Energy Efficiency and Conservation Authority
Te Tari Tiaki Pūngao

Christchurch District Energy System

Developing District Energy in New Zealand and Australia Webinar #2

May 2015

Tim Taylor

tim.taylor@eeca.govt.nz

Energy Efficiency and Conservation Authority
Te Tari Tiaki Pūngao

Earthquake Impact & Recovery

Energy Efficiency and Conservation Authority
Te Tari Tiaki Pūngao

Earthquake Impact & Recovery

EECA
Energy Efficiency and Conservation Authority
Te Tari Tiaki Pūngao

Earthquake Impact & Recovery

Energy Efficiency and Conservation Authority
Te Tari Tiaki Pūngao

Earthquake Impact & Recovery

Energy Efficiency and Conservation Authority
Te Tari Tiaki Pūngao

Earthquake Impact & Recovery

Energy Efficiency and Conservation Authority
Te Tari Tiaki Pūngao

Earthquake Impact & Recovery

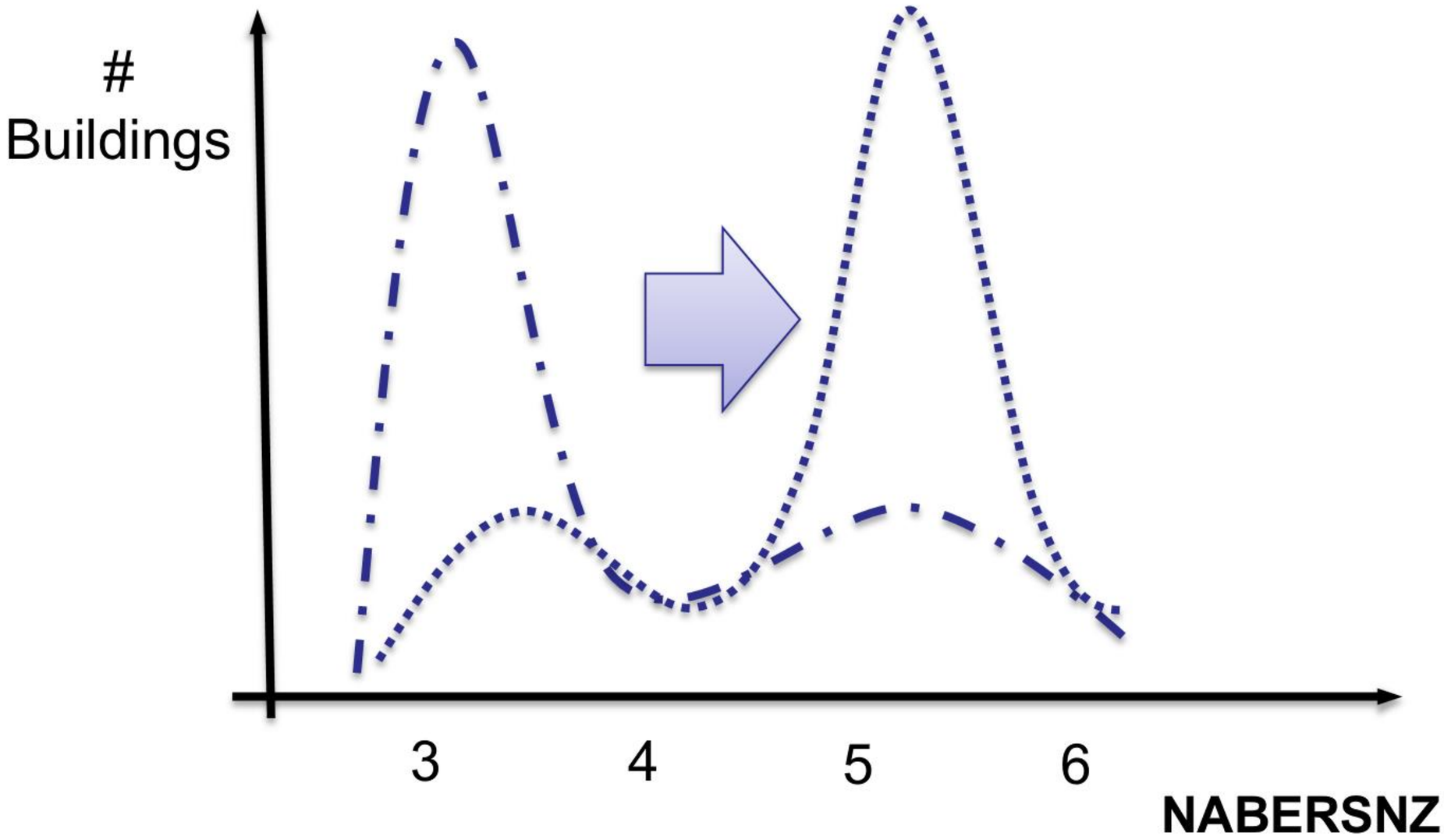
Energy Efficiency and Conservation Authority
Te Tari Tiaki Pūngao

Christchurch

- Central city rebuild
- Repair and replacement of underground infrastructure and roading
- Limited NZ district energy capability
- Temperate climate
- Aquifers and ~75% renewable electricity

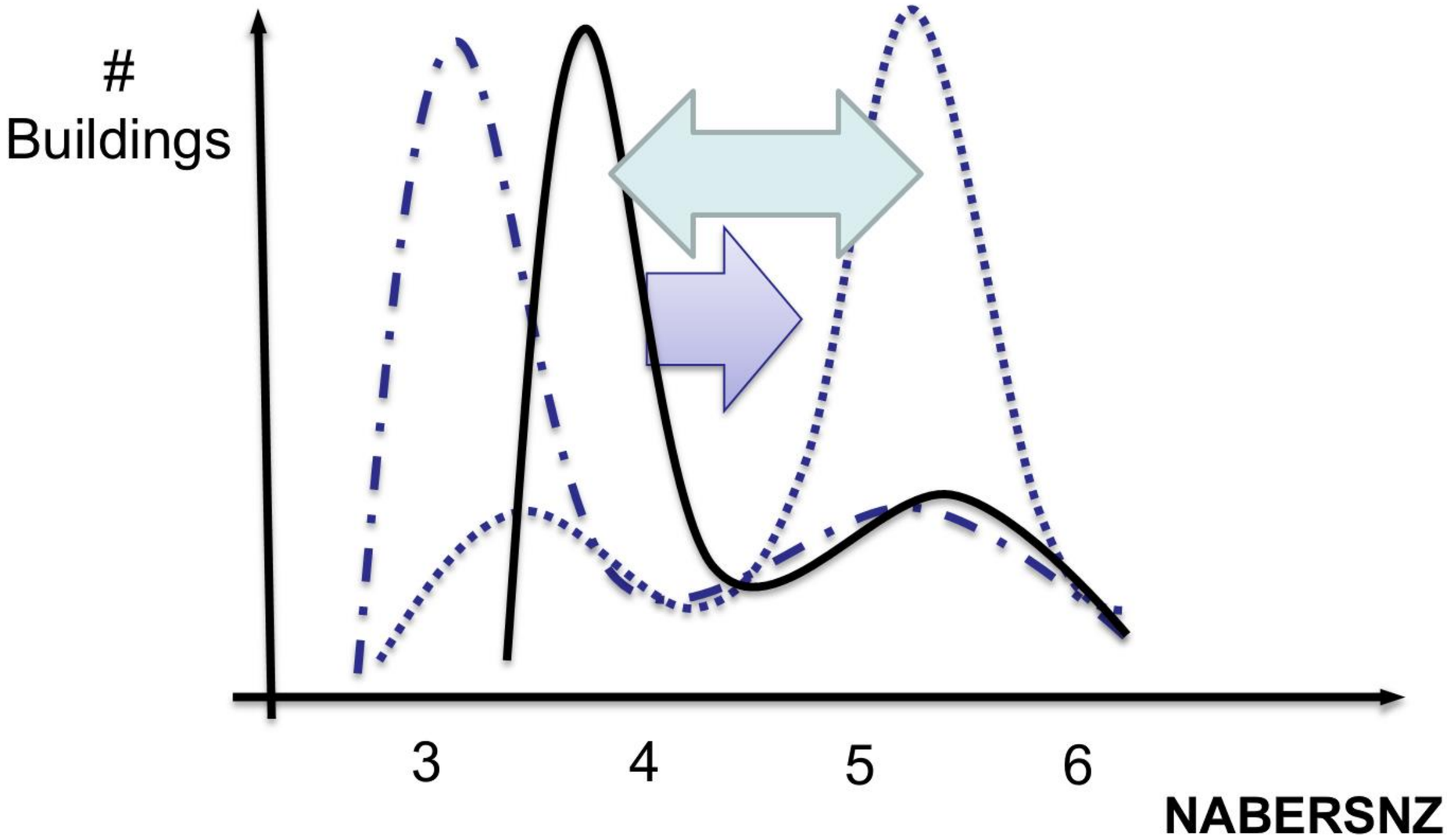
Energy Efficiency and Conservation Authority
Te Tari Tiaki Pūngao

Christchurch



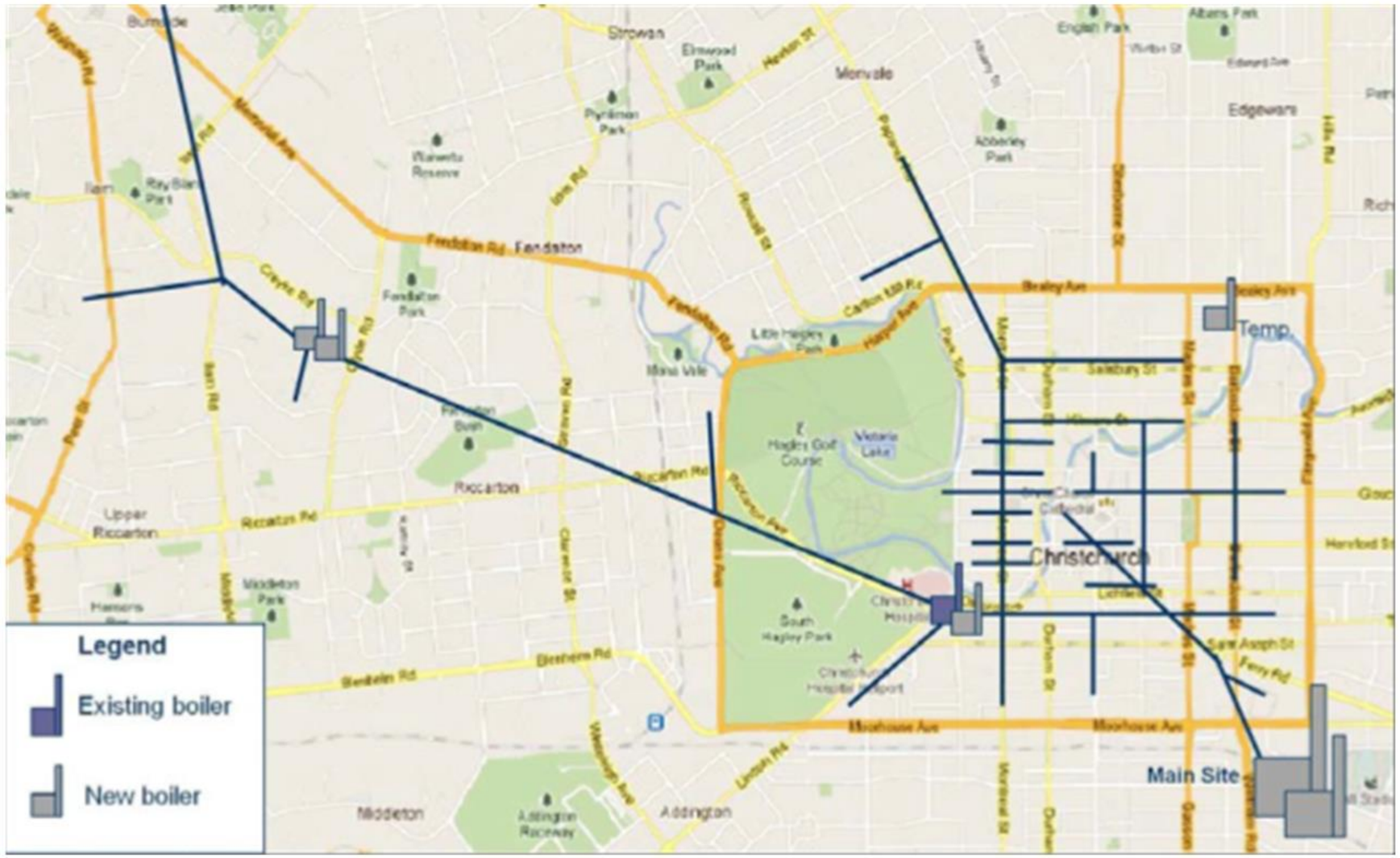
Energy Efficiency and Conservation Authority
Te Tari Tiaki Pūngao

Christchurch



Energy Efficiency and Conservation Authority
Te Tari Tiaki Pūngao

Initial Feasibility Studies



Christchurch DES Alliance

- Public Partners

Christchurch City Council

Canterbury District Health Board
Te Poari Hauora ō Waitaha

cchl CHRISTCHURCH CITY HOLDINGS LIMITED

CERA Canterbury Earthquake Recovery Authority

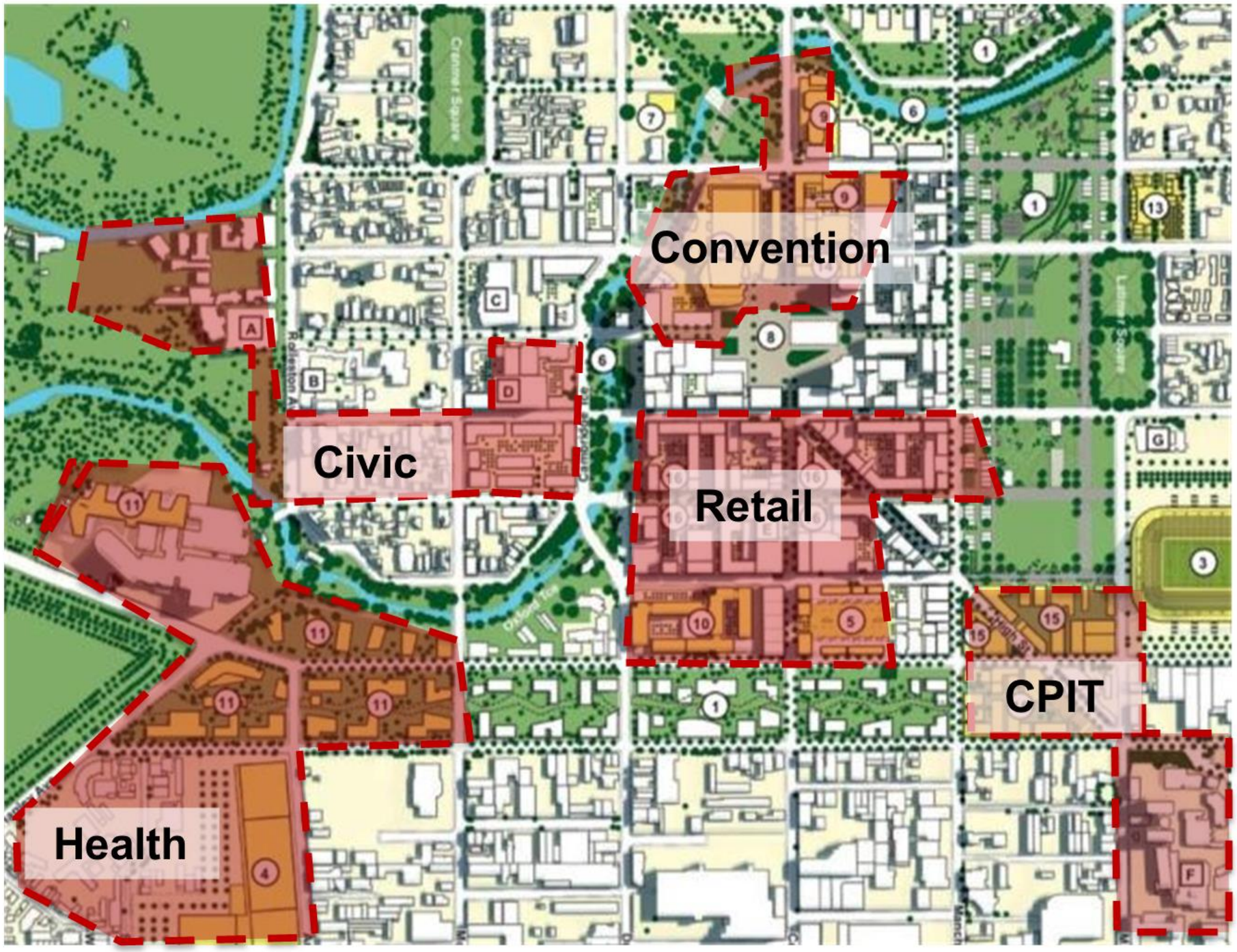
- Commercial Partners

COFELY GDF SUEZ

PIONEER GENERATION

- Christchurch District Energy Company

5 ‘Hubs’



Lessons Learnt

1. Focus on Community Benefits => Vision
2. Secure Political Support
3. Decide Early on a Commercial Delivery Model
4. Map Demand
5. Identify Local Resource Advantages

Energy Efficiency and Conservation Authority
Te Tari Tiaki Pūngao

Lessons Learnt

6. Engage Early with Private Sector
7. Keep a Clear Customer Focus
8. Start Small and Achievable
9. Take a Whole Life Cycle Cost Approach
10. Stage Feasibility Investigations