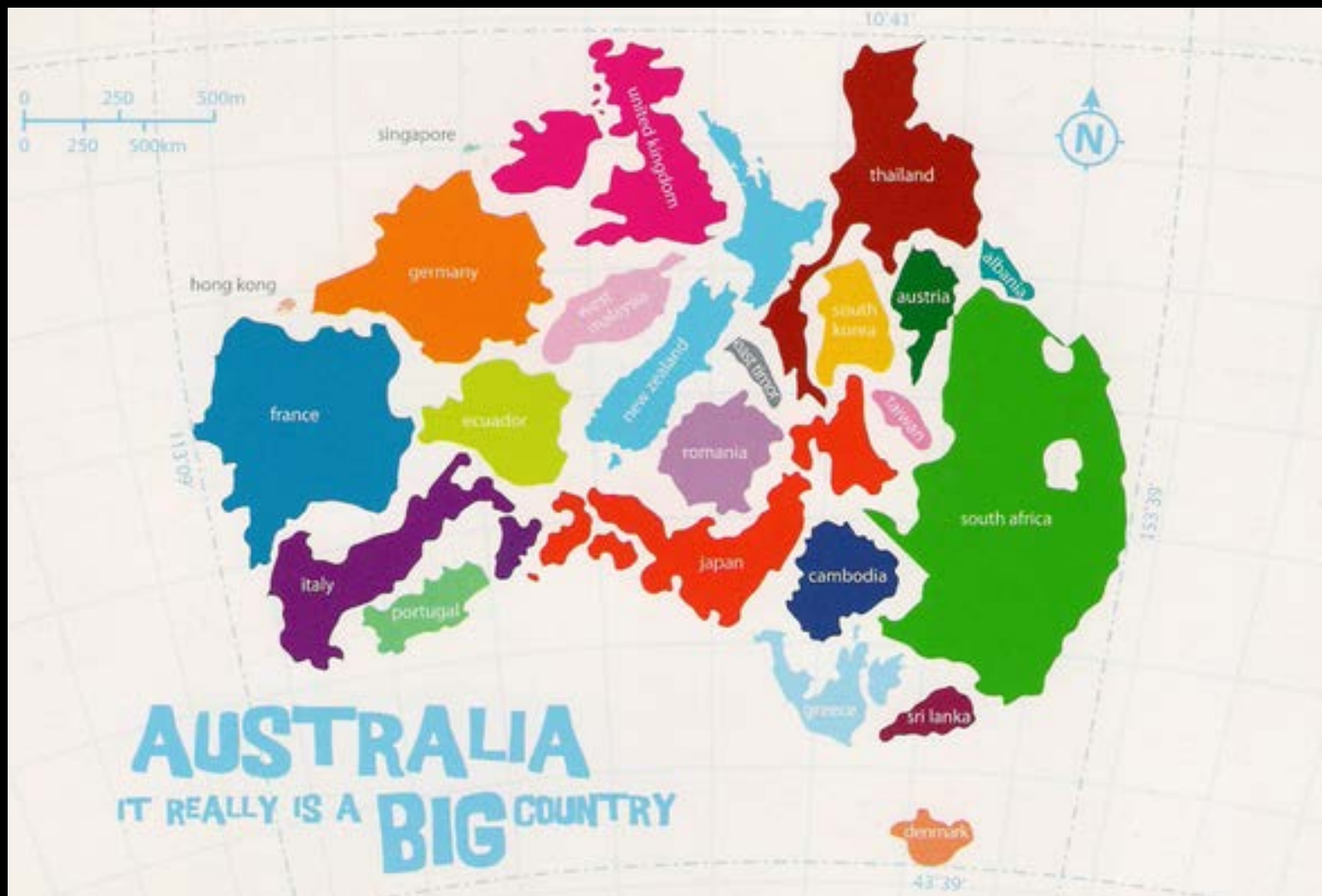
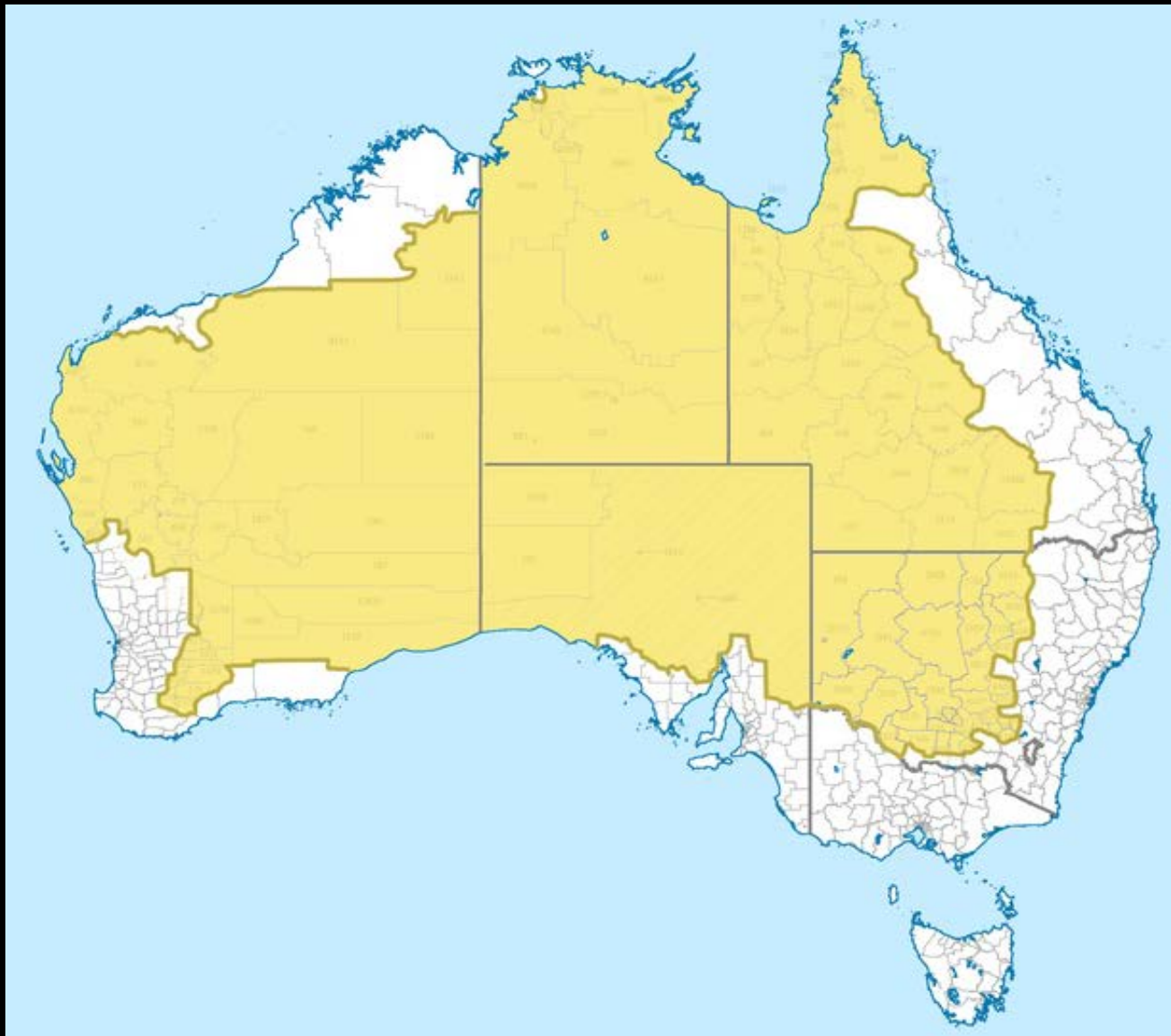
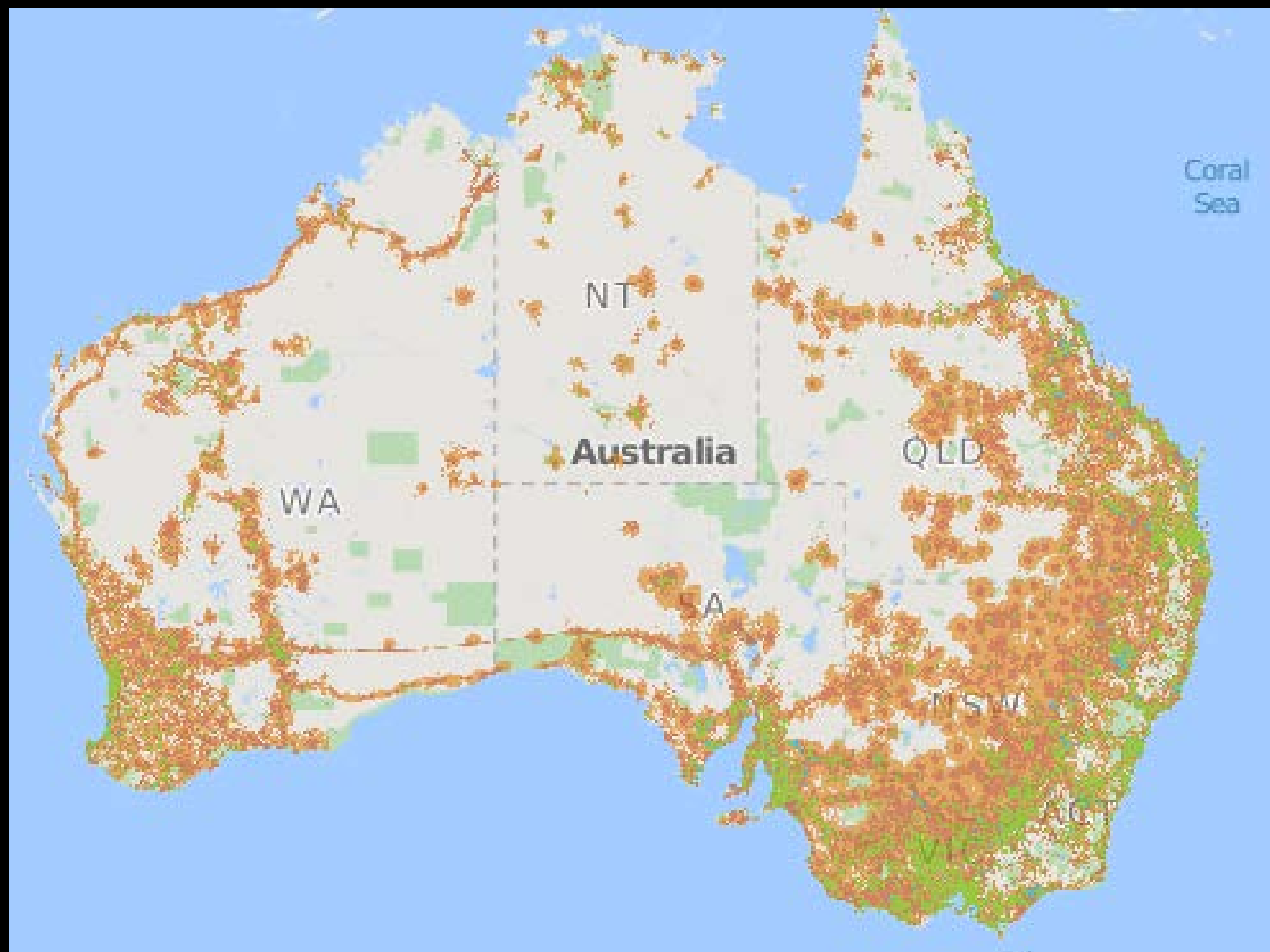


Ambiguity Resolved PPP – A Case Study in NSW

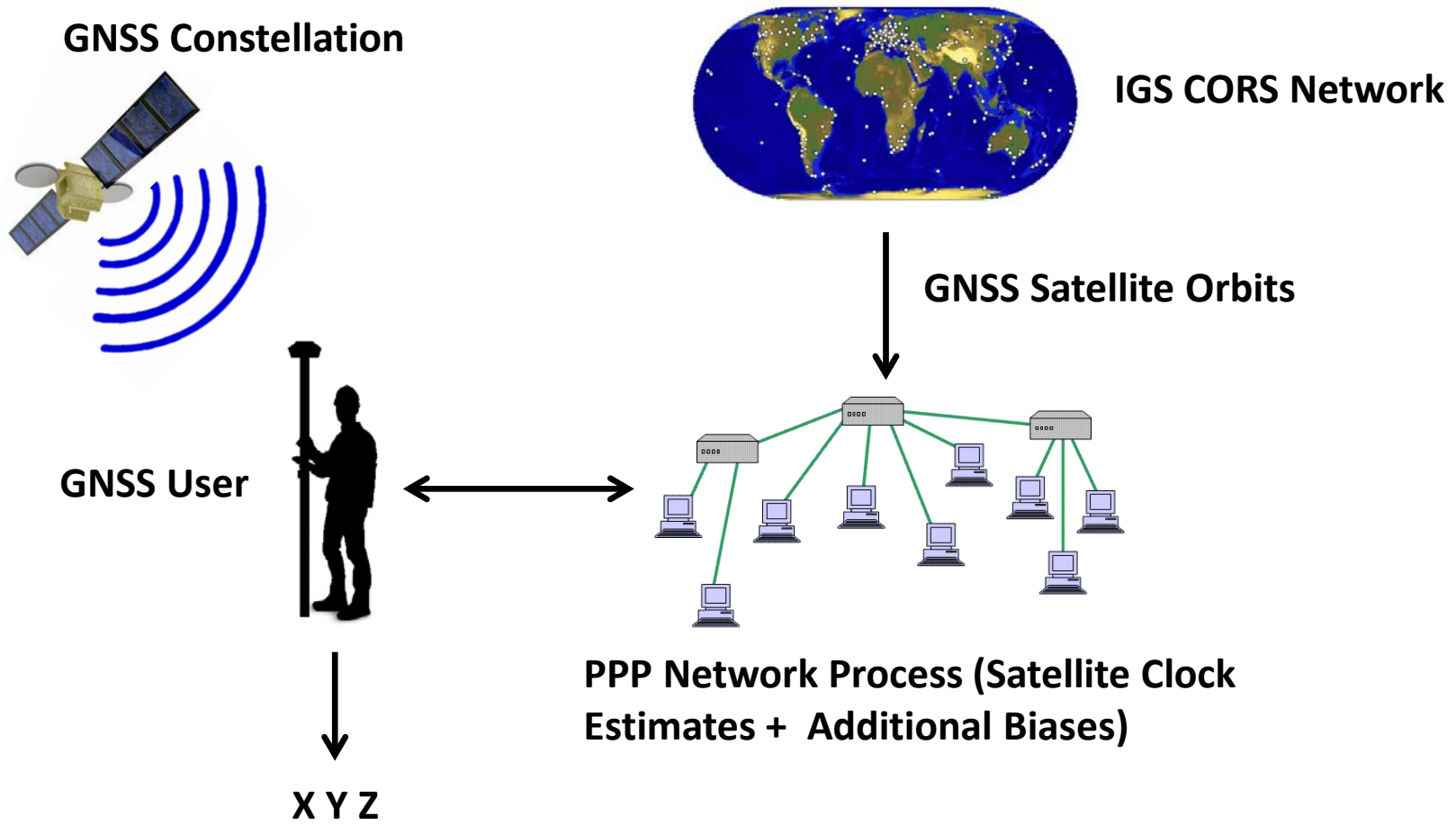
Thomas Grinter, Volker Janssen, Craig Roberts



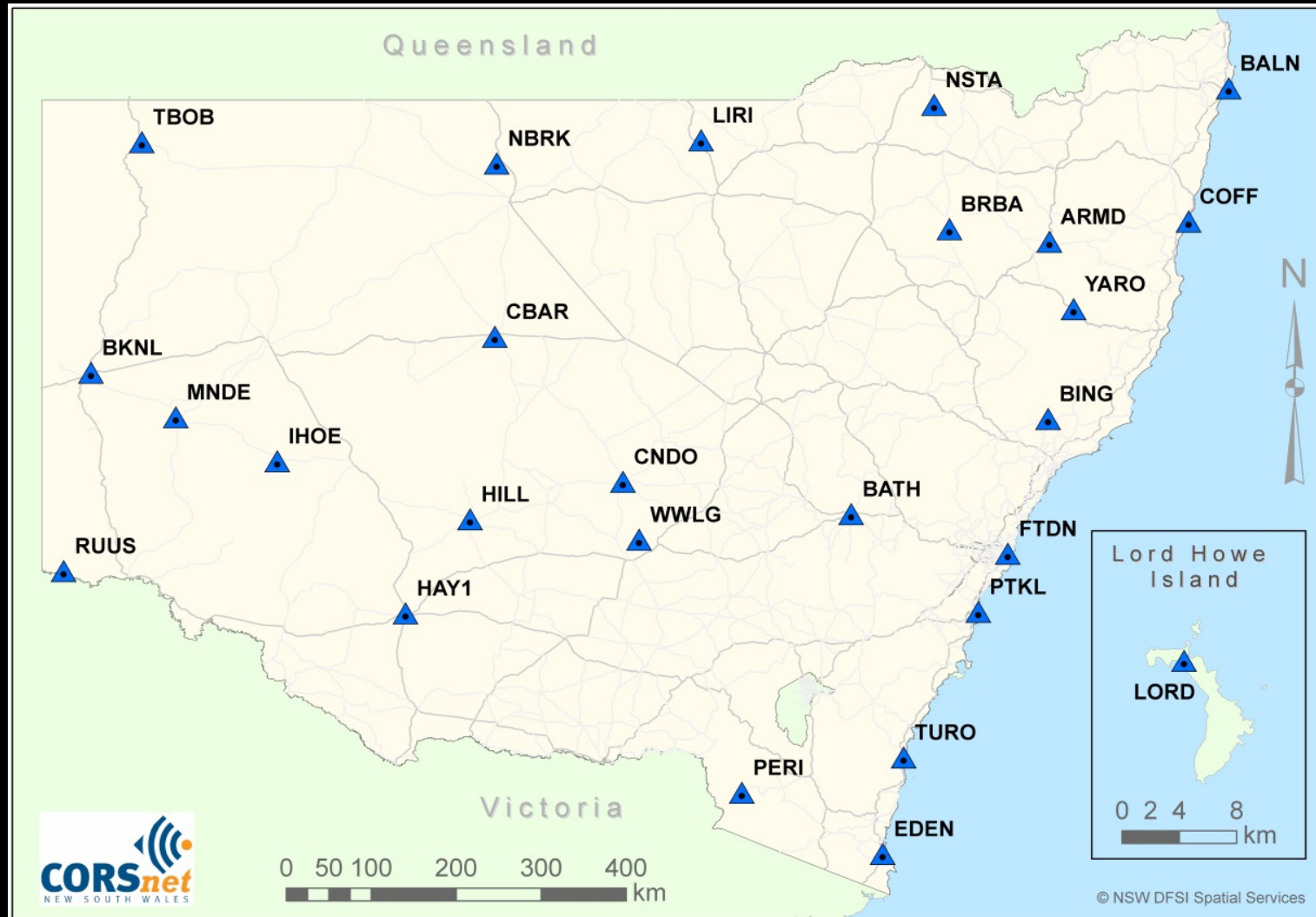




How it works



Test Area

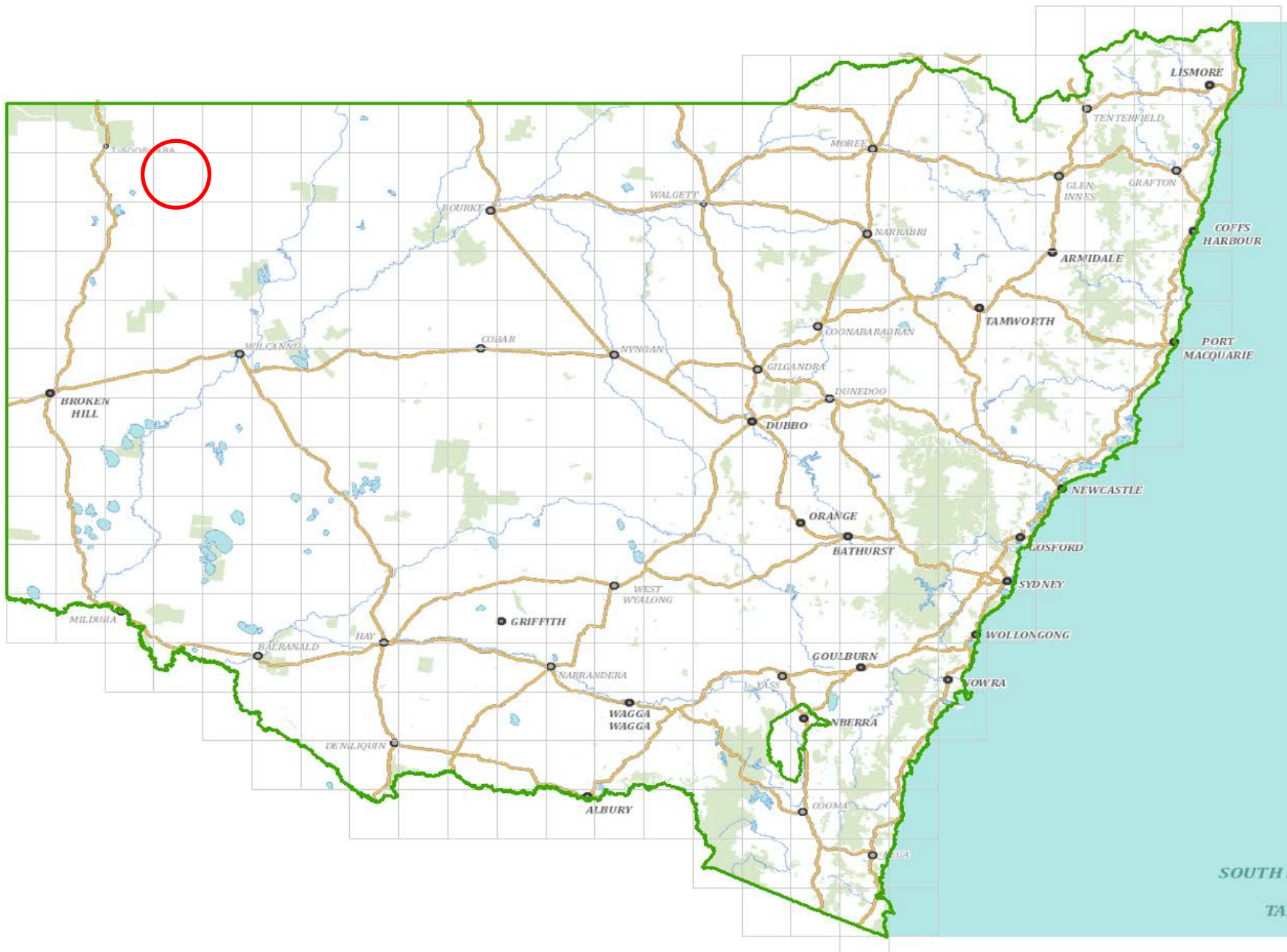


Solution

- Modified RTKLIB software (K Harima)
- GPS only
- Ambiguity Resolved - PPP
- Simulated Real-Time
- CLK91 corrections
- Broadcast + SSR APC
- P1C1DCB
- IGS08 ATX

Results

| Average | Easting | Northing | Up |
|-------------------------|----------------|-----------------|-----------|
| RMS (m) | 0.018 | 0.026 | 0.063 |
| Max | 0.049 | 0.041 | 0.181 |
| Min | 0.005 | 0.003 | 0.006 |
| CT (minutes) | 54 | 46 | 50 |



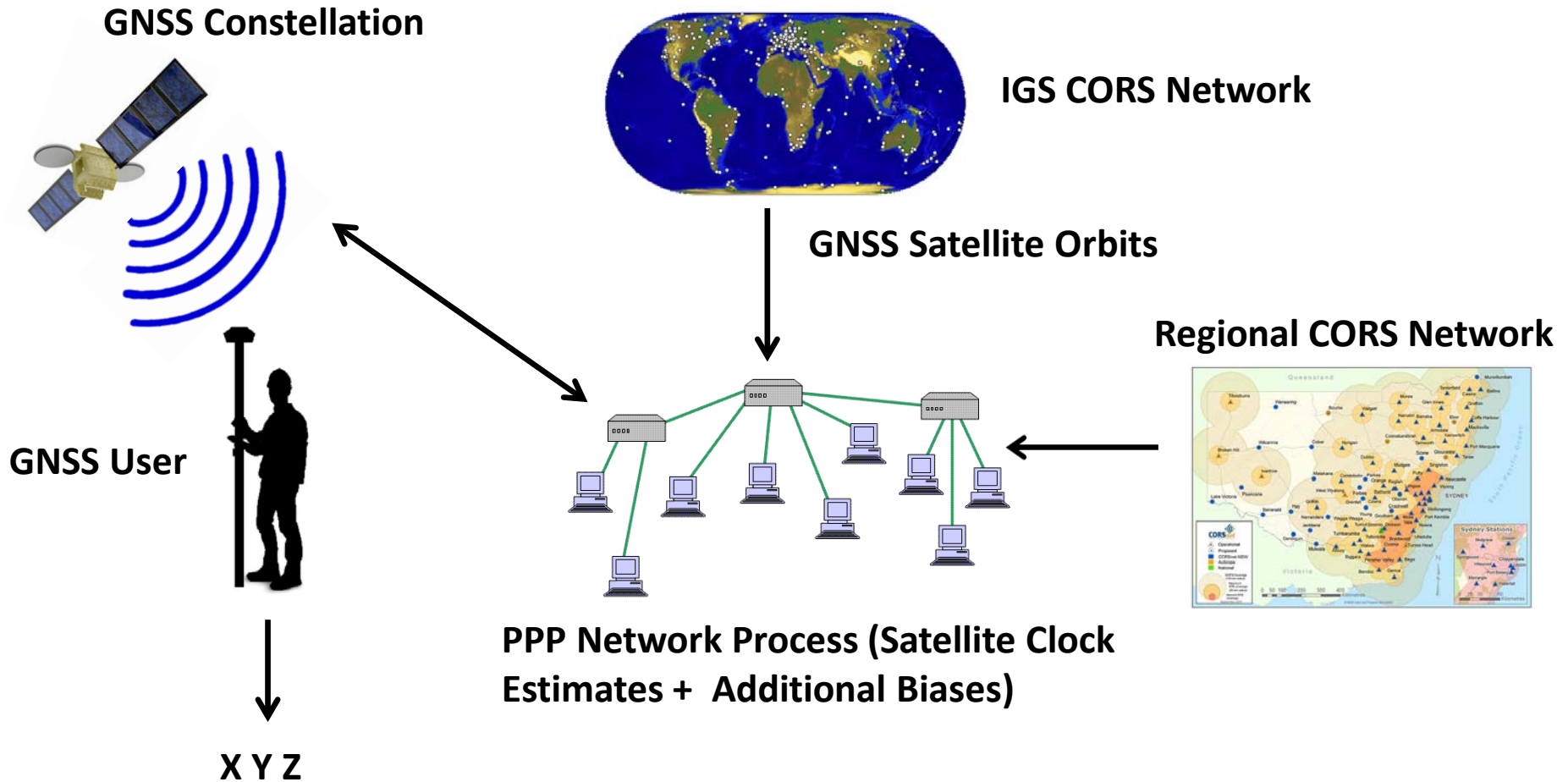
Results

Criteria $H < 50\text{mm}$ $V < 100\text{mm}$

| Convergence Times | < 15 min | < 30 min | < 60 min | <2hrs |
|-------------------|----------|----------|----------|-----------|
| Number of Epochs | 2% (3) | 10% (16) | 55% (86) | 75% (117) |

92% of Epochs had 75% of ambiguities resolved.

How it could work



Questions

