

Foreword



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This is the eighth Construction Industry Survey - a research partnership between Civil Contractors New Zealand (CCNZ) and Teletrac Navman.

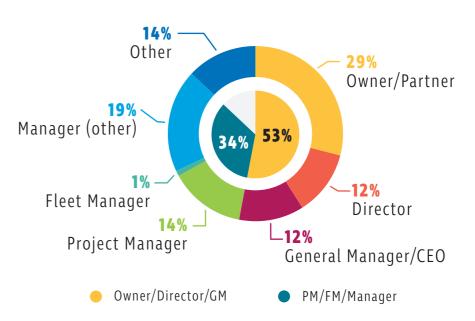
Our research helps to build a picture of New Zealand's civil construction industry and the experiences of those within the industry. The results shed light on the state of the civil

construction industry and its outlook for the future, as well as stimulating discussion on industry views amongst private and public organisations, local and central government.

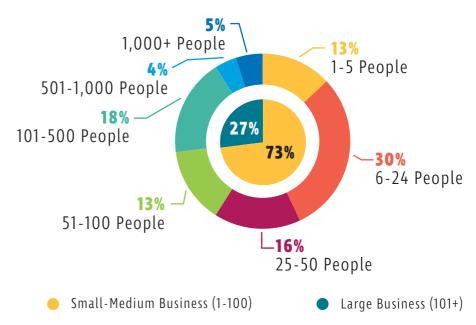
Demographics And Methodology

226 adults from the civil construction industry took the online survey from 28th May - 23rd June 2024

Position/Role



Number of People in Business



What is your position/role in your business? Base n=226
Approximately how many people work for your business? Base n=226

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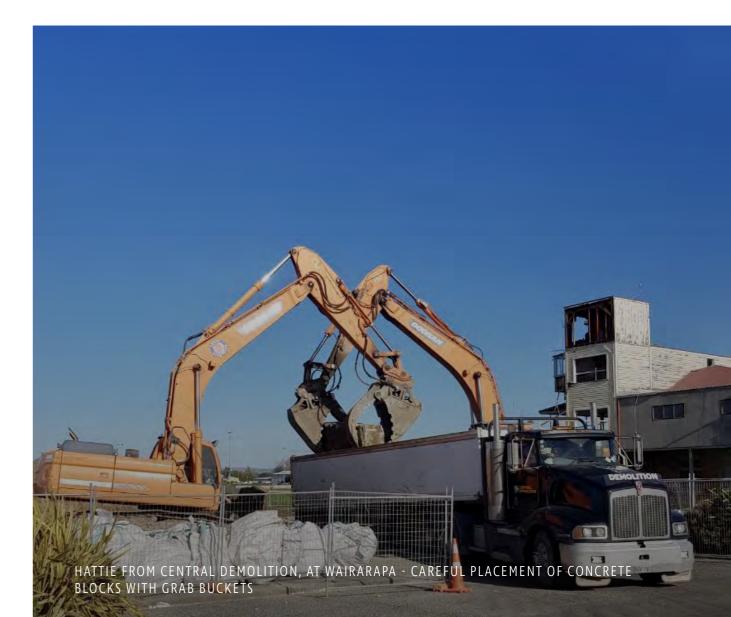


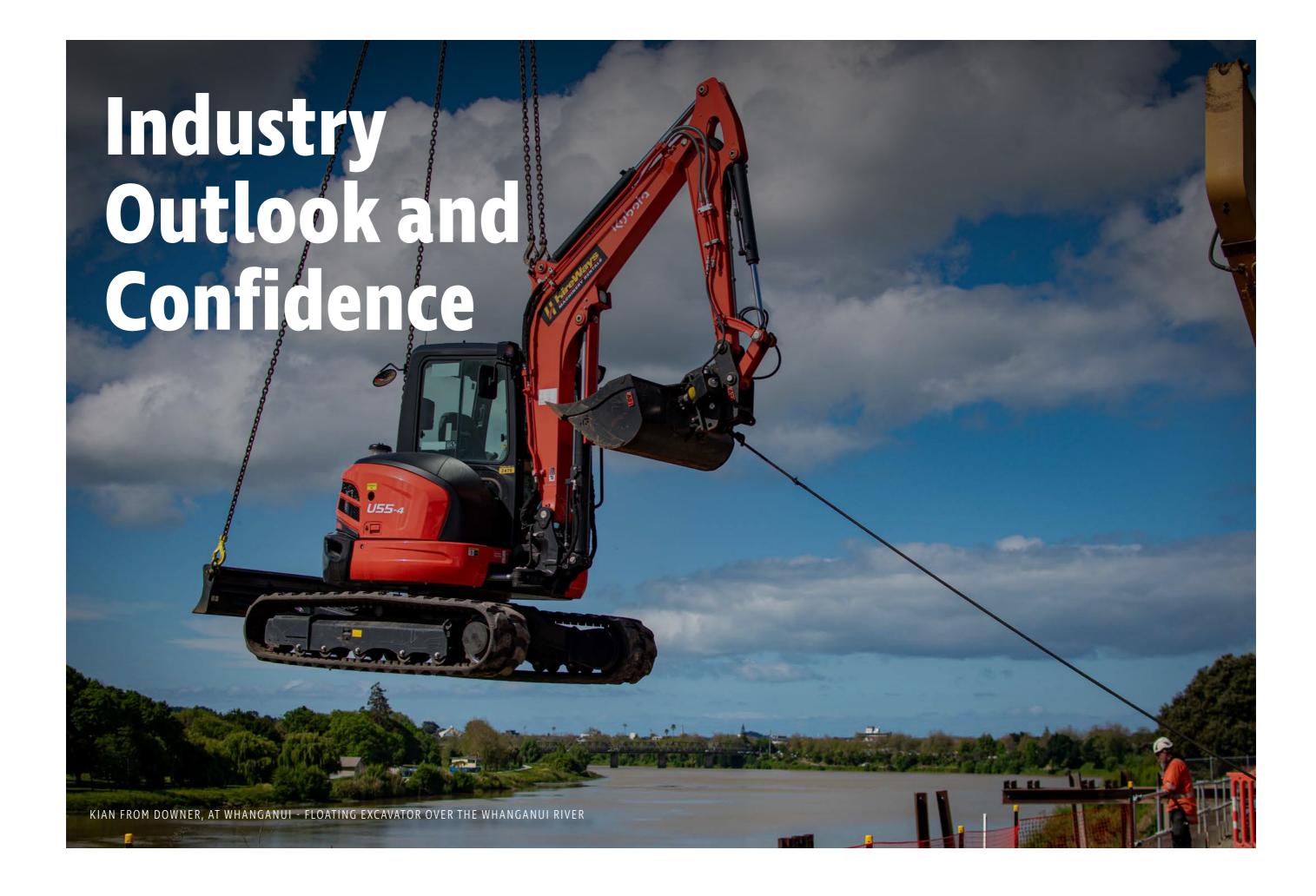
26 Workforce

On-site Technology Energy Sources Specialised Technology Business Intelligence Mandated Technology



42 Technology





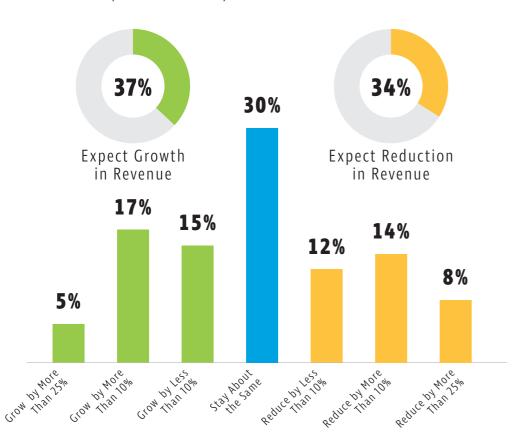


Revenue Expectations

Mixed expectations regarding revenue expectations, with 37% expecting revenue to grow over the next 12 months

Revenue Expectations

(next 12 months)

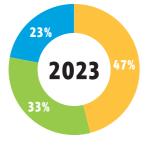




Revenue Expectation

Trended







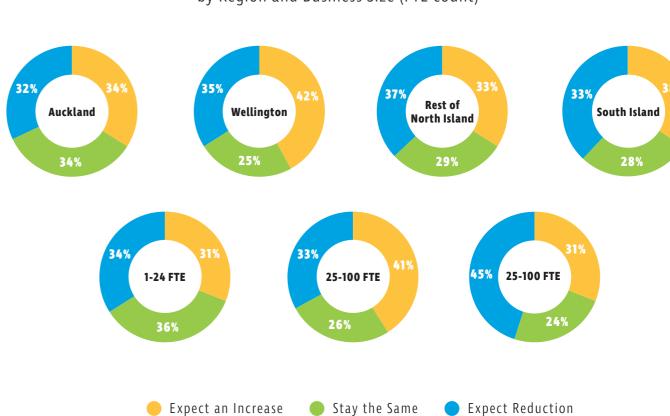
Expect an Increase

Stay the Same

Expect Reduction

Revenue Expectation

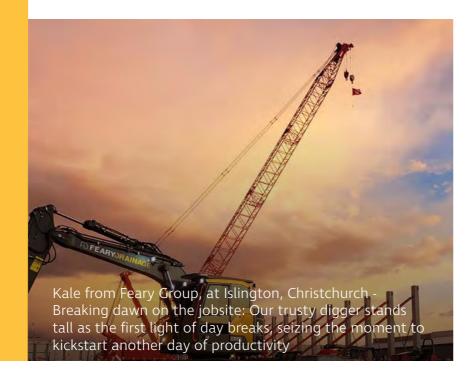
by Region and Business Size (FTE count)



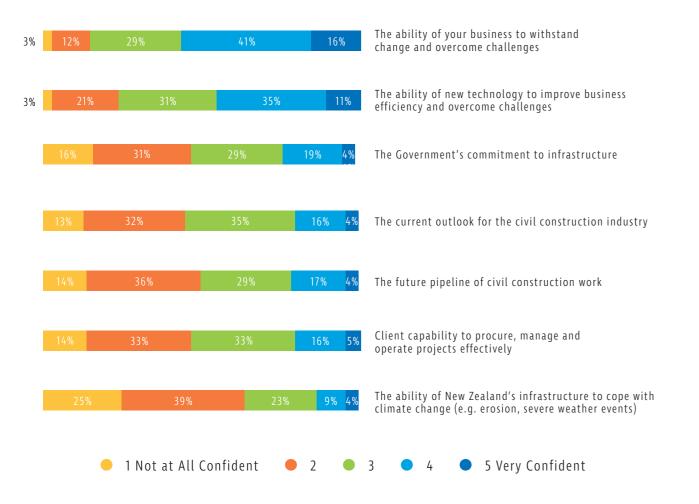
Do you expect that your business turnover (revenue) will grow, stay about the same, or reduce in the next 12 months? Base Total Sample n=226 Base 2024 n=226, 2023 n=198, 2022 n=226, 2021 n=161; Auckland n=59, Wellington n=17, Rest of North Island n=51, South Island n=99, 1-24 FTE n=98, 25-100 FTE n=66, 100+ FTE n=62

Industry Confidence

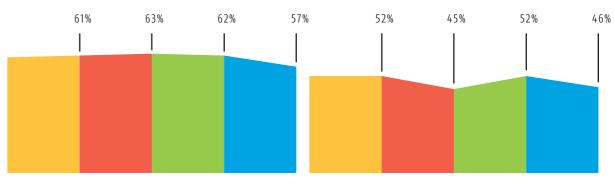
Surveyed businesses were most confident about their ability to withstand change and overcome challenges. However confidence in NZ's infrastructure to cope with climate change is low.



Confidence

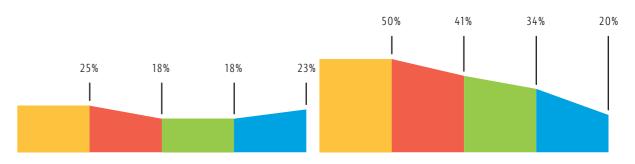


Confidence - Trended



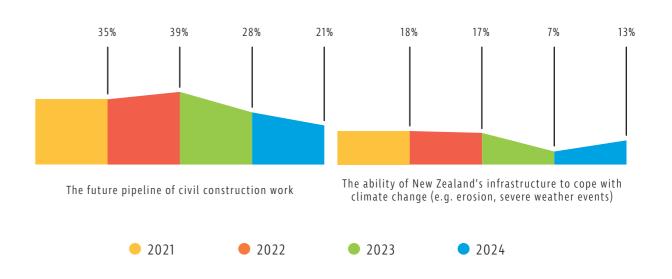
The ability of your business to withstand change and overcome challenges

The ability of new technology to improve business efficiency and overcome challenges



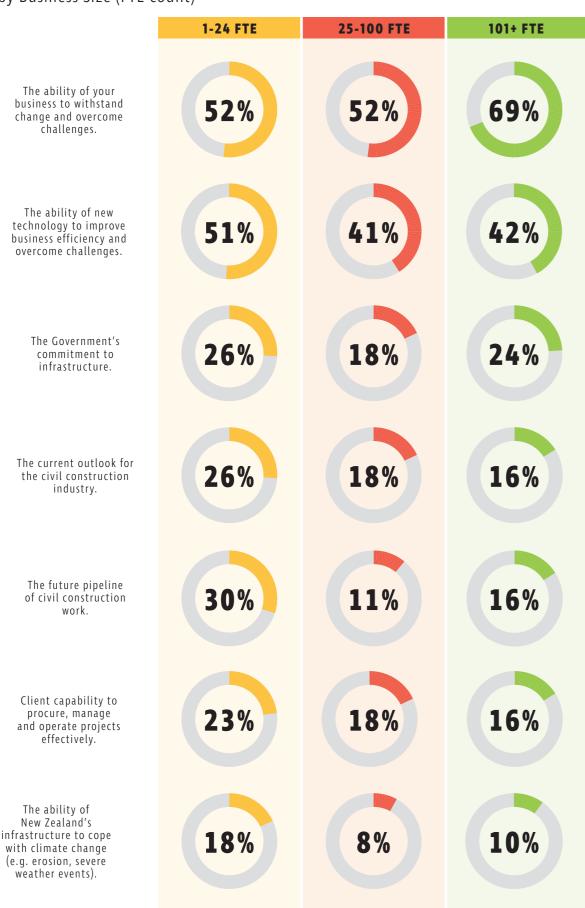
The Government's commitment to infrastructure

The current outlook for the civil construction industry



Confidence

by Business Size (FTE count)



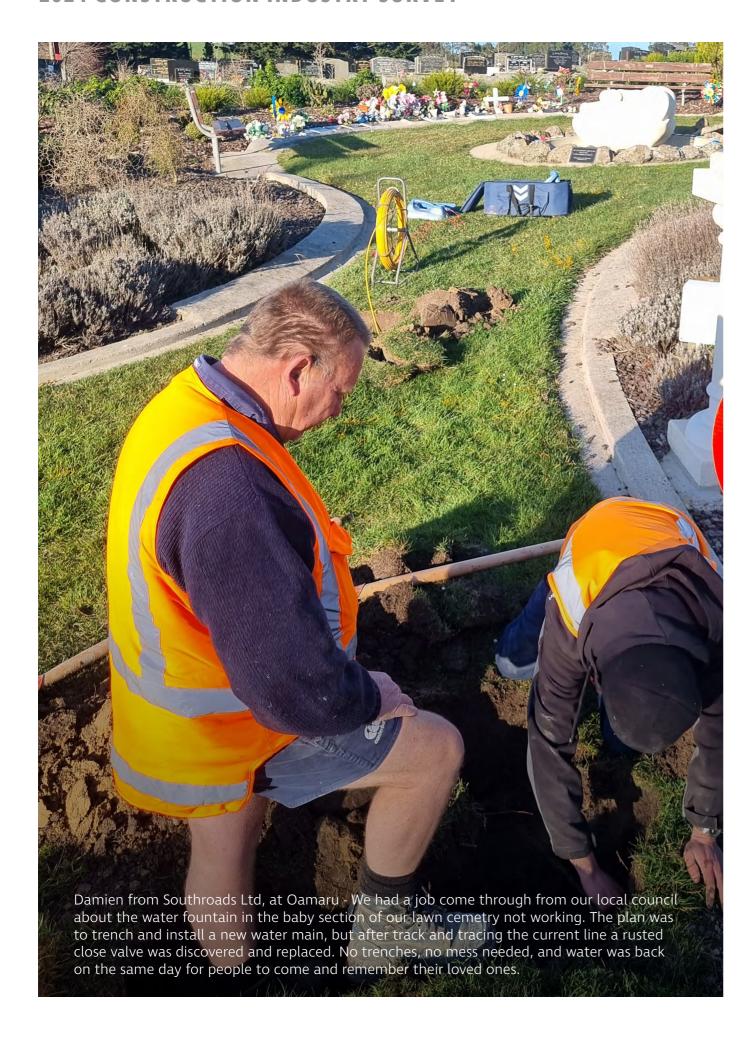


Industry Confidence

Larger businesses are more confident in their ability to withstand change, but they're least confident about the current outlook for the industry compared to small and medium businesses. Small businesses are more optimistic about the future pipeline of civil construction work than medium and large businesses. Half of small businesses are confident in the ability of new technology to improve business efficiency and overcome challenges, which implies that they are open to investing in innovations that could drive growth and resilience.

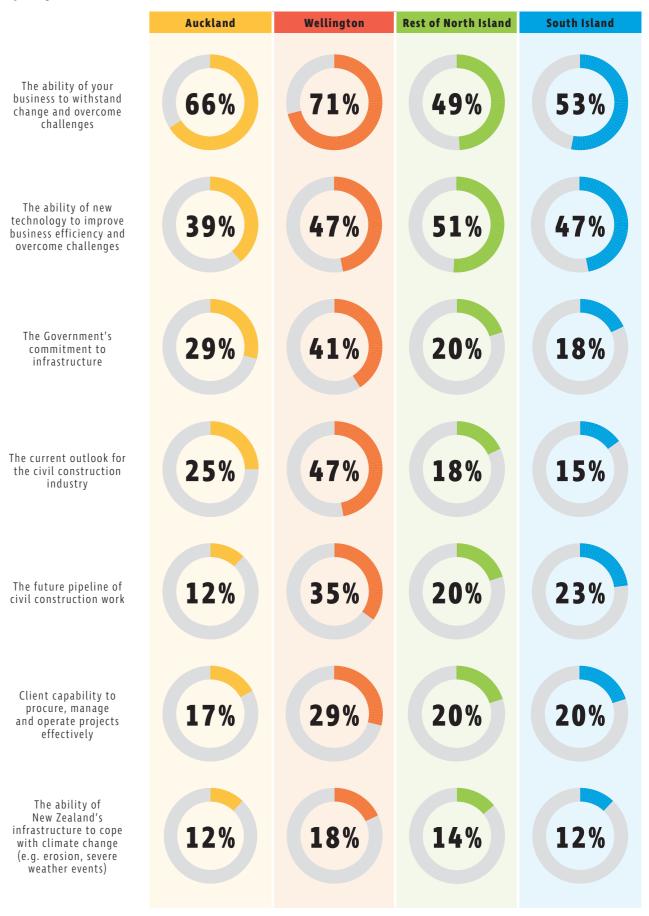


Thinking about the future, how confident are you in... Base Auckland n=59, Wellington n=17, Rest of North Island n=51, South Island n=99, 1-24 FTE n=98, 25-100 FTE n=66, 100+ FTE n=62



Confidence

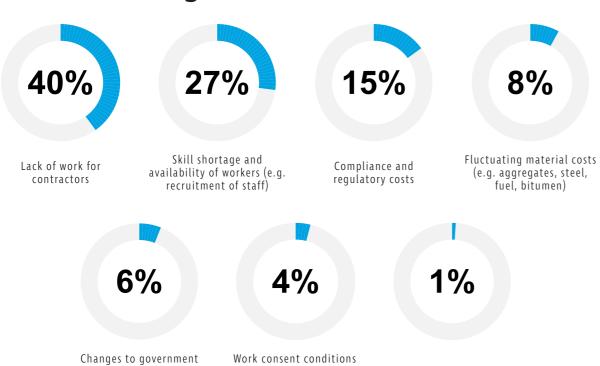
by Region



Challenges

Main industry challenges seen to be lack of work for contractors and skills shortages.

Main Challenge



and client requirements

(e.g. working restricted

Health and safety

competency

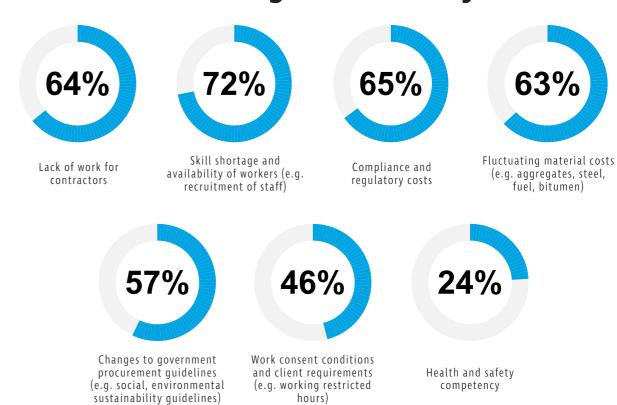
What is the main challenge in the construction industry? Base Total Sample n=226

procurement quidelines

(e.g. social, environmental

sustainability guidelines)

Perceived Challenges to Industry Growth



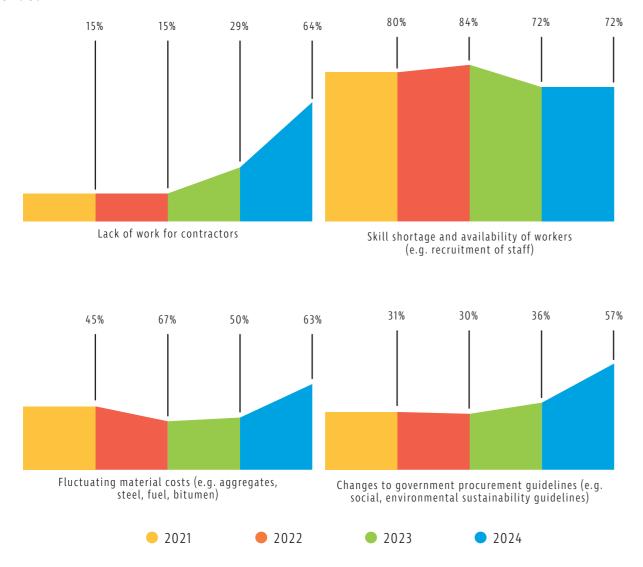
What challenges do you think the construction industry is facing for future growth? Base Total Sample n=226



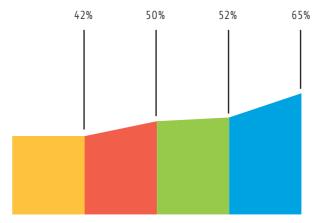
2024 CONSTRUCTION INDUSTRY SURVEY

Challenge

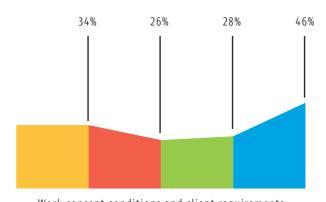
Trended



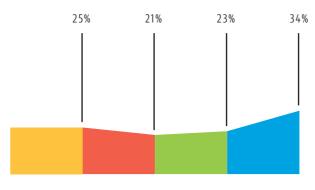




Compliance and regulatory costs



Work consent conditions and client requirements (e.g. working restricted hours)



Health and safety competency

Challenges

The most pressing challenges include a sharp rise in construction businesses facing an intense lack of work, with 64% reporting this issue in 2024, up from 29% in 2023.

Increasing difficulties with local and central government procurement guidelines and work consent conditions are adding to the burden.

Compliance and regulatory costs have continued to be an ongoing challenge.

Fluctuating material costs, which appeared to decrease slightly last year, are once again on the rise as a significant challenge.

Health and safety competency is not increasing as an issue, which may indicate that businesses are too occupied with other pressing challenges to focus on it.

What challenges do you think the construction industry is facing for future growth? Base 2024 n=226, 2023 n=198, 2022 n=226, 2021 n=161

What Can Be Done to Overcome MAIN Challenge

Selected verbatim responses from respondents regarding main challenges

Lack of Work for Contractors

A **fairer distribution** of work contracts across a wider range of companies, not just the larger companies getting the contracts and dictating to the smaller companies.

Need a well **funded national pipeline** that is agreed by all government parties.

Lower interest rates.

Clear continuity of workflow from local, regional and national bodies.

Better **pipeline** planning.

One strategy could be to **diversify skills and services** offered by contractors to appeal to a broader range of clients. Additionally, creating partnerships with businesses or organizations that frequently require contract work could provide a more **consistent stream of projects**. Lastly, investing in marketing and branding efforts to increase visibility and **attract new clients** could also help mitigate the lack of work.



Skills Shortage and Availability of Workers

Have **dedicated training institutions**

for the key skills needed. Also align delivery programmes for specific skills to allow staff with specific skills to move from one project to the other.

Change immigration
guidelines to permit
overseas workers already in
NZ to be able to extend visas
and obtain residency

Urgency in fast tracking required works that are in the pipeline

Better **immigration pathways** to residency
for construction workers

Exposure of the opportunities in our industry to high school students.

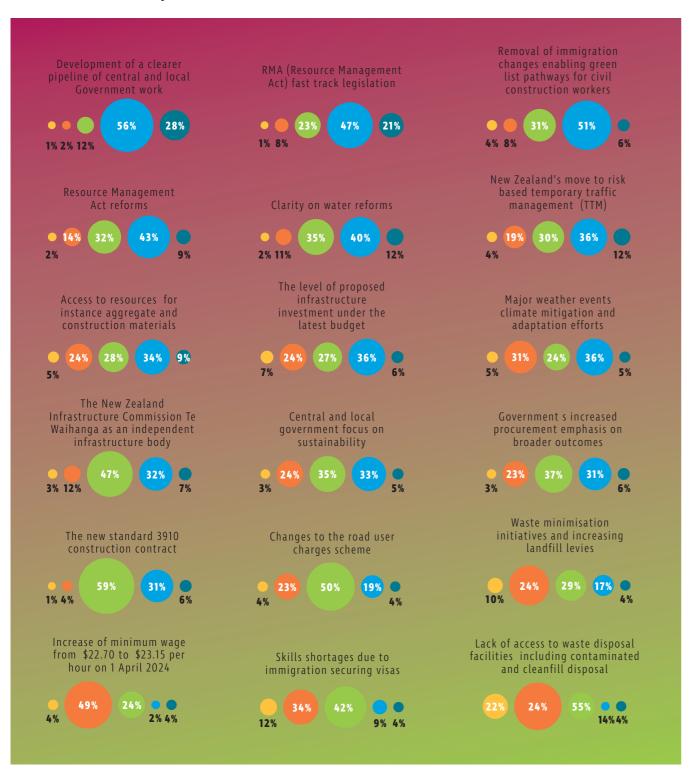
Government funded practical
training programmes.

Make the Civil Construction industry an **attractive workplace** again.



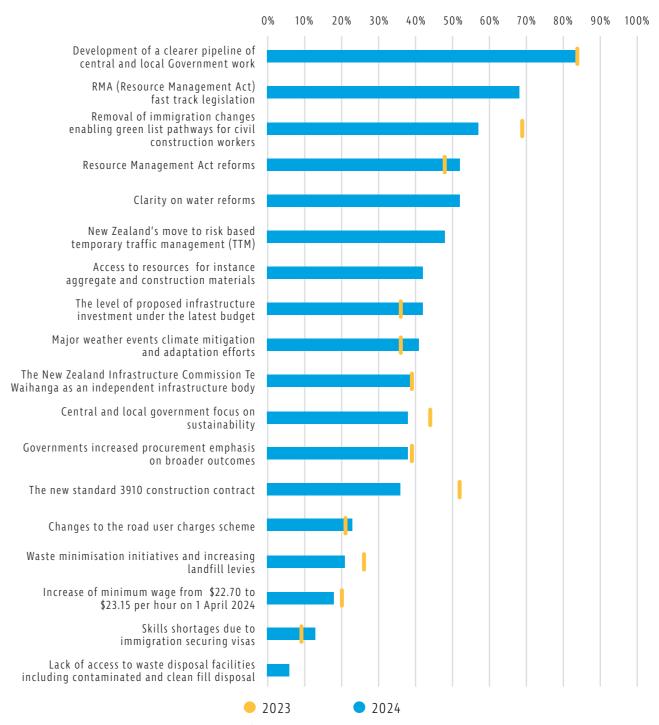
Industry Issues

A clearer pipeline is seen as having the largest potential impact on business over the next 3 years



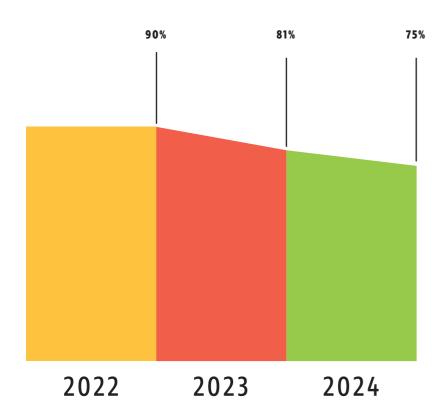


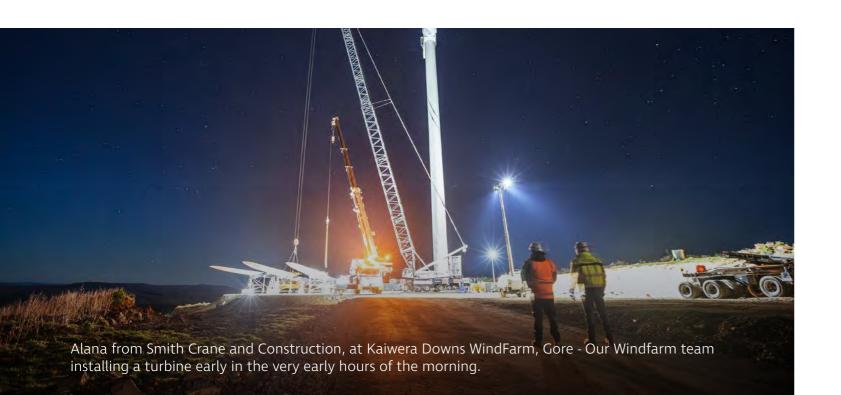
The perceived positive impact of a clearer pipeline, the level of proposed infrastructure investment, and major weather events, climate mitigation has increased over the past years.



What impact do you think these actual or potential issues/events could have on your business in the next three years? Base Total Sample n=226

Has Been Significantly Impacted by Cost Escalation and Supply Chains Issues

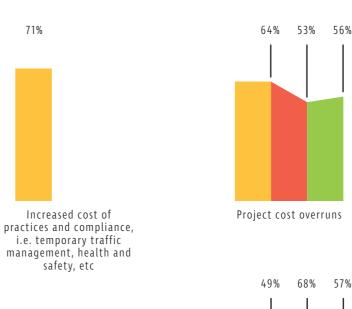




Supply Chain Impacts

Many businesses have been significantly impacted by increased costs and project overruns particularly compliance costs

Types of Significant Impact Experienced



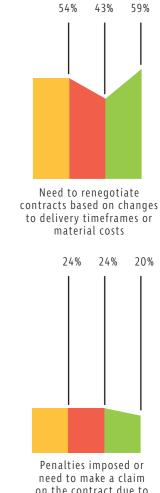
50%

Increased waste disposal

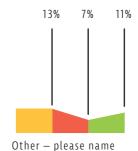
costs, including access to

fill sites

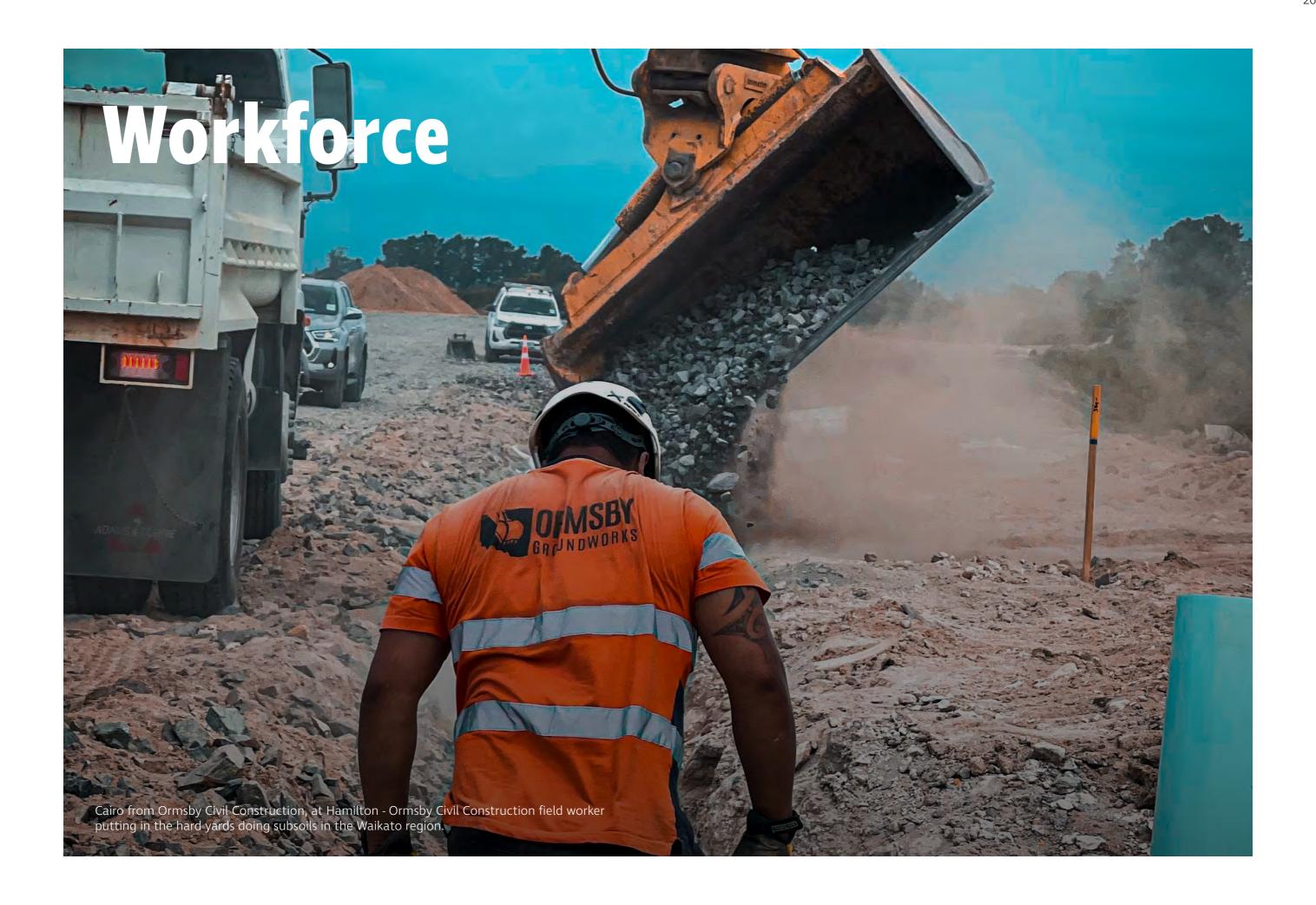




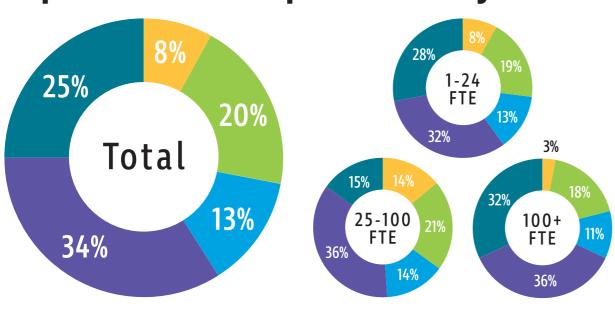
Penalties imposed or need to make a claim on the contract due to increased material costs or delivery delays



Has your business been significantly impacted by cost escalation and supply chain issues over the past 12 months? Base 2024 n=226, 2023 n=198, 2022 n=226, 2021 n=161 If so, what significant impacts has your business experienced? Base All who have been impacted 2024 n=166, 2023 n=161, 2022 n=203

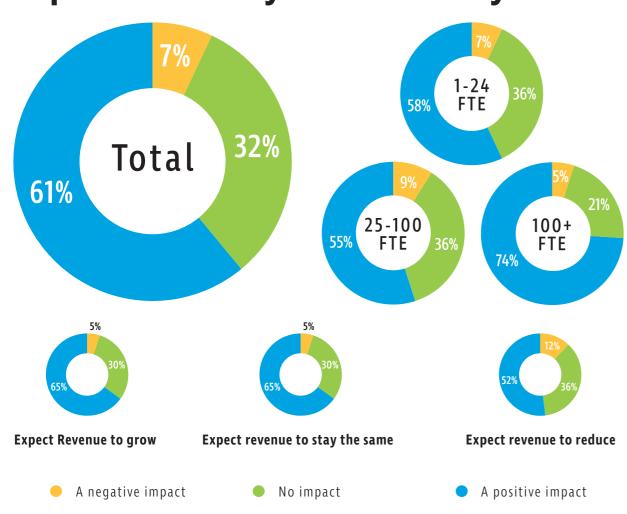


Importance of Workplace Diversity



Impact of Diversity on Productivity

Very unimportant
 Quite unimportant
 Not sure
 Quite important
 Very important



How important do you think diversity and inclusion (e.g. age, gender, ethnicity, culture, lifestyle) is for the Civil Construction industry? Base Total Sample n=226

What impact do you think having a diverse workforce (e.g. age, gender, ethnicity, culture, lifestyle) has on your business productivity? Base Total Sample n=226

Ryan from Strata Civil Ltd, at Queenstown - Jarrod, compacting fresh concrete for a retaining wall holding up a new footpath above a major road renovation in Queenstown with the Remarkables mountains in the background

Diversity

Diversity is viewed as important and a positive impact by most of the industry. There is a correlation with revenue expectations; those businesses who expect revenue to grow over the next year place more importance on diversity. Larger businesses are more likely to think a diverse workforce positively impacts productivity.



Inclusivity

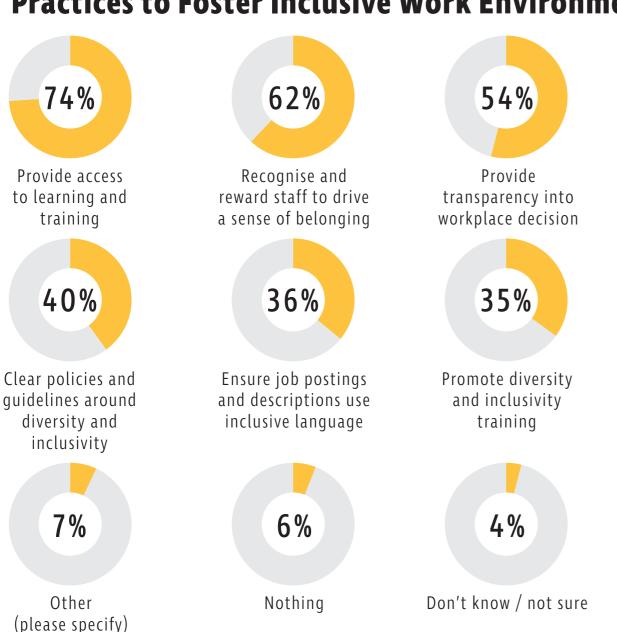
Decrease

Access to learning and employee recognition can foster a more inclusive work environment

Staffing change - Trended

There appears to be continuing softening in labour demand over the last 4 years. Half of business expect requirement for staff to stay the same. A third of businesses state that no recruitment is needed.

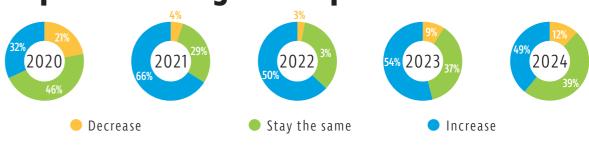
Practices to Foster Inclusive Work Environment



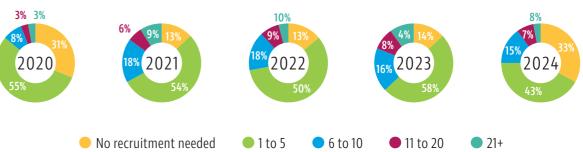
Stay the same

Increase

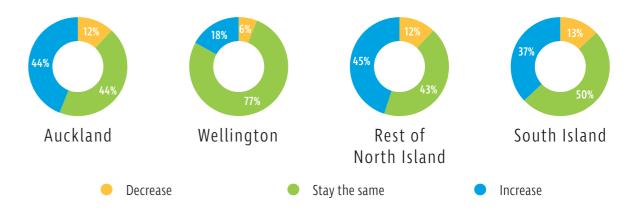
Expected Change in Requirement for Staff



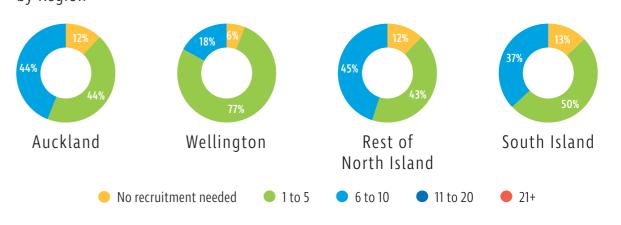
Ideal Recruitment Number



Expected Change in Requirement for Staff by Region



Ideal Recruitment Number by Region

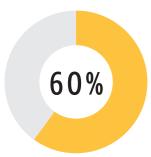


Over the next year, do you think your requirement for staff will... ? Base Total Sample n=226 How many staff would you recruit today if people with the right skills were available? Base Total Sample n=226

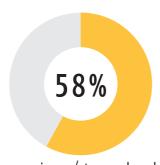
Skillsets

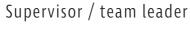
Machine operators, supervisors / team leaders, and experienced field worker will be the most in-demand skillsets

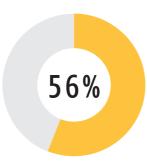
Ranked in the Top 3 Skillsets



Machine operator (plate compactor, excavator, roller etc)







Experienced field worker (i.e. traffic control, site safety, some industry experience)

What skillsets do you most need in your business? Base Total Sample n=226



Skillsets Most Needed by Business

(ranking)

 14%
 12%
 7%
 8%
 15%
 14%
 15%
 6%
 8%

Entry level field worker

2%



Experienced field workers (i.e. traffic control, site safety, some industry experience)

5% 4% 10% 4% 10% 7% 16% 21% 23%

Machine operator (plate compactor, excavator, roller etc)

1% 3%



Supervisor / team leader



Entry level surveyor / civil engineer

12% 16% **15% 18%** 9% 8% 7% 7% 9%

Expert / Specialist surveyor / civil engineer

 4%
 8%
 16%
 15%
 17%
 9%
 8%
 7%

Project manager / health and safety manager / contracts manager

29% 25% <mark>8% 9% 7% 4%</mark> 7% <mark>5%</mark> 6%

Senior manager

25% 11% 11% 10% 11% 11% 7% 7% 9%

Mentoring and leadership

● Ninth ● Eighth ● Seventh ● Sixth ● Fifth ● Fourth ● Third ● So

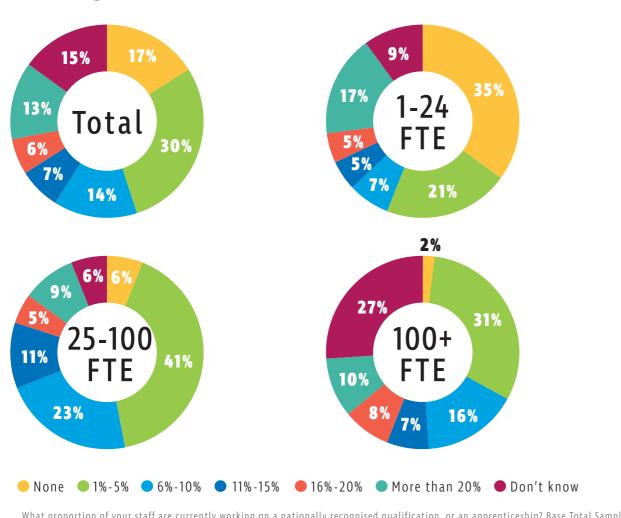
Please rank in order by clicking on the following you need the most (1) then the second (2) right through to the one you need the least

Staff Retention Support



What would support your business in taking on and retaining staff? Base Total Sample n=226

Percentage of Workforce on **Apprenticeship or Working on Nationally Recognised Qualification**



Clarissa from Diggs Ltd, at Pohara, Golden Bay - Unblocking a culvert in a flood prone water course at the top of a residential subdivision during an orange weather warning

Staff Retention

Funded training including apprenticeships is the key way businesses want support for staff acquisition and retention.

Apprenticeship

Almost half (44%) of businesses have up to 10% of their workforce in apprenticeships, and 13% have more than 20% of staff in workshops or training. This is significantly lower among smaller businesses, perhaps because they already have skilled employees and may not require additional training.



What proportion of your staff are currently working on a nationally recognised qualification, or an apprenticeship? Base Total Sample n=226



Specialised Technology

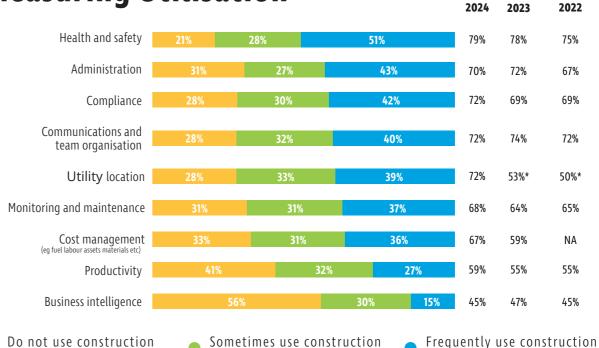
Areas that are currently used by majority of businesses include Health and Safety, Administration, Compliance. Areas that may be under-utilised include Business Intelligence, Productivity, Cost Management. Use of cost management technology has increased over the last year

Business Intelligence

Of those businesses who are currently using Business Intelligence technology, 45% state it is impacting engagement, and 77% envision increasing demands for overall integration



Measuring Utilisation



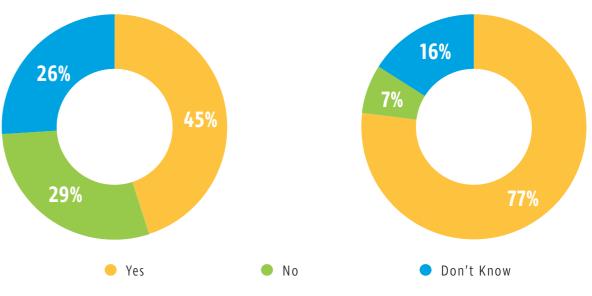
technology for this on-site

Is Use of Business Intelligence Impacting Engagement with Suppliers, Contractors, Clients?

technology for this on-site

Envision Increasing Demands for Overall Integration of Tech to Improved Data Insights

technology for this on-site



Thinking about each of the following purposes, do you use any specialised construction technology or software on the job site? Base Total Sample n=226

Please note, this excludes standard office technology such as computers or Microsoft office *Note: Worded as "Measuring utilisation' in 2023 and 2022

On-site Technology

Fleet management and machine control are the most common onsite tech solutions

On-site Technology Solutions Currently Used



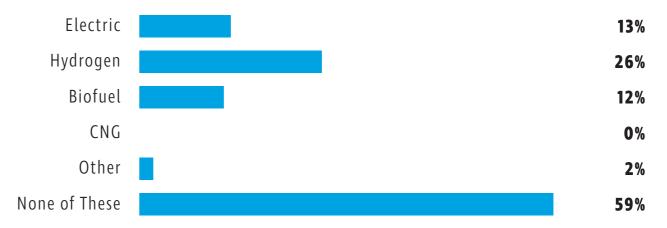
Energy Sources

Almost 60% expect no change to the type of energy sources they currently use. A quarter of businesses are looking to use hydrogen in the future

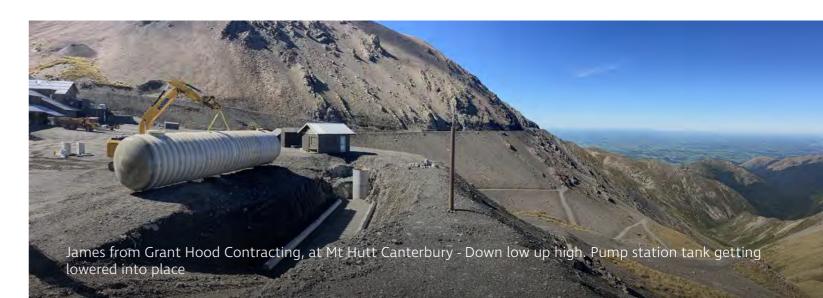
Current Energy Usage



Future Energy Usage



What challenges do you think the construction industry is facing for future growth? Base Total Sample n=226



activities)

On-site Technology

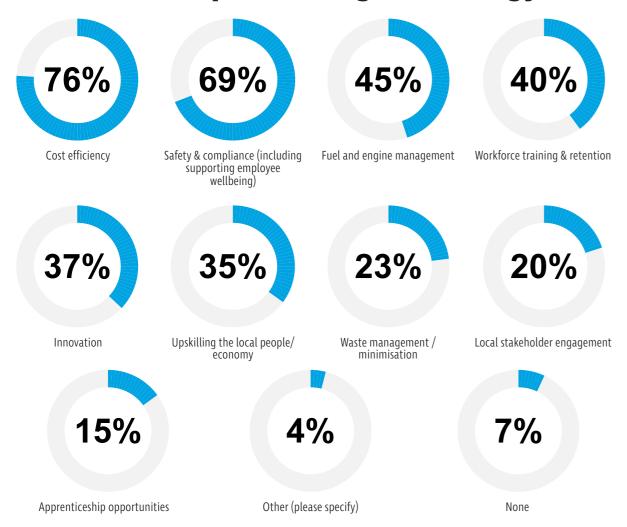
Cost efficiency, followed by safety and productivity, are the key drivers of technology implementation

Mandated Technology

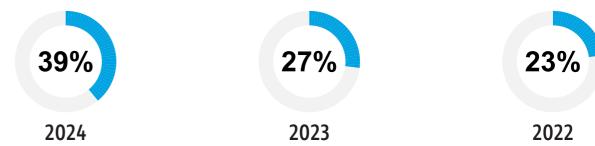
Over a third of businesses have been mandated certain tech to bid for work. This has continued to increase over the past 2 years highlighting that the tender process is becoming more competitive.

Two thirds have highlighted on-site tech to win work, this has increased significantly since last year

Benefits of Implementing Technology



Have You Customers Mandated a Certain Tech in Order to Bid for Work?



Aconex

GPS machine control

Laser scanning and BIM

Weigh Scales, laser measurement

Generally, their systems for project management/reports etc.

Client specified asset management software.

Laser guided technology

Machine control and Digital shields

Contract management software

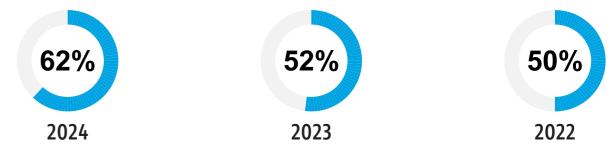
Various builder platforms for tendering and project management

It is normally a case of using IT solutions that fit them for review of pricing purposes.

Their own programs when tendering for their work

GPS and monitoring capabilities on most earthmoving equipment.

Have You Highlighted Onsite Tech to Win Work?



Utilising BIM to ensure early identification of issues and clashdetection

Client ability to monitor fuel usage, machine downtime and GPS capability to minimise excess materials.

Cloud based project management, H&S and QA portals providing clients with real time visibility on various aspects of the project performance.

Contract management - pricing, invoicing, project management

Ability to have records immediately available at head office. Availability of verification data. As-built information

Cost control, planning

Electronic forms relating to H&S, QA, Records of work, quarry dockets, etc. Full fleet wide fleet tracking

Fleet management & tracking

GPS monitoring and tracking, Fleet maintenance

GPS systems are easy to implement and work with

Information gathering technology. Technology that helps with better decision making.

Innovative ways of tracking and collecting data for future analysis of costs.

Project management software, fleet management software, health and safety software

Real time information on available resources for procurement

We promote everything we use from iDig, to Procore, Engcon etc. We like to promote to our clients that they support us to strive to be our best - i.e. their money is not wasted in using us.

What benefits have you seen from implementing technology? Base Total Sample n=226
Have any of your customers mandated that you must use a certain technology in order to bid for work? Base Total Sample
n=226 IF YES - What technology did they require you to use?
Have you highlighted your use of on-site technology (e.g. fleet tracking, asset tracking, health and safety apps) to win

projects or work? Base Total Sample n=226 IF YES - What aspect of using technology did you promote?



