From:
 Tan, John

 To:
 Sam Ponniah

Cc: 9(2)(a)
Subject: Databook

**Date:** Thursday, 27 May 2021 10:23:30 pm

Attachments: image001.png

image002.png image003.png image004.png image005.png image006.png

Three Waters Economic Impact Assessment Databook.xlsm

Sam

Attached is the file of source data for the charts that you requested John

#### John Tan

Partner | Corporate Finance

Deloitte

Level 12, 20 Customhouse Quay, PO Box 1990, Wellington 6140, New Zealand

D: <sup>9(2)(a)</sup> | M: <sup>9(2)(a)</sup> | O: <sup>9(2)(a)</sup> | F: <sup>9(2)(a)</sup>

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 From:
 Tan, John

 To:
 Sam Ponniah

 Cc:
 Dent, Alan; 9(2)(a)

**Subject:** Final A3

**Date:** Sunday, 30 May 2021 10:59:45 pm

Attachments: image001.png

image002.png image003.png image004.png image005.png image006.png

Final Economic Impact & Affected Industries A3.pdf

#### Sam

Please find attached the final version of the A3 with the last set of comments incorporated Can you please let us know the date that you plan to release the files + the link, so that we can coordinate listing the report on our website at the same time

John

## John Tan

Partner | Corporate Finance

Deloitte

Level 12, 20 Customhouse Quay, PO Box 1990, Wellington 6140, New Zealand

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# Three Waters Industry Development Study and Economic Impact Assessment



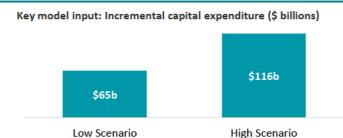
## Why was Deloitte engaged?

# How did we estimate the economic impacts of reform?

Effective Three Waters services are essential to the wellbeing of all New Zealanders. However, New Zealand's Three Waters system is facing major challenges, and will continue to do so without transformational reform. The Government is proposing a package of reforms that would establish a small number of asset-owning multi-regional water service entities, operating with financial and operational autonomy, strengthened governance, improved access to capital markets, and under economic regulation. Deloitte Access Economics 1 has been engaged by the Department of Internal Affairs (DIA) to assess the potential economic impact of the proposed reform package, and to develop an understanding of the opportunities and risks for industries affected by reform.

The economic impact assessment estimates the economic impact of a material step up in investment in connection with reform (the system transformation scenario), relative to the level of investment that might be expected in the absence of reform (the counterfactual scenario). As the counterfactual already includes a large increase in Council spending relative to the status quo, the economic impacts could be greater than the modelling suggests. We have used Computable General Equilibrium (CGE) modelling to estimate the potential economic impact of reform.<sup>2</sup>

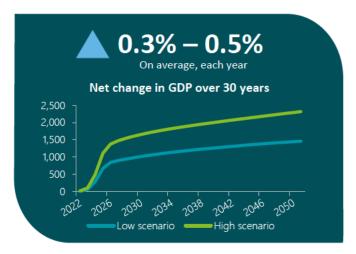




#### National impacts of reform

Regional impacts of reform

Reform enables a substantial increase in GDP, employment, wages and tax revenue, delivering benefits across all corners of the economy. This reflects the fundamental role that water infrastructure and services plays in the economy, and the critical role reforming the system for delivering water services can play in the NZ economy.

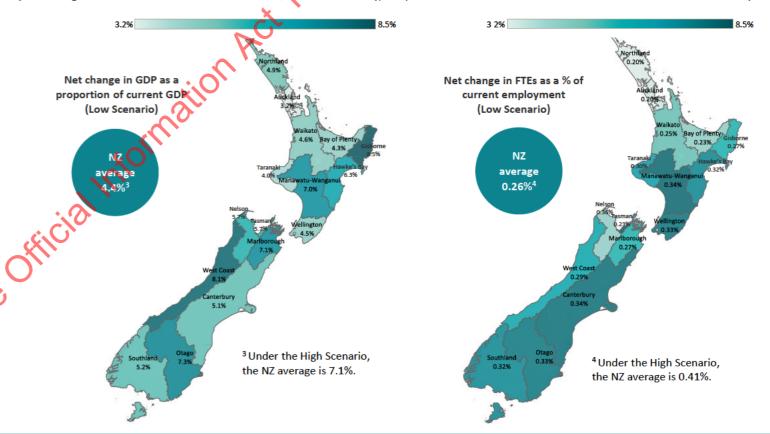








Reform will have a positive impact on all regions. However, to all regions are impacted equally, as shown on the heat maps below. Metropolitan regions experience substantial economic benefits in absolute terms, reflecting their large scale and the current distribution of economic activity in the country. Rural and provincial areas experience significant economic benefits relative to current levels of activity, likely a result of the local nature of much of the investment that will be required.



# Industry impacts of reform

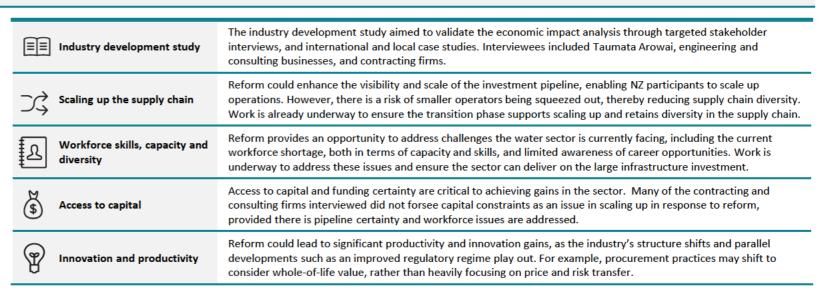
Greatest impact relative to the counterfactual by industry, 2022-2051 - Low Scenario

	Increase in GDP (\$ billions)	Average increase in FTEs
Other Services	5.1	2,934
Business Services	2.5	1,207
Trade	1.5	856
Financial Services	0.7	329
Construction	0.8	422

Reform will have a significant positive impact on all industries, particularly those that are more capital and water intensive. The water sector, like other horizontal sectors of the economy, cuts across a range of industries, including construction, engineering and manufacturing. This increase in activity associated with reform is initially driven by activity in the water delivery sector, and subsequently there are positive flow-on impacts to sectors across NZ.

Isolating the impacts of reform on the water sector is complex, as it involves many different parts of the economy. The present value of the water delivery sector's GDP is expected to increase by \$0.3 billion. Over time the composition of the workforce is expected to change, particularly over the transition period. However, the water delivery workforce is projected to grow by 80% over the 30 year period modelled, from ~9,250 today to ~16,650 employees in 2051.

# Opportunities and challenges of reform for affected industries



<sup>&</sup>lt;sup>2</sup> Our CGE model represents demand and supply relationships in the economy, providing a clear way to trace how a material step-up in investment in the Three Waters sector impacts key variables like GDP.

From: Tan, John Sam Ponniah To:

9(2)(a) Cc: Subject: RE:Databook

Date: Monday, 31 May 2021 1:20:05 pm

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Sam

That's fine. Thanks for checking

Hormation Act Vol Can you also please confirm that DIA are happy for us to publish the report and a3 on put website when you also release it

John

Sent from my iPhone

On 31/05/2021, at 11:50 AM, Sam Ponniah @martinjenkins.co.nz> wrote:

Hi John

We need to share the regional results from the workbook with EY as they are helping with preparing some material for local authority consumption – essentially we are preparing information to help local authorities understand the potential impacts of reform (e.g. stranded overheads, transfer of debt), of which the economic impacts are a subset. Given EY aren't a signatory to DIA's CSO with Deloitte (but come under a separate CSO with relevant confidentiality obligations), I just wanted to check you're comfortable with us sharing the file or that part of it at least with EY.

Cheers Sam

M 9(2)(a)

Sam Ponniah | Senior Consultant

MartinJenkins

From: Tan, John 9(2)(a) @deloitte.co.nz>

Sent: Thursday, 27 May 2021 10:22 PM

9(2)(a)

To: Sam Ponniah 9(2)(a) @martinjenkins.co.nz>

Cc; 9(2)(a) @deloitte.co.nz>; 9(2)(a) 9(2)(a) @deloitte.co.nz>

Subject: Databook

Sam

Attached is the file of source data for the charts that you requested John

John Tan

Partner | Corporate Finance

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From: To: Sam Ponniah; 9(2)(a) Cc: Subject: RE:NBR Enquiry Date: Monday, 28 June 2021 9:19:27 am Attachments: image001.png image002.png image003.png image004.png image005.png image006.png Hi Sam / Simon Do you have any further thoughts on if/how you wish to engage with the NBR John From: Tan, John Sent: Wednesday, 23 June 2021 11:43 AM To: 'Sam Ponniah 9(2)(a) @deloitte.co.nz>; @martinjenkins.co.nz>; 9(2)(a) 9(2)(a) @dia.govt.nz' 9(2)(a) @dia.govt.nz> Cc: 9(2)(a)@deloitte.co.nz>; Nick Davis @dia.govt.nz> Subject: RE: NBR Enquiry Hi Sam / Simon The note from <sup>9(2)(a)</sup> below is all that we have on what NBR have proposed. <sup>9(2)(a)</sup> tried to enquire further, but <sup>9(2)</sup> did not provide any further detail John From: Sam Ponniah < 9(2)(a) Sent: Wednesday, 23 June 2021 11:34 AM **To:** Tan, John <sup>9(2)(a)</sup> @deloitte.co.nz>: @deloitte.co.nz> Cc: 9(2)(a)deloitte.co.nz>; Nick Davis 9(2)(a) @dia.govt.nz> Subject: [EXT] RE: NBR Enquiry Hi all John, if you can forward (9(2)(a) enquiry to Simon Cunliffe (9(2)(a) @dia.govt.nz) in the first instance as he is the comms lead at DIA. I've let him know this is coming. We can then decide how we engage Cheers Sam Sam Ponniah Senior Consultant MartinJenkins M 9(2)(a) + 9(2)(a) From: Tan, John 9(2)(a) @deloitte.co.nz> **Sent:** Wednesday, 23 June 2021 11:28 AM **To:** 9(2)(a)@deloitte.co.nz>; Sam Ponniah 9(2)(a) @martinjenkins.co.nz>  $Cc: \frac{9(2)(a)}{a}$ @deloitte.co.nz>; Nick Davis 9(2)(a) @dia.govt.nz> Subject: RE:NBR Enquiry Thanks<sup>9(2)(a)</sup> Sam – We have made aware of the media protocols that we have agreed and will await your input on how/whether DIA would prefer to engage on this John

@deloitte.co.nz>

From: 9(2)(a)

Sent: Wednesday, 23 June 2021 11:14 AM To: Sam Ponniah 9(2)(a) @martinjenkins.co.nz>; Tan, John <sup>9(2)(a)</sup> @deloitte.co.nz> Cc: 9(2)(a)@deloitte.co.nz>; Nick Davis 9(2)(a) @dia.govt.nz> Subject: RE: NBR Enquiry Hi all. I have spoken with <sup>9(2)(a)</sup> who is the co-editor of the NBR and is the journalist looking to write the article. He wishes to have more of a technical discussion about the report (rather than the report in a broader context) and talk to the underlying analysis which led to the assumptions being Sn Act 1982 reported. Kind regards, 9(2)(a) From: Sam Ponniah 9(2)(a) @martinienkins.co.nz> Sent: Wednesday, 23 June 2021 10:25 am **To:** Tan, John <sup>9(2)(a)</sup> @deloitte.co.nz> Cc: 9(2)(a)@deloitte.co.nz>; Nick Davis <sup>9(2)(a)</sup> Subject: [EXT] RE: NBR Enquiry Thanks for the heads up John. Do forward us the enquiry once you receive further detail so we can icialInti determine the best course of action. Cheers Sam Sam Ponniah | Senior Consultant MartinJenkins M 9(2)(a) From: Tan. John 9(2)(a) @deloitte.co.r Sent: Wednesday, 23 June 2021 10:19AM To: Sam Ponniah 9(2)(a) @martinienkins.co.nz>  $Cc: \frac{9(2)(a)}{a}$ @deloitte.co.nz>: 9(2)(a) @deloitte.co.nz **Subject:** NBR Enquiry Hi Sam from our Comms team received an enquiry from <sup>9(2)(a)</sup> , co-editor at the NBR, on the 3W work. I have asked our team to find out a bit more about what they wish to discuss, noting that we agreed to pre-clear any media enquiries with DIA before we agreed to comment further. I will forward the nature of the enquiry when I know more, but this is a heads up Regards John John Tan Partner | Corporate Finance Deloitte Level 12, 20 Customhouse Quay, PO Box 1990, Wellington 6140, New Zealand  $M: \frac{9(2)(a)}{a}$ O: 9(2)(a) 

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