







AGENDA

- Welcome Robin Mellon
- Project Overview Neil Ivison
- Sydney Metro Sustainability Objectives Fil Cerone
- Australian Supply Chain Sustainability School Robin Mellon
- JHLOR JV Supplier Evaluation Process Neal Barron
- Project Social Sustainability Objectives Maxine Sacre
- Apprentice and Trainee Assistance James Moran
- Energy, Materials, Water and Waste Objectives Vereine Masson
- Social Enterprise Clean Force



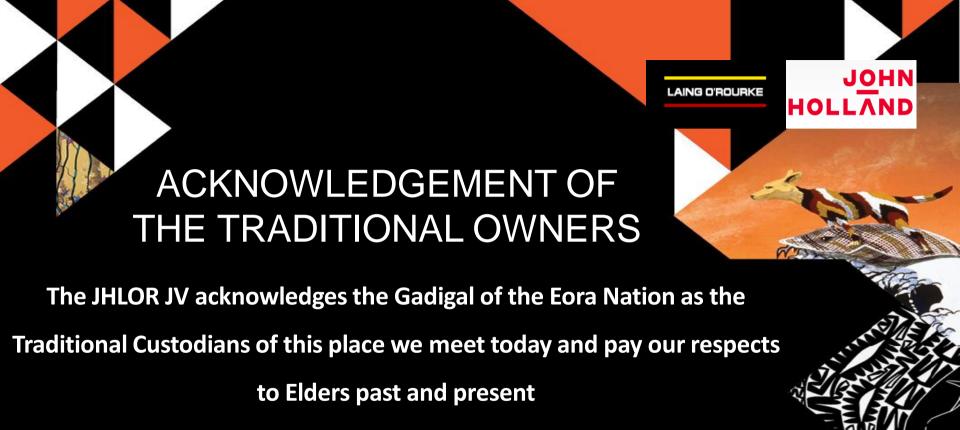


WELCOME

Robin Mellon

Chief Executive Officer

Australian Supply Chain Sustainability School







PROJECT OVERVIEW

Neil Ivison
Project Director

JHLOR JV







SYDNEY METRO SUSTAINABILITY OBJECTIVES

Fil Cerone

Director of Sustainability, Environment and Planning- City & Southwest, Sydney Metro

Sydney Metro







Project Overview

SYDENHAM STATION UPGRADE - PART OF THE SYDNEY METRO NETWORK

Sydney Metro is Australia's biggest public transport project, made up of;

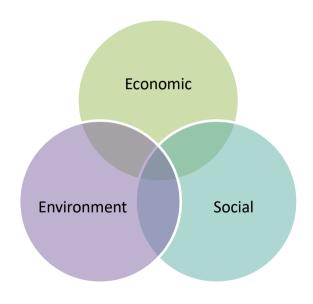
- Sydney Metro Northwest under construction and will open in the first half of 2019.
- Sydney Metro City & Southwest –
 construction has started on the 30kilometre metro line extending metro
 rail from Chatswood under Sydney
 Harbour, through new CBD stations
 and south west to Bankstown.
- Sydney Metro West proposed to be delivered by the second half of the 2020s. This project would link the CBDs of Parramatta and Sydney and communities along the way.



Good business sense

WHY THE INDUSTRY SHOULD FOCUS ON SUSTAINABILITY

- Efficiency generates cost savings
- Improve ability to win tenders
- Compliance with current and emerging legislation
- Delivering benefits for stakeholders, the environment and the community
- Improved reputation

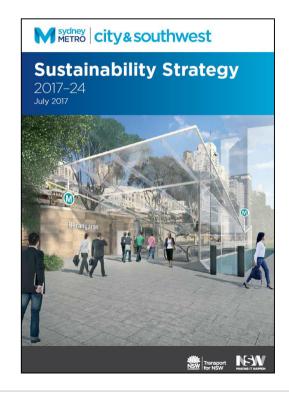


Sustainability Strategy

CITY & SOUTHWEST

- Sydney Metro has a clear vision to demonstrate best-practice environmental, social and economic outcomes in delivery and operation.
- We have environmental and socio-economic contractual requirements on our Principal Contractors and other partners that are beyond 'business as usual' and work collaboratively to deliver these positive outcomes.
- Relevant requirements are passed down the supply chain, setting a new benchmark for the construction industry.

For Sydney Metro, 'sustainability' means optimising environmental and social outcomes, transport service quality, and cost effectiveness.



Sustainability objectives



Governance

33% of water used in

construction is from

non-potable water sources

Recycling waste &

reusing spoil

Encouraging

participation of

social enterprises

and workforce

development



Climate change resilience



Carbon & energy management



Pollution control



Water efficiency



Waste & materials consumption



Biodiversity conservation



Heritage conservation



Liveability



Community benefit



Workforce development



Supply chain

Selection of low impact materials

Energy efficient products & construction methodologies

Procuring materials in accordance with human rights and environmental standards





Slide 12



SUSTAINABILITY STRATEGY HIGHLIGHTS

Construction

During tunnelling activities, the total excavated spoil (2.4 million cubic metres) could fill Darling Harbour twice



clean spoll will be beneficially reused _____



of construction and demolition Waste will be recycled



25% reduction In Portland cement in concrete, saving the equilvalent

carbon emissions of planting 784,000 trees

Offsetting 25% of construction electricity will reduce carbon emissions by the equivalent of planting



Operations

100 households

(20,000kL) of water usage per year will be saved through

the Project's use of water efficient flxtures and rainwater harvesting





Onsite solar panel

renewable energy systems at stations will be sufficient to power up to

200 households (1280MWh)



Improved pedestrian and cycling connections will make walking and cycling easier, resulting in health benefits

Secure access and covered bicycle parking spaces will be provided



100%

of timber products will be from reused, recycled or responsibly managed sources



of the operational electricity needs for the

project will be offset (which is an estimated 221 Gigawatt hours a year). This will be the equivalent to the energy generated by 1.1 million solar panels (240 hectares solar plant) or 40 wind turbines





Station energy performance

improvements (such as lighting systems and efficient glazing) will save the equivalent electricity consumption of approximately

610 households a year



Accurate May 2017 (subject to change and pending confirmation in the detailed design process

SYDNEY METRO CITY & SOUTHWEST

SUSTAINABILITY STRATEGY 2017-24







Questions

Find the Sustainability Strategy by searching the document library on our website or via the link below:

https://www.sydneymetro.info/sites/default/files/documentlibrary/Sydney%20Metro%20City%20%26%20Southwest%20Sustainability%2 0Strategy 1.pdf











AUSTRALIAN SUPPLY CHAIN SUSTAINABILITY SCHOOL

Robin Mellon

Chief Executive Officer

Work in 'sustainability'

Is it about 'being green'?



Is it about saving money?

Is it about using less materials?



Is it about still being in business in 5 years time?



Broadening from the more 'traditional' definitions about environmental sustainability

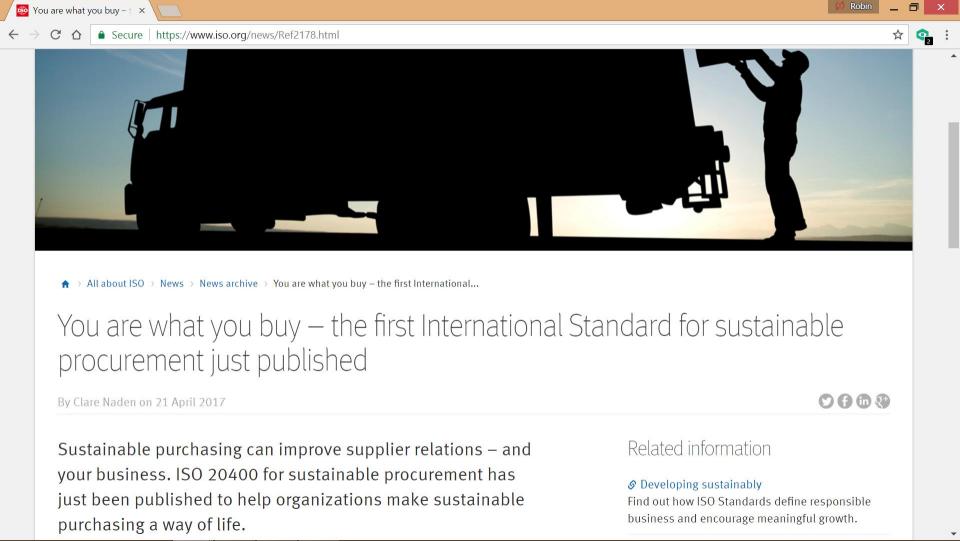






Steady increase in focus on economic sustainability, risk management and resilience







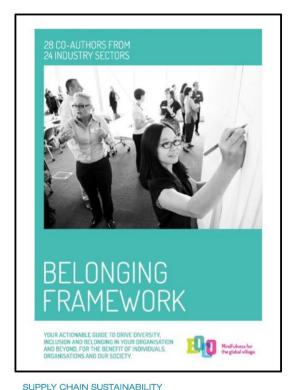




Social sustainability: Health and wellbeing Fairness, Inclusion & Respect **Diversity & Inclusion Indigenous Procurement Local Procurement** Social value & social enterprise **Human rights & modern** slavery









Health & wellbeing; projects, occupants and supply chains





Modern Slavery in Australian property, construction and infrastructure supply chains Understanding the risks and relevance January 2018



Interesting to note how key rating tools have evolved:

- Blunt to complex
- Voluntary to mandatory
- Following to leading





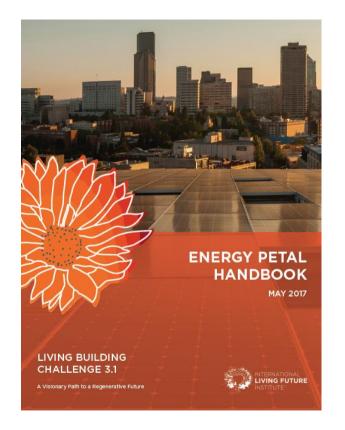






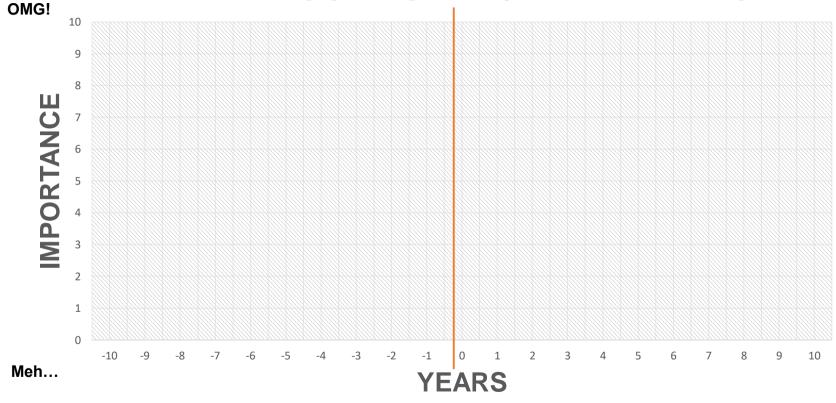






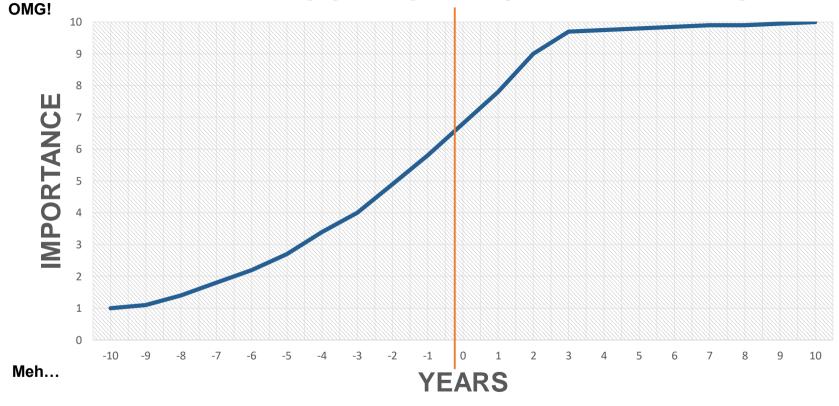


TREND ANALYSIS - LAST TEN / NEXT TEN YEARS



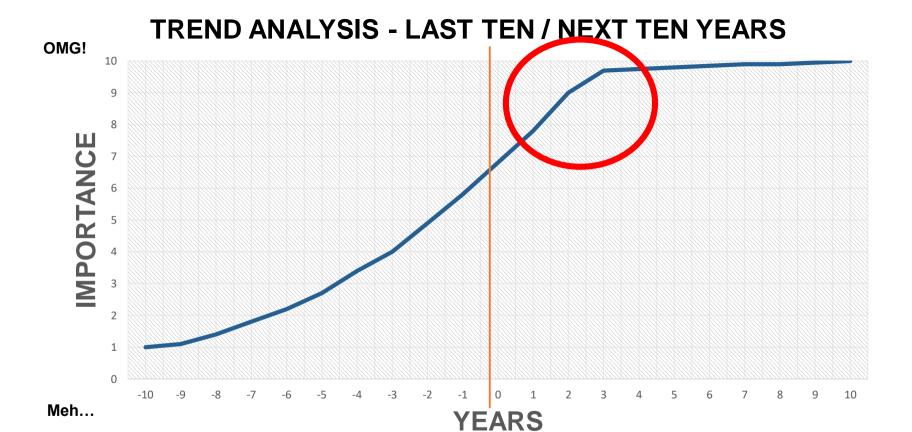


TREND ANALYSIS - LAST TEN / NEXT TEN YEARS





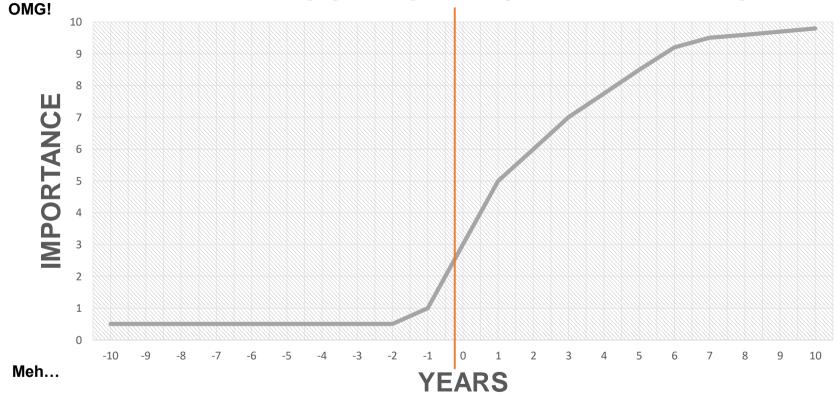
TECHNOLOGY, DATA & BLOCKCHAIN





TECHNOLOGY, DATA & BLOCKCHAIN

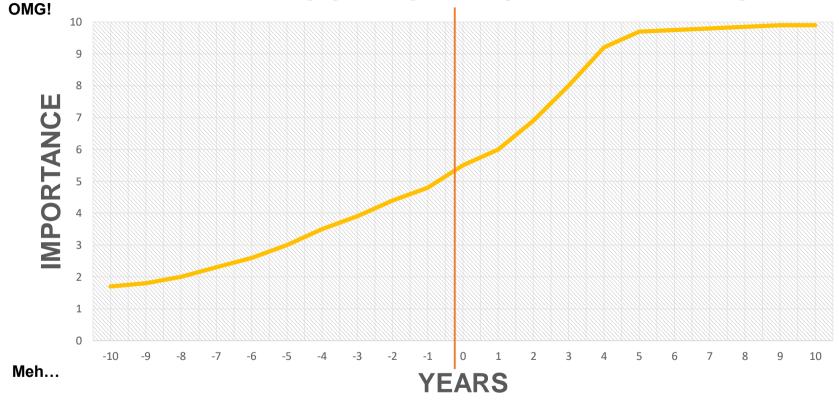
TREND ANALYSIS - LAST TEN / NEXT TEN YEARS





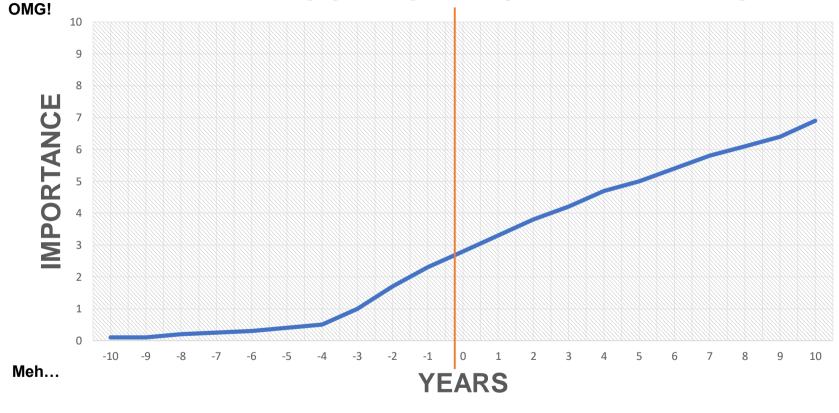
——HUMAN RIGHTS & MODERN SLAVERY

TREND ANALYSIS - LAST TEN / NEXT TEN YEARS



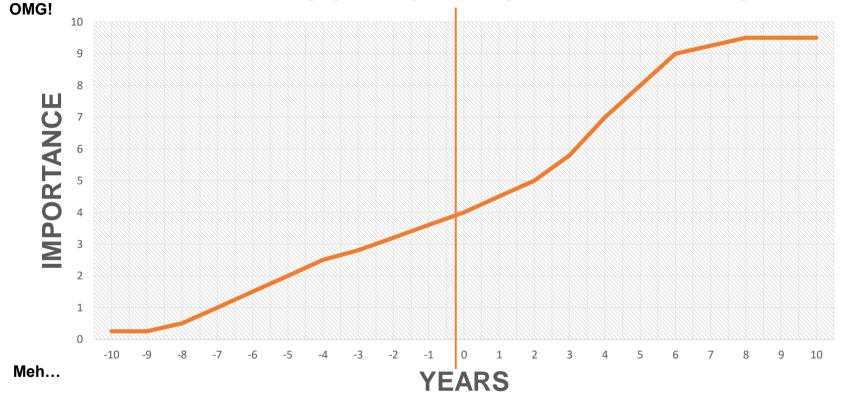


-MATERIALS, WASTE & RECYCLING



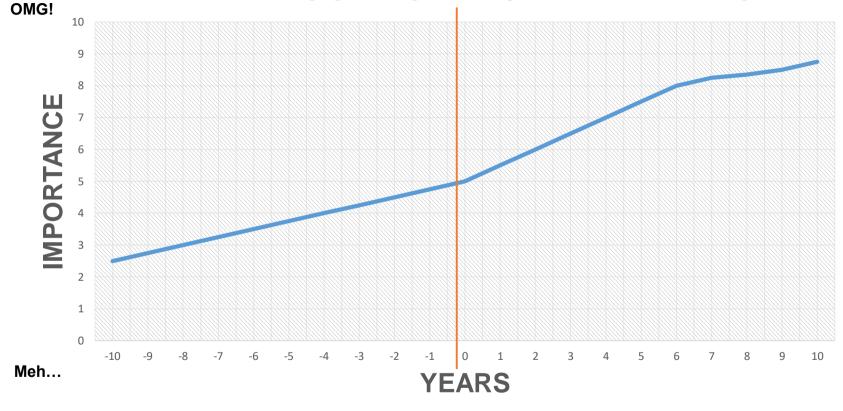


SUPPLIER DIVERSITY



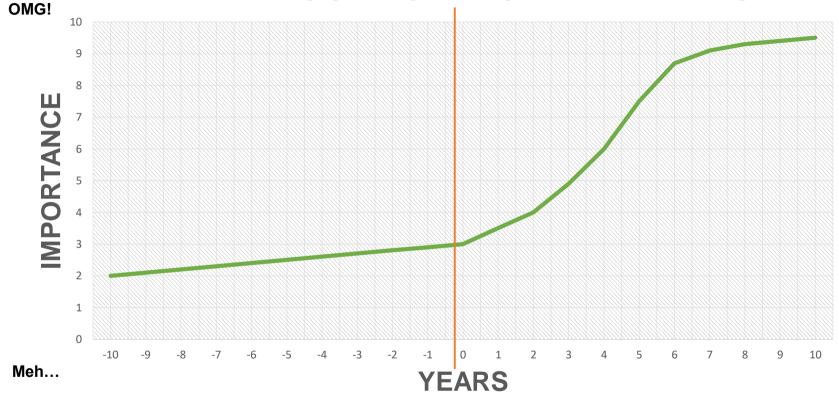


---HEALTH & WELLBEING



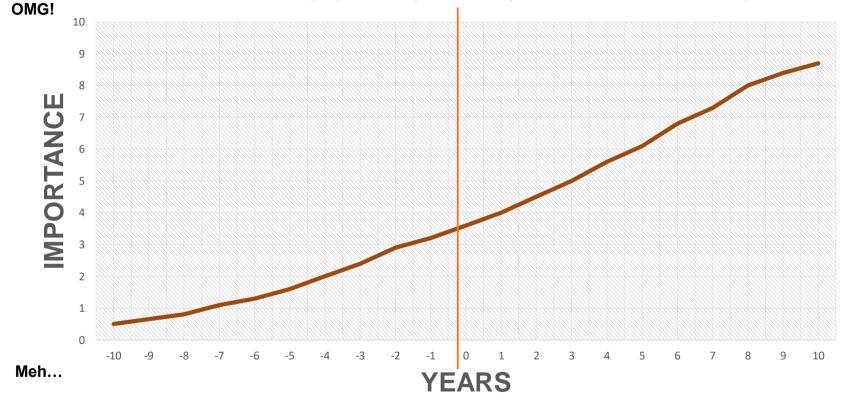


CARBON, ENERGY & EMISSIONS



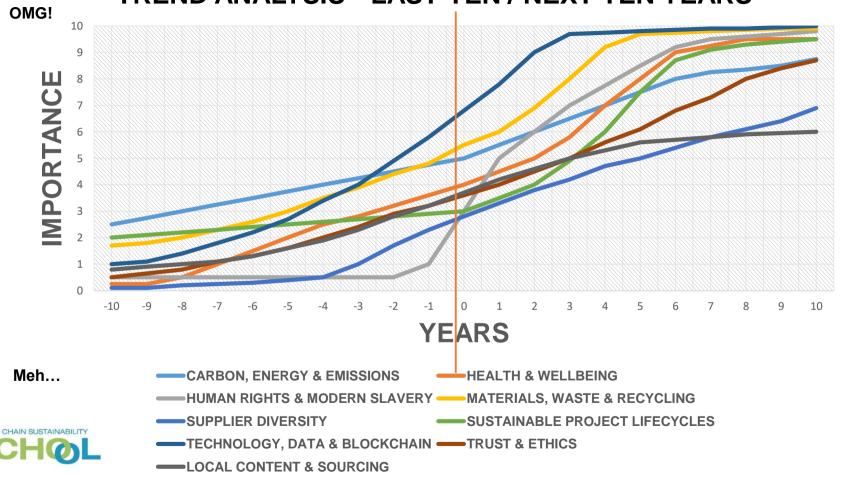


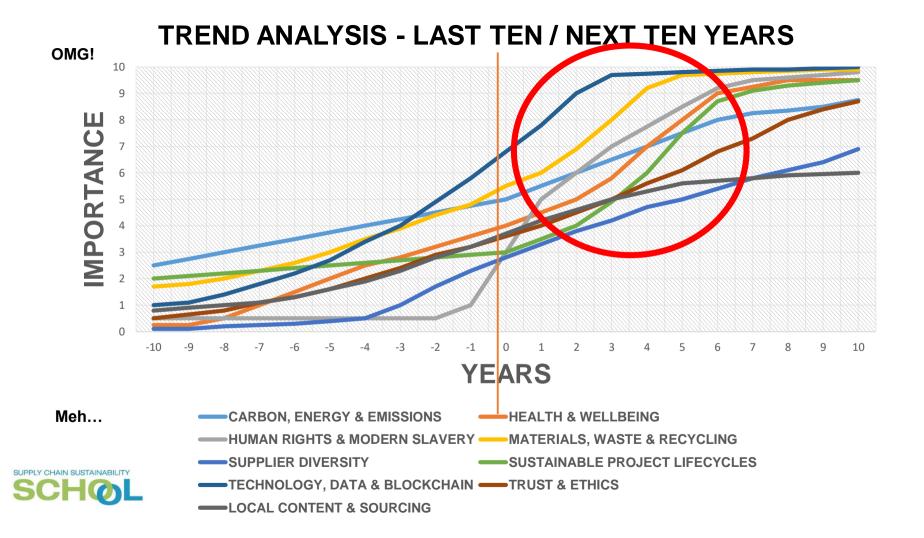
—SUSTAINABLE PROJECT LIFECYCLES

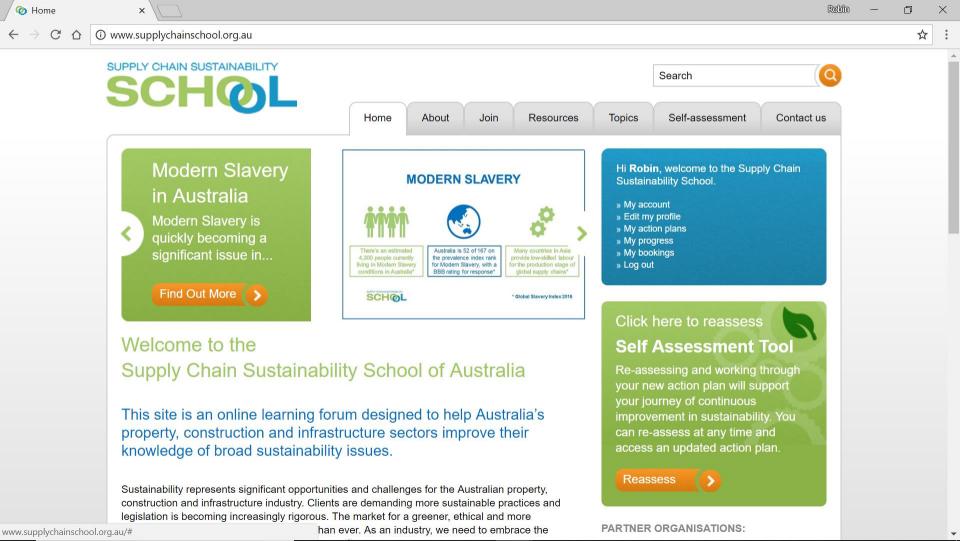




TRUST & ETHICS









Launched in UK 2012 Same simple business model Launched in Australia 2015 **EY hosting the School** 20 partner organisations **1,410+ members** 805+ unique companies 340+ free learning resources



































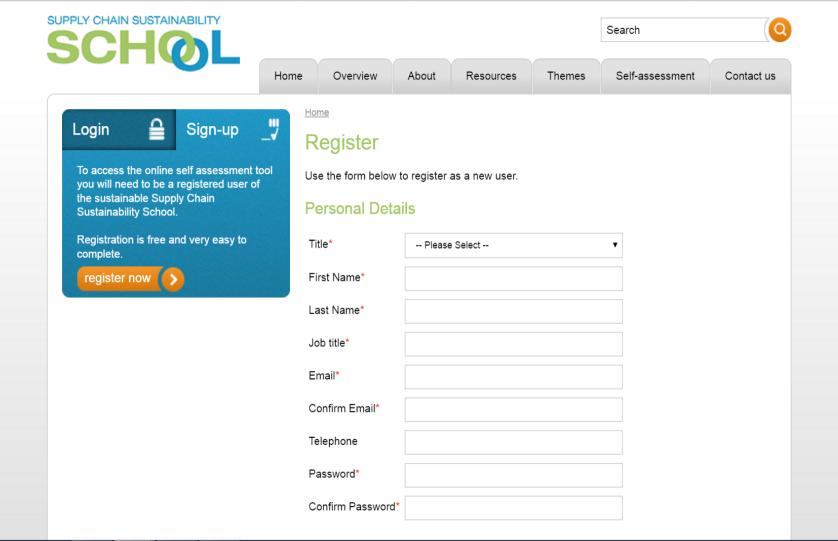


Our ten current key sustainability themes









Home Overview About Resources Themes Self-assessment Contact us

Home > My account > Self Assessment Action Pan > Details

Hi **RD**, welcome to Better Sydney's account area

My account

Edit my profile

Add colleague

Update categories

My action plans

My progress

My bookings

Levels of recognition

Log out

My account

Welcome RD to your Supply Chain Sustainability School account – you are now a member of the School. Once you have completed your self assessment you will be able to access all the resources offered through the School as well as attend training events. Its important when you are doing your self assessment that you answer on behalf of your company or business unit, not as an individual.

To allow colleagues to share access to this account and access the School's resources simply add a colleague.

To get started you need to work through the self assessment. This will take approximately 30 minutes, and will result in the development of a bespoke action plan for your organisation. This action plan will signpost you to a range of training and resources best suited to your needs.

The self assessment is entirely confidential and the information will not be shared. For more details about the self assessment click here or simply follow the step-by-step guide and complete the self assessment by clicking here.

You can re-assess at any time and an updated action plan will be produced each time you complete the self-assessment. Please note that when you reassess you will be asked to provide some evidence to support your progress.

The resources are provided free of charge, so please only use these resources for the development of your own business and do not use for other commercial purposes.

New Self Assessment



Search

Home Overview About Resources Themes Self-assessment Contact us

Hi **RD**, welcome to Better Sydney's account area.

My account

Edit my profile
Add colleague

Update categories

My action plans

My progress

My bookings

Levels of recognition

Log out

2 32

Home) My account) Self Assessment Action Pan) Details

Self assessment

Please respond to each question using the self-assessment rating scale detailed below. For more information please click on the 0 image found to the right of each question.



- 1) No knowledge
- 2) Understand the basic principles but would like to know more
- 3) Have a good working knowledge but not fully applied in my business
- 4) Full working knowledge and fully applied in my business
- 5) Leader with expert knowledge to share

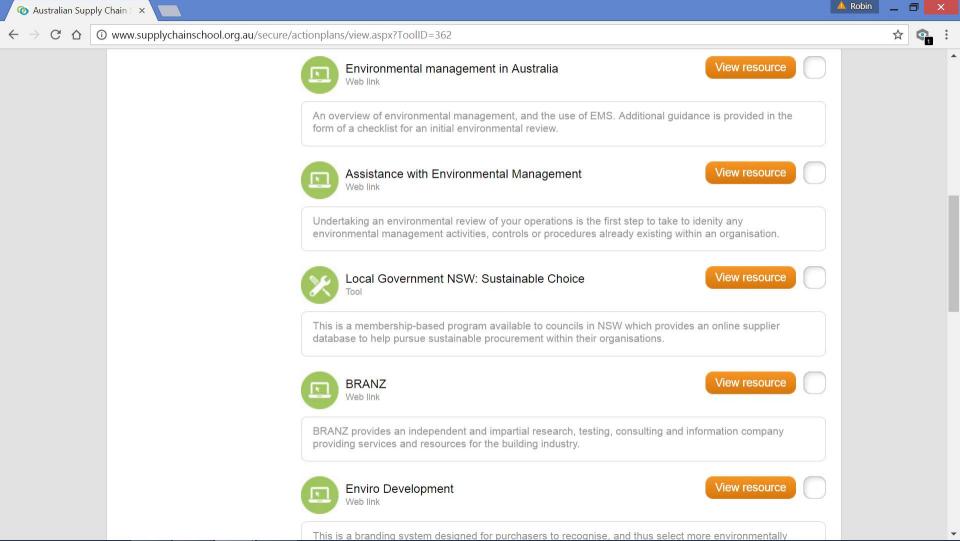
Remember the self assessment tool is confidential and your results will not be shared with any third parties.

Sustainable construction

Environmental management

Materials







Home

Overview

About

Resources

Themes

Self-assessment

Contact us

Resources

Supplier Days

Training Workshops

E-learning Modules

Additional Online Resources

News

Member Newsletters



Social Procurement



Watch Video

Home > Resources > E-learning Modules



Beginners



Time1 hour

Sustainable Construction
This module will discuss the



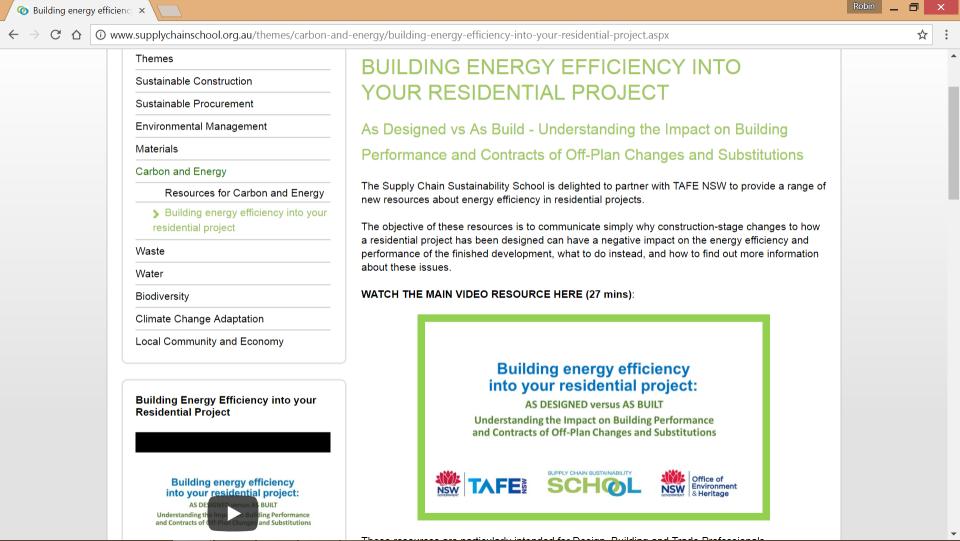
Time1 hour

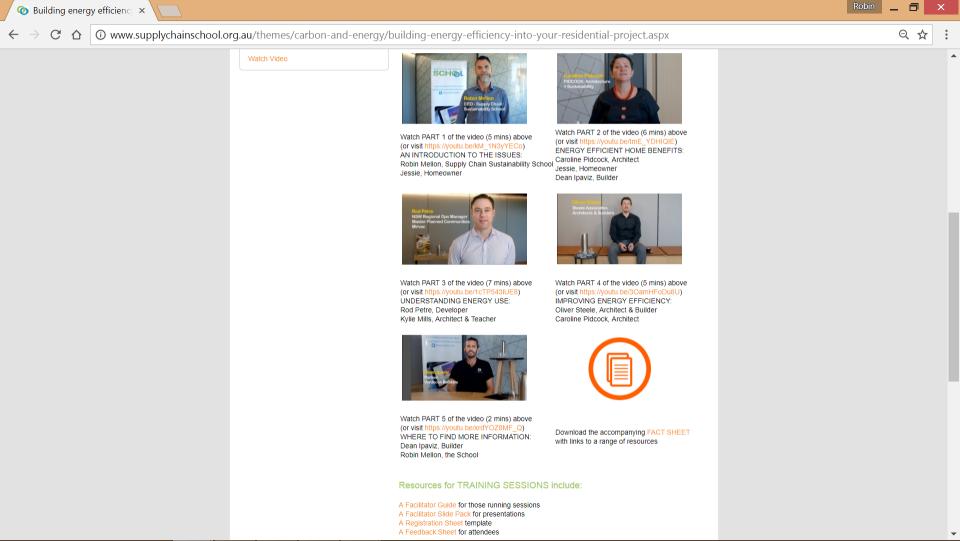
Materials
A 1 hour e-learning module

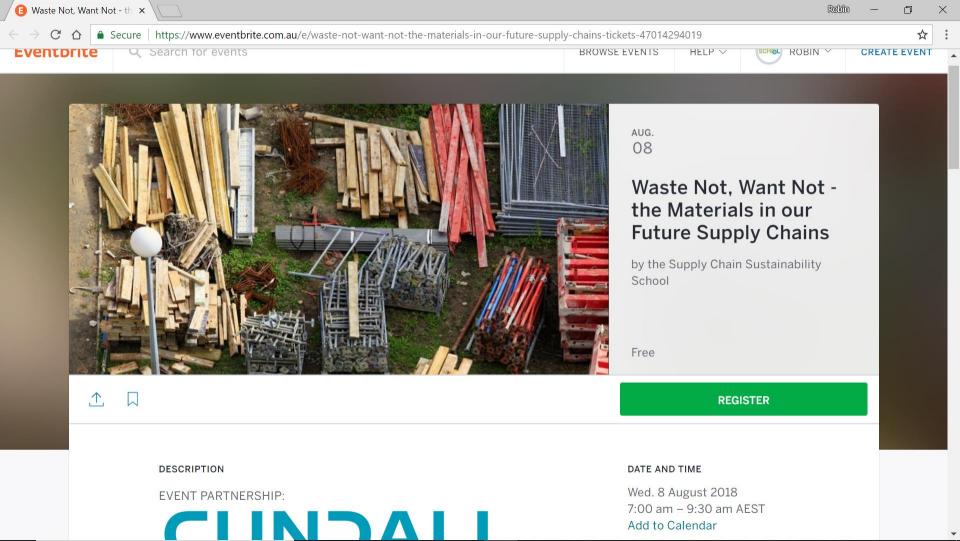


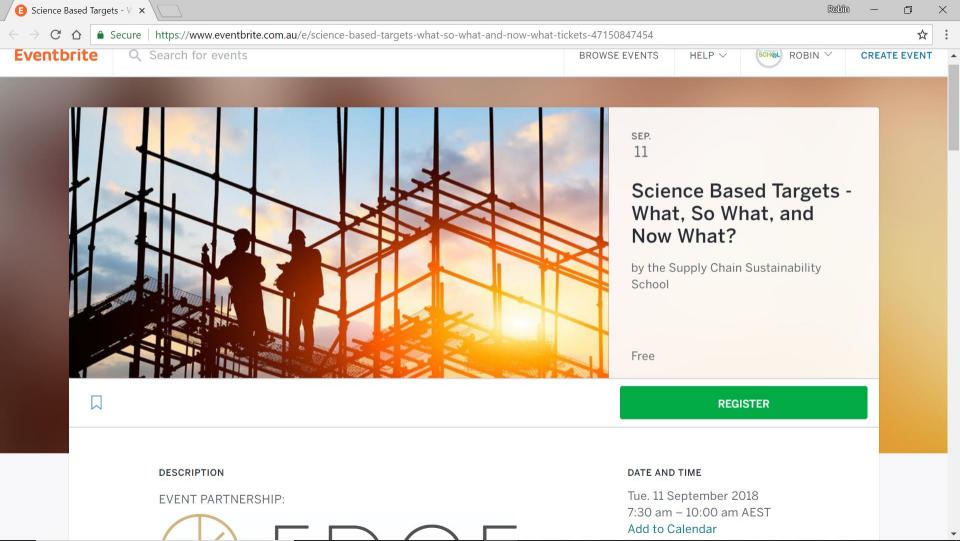
Time1 hour
Environmental
Management

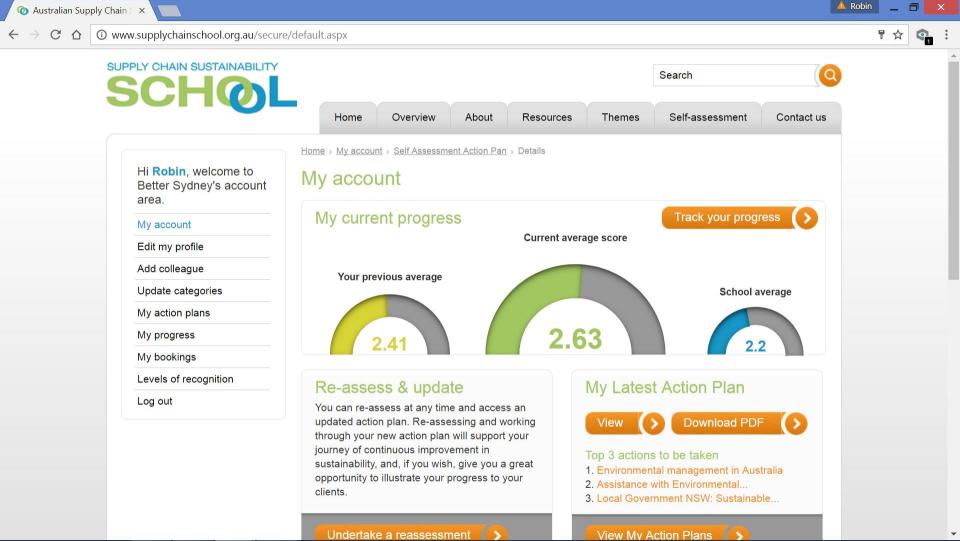
*











Action plan

Action plan for: Better Sydney genrated on 28/09/2016



Major Initiatives of the Australian Building Codes Board (ABCB)
Web link

Completed Wed 10 October 2016

Resources of the Australian Building Codes Board (ABCB)



Green Building Council of Australia Web link

impleted Wed 10 October 201

GBCA aims to develop a sustainable property industry in Australia and drive the adoption of green building practices through market-based solutions.



Department of Environment: National Waste Reporting Web link

pleted Wed 10 October 20

This is an online resource that provides a view of maste management and resource recovery in Australia



Introduction to Sustainable Construction Video

Completed Wed 10 October 2016

Russell Cuttler, Executive General Manager of Operational Support, and Renuka Sabaratnam, Group Manager Business Sustainability, of John Holland explain the importance of sustainability and sustainable construction for their business.



Sustainability and Rating tools Video

Completed Wed 10 October 2016

Rick Walters, Technical Director of Infrastructure Sustainability Council of Australia talks about the benefits of available sustainability and rating tools.



Environmental management in Australia

Web link

Completed Wed 10 October 2016

An overview of environmental management, and the use of EMS. Additional guidance is provided in the form of a checklist for an initial environmental review.



plan in place within

their organisation

(up from 79% in 2017)



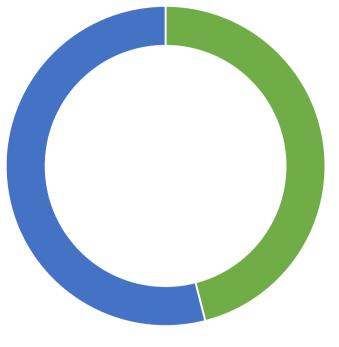
reported that sustainability knowledge has become more important in the last year (up from 52% in 2017) and 54% have begun to engage their suppliers earlier (up from 49%)



already see the Supply Chain Sustainability School as the go-to online resource for supply chain sustainability knowledge (up from 55% in 2017)



Benefits from improved supply chains



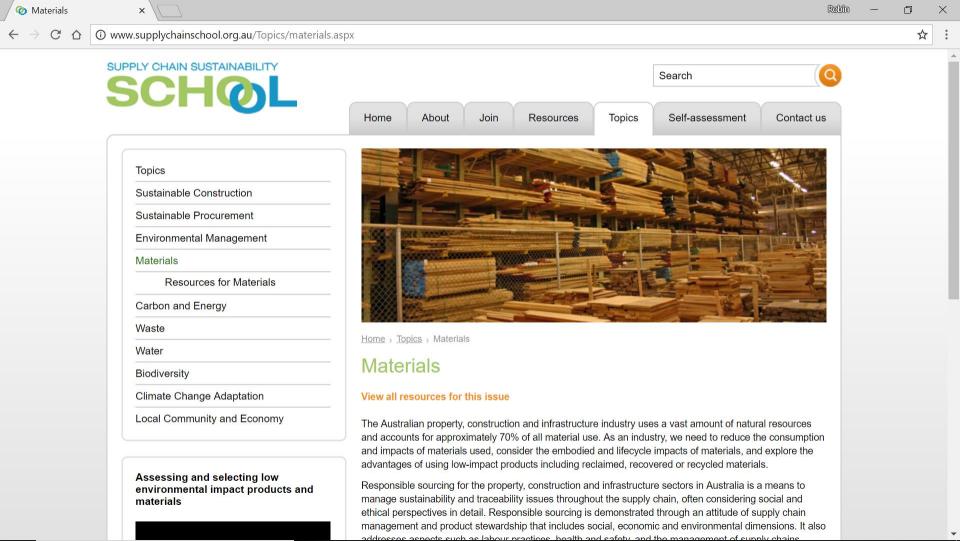
*46% of members have already seen economic, environmental & social benefits from improved supply chains



SUPPLY CHAIN SUSTAINABILITY Economical, social, environmental

No change

School 2018 Survey results





As we enter this rapidlyevolving future can we:

- Be not just 'a bit less bad' but actually 'good'?
- See positive social, economic and environmental impacts?
- Work more closely with our contractors and suppliers?
- Compete and be profitable in a more transparent industry?







- The materials we use, in terms of responsibility, transparency, certification and cradle-to-cradle views
- Health and Wellbeing all through the supply chain
- Energy and carbon and how we can measure it
- Water and water efficiency
- Social sustainability issues





ENVIRONMENTAL PRIORITIES

- Materials sourcing
- Transparency
- Innovation
- Certification
- Recycling
- Circular Economy
- Cradle-to-cradle
- Certification
- Waste





SOCIAL PRIORITIES

- Health and Wellbeing of those working with our resources and materials
- Health and Wellbeing of occupants of projects
- Human Rights in our extended supply chains
- Social license to operate

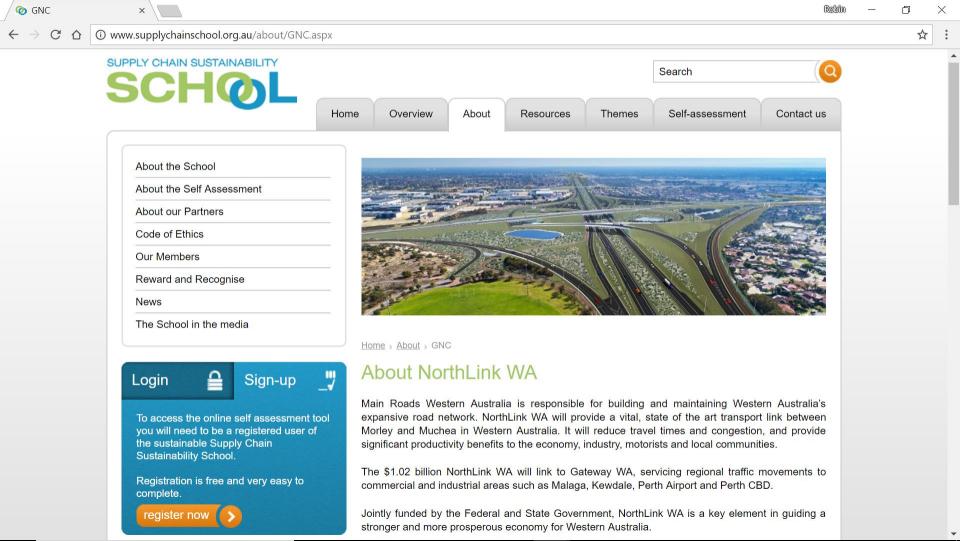


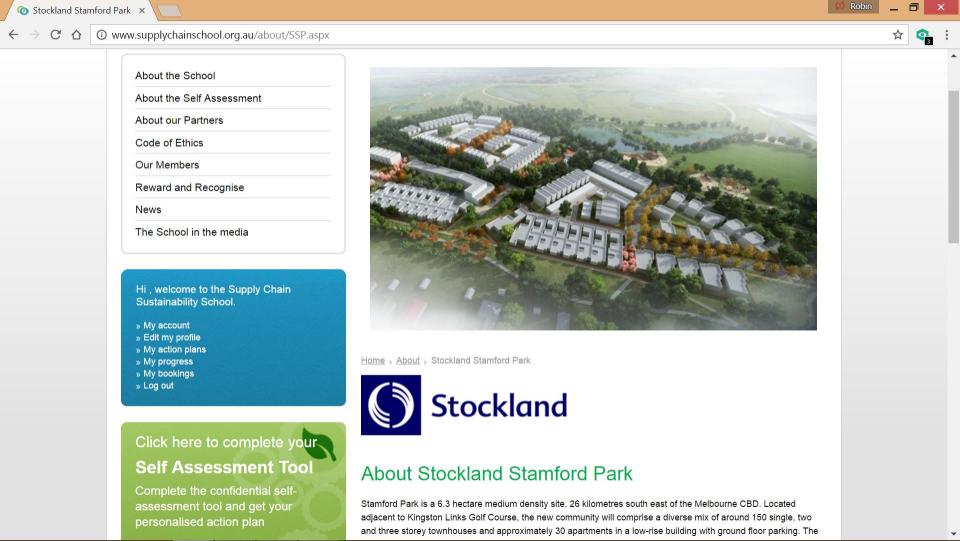


ECONOMIC PRIORITIES

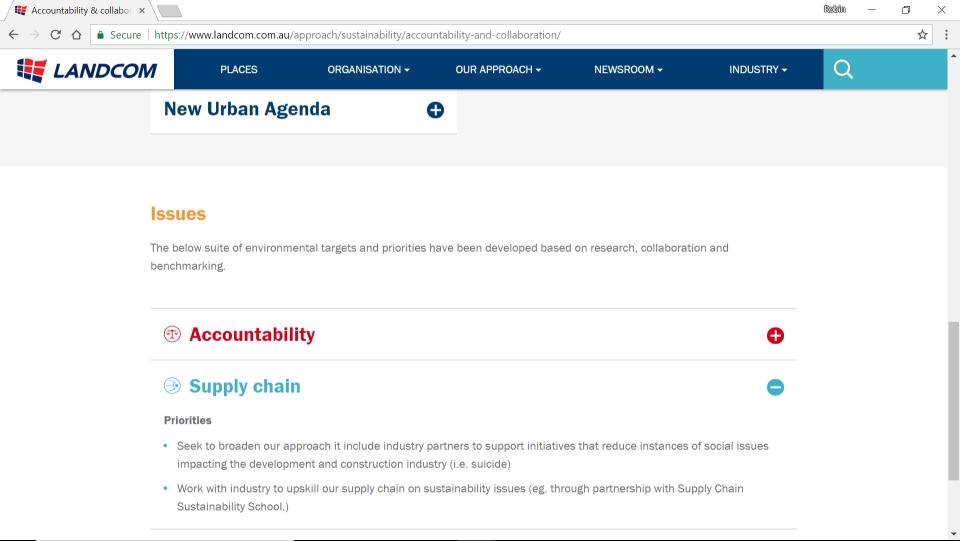
- Sustainable Procurement
- Broader risk management within supply chains
- Modern Slavery risks
- Health risks
- Reputational risks
- Resilience in all its forms
- Making sure that you and your businesses can stay competitive and win work















































Action plan

Action plan for: Better Sydney genrated on 28/09/2016



Major Initiatives of the Australian Building Codes Board (ABCB)
Web link

Completed Wed 10 October 2016

Resources of the Australian Building Codes Board (ABCB)



Green Building Council of Australia Web link

ompleted Wed 10 October 20

GBCA aims to develop a sustainable property industry in Australia and drive the adoption of green building practices through market-based solutions.



Department of Environment: National Waste Reporting Web link

inpleted Wed 10 October 2

This is an online resource that provides a view of masternanagement and resource recovery in Australia



Introduction to Sustainable Construction Video

Completed Wed 10 October 2016

Russell Cuttler, Executive General Manager of Operational Support, and Renuka Sabaratnam, Group Manager Business Sustainability, of John Holland explain the importance of sustainability and sustainable construction for their business.



Sustainability and Rating tools Video

Completed Wed 10 October 2016

Rick Walters, Technical Director of Infrastructure Sustainability Council of Australia talks about the benefits of available sustainability and rating tools.

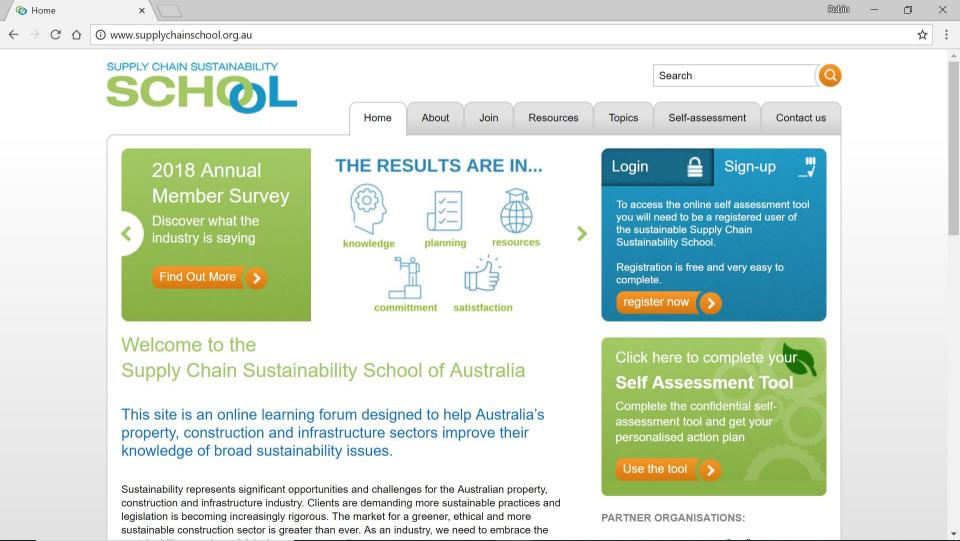


Environmental management in Australia

Web link

Completed Wed 10 October 2016

An overview of environmental management, and the use of EMS. Additional guidance is provided in the form of a checklist for an initial environmental review.











JHLOR JV SUPPLIER EVALUTION PROCESS

Neal Barron
Senior Commercial Manager
JHLOR JV

JHLOR JV supplier evaluation process





 JHLOR JV will ensure procurement is aligned with Sydney Metro's overall objectives in both cost and non-cost elements of the Value for Money regime

 The subcontract tender evaluation process will be informed by a Multi-Criteria Assessment (MCA) that considers environmental, social and economic impacts from a lifecycle perspective.



JHLOR JV supplier evaluation process





The non-financial criteria is greater than 20% in total

 The analysis will be used to assist initial screening of potential suppliers to an acceptable short-list, and/or selection of a preferred supplier

Sustainability objectives, targets and/or indicators will be prescribed within awarded contracts

 Performance of these objectives and/or targets will be proactively monitored and managed for the duration of the contract. Success (value) will be encouraged and rewarded.





JHLOR JV WORKFORCE DEVELOPMENT AND INDUSTRY PARTICIPATION

Maxine Sacre

Workforce Development

JHLOR JV







SYDNEY METRO INDUSTRY CURRICULUM (SMIC)

- Improve the skills & competency within the industry
- Create a stronger, greater qualified workforce







SYDNEY METRO INDUSTRY CURRICULUM (SMIC)

Minimum requirements:

- **Demolition** workers & supervisors
- Tunneling (not relevant to SMU scope of works)
- **Civil Construction** workers & supervisors
- Heavy Haulage frequent heavy vehicle operators accessing the worksite
- Rail worksite Protection Officers & supervisors
- All supervisors undertake additional Introduction to Leadership stream (incl Cultural Awareness).

Mandatory requirements for on-boarding





SYDNEY METRO ORIENTATION TRAINING (SMOT)

Sydney Metro project overview that is in conjunction to the SMU Project Induction.

IF your tender is successful and you are issued with the SSJ-SUB-CONTRACTOR MOBILISATION GUIDE, make sure you become familiar with the requirements to avoid site access delays.





PURPOSE

- To grow workforce capability
- Provide greater work prospects for minority and under represented groups
- Boost opportunity for the participation of ANZ and local small & medium sized business to share in the Government infrastructure spend.





TARGETS

- 45 ANZ SME's
 - 30 Local Businesses
 - 9 of the 30 to be Aboriginal Businesses
- A minimum of one apprentice to every four trades people
- Pre-employment programs for long term unemployed
- Deliver accredited training in the use of Digital Engineering in the Project.





TARGETS cont.

- 2.5% of the Workforce identify as Aboriginal or Torres Strait Islander
- 8% of the Workforce are under the age of 25 years
- Initiatives that promote women in leadership roles
- Through Engineering Aid Australia, support a minimum identified number of indigenous high school students in learning about career opportunities in engineering
- Partner with a local school and deliver an INSPIRING STEM+ Program.





All WD&IP requirements will be considered in our selection process for subcontractors & targets and other contractual obligations will be written into subcontracts

What is Aboriginal participation (AP) in construction?





- 1.5% of the total contract value of a project to support Aboriginal and Torres
 Strait Islander participation
 - Direct Expenditure
 - Indirect Expenditure
- This data is captured by you to contribute to our Aboriginal Workforce
 Development and Industry Participation targets

WD, IP and AP reporting requirements





- Monthly reporting will be mandatory for WD, IP and AP
- Details of how we may assist you to capture and report on this data will be discussed with you should your tender be successful





APPRENTICE AND TRAINEE PROGRAM

James Moran

General Manager

Apprenticeship Support Australia





SPEED NETWORKING

Group Participation







Some example answers – one answer per group:

1. How is the issue of sustainability most relevant to the projects / issues you work on?







Some example answers – one answer per group:

- 1. How is the issue of sustainability most relevant to the projects / issues you work on?
- 2. How could sustainability be an area of risk to you and how could you minimise this risk?







e answers – one answer per group.

- 1. How is the issue of sustainability most relevant to the projects / issues you work on?
- 2. How could sustainability be an area of risk to you and how could you minimise this risk?
- 3. How could you handle this issue better and how would this be an opportunity your organisation?







Some example answers – one answer per group:

- 1. How is the issue of sustainability most relevant to the projects / issues you work on?
- 2. How could sustainability be an area of risk to you and how could you minimise this risk?
- 3. How could you handle this issue better and how would this be an opportunity your organisation?
- 4. What are the questions you need to start asking your staff, clients and suppliers?







Just 4 questions - spend 2 minutes on each:

- 1. How is the issue of sustainability most relevant to the projects / issues you work on?
- 2. How could sustainability be an area of risk to you and how could you minimise this risk?
- 3. How could you handle this issue better and how would this be an opportunity your organisation?
- 4. What are the questions you need to start asking your staff, clients and suppliers?





ENERGY, MATERIALS, WATER AND WASTE OBJECTIVES

Vereine Masson

Sustainability Coordinator

JHLOR JV

Sustainability commitments





ISCA RATING OF 'LEADING'



- Reducing our potable water consumption
- Reducing our impacts associated with materials
- Minimising our energy use and green house gas (GHG) emissions
- Managing impacts on the environment and heritage
- Implementing sustainable waste management practices
- Positively contributing to the local community.

Sustainability targets





Energy

- Demonstrate a reduction in GHG emissions
- Identify source of emission \rightarrow site vehicles, stationary plant or mobile plant
- 5% use of bio diesel mix, and
- 10% use of blended ethanol mix.

Materials

- 30% reduction in lifecycle impacts, and
- More than 9% of materials/products to have approved environmental labels (e.g. EPD's, GECA etc.)

Sustainability targets





Water

- 20% reduction in water use across the infrastructure lifecycle
- % of water from non-potable sources

Waste

Recycled, reused or recovered:

- Construction & demo waste- 95%
- Office Waste- 60%
- Spoil reuse- 100% of uncontaminated spoil

Sustainability reporting requirements





- Applicable targets and objectives will be written into subcontracts
- Successful subcontractors will be required to provide the relevant information monthly to allow the Project to track, monitor and report it's sustainability performance.





SOCIAL ENTERPRISE

Jim Dinuccio

National Manager

WISE Social Enterprises Clean Force Property Services









A Social Enterprise is a sustainable viable business that trades for a social purpose





Our Services



Clean Force's comprehensive cleaning services include:

Commercial Office Cleaning
Transitional House Cleaning
Venue Cleaning
Soft & Hard Floor Rejuvenation
Hygiene Products and Services
Internal External Window
Cleaning
Rubbish Disposal
Document Destruction

We use the latest eco-friendly cleaning products to reduce our impact on the environment







Clean Force Story



Clean Force Property Services (Victoria) started out in **2001** as a contract cleaning business with a difference.

We provide customers with a first rate job and employ people who face a variety of barriers, in particular those with a psychiatric disability.

Today our cleaning services and contracts are available across the **Melbourne & Sydney Metropolitan** region and extend to:

- Private sector
- Commercial businesses
- Government enterprises
- Community organisations
- Domestic market



We believe in contributing to the wellbeing of the communities we work in and that's why we do what we do.

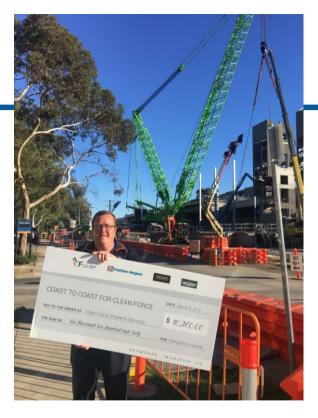
Our Employees

What Does It Mean To Have a Job!



- >Improved self-esteem
- Sense of purpose / ownership
 - Feeling valued
- ➤ Work confidence & work experience
 - Increased sense of independence
 - Social networks and friends
 - **≻**Income!
 - ➤Independence
 - ➤ Career development
- Traineeships in the Cleaning Industry
 - > Pathways to other opportunities









Award Winners

2014 NBAA Business

Excellence Awards





2014 Darebin **Better Business** Awards



2014 Social Enterprise of the Year (Large)



2014 NBAA Human Resources



2014 Vic Public Healthcare Awards







Acknowledgements























QUESTIONS?



