

# 3 - Transformation Logic (What changes per record)

## Transform Each Feature (Renames + Derived Fields + CRS Conversion)

### For each feature in each file:

1. **Load & parse** GeoJSON FeatureCollection
2. **Rename fields** using schemaMapper.xlsx
3. **Add derived fields:**
  - **Geometry\_Type** = copied from geometry.type
    - examples: Point, Polygon
  - **Geometry\_Status** = derived from date comparison
    - New if Created\_Date == Last\_Edited\_date
    - Updated if different
    - Unknown if missing
  - **puid** = created from blockid (observed in blocks output)
4. **CRS conversion:** EPSG:2193 (NZTM) → CRS84/WGS84 (lat/long degrees)
5. **Write transformed GeoJSON output** (validation checkpoint)