ENVIRONMENT   **+**   **GENOTYPE**   **=**   **PHENOTYPE**
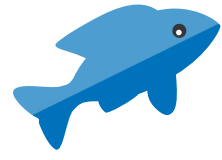
Barriers to linking phenotype and environ‐ment fall into two categories: challenges of **coverage** and of **interoperability**.

COVERAGE
The same subject; different scales.

COUNTRY ⟷ **TOWN** ⟷ **STREET**

> Although existing ontologies cover many of the scales of interest, gaps **prevent suffi‐cient detail**.

INTEROPERABILITY
The same data; different measures.

CHARACTER
[TraitBank]
⟷
BIOMES
[ENVO]

> Linking environments & phenotypes will require interoperability between **several data types**.

Adopting and using a set of standards will result in **better science**.

CONCLUSION