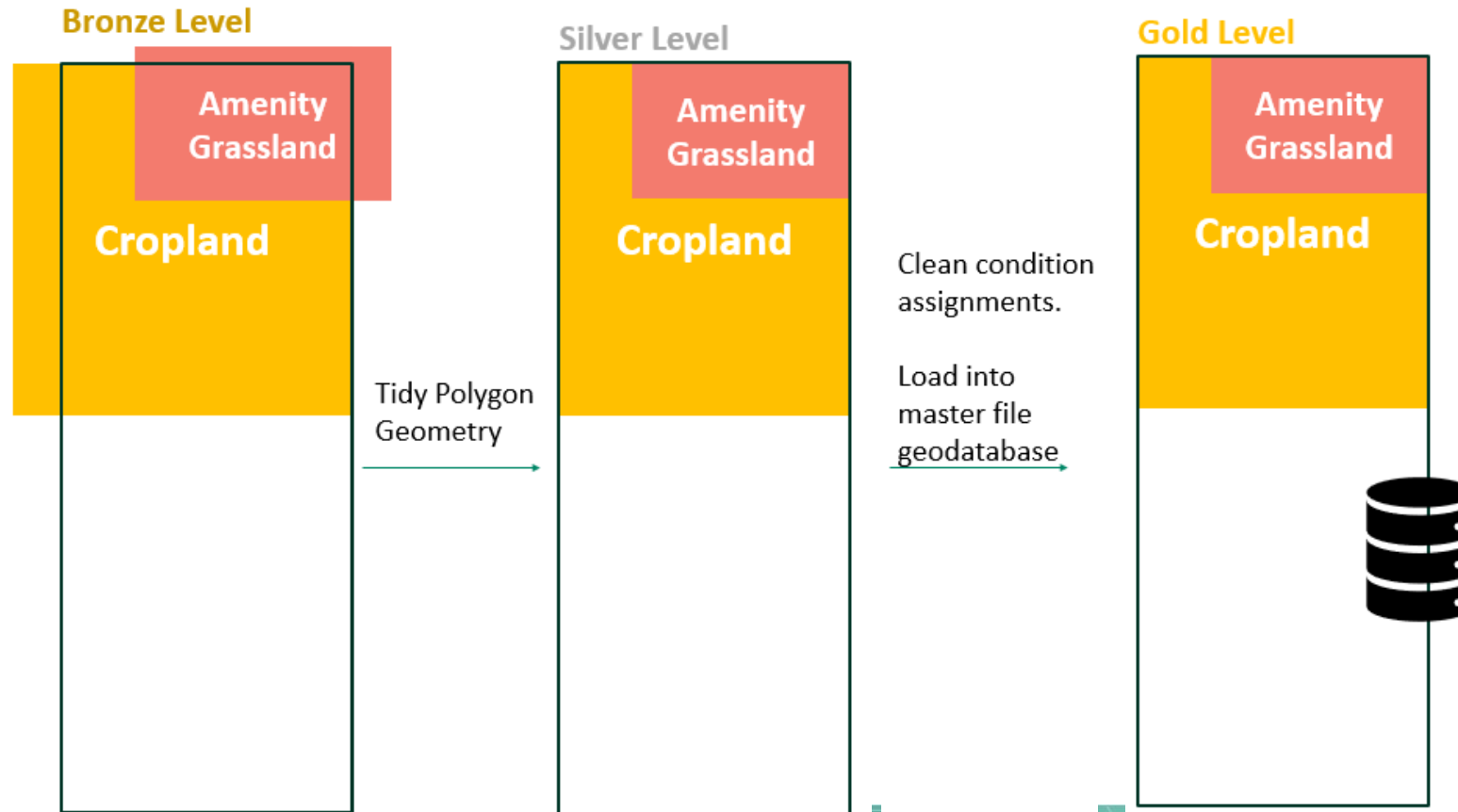
Design Freeze 3



Provided in
Filegeodatabase

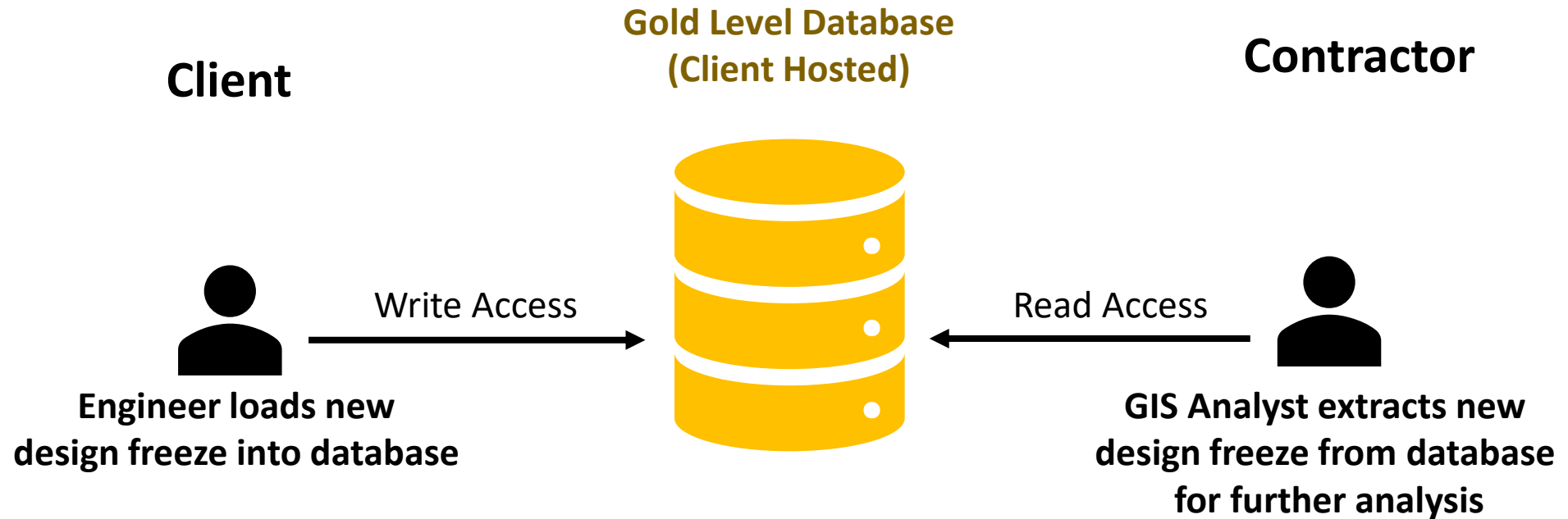


Importance of data consistency – Habitat Surveys



Applying the medallion architecture

Medallion Framework



Summary



EcoUplift is a digital tool used to automate Biodiversity Net Gain on large developments.



Client data informs post development habitats and improve baseline habitat accuracy.



Consistent and accurate client data reduces time spent rewriting analysis code and cleaning data.



The medallion data cleaning framework is valuable for iteratively improving data quality into a single source of truth database.



Questions at the end please

