NZHEB + TPO Use Case Stories

Use Case 1 — Individual (Patient Journey)

Scenario: Hana, a 34-year-old patient in Wellington.

- 1. GP orders a blood test \rightarrow Lab system publishes *LabResultReady* to NZHEB (FHIR DiagnosticReport event).
- 2. NZHEB pushes the event to:
- GP EHR → inbox notification.
- Patient portal → secure mobile app notification.
- TPO → updates KPI "Lab→Clinician latency".
- 3. Within 20 minutes, Hana and her GP both see the result.
- 4. Outcome: Hana starts treatment the same day, not 2 days later.

Benefit:

- Faster diagnosis \rightarrow earlier treatment.
- Equity lens: TPO shows Maori patients average 24 min latency vs national 18 min \rightarrow gap is visible.
- Transparent "receipt" shows latency formula + dataset anchors.

Use Case 2 — Employers (Workforce Productivity)

Scenario: A mid-size factory in Canterbury with 400 employees.

- 1. An employee, Rangi, had abdominal pain. In the old system, diagnosis took 4 days because results weren't shared quickly.
- 2. With NZHEB:
- LabResultReady is published instantly.
- GP gets notified same day.
- Treatment starts in 1 day, not 4.
- 3. TPO calculates:
- Sick days avoided: 3 days saved for Rangi.
- Formula: days saved x employees x median wage.
- Employer dashboard shows "Estimated \$84,000/year savings" across workforce.

Benefit:

- Reduced absenteeism → productivity gains.
- Employers can see transparent ROI, not just "black-box" metrics.

Use Case 3 — Government (Equity & Policy Targets)

Scenario: Ministry of Health monitors 24-month immunisation rates.

- 1. Current system \rightarrow data is delayed by weeks or months.
- 2. With NZHEB:
- Every *ImmunisationUpdated* event is published in real time.
- TPO aggregates and updates KPIs:
- National immunisation = 82% (target 95%).
- Maori immunisation = 75% (gap 7%).
- 3. Treasury dashboard shows:
- Projected productivity loss (sick days, hospitalisations).
- Cost of inequity = NZ\$X million/year.
- 4. Policy makers can intervene quickly (fund outreach, community clinics).

Benefit:

- Transparent, real-time equity reporting.
- Supports evidence-based decisions.
- Provides "receipts" for ROI claims (linked to Stats NZ and Te Whatu Ora datasets).