



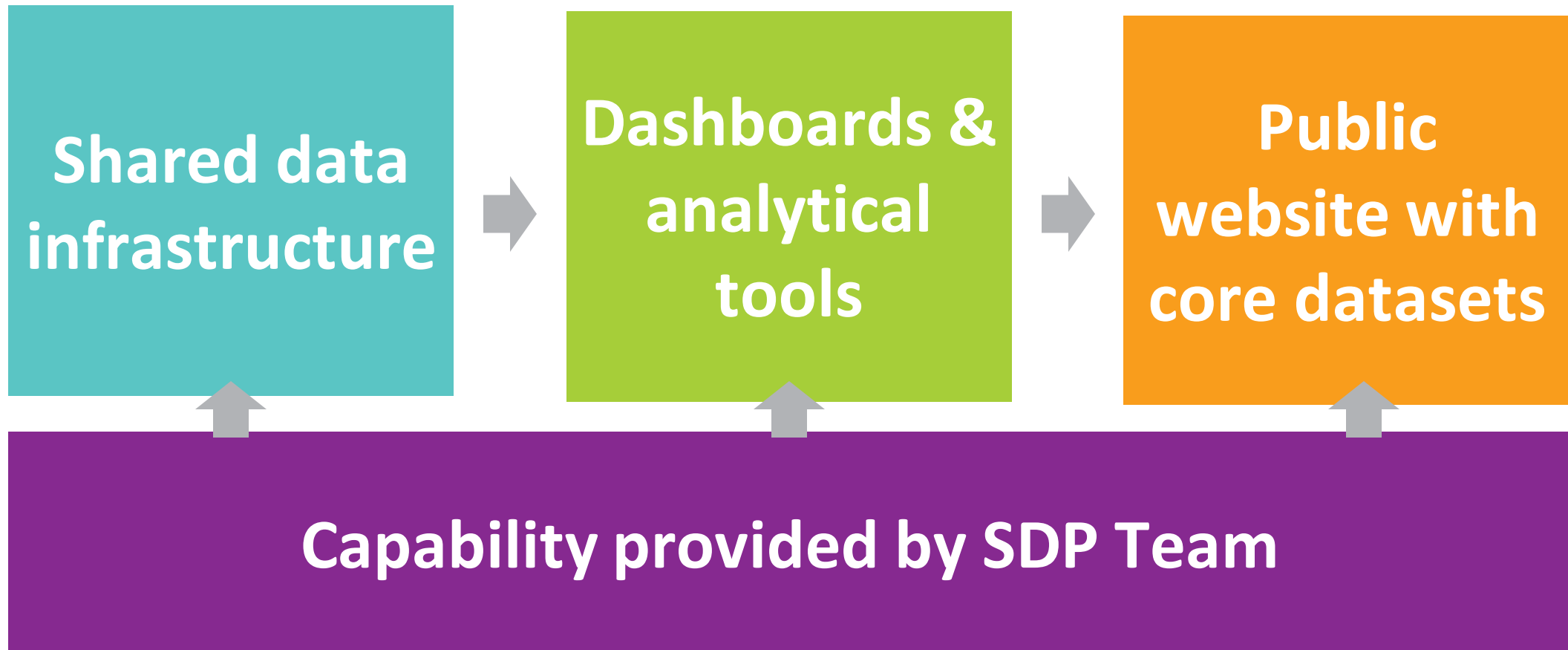
**MUKA TANGATA**  
People, Food and Fibre  
Workforce Development Council

# Using the Shared Data Platform For Food & Fibre analysis

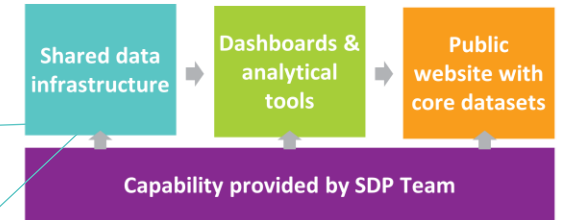
*Nichola Shackleton & Justine Stephen*

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## What is the Shared Data Platform?



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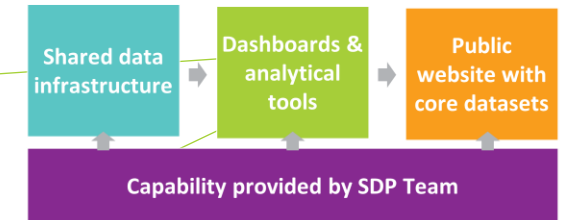


## Shared data infrastructure

- **Database and analysis tools** that hold all Workforce Development Councils **common datasets**
- **ETL processes** that take raw data and **convert it into clean, consistent and reusable data**
- **Secure and dependable environment** where data can be shared and analysed



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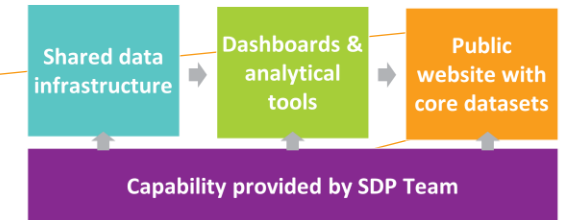


### Dashboards and analysis tools

- **PowerBI dashboards** providing **easy access to the data** for staff in WDCs on industry data, workforce trends and learner data
- **Analytical tools within the SDP environment** and PowerBI to allow Councils to **develop their own visualisations** and resources



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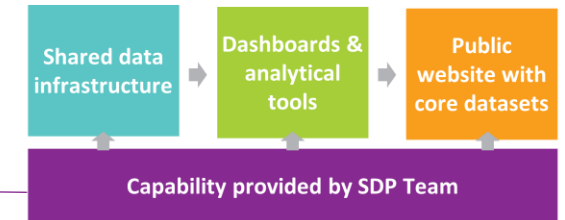


## Public website & core data

- **Te Mata Rauranga** ([www.workforceskills.nz/](http://www.workforceskills.nz/)) website is the public face of the SDP
- It provides core data on industry, workforce and learners for each WDC and regional data



## What is the Shared Data Platform?



### Capability provided by SDP team

- **Data brokerage** – access to key datasets on industry, workforces and learners
- **Data refreshes**, cleaning, coding and linking
- Build of key **data visualisations** and dashboards
- **IDI capability** & analysis
- Security, maintenance and updates

# What kinds of data are in the Shared Data Platform?

## Industry, economy & businesses

GDP

Export revenue

Enterprises

Māori businesses & significant employers of Māori

## Workforce

Demographics

Working patterns

Levels of qualification

Labour market entrants/exits

Occupations

## Learners & providers

Demographics

Enrolments

Retention & completion

Type of provider

Field of study

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# How is Muka Tangata currently using the SDP?

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# Skills Forecasting Project

An interactive training demand forecasting model hosted on the Shared Data Platform, focusing on the skills needs of the food and fibre sector

- A model of training demand using **existing workforce forecasts** and other important drivers/inputs.
- Forecast of **training demand for specific industries, specific skills** and by **level of training required**.
- **User-friendly interactive interface** with changeable inputs.



Dashboard of skills forecasts



# Workforce Development Plans

Data incorporated and updated with the latest intel in our Workforce Development Plans



As part of our Workforce Development Plans, Statistics New Zealand IDI data has been used to take a closer look at the workforce within Muka Tangata WDC. This dashboard has been developed to visualise the demographics within the workforce. Click on any of the sections below to see the visuals for that section.

**IDI DISCLAIMER**

These results are not official statistics. They have been created for research purposes from the Integrated Data Infrastructure (IDI) and Longitudinal Business Database (LBD) which are carefully managed by Stats NZ. For more information about the IDI and/or LBD, please visit <https://www.stats.govt.nz/integrated-data/>. The results are based in part on tax data supplied by Inland Revenue to Stats NZ under the Tax Administration Act 1994 for statistical purposes. Any discussion of data limitations or weaknesses is in the context of using the IDI for statistical purposes, and is not related to the data's ability to support Inland Revenue's core operational requirements.



**ETHNICITY** →



**AGE** →



**REGIONAL DISTRIBUTION** →



**GENDER** →



**GRAPES AND WINE LEARNERS DASHBOARD**

ABOUT THIS DASHBOARD

DISCLAIMER

Click on any of the sections below to see the visuals for that section.



**FORESTRY LABOUR MARKET DYNAMICS**

As part of our Workforce Development Plans, Linked Employer-Employee Data from Statistics New Zealand have been used to take a closer look at the labour market dynamics of the industries within Muka Tangata WDC. This report has been developed to visualise median earnings, worker turnover rate and the number of filled jobs. Click on any of the sections below to see the visuals for that section.



**MEDIAN EARNINGS** →



**WORKER TURNOVER RATE** →

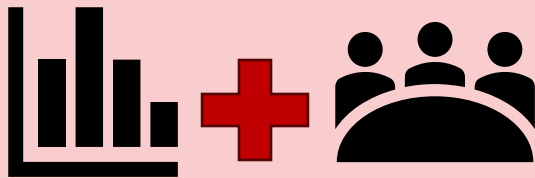


**NUMBER OF FILLED JOBS** →

# TEC Investment Advice & Research projects

Insights to power our Investment Advice and a platform to store, analyse and share our research findings

## Developing TEC Investment advice



Data on  
industry,  
workforce &  
learner trends

Industry  
voice &  
insights

## Research on Learner & workforce pathways

- Just over **1 in 5 graduates** completing Muka Tangata related qualifications in 2012 **had attained a higher level of qualification in the 5 years prior**
- Just under **2/3 went on to attain a further qualification** in the 10 years following completion. Around **half of these**, so **1/3 of the cohort overall, go on to study a higher qualification.**
- We need to know more about sequence on enrolments/completions, time between study spells and how this relates to time spent in sector as well as age and stage of life.

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## Shared Data Platform – current projects

- Occupation forecasting and detailed industry GDP estimates
- TEC advice tool for all councils
- Learner, industry and workforce dashboards



