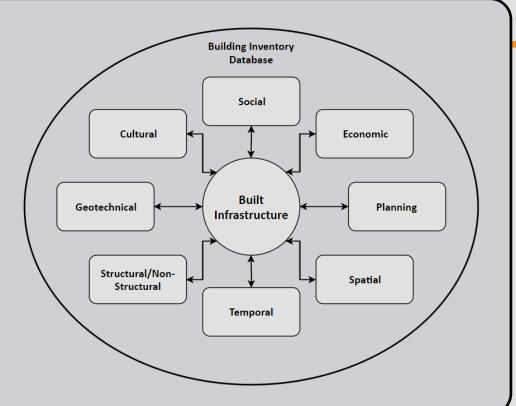
# Technology Platform 3: Multi-Disciplinary Community Datasets

Demonstrating Nationwide Scalability of a GIS Building Inventory for Seismic Risk Research, Planning, and Decision Making

#### **The Problem**

Multi-disciplinary datasets exist, but are not currently linked to a standardized format that can be used easily. Research, solutions and decision making could be better informed with integrated datasets, appropriate tools. If extended nationwide, this database could enable world-leading research across the country and aid communities become more resilient in the face of a seismic event.



#### **Key Thrust Areas**

- 1. Linking multi-disciplinary researcher and community knowledge
- 2. Integration of datasets into a new multi-disciplinary dataset initiative
- 3. Development of database tools for understanding links between data and facilitating database development, appropriate access, and usage

## **Objectives of TP3**

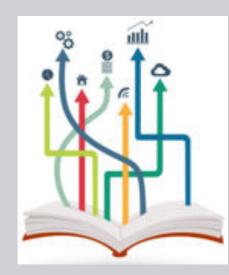
Collaborate with two/three councils to create:

- 1. A database for their council,
- 2. Earthquake research opportunities,
- 3. A process showing nationwide scalability

### **Core Components**

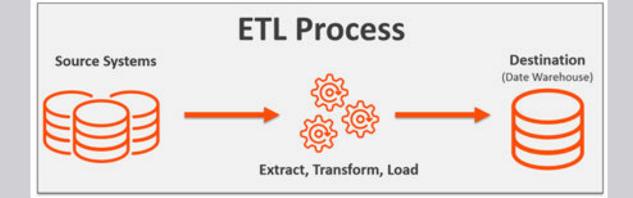


LINZ Building Footprints: will act as the anchoring layer for datasets to be linked to. Contains excellent metadata and allows for other spatial layers to be integrated and visualised



Metadata: for the datasets to be usable by different researchers and groups, appropriate metadata and documentation of the database will be produced throughout the project

**Data Processing:** will follow a process called ETL (EXTRACT, TRANSFORM, LOAD) which takes live feeds of datasets, transforms it, and loads to the GIS platform for users. Will allow for easier nationwide scaling



Collaboration: in order to produce datasets that are useful for both researchers and councils, effective colloboration is required between council staff and TP3. This will involve an AGILE approach where input is valued from both sides and the database is produced iteratively

