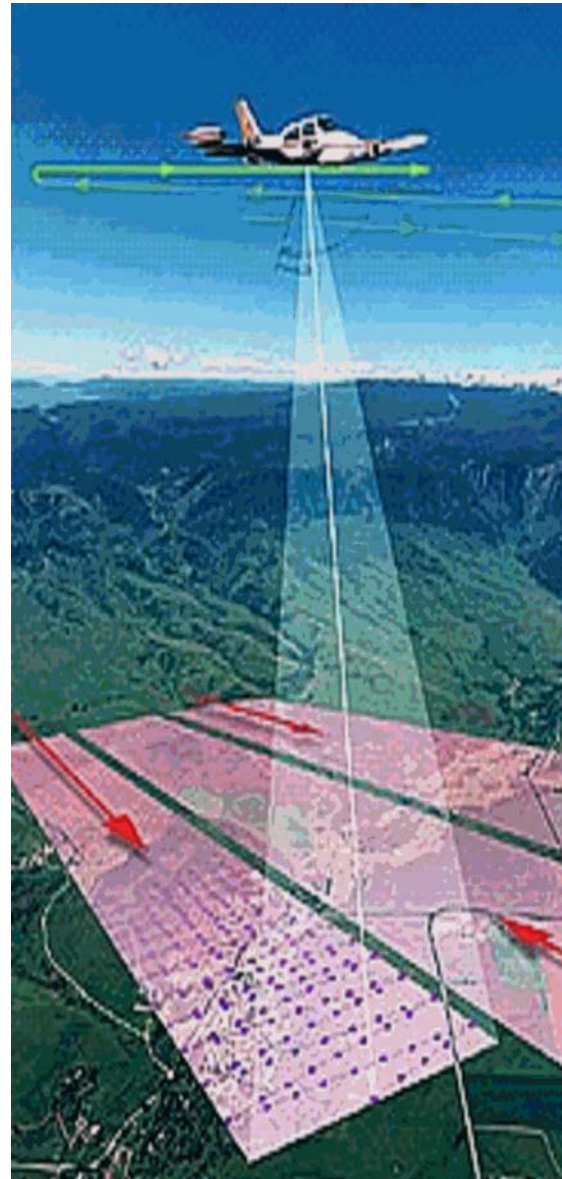


GWRC LIDAR

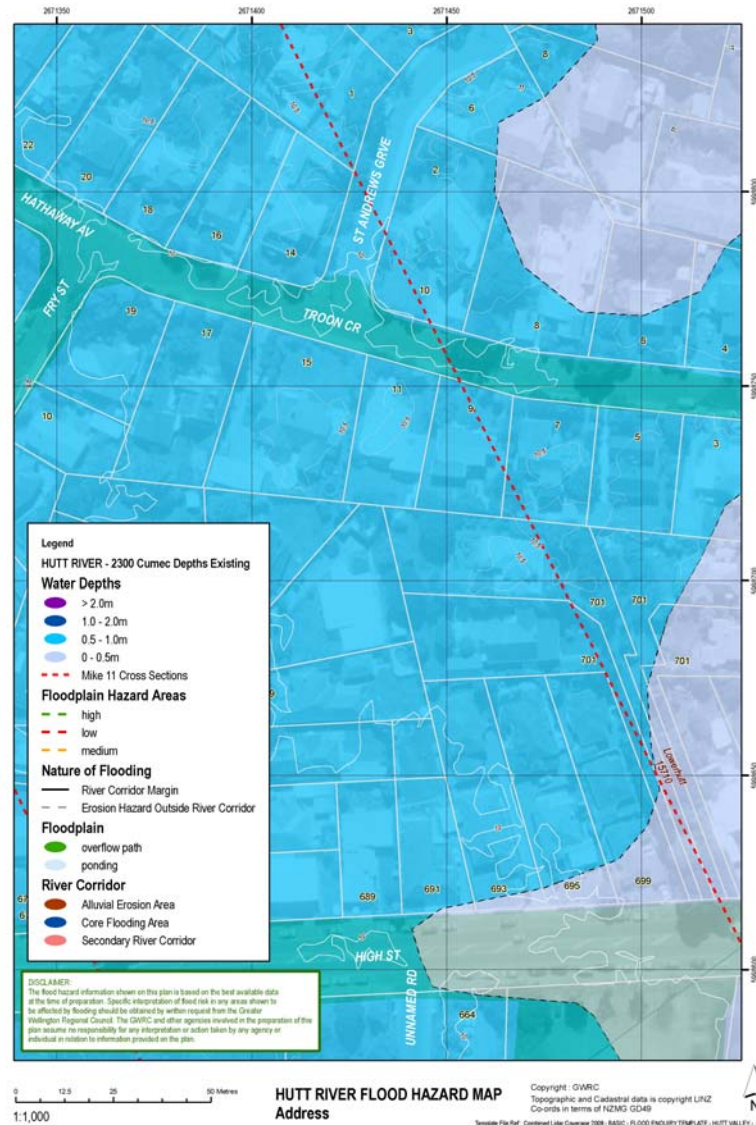


Key Uses 1 – Flood Protection

- Teams in both Wellington and Wairarapa offices using spot height and contour datasets to typically 0.5m interval for:
 - 2D data processing using a combination of Mike11, Mike21 & ArcGIS flood modelling applications
 - Hazard maps for TA's using Mike11 / Mike21 exports
 - Flood enquiry maps for general public using detailed elevation data

Flood Enquiry Map Service

- ArcMap template
- LIDAR spot heights
- LIDAR 0.5m contours
- Flood hazard areas



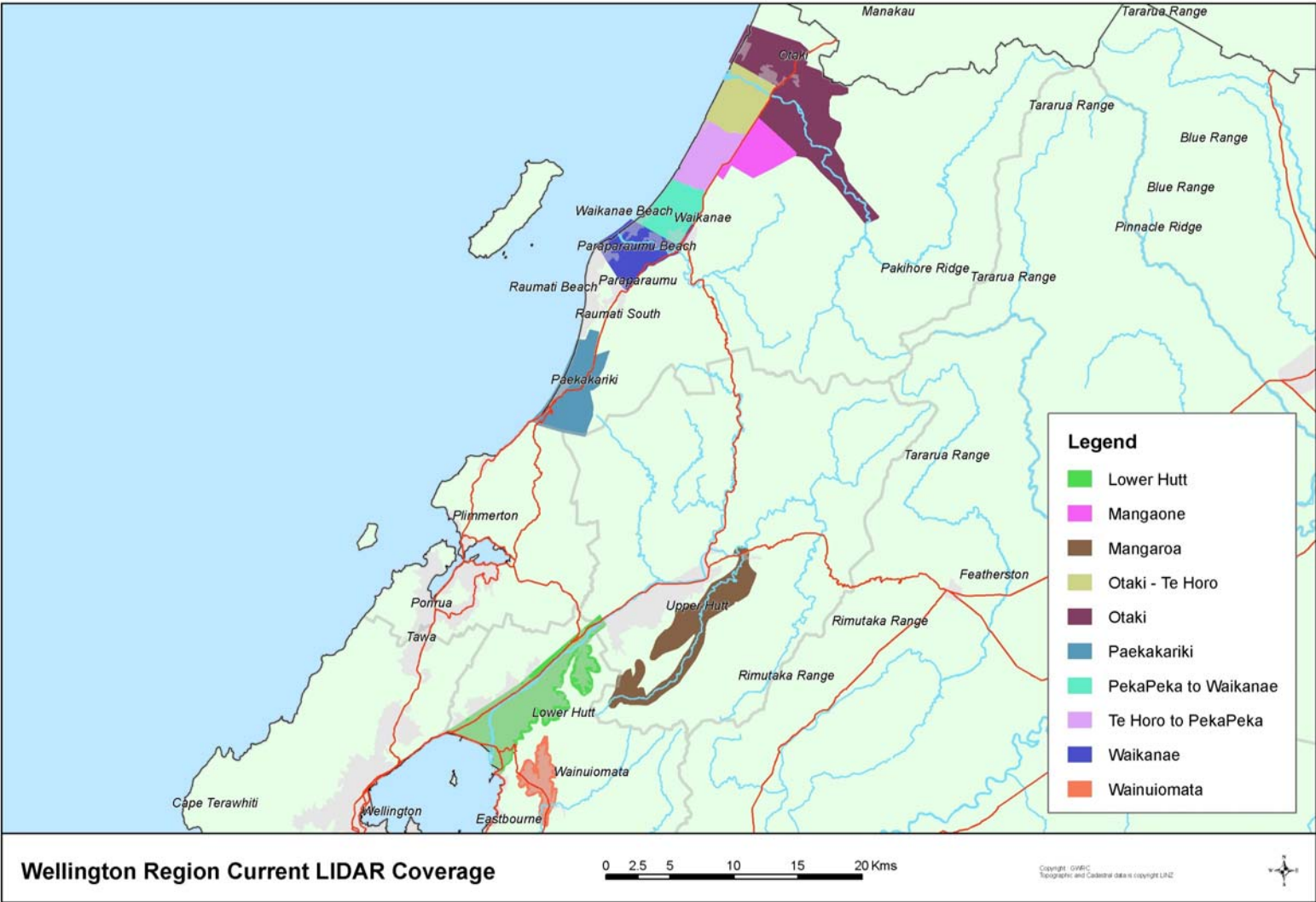
Key Uses 2 - Environmental Studies

- Detailed contour datasets loaded to central GIS database
- Includes additional datasets acquired from other TA's
- Available to extract and process for variety of project work
 - landscape assessment
 - hazard mapping
 - relief modelling

Current Coverage - Wellington Region

- 10 areas from Otaki to Wainuiomata – 25,870 ha total
- Acquired between 2003-2005 via AAMHatch
- GWRC owned – Lower Hutt, Wainuiomata, Mangaroa, Peka Peka-Waikanae, Te Horo-Peka Peka
- KCDC owned – Otaki, Mangaone, Paekakariki, Waikanae
- Victoria University owned – Otaki-Te Horo

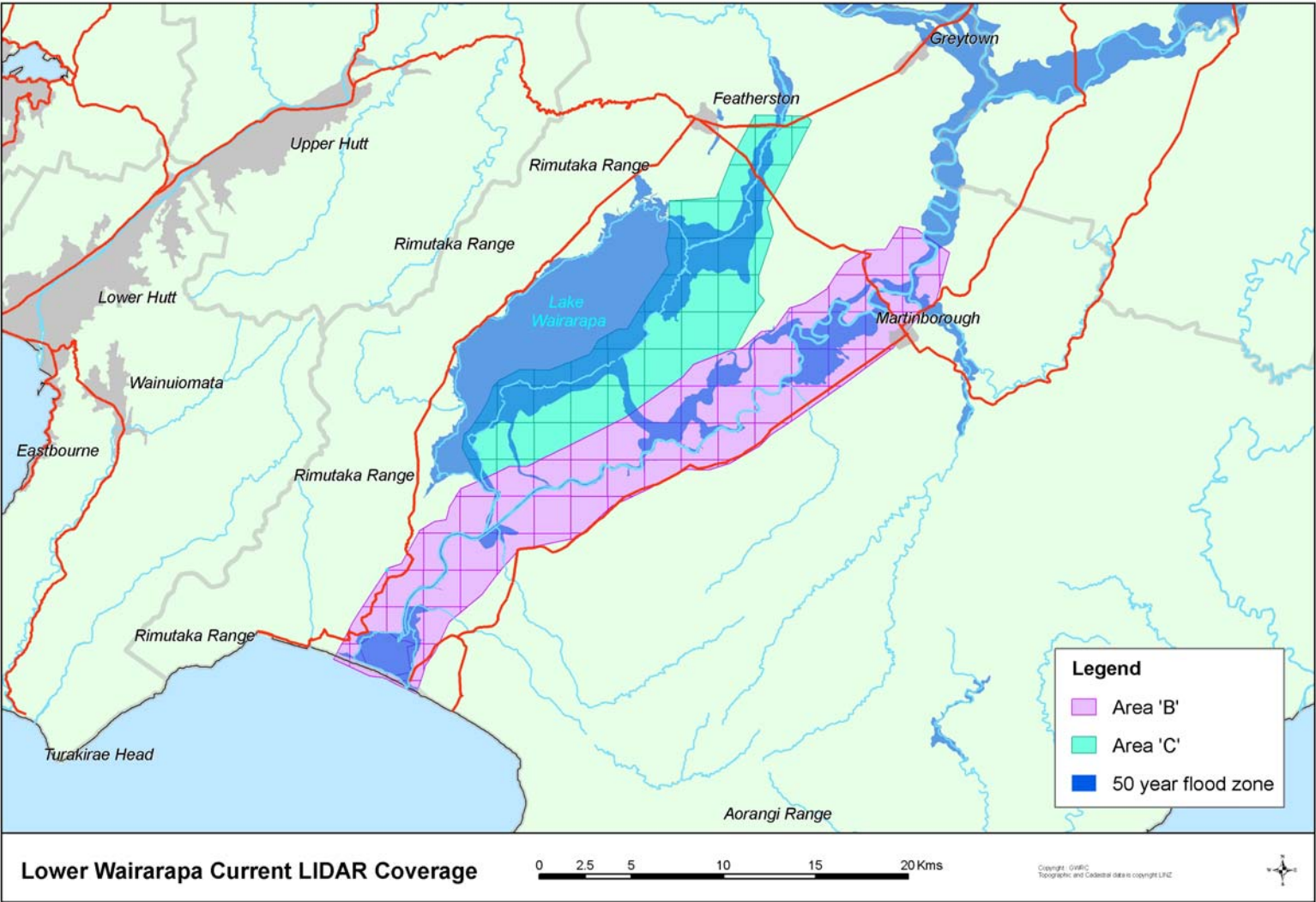
Current Coverage Map - Wellington Region



Current Coverage - Wairarapa Region

- 2 Lower Valley areas – 29,205 ha total
- Lake Wairarapa and Lower Ruamahanga River
- Acquired between 2003-2004 via AAM Hatch
- Priority to cover mapped '50 year flood zone' areas
- Detailed elevation – 1m contours – generated in house

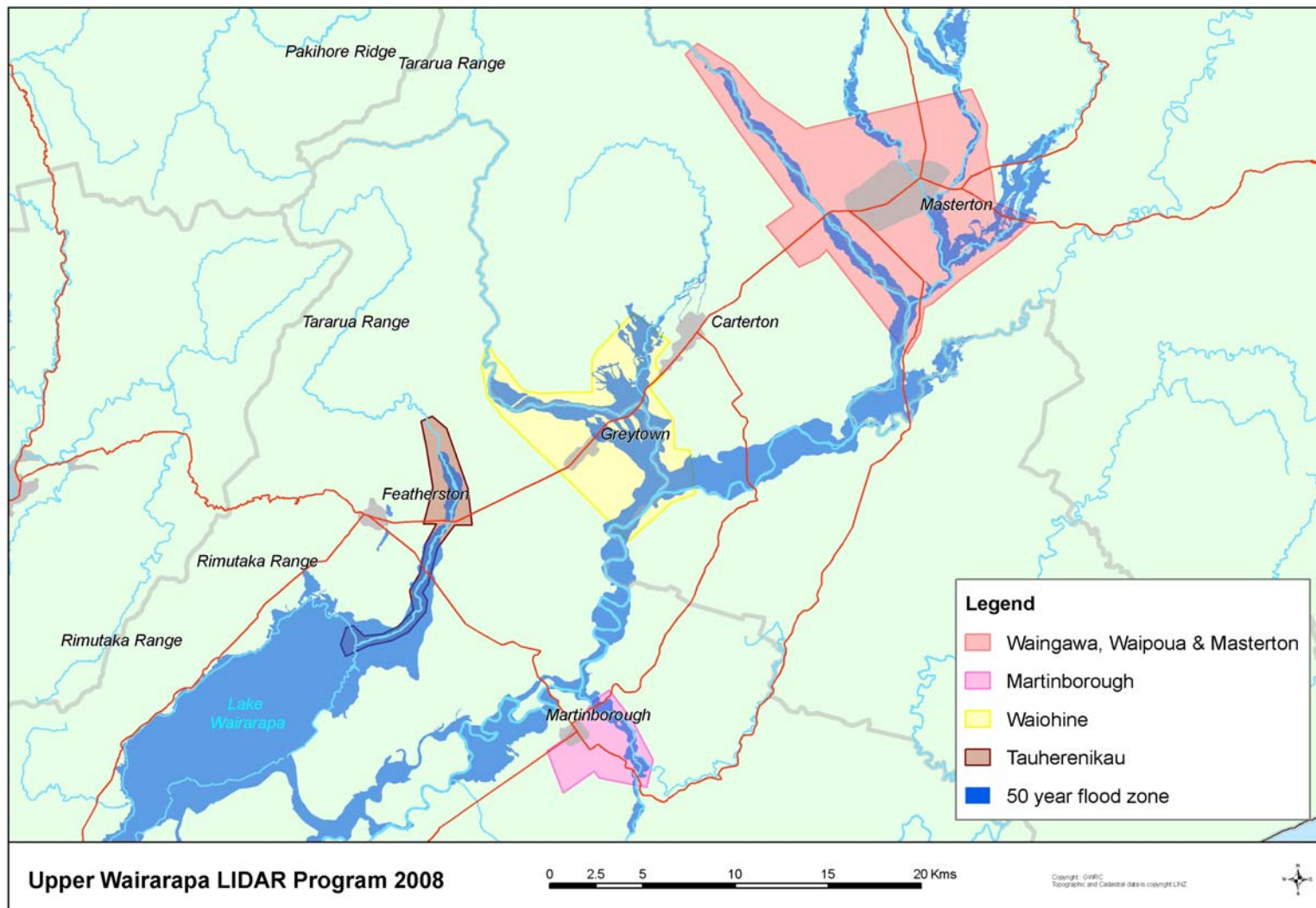
Current Coverage Map - Wairarapa Region



Future Coverage - Wairarapa Region

- Masterton area - joint venture with Masterton DC
- Waiohine River area - joint venture with Carterton DC
- Tauherenikau River area - GWRC
- Martinborough area - joint venture with SWDC
- Commences June 2008 with NZAM as new contractor - 23,390 ha total

2008 Program - Upper Wairarapa



Summary

- LIDAR derived information is an essential data source for regional flood protection management and mapping
- Majority of major river systems have coverage via a range of joint venture projects
- 2008 program in Wairarapa will leave approximately 13,000 ha of flood plain area still to be surveyed
- Reliance on TA data sharing for further data acquisition
- Upcoming GW flood modelling project work in PCC area