



Electric Trains & Wiri Depot

Board Update

August 2012

Introduction

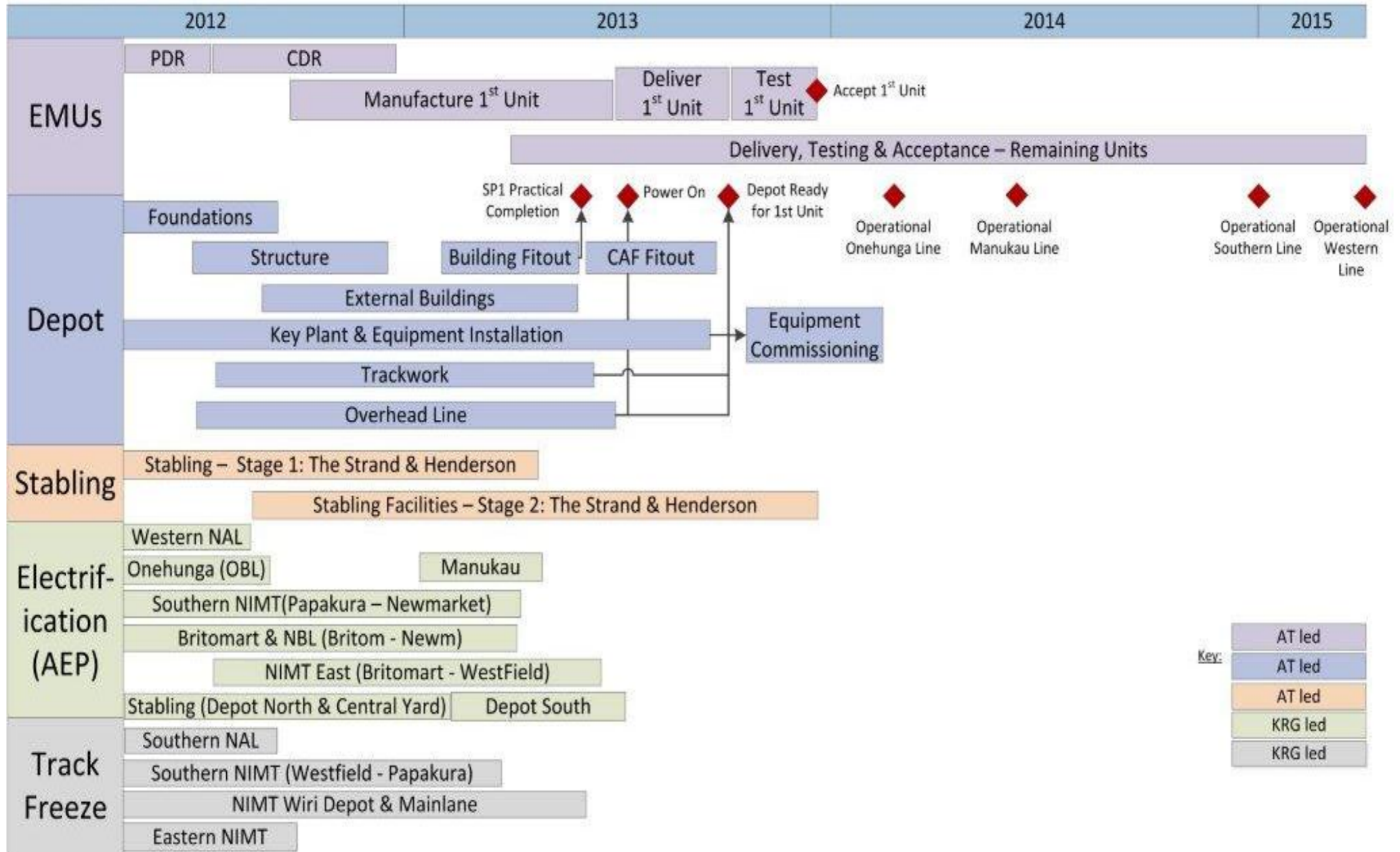
Timeline - Electrification

Wiri Depot Update

Electric Trains Update

Project Look Ahead

Timeline



Wiri Depot



Earthworks for the stabling area and the main line connections are progressing well

Bad weather has slowed progress a little but not of significance overall

Wiri Depot

Construction of the pits for the wheel lathe and underfloor lifts has commenced



Wiri Depot



6 kms of track delivered

Key Plant being integrated:

- Train Wash
- Depot Protection System
- Wheel Lathe
- Lifting jacks
- Turntable



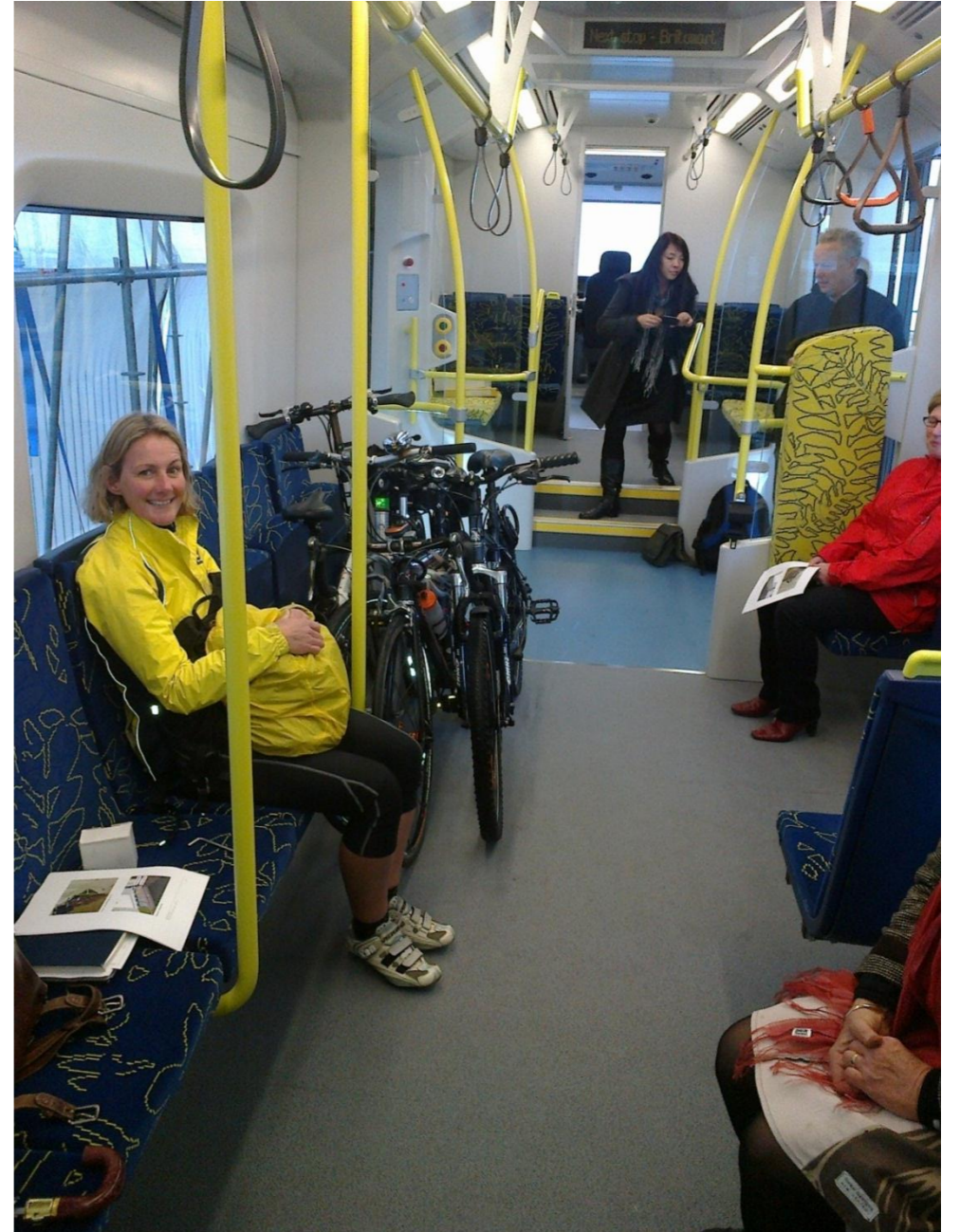
Electric Trains



- Project is on programme and within budget
- The design of the vehicles is now completed in most areas
- Production of the first bogie and bodyshell parts are underway
- All systems, e.g. brakes, propulsion, air conditioning ordered
- Focus for the next three months is on:
 - Ensuring a high quality of manufacture through inspection, audit and significant presence in Spain
 - Completing the final areas of design, principally the detail of the control system functions
 - Agreeing the test and inspection specifications

Mock Up 3 - Testing

- Extensive testing was carried out with stakeholders & user groups
- Driver testing and feedback sessions
- AT, AC, Veolia & KRG Staff Open Days



Mock Up 3 - Accessibility Groups

Disability group sessions with:

- TAAG
- Barrier Free
- RNZFB

Generated valuable feedback and made a significant contribution to the final design solution



Mock Up 3 - Changes

Cab Design

- Raised the drivers seat
- Moved the driver console closer to seat
- Enlarged the knee space
- Regrouped some of the controls
- Lengthened the external handrails



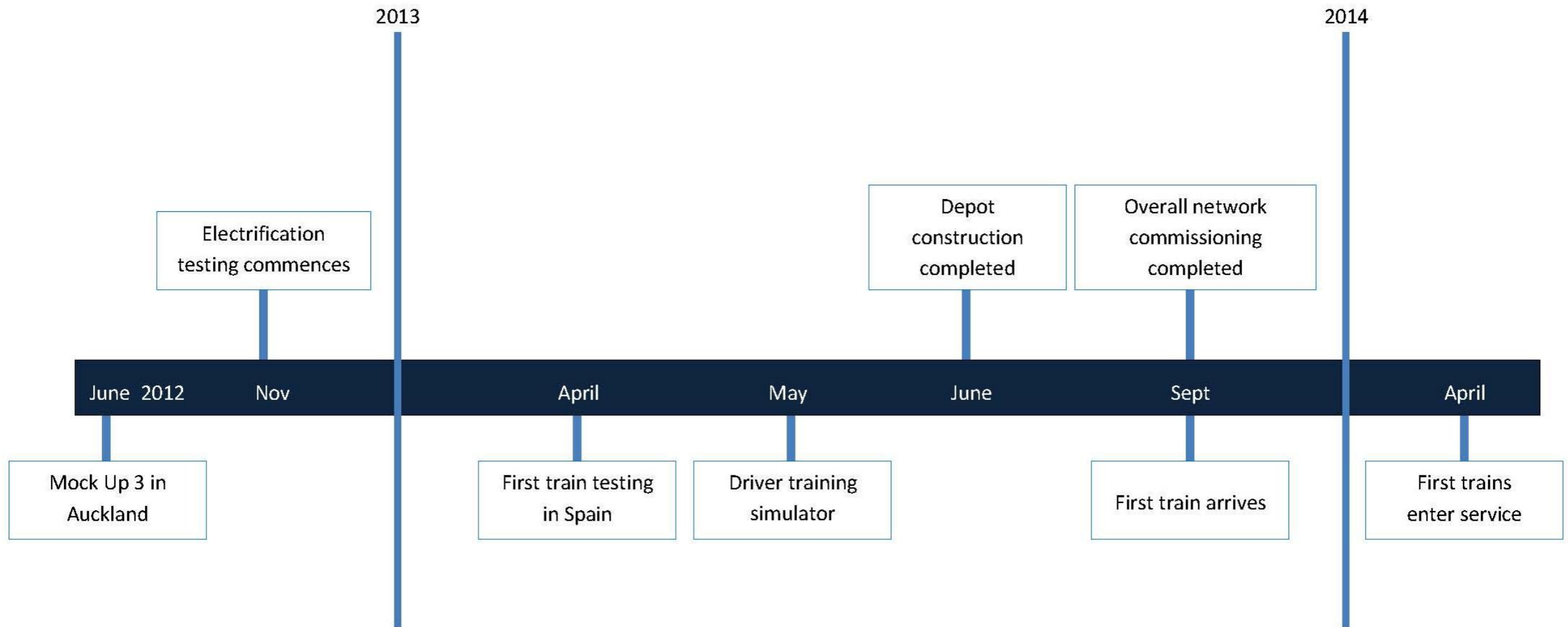
Mock Up 3 - Changes



Saloon Design

- Reduced size of draughtscreen to improve passenger flow towards and away from the vestibule
- Change seat orientation in low floor area
- Raised handrails
- Selected a preferred strap hanger
- Improved seat comfort
- Improved cycle storage

Project Look Ahead



Note: Indicative Timeline