

Lessons learned from one of New Zealand's most challenging civil engineering projects: rebuilding the earthquake damaged pipes, roads, bridges and retaining walls in the city of Christchurch 2011 - 2016.

APEC workshop presentation

- **Story:** Women in Construction
- Theme: People and Culture

A presentation which outlines SCIRT's approach to raising the visibility of and enabling women working in construction across the SCIRT programme.

This document has been provided as an example of a tool that might be useful for other organisations undertaking complex disaster recovery or infrastructure rebuild programmes.

For more information about this document, visit www.scirtlearninglegacy.org.nz













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Programme funded by
New Zealand Government





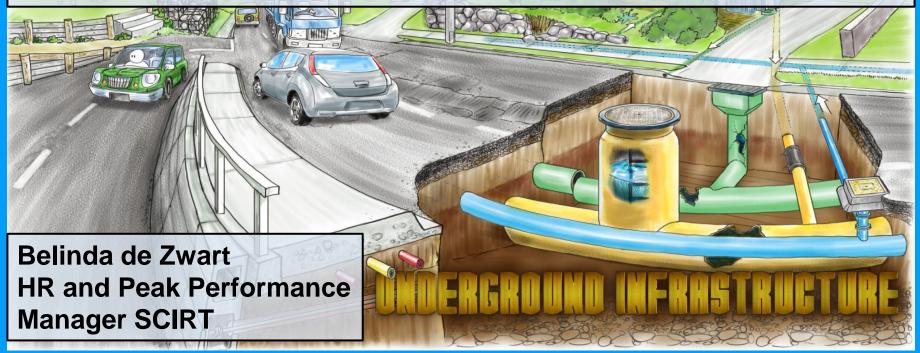


Fulton Hogan



APEC Workshop 18th March

"Good Practices of Women's Entrepreneurship in Local Communities in the Process of Disaster Reconstruction"









WOMEN IN CONSTRUCTION:

"It's a Good Fit"





New Zealand







Christchurch





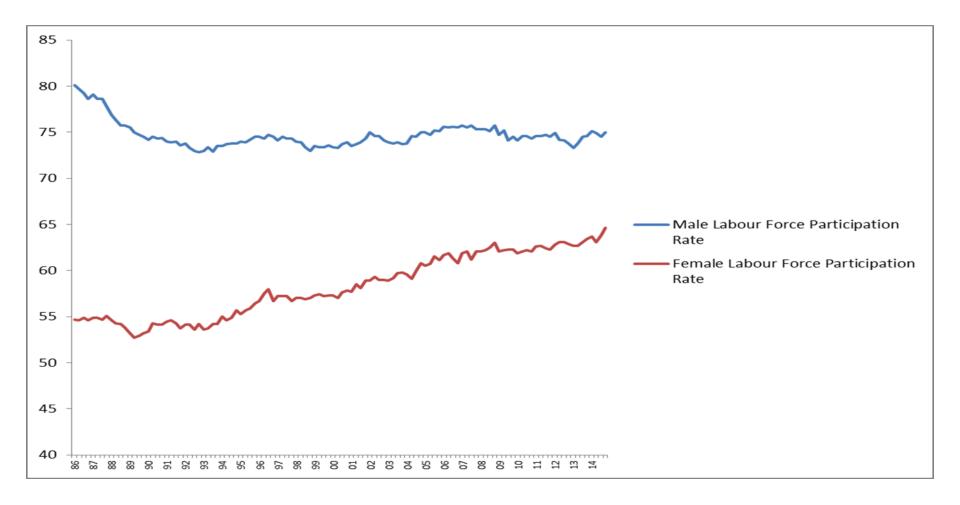


WOMEN AND WORK IN NZ The Context





Growing female labour force participation







Air hostess still features as a top career choice for girls



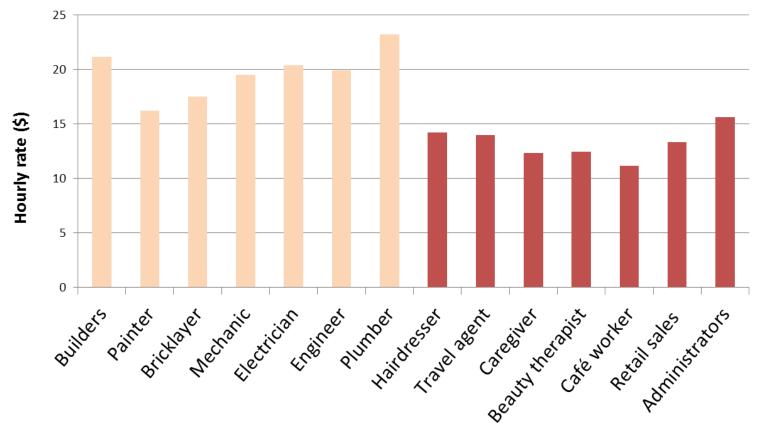
Source: AUT University for Ministry of Women's Affairs (2010) Students' Occupational Choice Study: Auckland and Dunedin





There are differences in the pay of male and female dominated occupations

Median Hourly Qualified Wages

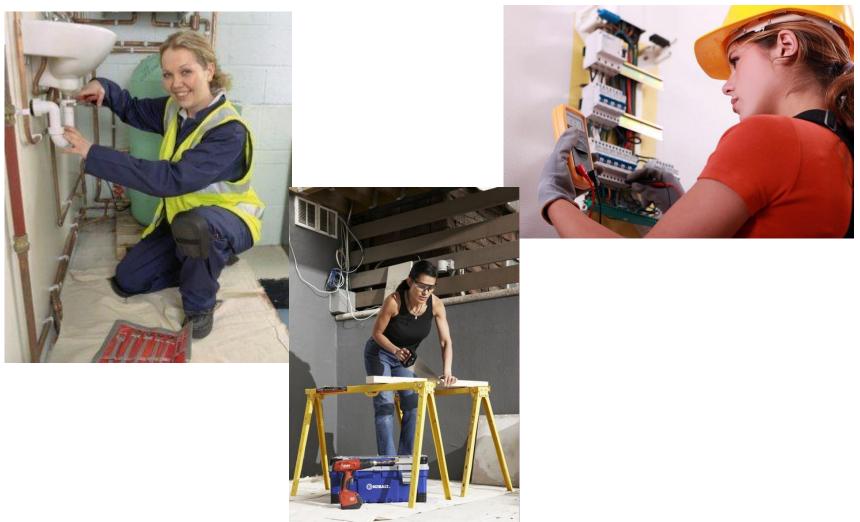


Source: Reward consultants for Ministry of Women's Affairs, Research on Wages and Costs of Education and Training, 2006





Women in trades 1%

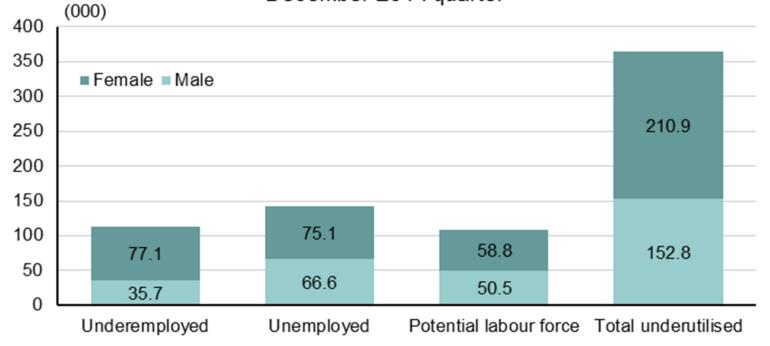






Women are more likely to be 'underutilised'

Underutilisation by sex December 2014 quarter







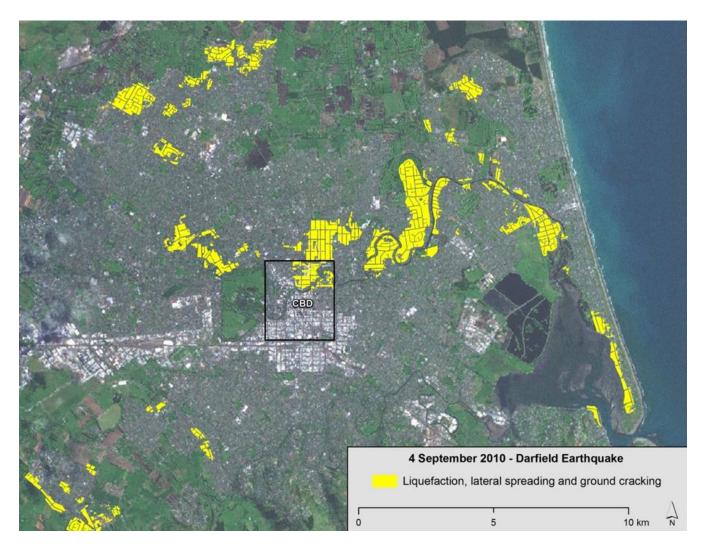
Source: Statistics New Zealand

THE CHRISTCHURCH EARTHQUAKES





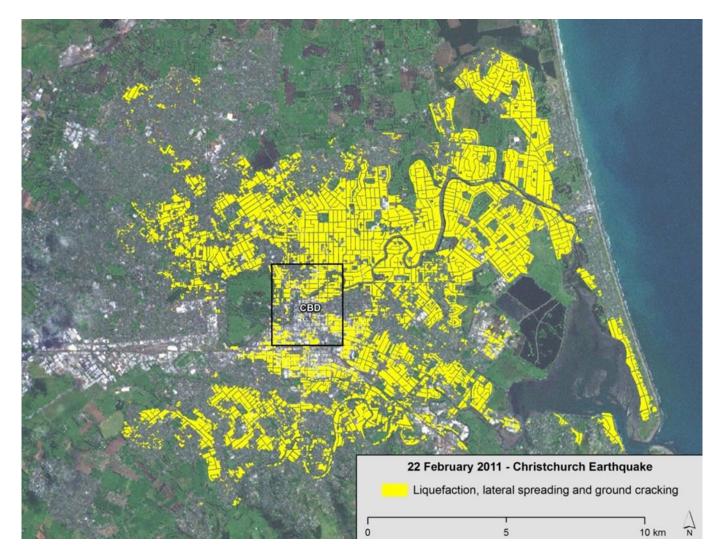
Earthquake Impact September 2010







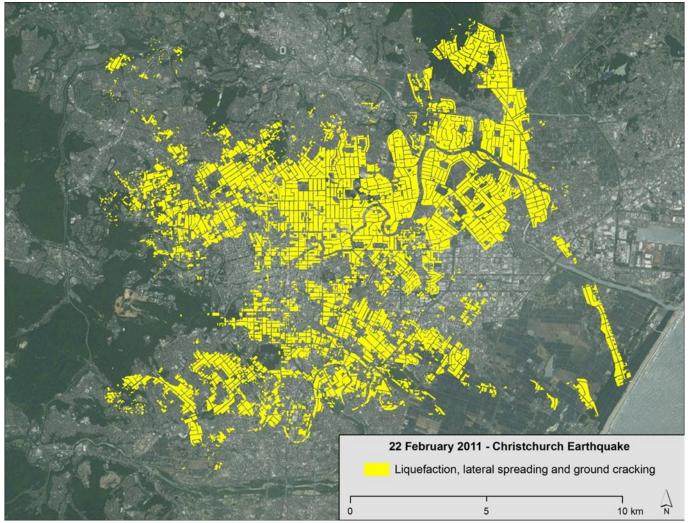
Earthquake Impact February 2011







What that would look like in Sendai







Christchurch City...Before







Christchurch City....During



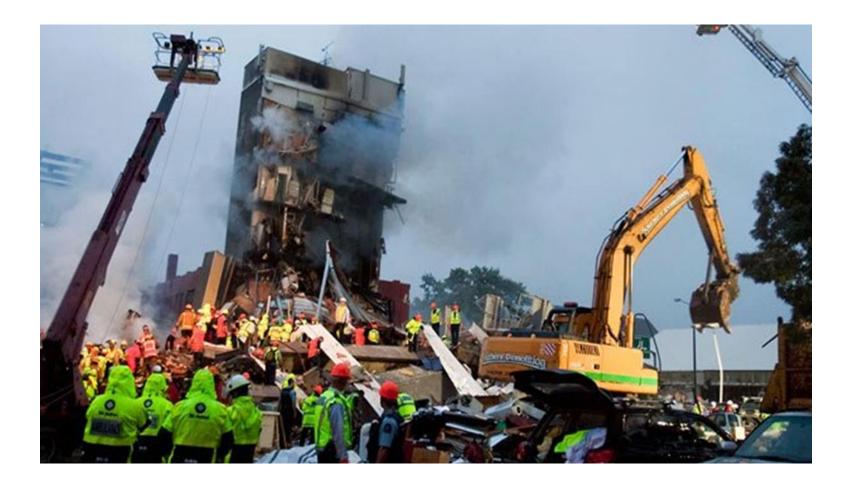






















Overseas Help





























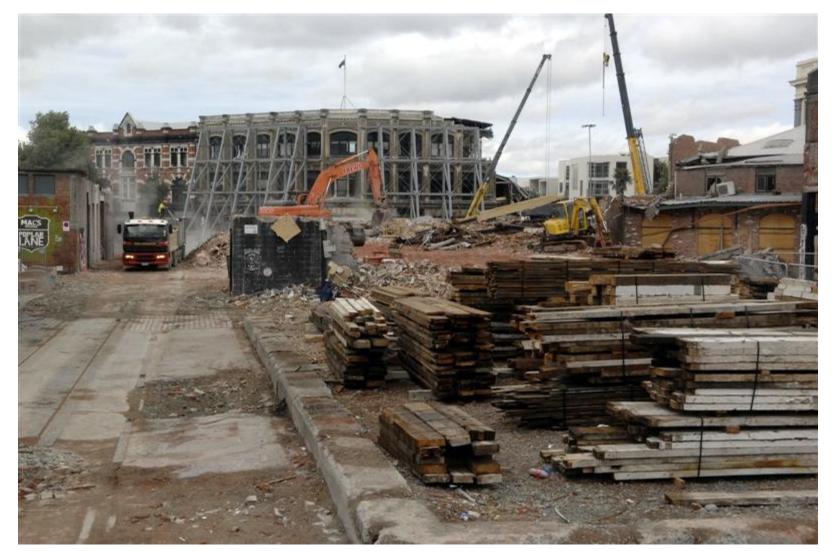


WOMEN IN CONSTRUCTION Collaboration in Christchurch





The Rebuild begins: Supply v Demand







Women's Views Captured



Building back better: Utilising women's labour in the Canterbury recovery

A research report by Research First for the Ministry of Women's Affairs

> Ministry of Women's Atfairs August 2013







- > 50% would consider rebuild jobs
- Construction seen as 'jobs for men'
- Access to information?
- Access to Training
- Good Money
- Flexible Work





Women in Construction Forums







Activities

celebrating VONEN in construction

Photos by Toya Heatley (Digitalpix), Cathy Tracey & Margaret Yiannoutsos

An exhibition documenting and celebrating the contributions of women to the construction industry.

This exhibition creates a photographic montage of women in many of the disciplines within construction, and forms a backdrop of information and support, encouragement, appreciation and celebration of the diverse skills that they, alongside their male colleagues, contribute to the building and construction industry.

> presented by National Association of Women in Construction











Activities – Accessible Training

FREE trades training for women and anyone under 25*

Find out more >

*Conditions apply



FREE trades holiday workshops for Years 11 – 13

Get a taste for construction, plumbing, electrical and engineering trades.

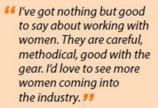




Activities – Accessibility for Employers







Peter Turner, Managing Director, Peter Turner Contracting





how to attract women to your jobs





Activities - Accessibility for Women







Activities - Recognition







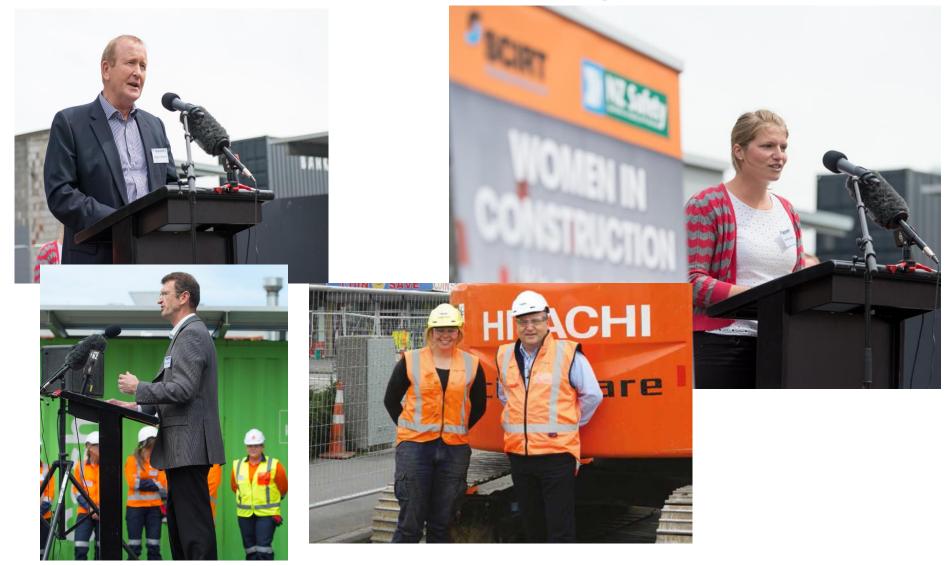
Activities – Leadership







Activities – Leadership







WOMEN IN CONSTRUCTION Raising the Visibility













SCIRT

Women in the recover



Discrete Holland Occupation: Brickles labourer, T G Brick & Block Breast Holland has been working as a brickle for about from working has working in the outklears and desrift mine working hard. Bhuese says there was a bit of training but is mostly common serves.

What does working in the recovery mean to her? "We do a lot of lences and walls and people are just really abled to have their freques back up. Owners will come round and you can see the sneer joy on their laces, after years and years of walling."

"Encourage any woman to work in the recovery – wome and young girls leaving schoot. There's pterty of training out there for lots of different trades, Just go for It, it's not that internidating, five noiver had a negative word,"

Building back better

As the rebuild gains momentum, demand for control of the second s

The mesench (fuelding back better: Ulifieing women's labous in the Canterbury recovery to based on a survey of 500 women. About half the respondents were unemployed but not receiving a benefit; the remainder were working but indecated they would be open to changing occupation.

The research found that the top three factors that would encourage women to consider any job in the rebuild were flexible hours and environment; good pay; and more information about robuild opportunities.

Spotlight on the

next stage of the

Avon River Precinct

CERA

Tessa Flaws Occupation: Engineering design coordinator, Stronger Christchurch Infrastructure Rebuild Tessa's Current position is assisting SCIRT's design

Testa's current position is assisting BCIPT's design manager with overall delivery of \$100 million (project coal estimate) of engineering cancelot and detailed design each menth. Testa coordinates activities between BCIPT's four design teams (176 designen) and other teams.

What does working in the recovery mean to her? "There's a real purpose to your dialy work – everyone has this intered goal to get the city back on its feet and we are all working in the same direction."

Over hall the women surveyed were not opposed to rebuild positions, tsut many had not considered these jobs, or were not sure how to access them, Women eew construction jobs as 'jobs for mar', 'that kind of idea is what the Ministry of Women's Affairs is keen to see deburked.

SCIRT design engineer Jeanette White sees rebuild work as something anyone can do. She says the greater Christohunch robuid is the biggest olve engineering project ever undertaken in New Zestand's history. "Why would you not want to be a part of that? I've never been one to all on the side-line and it's an exciting, once in a life time opportunity to be a part of a team that is reshaping a whole city."

Ministry Chief Executive Dr Jo Cribb says making the most of the temate labour force in the construction sector reay mean changing employer practice, including reconstrient; providing more information about rebuild eccupations; and encouraging woman to train or retrain.



Aticla Janssen Occupation: Site Traffic Managen SCIIIT's Downer team Aticia has been working in traffic man or four years bui followed the work for Christelburch about two years ago. In layout plens to manage braffic white or underway. Also the manufacture of the underway. Also and the state of the underway. Also and the state of the popied on the these freed in the

What does working in the recover "It's avectome. You go to a road initial damaged. After you've spent guite a do all the ketbing and channeling an People come out and any "thank you

"For women thinking about working in go for it. It's 2013. There's no reason here doing it. There's heaps of us, We

For women looking to get started in the Canterbury

Christchurch Polytechnic Institu (CPIT) is offering women free tu Track and Engineering program To find out more about CPIT's e of programmes, go to www.ep call 0600 24 24 76.

Contact the Canterbury Skills a
 Hub at www.opportunitycant

For a copy of the full research repe better: Utilizing women's labour in recovery as well as a summary of t go to: www.mwa.govt.nz O

Earthquake A -support for Canterbury c

New Zealand Government

0800 RING CERA | 0800 7464 2372 | Fax [03] 963 6382 | www.cere.govc.nz

New central city

art revealed

women in neon High-vis vests aren't just for big, burly merc

women are increasingly taking up roles in city back on its feet.

> Words Pattie Pegler Photos Danielle Colvin







16 care



CERA

Christchurch

city∳care

#Downer

Fulton Hogan DOWELL

#Fletcher

ministry for Women ^{Minitatanga mõ}ngā Wähine









WOMEN IN CONSTRUCTION Results





Positive

MEASURE	BEFORE		NOW	
	Year	No.	Year	No.
Number of women enrolled in Trades Training (CPIT)	2011	60	2014	414
Women employed in construction in Christchurch *	2009	2,400	2014	8,000
Percentage of Women in Construction in Christchurch*	2009	9.3	2014	16
Number of women in trades roles in SCIRT	2013	20	2014	30
NZ Construction UN Women's Empowerment Principles Signatories	2013	1	2014	4





WOMEN IN CONSTRUCTION

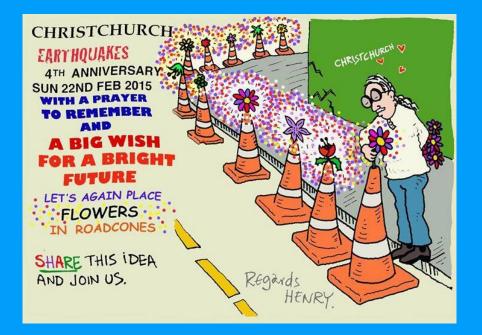
Where to From Here ?







IT ALL STARTS WITH ONE









IT ALL STARTS WITH ONE

後年の内部の方をつ

1011年9月11日に、運転上の三角ローンの上に花を 前えるしょう。 会をこくされた方々のために、愛する書をごくした方々の ために、そしてそれらの女会がまた所でように起ることが ないことを思ぶために。

このアイディアを分から会い、自己加かって下点い、 業務が高い出すのを取けましょう。

オライストティーナのヘンヨーから重き込めて 和白の味から重き込めて





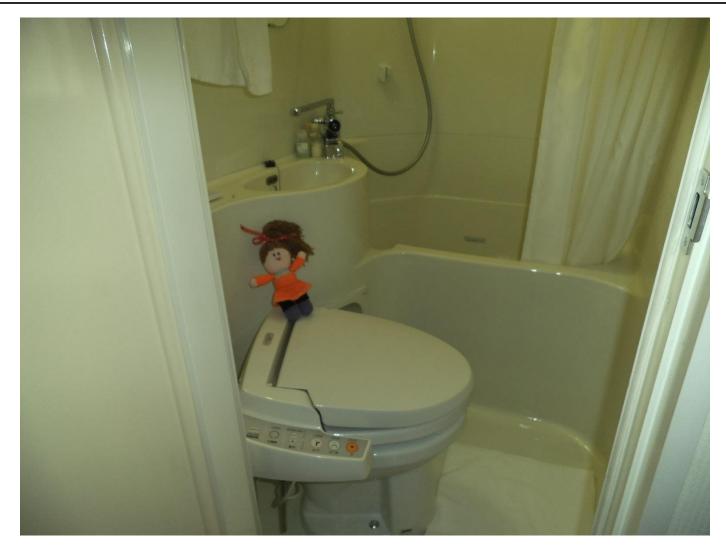


IT ALL STARTS WITH ONE....





Impressions of Japan















Impressions of Japan - Compact













Impressions of Japan – ultra organised











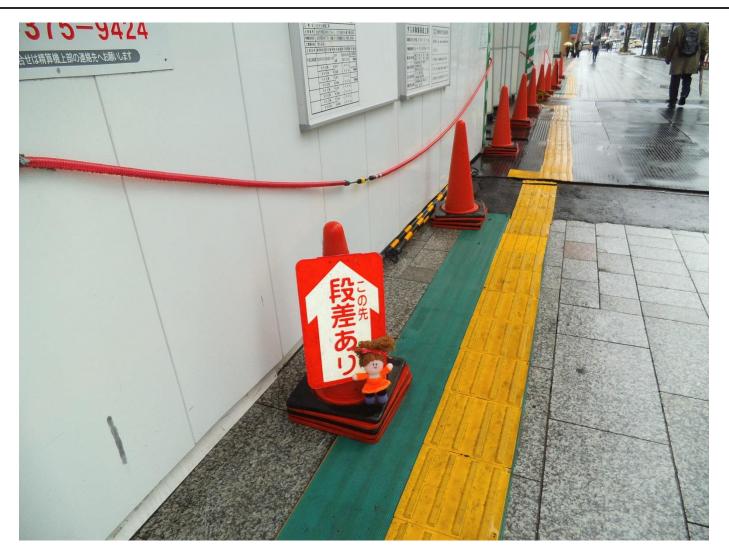


Impressions of Japan – A country of Contrasts





Japan Roadworks = ultra organised













Japan Roadworks – Ultra organised













UNWDRR













Pietcher

Presenting at the Public Forum













Presenting on the Panel











city¢care \\Downer





Pietcher

The Panel – Impressive Women













Other Disaster Perspectives













Strong Interest from Japan in Women in Construction











