

Keeping the energy flowing

challenges and opportunities

TRANSPower

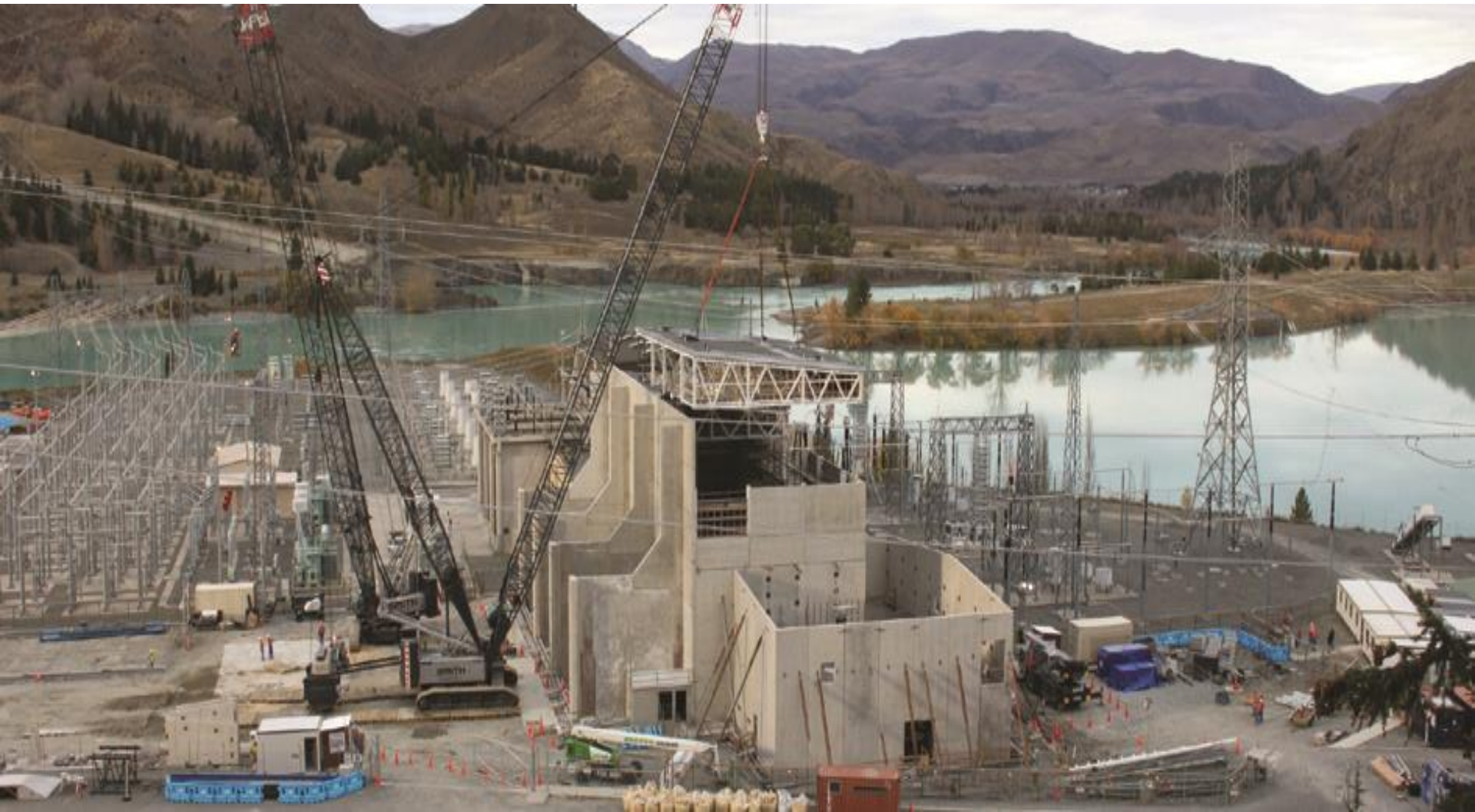




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Why Demand Response

- Customer value – reduction in costs
- Getting more out of our existing infrastructure
- Improved markets – demand has more say
- Reliability



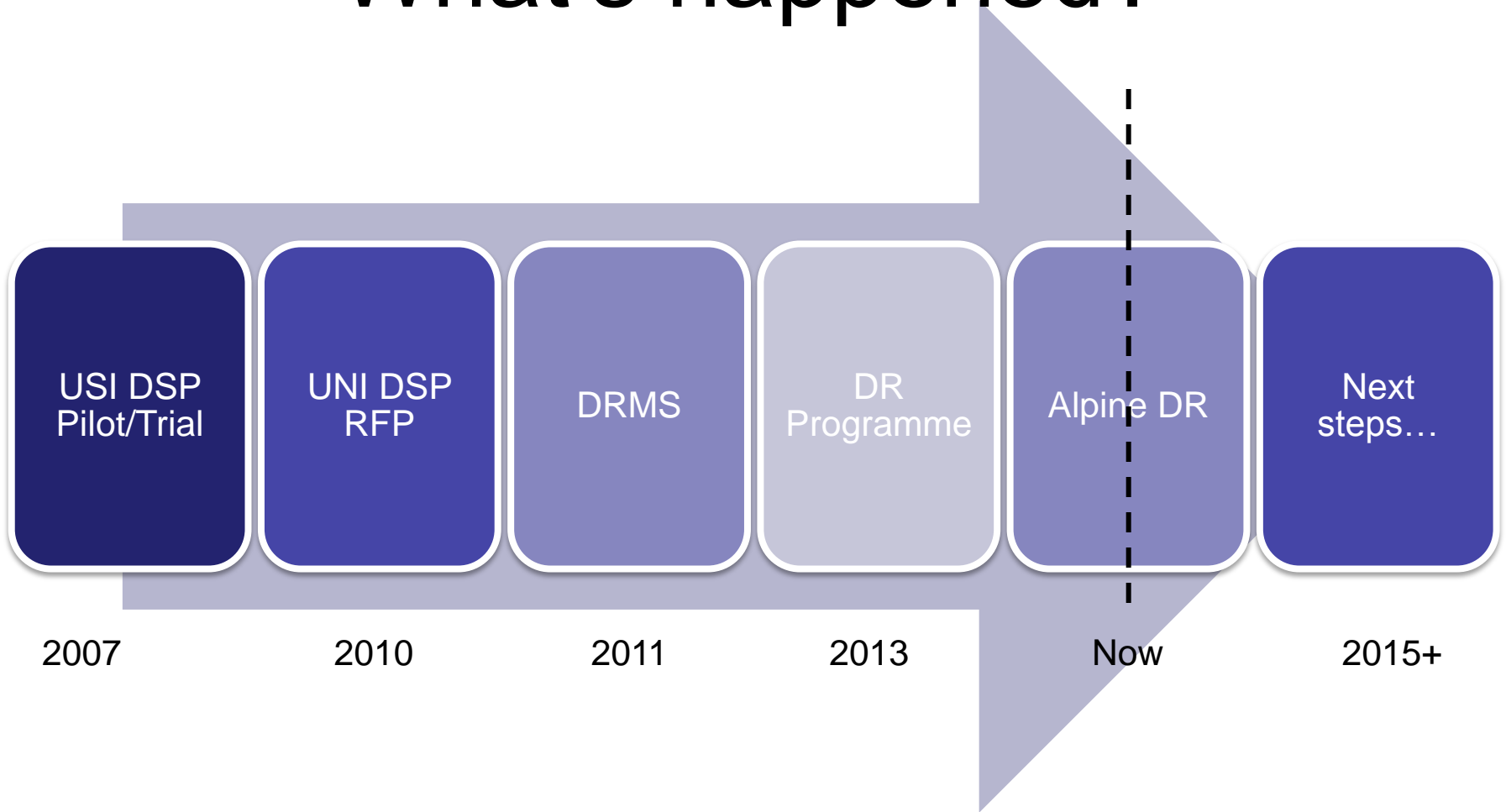


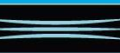
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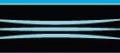
What's happened?





Market Programme

- Confirm operation of DRMS including:
 - 100 MW
 - Coordination
 - Interaction with other demand side regimes
- Natural price points
- Next steps



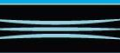
Market Programme

- Services sought
 - 100MW of DR
 - Bilateral agreement
- Security & Price Responsive Security Products
- Running from July to December 2013
- Fixed Budget



What did we get?

- Security
 - c.60MW
 - 6 events
- Price Responsive programme
 - c.100MW
 - 18 events



What did we get?

Average DR event - 38 MW

Largest DR event- 175.72 MW

Average Call length - 2 hours

MW delivered vs dispatched: 135%

Net consumption reduction (MWh): 1583MWh



What did we get?

Average Event Cost - \$27,500

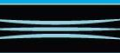
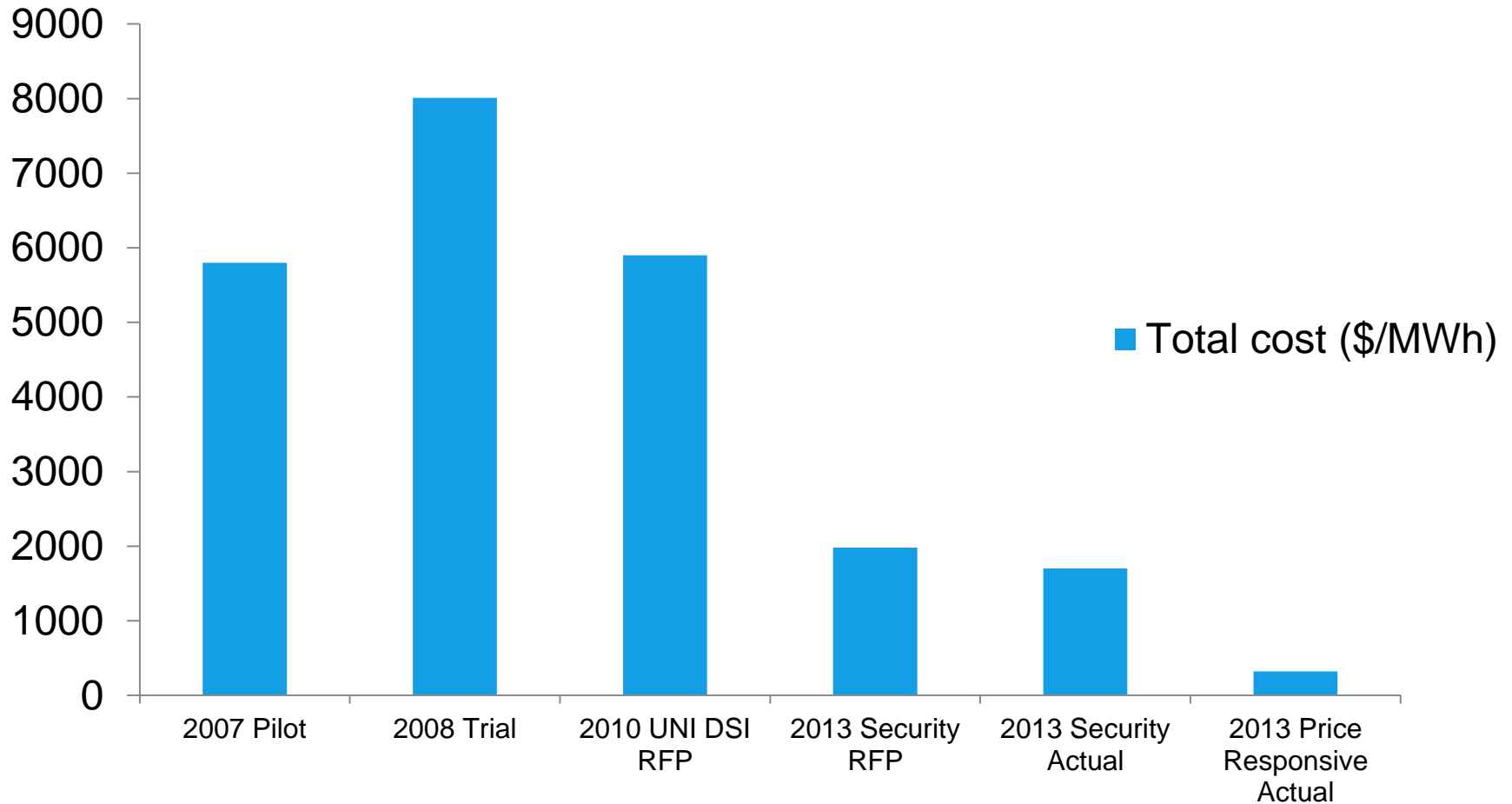
Total spent for all DR Calls - \$550,000

Total Availability Fees: \$195,000

Average price: \$470/MWh



What did we get?





Next demand response steps in New Zealand



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About 4,050,000 results (0.39 seconds)



Where to next?

10% of peak load

- new DR capacity

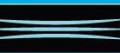
DR as a transmission alternative

- small-medium commercial and industrial segments
 - 20-200 kW

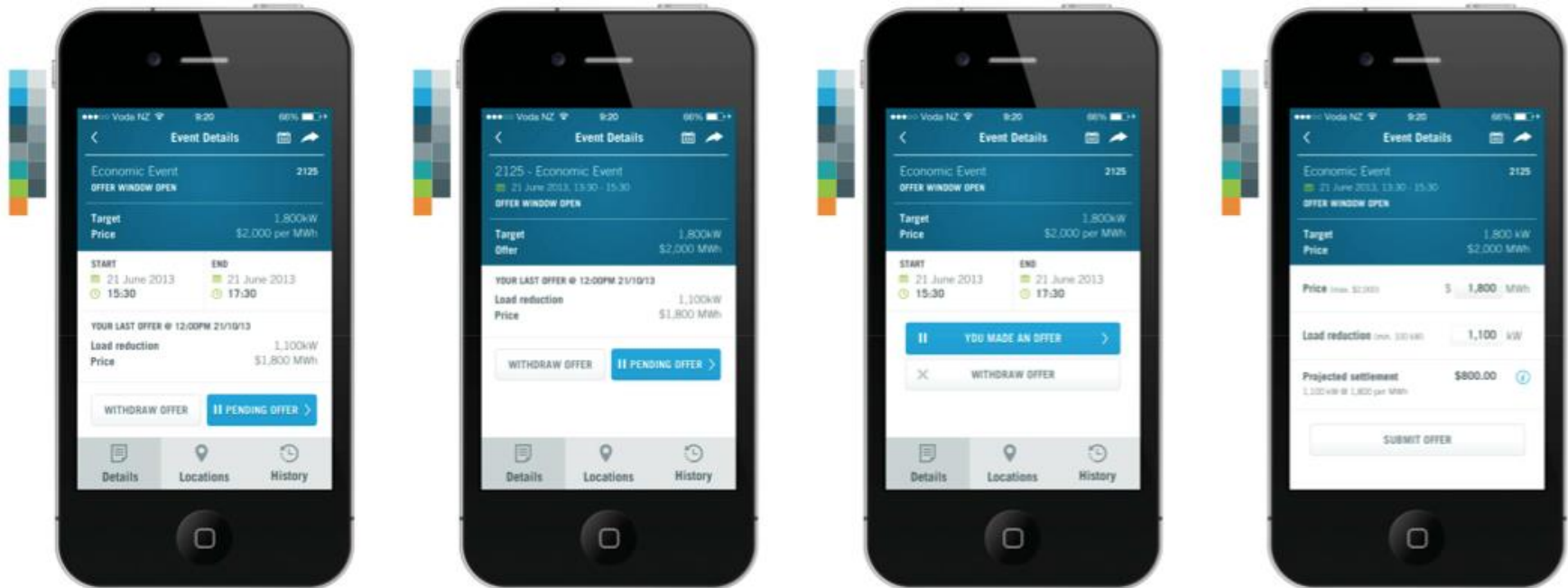
Market entry barriers

- usability improvements to the DRMS
- accessibility to DR contracts and tendering

‘Walk the talk blueprint’



Where to next?



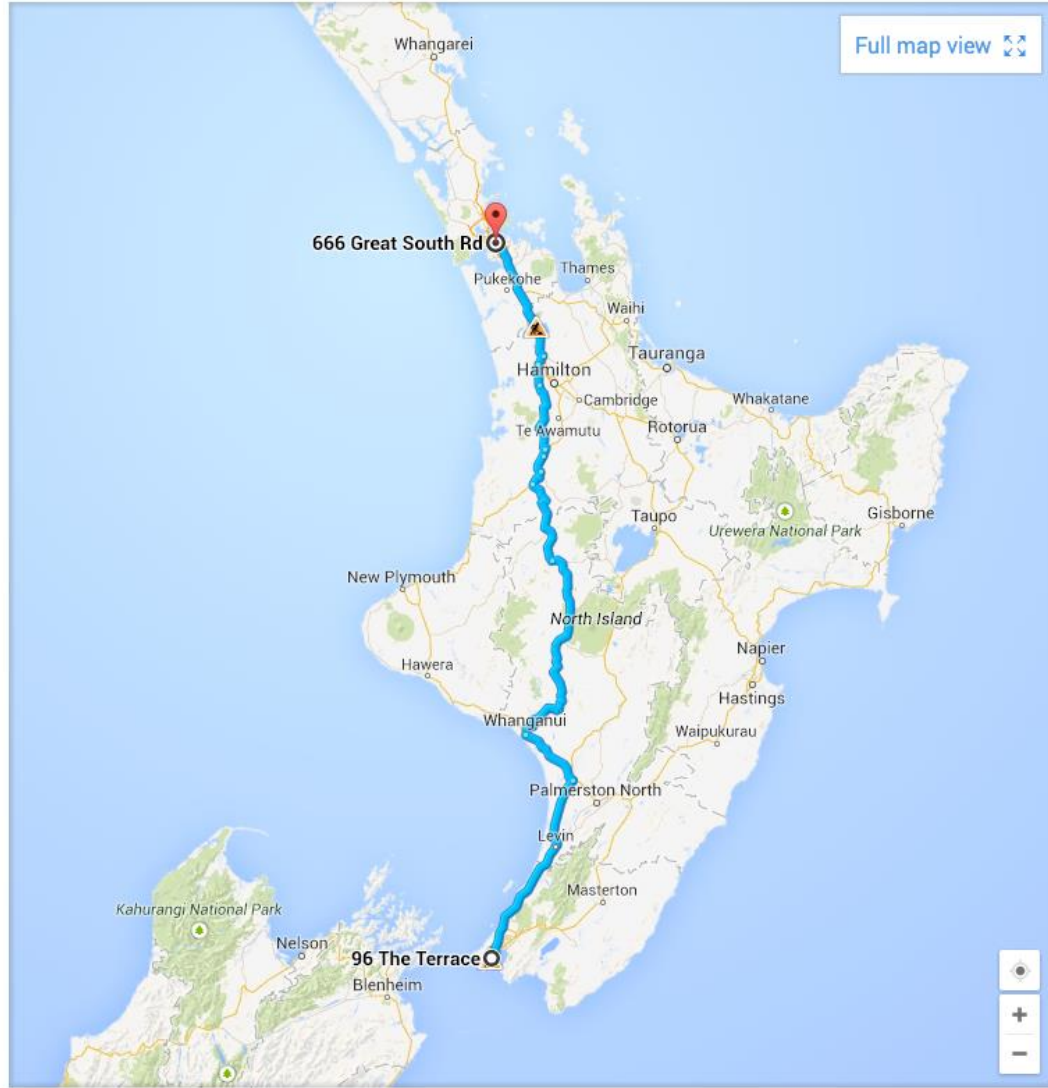
Drive 627 km, 7 h 33 min

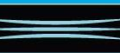
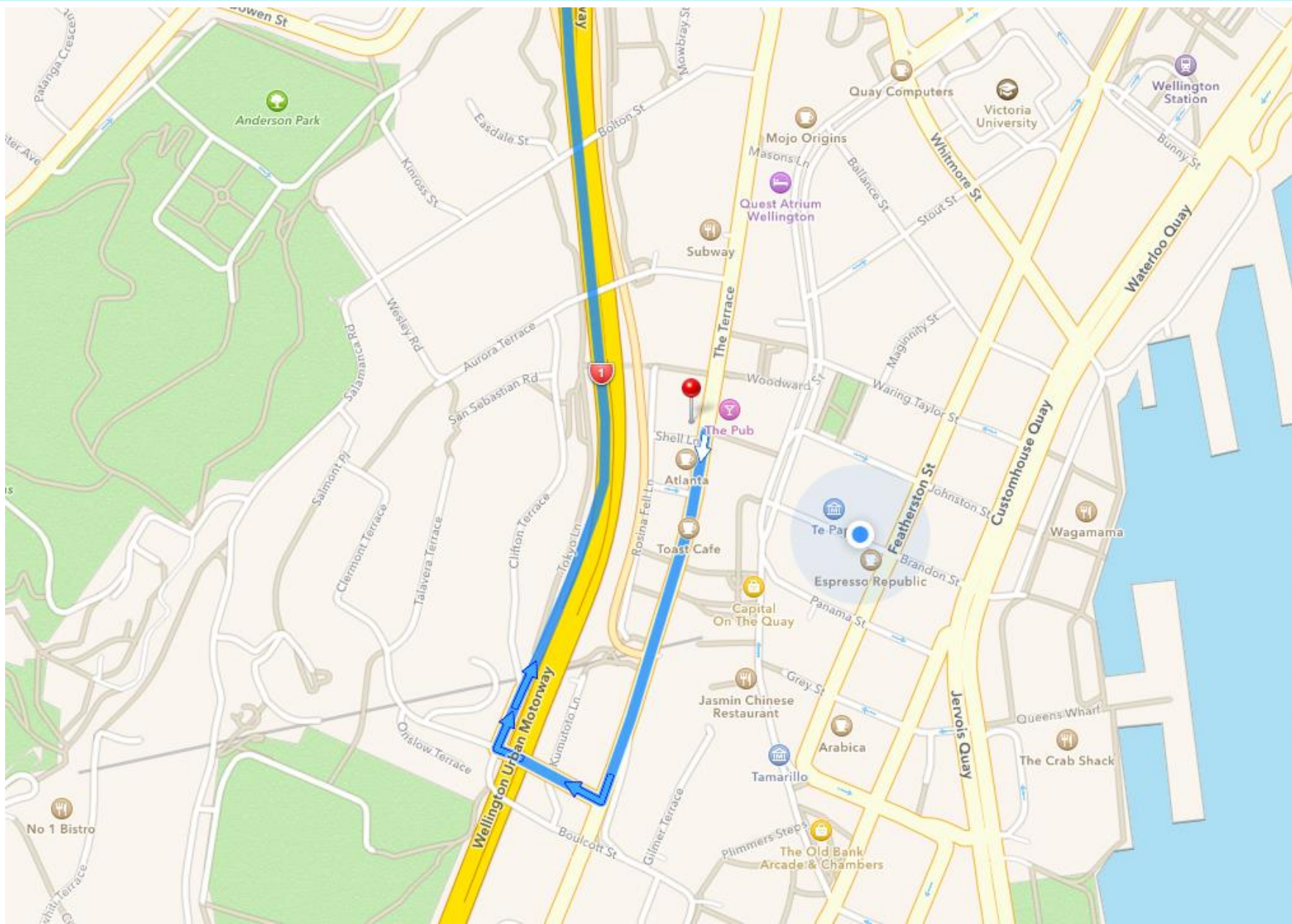
96 The Terrace

Wellington, 6011

- ⌵ **Engage consumers**, channels, support, marketing
 750 m / 1 min
- ⌵ Develop **commercial**, how will consumers be paid, what price points, establishment costs
 456 km / 5 h 30 min
- ⌵ Make **legal** simple, posted T&Cs
 70.5 km / 52 min
- ⌵ Design **programmes** to suit needs and consumers, price responsive, security
 99.1 km / 1 h 7 min
- ⌶ Enhance **usability** of the **DRMS**, mobile application, all features available, simple registration.
 700 m / 2 min
- ⚙️ **Meter data access**, simplify process for measurement and verification
 270 m
- 📍 Develop **channel partners**
 230 m
- 🚀 **Launch** programme for consumer segment
 78 m
- 📅 **Plan** next steps
 100 m
- 🔄 **Repeat** process based on lessons learned

📍 Destination will be on the right



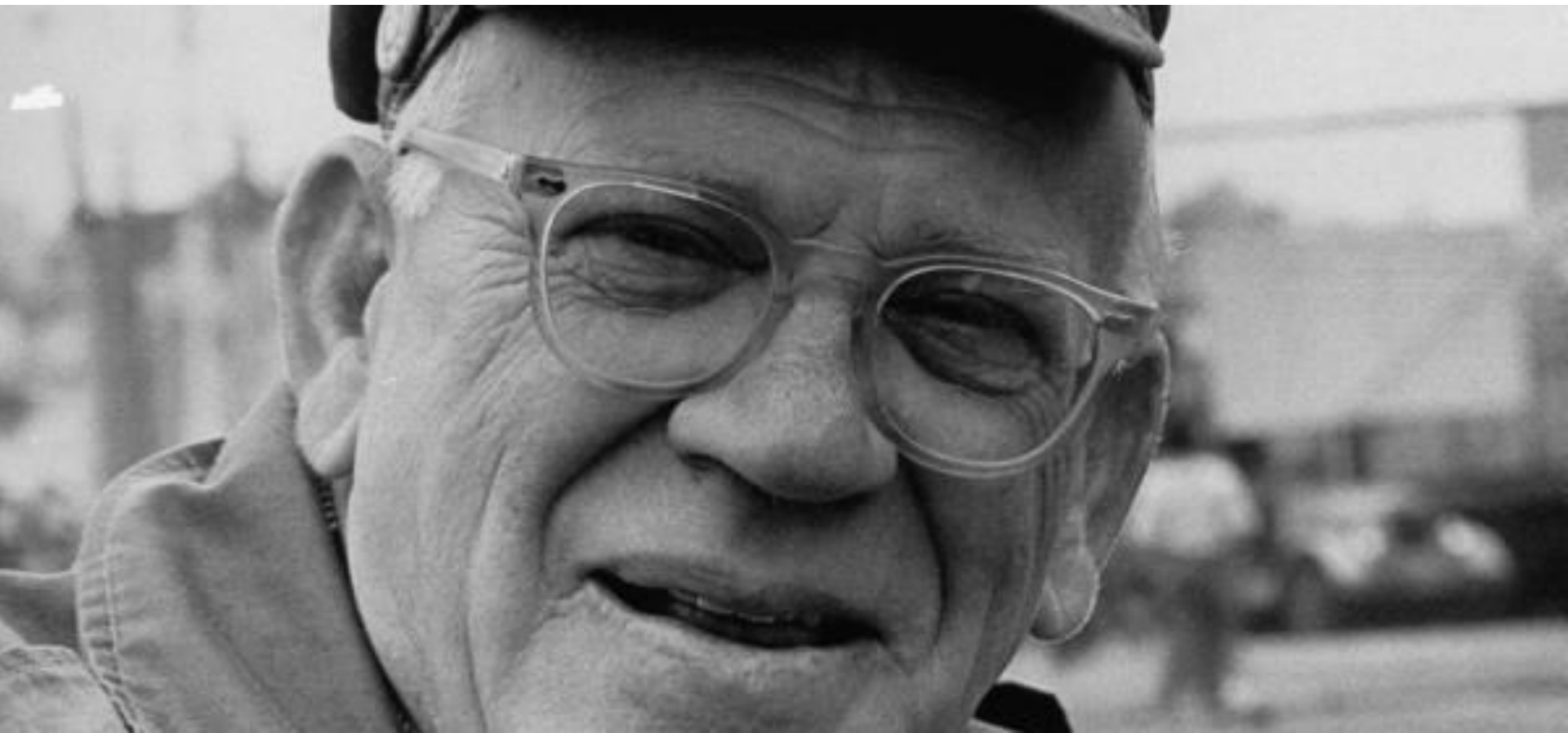




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