

**Site Safety Seminar  
For Capital Works New Works Contracts**

**XXI World Congress on Safety and Health at Work 2017  
in Singapore from 3 to 6 Sep 2017**



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12 - 4 - 2018



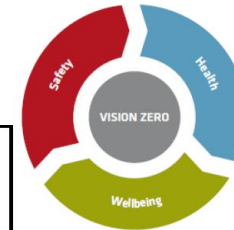


# XXI World Congress on Safety and Health at Work 2017 in Singapore

3 - 6 September 2017



# Vision Zero for Safety and Health at Work



3 Sep 2017	<p>Opening Ceremony – opening addresses by</p> <ul style="list-style-type: none"> <li>a) President of XXI Congress [Commissioner for Workplace Safety and Health, <b>Ministry of Manpower (人力部), Singapore</b>]</li> <li>b) Director General, <b>International Organisation of Labour (國際勞工組織), Switzerland</b></li> <li>c) President, <b>International Social Security Association (國際社會保障協會), Switzerland</b></li> <li>d) Prime Minister of Singapore</li> </ul>
4 Sep 2017	<ul style="list-style-type: none"> <li>a) Reports by ILO and ISSA</li> <li>b) Keynotes : Vision Zero and Healthy Work</li> <li>c) Technical Sessions</li> <li>d) Symposium : innovative approaches to OSH</li> </ul>



# Vision Zero for Safety and Health at Work



5 Sep 2017	<ul style="list-style-type: none"> <li>a) Keynote : People-oriented prevention by WSH Council of Singapore</li> <li>b) Technical sessions</li> <li>c) Safe Youth @ Work Dialogue</li> <li>d) Symposium : innovative approaches to OSH</li> </ul>
6 Sep 2017	<ul style="list-style-type: none"> <li>a) Symposium : Vision Zero in the construction sector by ISSA Construction Section</li> <li>b) Closing address by Minister of Manpower, Singapore</li> <li>c) Technical Tour to 3M</li> </ul>





# Vision Zero for Safety and Health at Work



## Culture of Prevention for Safety, Health & Wellbeing

- According to ILO, an estimate of 2.3M workers die, 160M people suffer from non-fatal occupational diseases, and 303M people suffer from occupational accidents with non-fatal consequence every year
- **A world-wide prevention campaign** launched by International Social Security Association (ISSA) at the World Congress in Singapore in 2017
- Raises awareness for risks at work
- Motif **“Vision Zero – a world without fatal and severe occupational accidents, occupational diseases and road accidents is possible”**
- **4 important principles**
  - a) human life is not negotiable
  - b) every occupational accident and occupational disease is avoidable
  - c) prevention is the instrument for entrepreneurial success
  - d) vision zero is the key to development of global culture of prevention at workplace



# WSH 2018 in Singapore

## Engendering a Progressive and Pervasive WSH Culture



- Introduced in 2008 to encourage stakeholders to **view WSH as a personal responsibility and proactively reduce risks**
- **Extension of WSH Act to all workplaces** in 2011
- **Established the WSH Institute** in 2011 to provide research to address WSH industry challenges
- **Bringing a culture change** to sustain improvement in workplace safety and health where management and workers embrace the belief that **all injuries are preventable**. Launched the CultureSAFE programme in 2012 with a WSH Culture Fund to help companies implement the CultureSAFE programme at workplace
- **Launched Vision Zero movement at the National WSH Campaign** 2015 to drive the mindset that all workplace injuries and ill-health are preventable. Introduced 6-step approach to help companies to achieve Vision Zero -
  - a) Make a *commitment*
  - b) Set a *goal*
  - c) *Communicate* the goal
  - d) *Identify* WSH challenges
  - e) Find *solutions*
  - f) *Review and monitor* progress

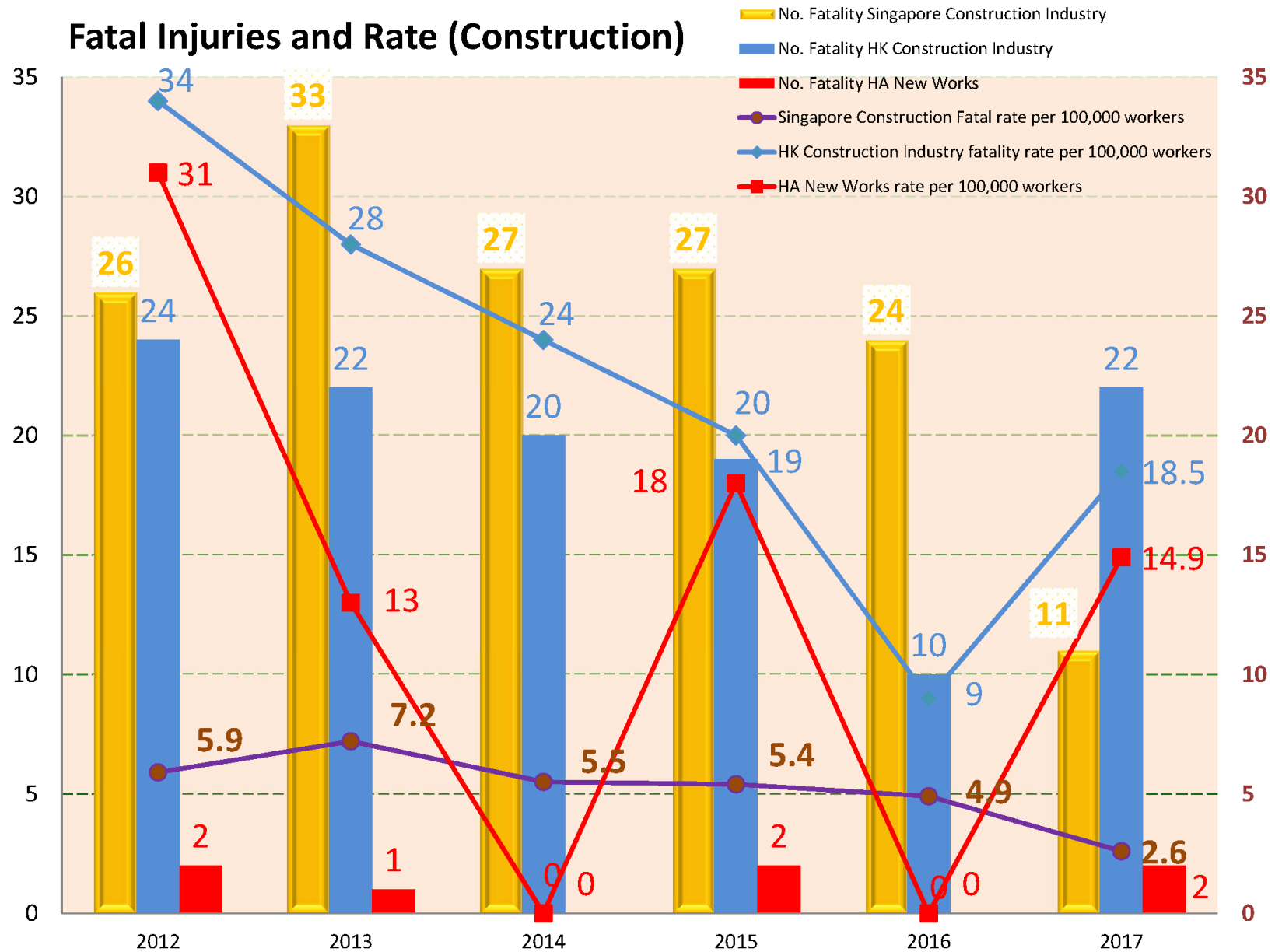
# Analysis of Current Situation of Singapore

## Deteriorating Situation in Construction Sector



- **Systemic Lapses for fatalities:**
  - a) 93% for **unsafe behaviour**, **lack of competency** and **safety awareness** of workers,
  - b) 87% for **inadequate risk management**, **insufficient risk control** measures
  - c) 73% for lapses in **planning and execution of work activities**, e.g. poor supervision, communication and coordination of work
- **Experience and Competency :**
  - a) Workers with **< 1 year experience** and **unskillful workers** are more prone to fatalities
- **Need for Greater Industry Ownership**
  - a) Some contractors **took WSH contraventions as a normal course** and **set aside “safety budgets” to cover fines**
  - b) Some contractors exert pressure on doctors to **reduce duration of medical leave**
  - c) Some accredited **training providers are fraudulent** in conducting WSH training, eg. Trainees were guaranteed a pass through provision of answers
- **Health Risks Factors not addressed**
  - a) **No integrated approach** in managing safety, health and well-being of workers
  - b) WSH **professional not competent** to advise management how to **manage work environment and personal health factors** to prevent accidents and ill-health

# Fatal Injuries and Rate (Construction)





# WSH 2018 Plus in Singapore

Advancing Workplace Safety & Health for 2018 and beyond

**WSH 2018 Plus lays foundation to address WSH challenges and sustain continuous improvement beyond 2018 and 3 key priorities:**

- A. Improving WSH Performance in Construction Industry
- B. Strengthening WSH Competency
- C. Building Collective WSH Ownership



Figure 1: WSH 2018 Plus



# WSH 2018 Plus in Singapore

Advancing Workplace Safety & Health for 2018 and beyond



## A. Improving WSH Performance in Construction Industry

As companies have **different capabilities and attitude towards WSH**, a **differentiated enforcement approach** is adopted to instil greater motivation for companies to improve their performance :

### 1) **Enact Progressive WSH Legislation :**

Risk based management approach in enacting WSH legislation,

- a) **Enacting WSH (Design for Safety) Regulations** on 1 Aug 2016 – greater responsibilities on developers and designers to **address foreseeable risks at design and planning phases**, driving upstream WSH prevention with benefits seen later
- b) **Reviewing WSH (Construction) Regulations** to **improve formwork safety and on-site traffic safety** for forming Safety and Health Coordination Committee to coordinate all hazardous works on site

### 2) **Influence WSH Standards through Procurement Practices :**

- a) Public bodies **consider safety records as pre-tender requirement**
- b) Placing **greater weight on safety in tender evaluation**

# WSH 2018 Plus in Singapore

Advancing Workplace Safety & Health for 2018 and beyond

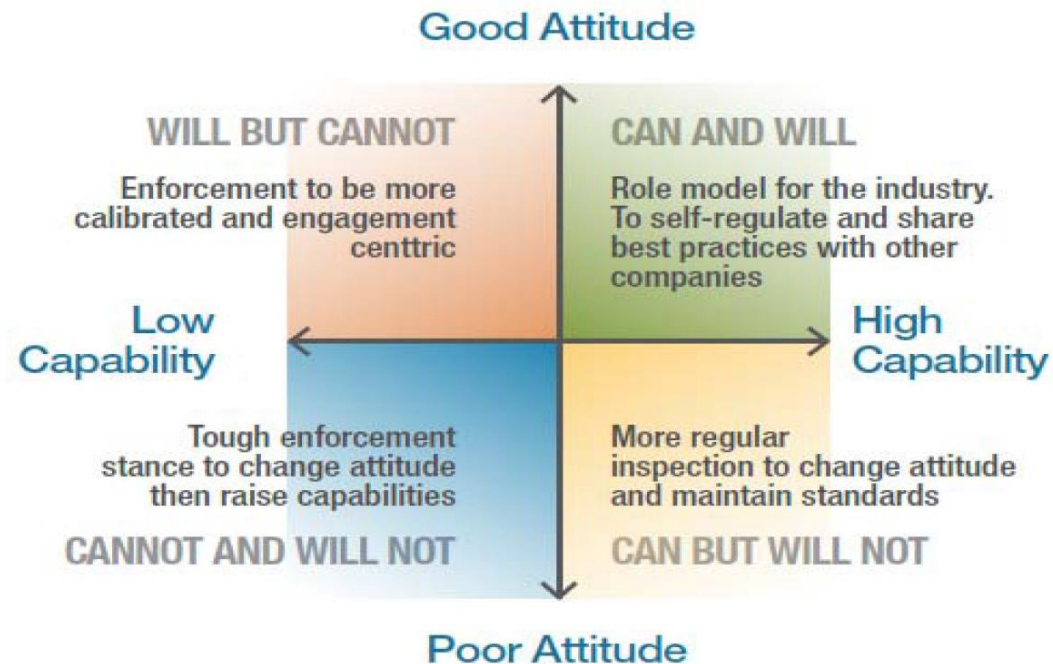


## A. Improving WSH Performance in Construction Industry

### 3) Adopt a Differentiated Regulatory Approach :

Differentiated approach based on level of capability and attitude of companies to allow for more effective allocation of resources of MOM-

Figure 2: 2x2 Regulatory Profiling Matrix



# WSH 2018 Plus in Singapore

Advancing Workplace Safety & Health for 2018 and beyond



## A. Improving WSH Performance in Construction Industry

### 4) Leverage on Technology :

Driving WSH improvements and improving productivity through technology:

- a) **Adopting prefabricated prefinished volumetric construction (PPVC)**  
reduces WSH risks on site
- b) **Installation of data loggers in all mobile cranes** allows crane owners and occupiers to monitor performance of crane operations, facilitates better planning of lifting operations and shape the behaviour of crane operators
- c) **Using facial recognition and access control** to ensure authorized entry into designated work areas
- d) **Organising a WSH Technology Symposium** to expose the industry to technologies for improving safety and health at workplaces and support greater adoption through co-funding

# WSH 2018 Plus in Singapore

Advancing Workplace Safety & Health for 2018 and beyond



## B. Strengthening WSH Competency

A registered workplace safety and health officer (WSHO) is required for a project with contract sum of SGD \$10M or more. Construction workers need to pass the Safety Orientation Course for Construction Industry. All WSH training providers need to be certified under the Learning Service Provider Certification administered by the Singapore Accreditation Council. There are over 4,000 WSHOs.

### 1) Raise Recognition of WSHO with Career Progression Pathway :

Singapore Institution of Safety Officers is working with universities to develop training courses to help WSHOs develop themselves professionally

### 2) Enhance Training Delivery for a Richer Learning Experience :

Include interactive and experiential training modules; uploading training material onto smart phones for ease of learning; virtual simulator for training

### 3) Introducing Competency-based & Outcome-oriented Training Curriculum :

Training for workers on carrying out Last Minute Risk Assessment; training of supervisors of contractors on communication & relationship management

### 4) Enhance Quality of Training Providers and Trainers :

Trainers for WSH courses to undergo at least 10 training hours each year under the “Train the Trainers” programme



# WSH 2018 Plus in Singapore

## Advancing Workplace Safety & Health for 2018 and beyond



### C. **Building Collective WSH Ownership** – require shifts in mindset:

- 1) **From reducing workplace fatalities to preventing all injuries and ill-health** :  
Workplace injuries and ill-health are preventable; championing the Zero movement through awards, recognition; imbuing WSH values from young by integrating WSH knowledge into students' learning and school activities
- 2) **From injury compensation to injury prevention and management** :  
Forming Work Group comprising insurers, employers and unions to review work injury compensation (WIC) insurance policy to provide differentiation in premium based on workplace safety performance to influence the right behaviour in companies; including Return to Work expenses in WIC insurance for compensation to help injured workers to return to work
- 3) **From focusing only on safety to equal emphasis on safety and health** :  
Raise awareness on Total WSH through platforms e.g. WSH campaign, conference, talks, websites, channels through associations, unions, etc. awards; accrediting training providers for Total WSH courses; incorporating Total WSH concept into professional training
- 4) **From government-led to industry-driven** : broadening and deepening partnership with WSH Council and WSH Institute

# Vision Zero for Safety and Health at Work

## Culture of Prevention for Safety, Health & Wellbeing



### 7 Golden Rules *[examples of measures of HA added]*

- Cover all essential aspects of a successful prevention strategy
- Require a plan for development of a sustainable occupational safety and health culture which is supported by measures and milestones, and reviewed regularly

#### 1) **Take leadership – demonstrate commitment**

##### Corporate Level

- a) Housing Department Environment, Health and Safety Committee chaired by Permanent Secretary of Housing – responsible for development and formulation of policy direction on environment, health and safety*
- b) Housing Department Site Safety Sub-committee chaired by DD(DC) – overseeing site safety and health management for works contracts*
- c) Housing Department Occupational Safety and Health Sub-committee chaired by DD(CS) – overseeing departmental OSH policy and implementation*
- d) 4Cs core values express commitment and accountability*

##### Project Level

- a) Partnering Charter*
- b) Site Safety Committee by contractor*

# Vision Zero for Safety and Health at Work

Culture of Prevention for Safety, Health & Wellbeing



## 7 Golden Rules (cont'd)

- 2) **Identify hazards – control risk**

### Corporate Level

- List management in admitting capable contractors*
- tender evaluation in selecting the optimum contractor*
- requirement of safety and health management to contractor*
- performance monitoring of contractors through PASS, safety audit, surprise safety inspection, routine site inspection by project staff*
- design review meeting (e.g. AAP, EAP, PDRC, DDRP, BSDRP) with various stake holders to identify risks at early / design stage*

### Project Level

- BIM to simulate design and construction process*
- Monthly safety and health site meeting*
- Safety Plan and Health Care Plan by contractor*  
*(Singapore considers mental health in risk assessment)*

# Vision Zero for Safety and Health at Work

Culture of Prevention for Safety, Health & Wellbeing



## 7 Golden Rules (cont'd)

- 3) **Define targets – goal-oriented, programme-based approach**  
Corporate & Project Level  
*Targets of zero fatal & accident rate of not more than 9 per 1000 workers are set*
- 4) **Ensure a safe and healthy system – be well-organised**  
Corporate Level  
*3-pronged approach to eliminate, reduce and control the risk including*
  - a) procurement strategy and performance monitoring with incentives & sanction;*
  - b) strengthening contractual requirement and management;*
  - c) research, training and promotion*Project Level
  - a) Implement HASAS, SSIP, PASS, Safe Working Cycle*
- 5) **Ensure safety and health in machines, equipment and workplace**  
Corporate Level
  - a) Duty of contractor to follow Factories and Industrial Undertakings Ordinance*
  - b) Standard safety requirements under contract (e.g. Standard Specification Library)*

# Vision Zero for Safety and Health at Work

Culture of Prevention for Safety, Health & Wellbeing



## 7 Golden Rules (cont'd)

### 5) Ensure safety and health in machines, equipment and workplace (Cont'd)

#### Project Level

- a) *Use quieter machines in sites close to neighborhood*
- b) *Rest area for workers as specified under contract*  
*(Visited site in Singapore provide water dispensing machines on each floor of domestic blocks)*

### • 6) Improve qualifications – develop competence

#### Corporate & Project Level

- a) *Qualification and training requirement on contractors' personnel*
- b) *Site Safety PASSPORT Training with Refresher Course for HA works staff*

### • 7) Invest in people – motivate by participation

#### Corporate & Project Level

*Pay for safety to contractor for organising induction training and tool box talks for workers, joining / winning site safety campaigns or organising site-based safety awards, implementing safety innovation, application of RFID or BIM for safety, P&N Caring Programme*

- [http://visionzero.global/sites/default/files/2017-09/2-Vision\\_Zero\\_Guide-Web.pdf](http://visionzero.global/sites/default/files/2017-09/2-Vision_Zero_Guide-Web.pdf)



# Vision Zero for Safety and Health at Work

4 Sep 2017 – International Media Festival for Prevention

- Special Media Session
  - media can educate people how to behave in correct and safe way
  - 師傅再出馬 (OSH Master Chef II) of OSHC of Hong Kong won the grand award



# Vision Zero for Safety and Health at Work

4 Sep 2017 : Symposium : Innovative approaches to OSH

- Symposium : DD(DC)'s presentation on “**Innovations in Safety and Health in Public Housing Developments in Hong Kong**”



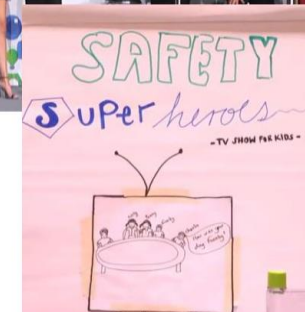


# Vision Zero for Safety and Health at Work



5 Sep 2017 – Safe Youth @ Work Dialogue

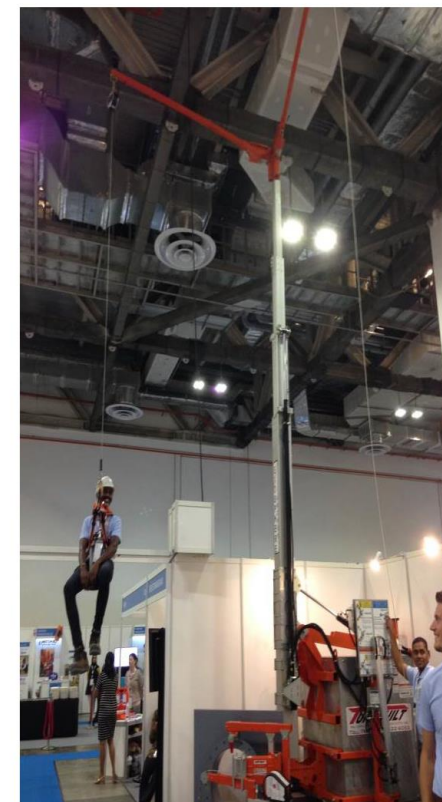
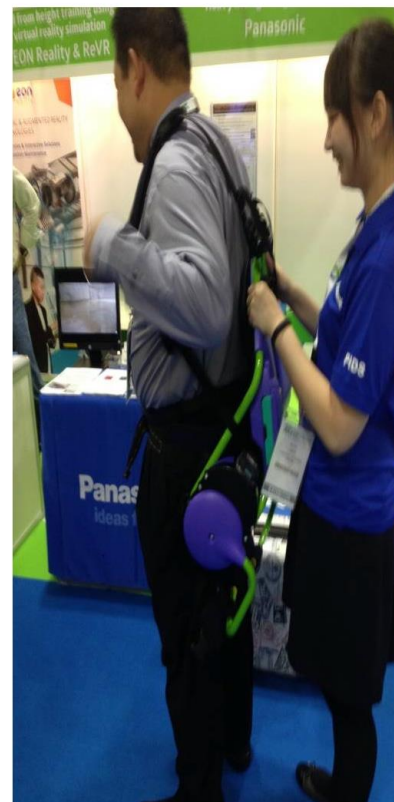
- **Young workers** are **future leaders of economies**
- They are 40% more likely than older workers to suffer occupational injuries because of lack of skills, experience and training, inadequate supervision, limited knowledge of OSH hazards and risks, and lack of understanding of their rights
- **Youth** can be **change agents** by bringing their voice to **help build a global network of young champions for safety and health** in the workplace
- More than 120 youth champions, aged 18-24, from around the world join the Congress and are prepared to become **agents of change for SafeYouth@Work** in their home countries



# Vision Zero for Safety and Health at Work

3 to 6 Sep 2017 - Exhibitions

- Virtual reality technology for safety training of mobile elevated work platform
- Exoskeleton for manual handling
- Fall arrest system

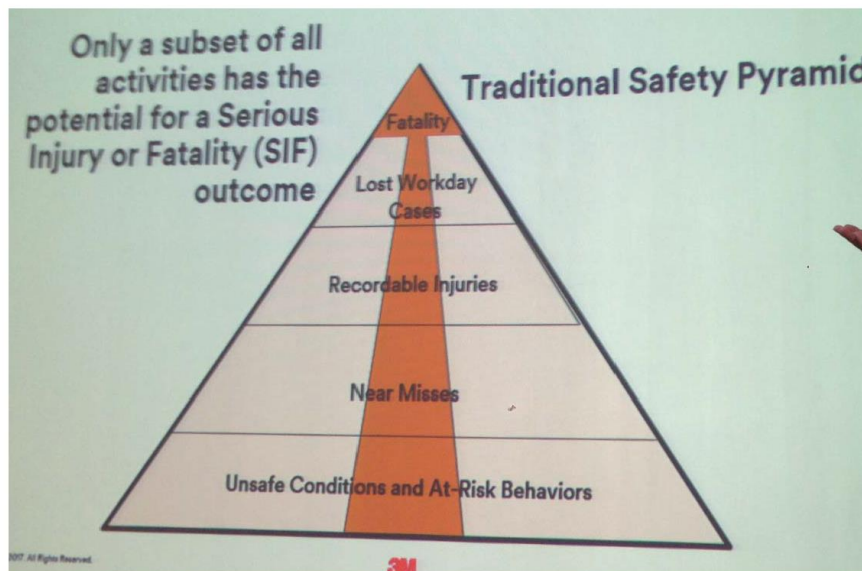




# Vision Zero for Safety and Health at Work

6 Sep 2017 - Closing Ceremony & Technical Tour

- Closing Address by MOM, Singapore
- A sharing by a medical practitioner diagnosed with leukemia on **importance of prevention**
- **Next World Congress in Canada**
- Technical Tour to 3M - **Safety pyramid**, safety equipment (e.g. PPE, reflective strip for roadworks)





Here is the footage of  
Site Safety Seminar for Capital Works New Works Contracts  
of Housing Authority which was held on 12 April 2018

The speaker is

Senior Manager of Housing Department (Safety and Health)  
Mr. Lau Chee Tim, Timothy

His presentation topic is

XXI World Congress on Safety and Health at Work 2017

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(00:30)

From September 3rd to 6th, at that time  
Deputy Director Miss Fung led the team  
to participate in the XXI World Congress  
on Safety and Health at Work in Singapore  
Later, our two other colleagues will talk about  
the technical visit from September 7th to the 8th

Briefly talk about the itinerary  
the opening ceremony was on September 3rd  
Several important people were attending  
including the president of the Ministry of Manpower  
of Singapore being the Officiating Guests  
The Director General of the International Labour Organization  
from Switzerland was present  
In addition  
the president of the International Social Security Association  
and Singapore's Prime Minister Lee Hsien Loong  
also attended and delivered a speech

On September 4th, the International Labour Organization  
and the International Social Security Association  
made a report  
and brought the message of Vision Zero

and several technical sessions  
There were many forums in the afternoon  
mentioning innovative measures

On the September 5th  
Workplace Safety and Health Council of Singapore  
Brought out the message, “people-oriented prevention”  
Then there were several technical sessions  
There was also a youth forum held in the afternoon  
They placed emphasis on letting children  
and young people pay attention  
to occupational safety and health  
There were also seminars on innovation

In the closing ceremony on September 6th  
the ISSA International Social Security Association  
spoke out the “Vision Zero”  
The highlight of this forum, the vision of “Zero Accident”  
A closing speech was delivered  
by the Ministry of Manpower of Singapore

The 3M company arranged a technical tour  
Then I will talk about  
the culture of prevention for safety, health & wellbeing  
The International Labour Organization says that  
about 2.3 million people die each year because of work  
There are 160 million people suffering  
from non-fatal occupational diseases  
More than 300 million people were injured  
because of occupational accidents  
In 2017, a world-wide prevention campaign  
was launched in Singapore  
which aimed to promote the concept of prevention  
before an incident happens  
to raise awareness for risk at work and hope for Vision Zero

The world can achieve  
Vision Zero for accidents, diseases and hazards at work  
There are four important principles  
including human life is not negotiable  
Every occupational accident  
and occupational disease is avoidable  
Prevention is the instrument for entrepreneurial success  
We hope the world will aim to achieve Vision Zero

In Singapore, they have promoted  
an occupational safety and health culture  
10 years ago, introduced in 2008  
stakeholders were encouraged to set a target for 2018  
They regard this occupational safety and health  
as a personal responsibility  
to take initiative to eliminate and reduce the risks  
In 2011, they proposed this Workplace Safety and Health Act  
and all construction sites have been covered  
Workplace Safety and Health (WSH) Institute  
was established in 2011 to conduct research  
in order to promote cultural change  
So occupational safety and health at the workplace  
can be promoted  
All accidents can be avoided  
They launched the CultureSAFE programme  
in 2012 with a WSH Culture Fund  
to help companies implement  
the CultureSAFE programme at workplace  
In 2015, they launched this Vision Zero campaign  
and hoped to change people's attitude  
Accidents, hazards, diseases  
can be eliminated and can be avoided  
There are six approaches to achieve Vision Zero  
First, make a commitment  
Second, set a goal

Third, communicate the goal to others  
Fourth, identify work safety and health challenges  
Fifth, find solution  
Sixth, review and monitor progress

In terms of the construction sector  
Singapore noticed that their situation is not ideal  
They saw a lot of human error among workers  
lack of competency and safety awareness of workers  
In addition, inadequate risk management  
insufficient risk control measures  
and lapses in planning and execution of work activities  
In terms of supervision, communication  
management and coordination  
There were deficiencies that  
led to these serious fatal accidents  
In addition, in terms of the experience of workers  
inexperienced workers were prone to fatalities  
Then in the construction industry  
how much responsibilities of  
the occupational safety and health were borne by us?  
Are you responsible for it?  
I hope the whole industry will do one more step  
Some companies would count accident penalty  
as one of the costs  
which had already been counted in the budget  
Or ask the doctor to deduct the duration of sick leave  
and even some training service providers  
were fraudulent in conducting training  
They provided answers for trainees  
to pass the assessment after class  
These problems were known  
There was no integrated approach in managing safety  
health and well-being of workers

As an example, in recent years, people questioned about whether high-rise building construction need to provide builder's lifts  
Some will not provide  
the workers need to walk 30 to 40 floors  
Being already exhausted, are they able to continue working?  
Are they already exhausted? Will they get injured more easily?  
These can be considered together with safety  
There are also workplace safety and health personnel  
Do they have enough ability  
to manage environmental and personal health risks?

After noticing so many questions  
look at the comparison between Singapore  
and Hong Kong in the past few years  
The yellow bars are the fatal accidents in Singapore  
The blue bars are the fatal accidents in Hong Kong  
It seems that Hong Kong is better  
There were 10 fatal cases in Hong Kong in 2016  
However, there were 22 fatal cases in Hong Kong in 2017  
Singapore had only 11 fatal cases in 2017  
There may be some missing cases for the accident rate  
For the fatality rate  
we follow their calculation method using 100,000 workers  
The red slash is the Housing Department  
The line went up and down as the number of workers  
for Housing Department New Works is small  
The blue slash represent the Hong Kong Construction Industry  
The Singapore line is at the bottom  
which is comparatively low  
This is their official report  
The fatality rate  
for Singapore is 2.6 per hundred thousand workers in 2017  
While that for Hong Kong construction industry is 18.5  
and the Housing Department New Works is 14.9

Because the workers number of Housing Department  
New Works is small, one more case can jet the line up  
Two fatal accidents occurred  
Everyone can see that Hong Kong  
has a lot of room for improvement

Singapore has already been catching up  
They proposed a workplace safety  
and health legislation in 2018  
There are three key points in the WSH 2018 Plus program  
First, improving the performance of the construction industry  
Second, strengthening the competency  
in the construction industry  
Third, building collective WSH ownership  
Let's read the details in the construction industry  
they know that the legislation is important  
and they introduced  
a WSH(Design for Safety) Regulation in 2016  
Risk can be eliminated or reduced at sources  
i.e. implementation at the design and planning stage  
Later, our colleagues will explain this issue  
Reviewing the construction legislation  
we also take look at the formwork safety  
On-site traffic safety also needs to be reviewed  
Second, they promote WSH through procurement practices  
Public bodies need to consider  
the safety records as tender requirement  
Placing greater weight on safety in tender evaluation  
Third, different companies have different approaches  
The companies at the top right corner can do it and  
are willing to do it  
they will become the role model to share their best practices  
Companies at the bottom left corner  
are those don't know how to do it and don't want to do it  
Those were subject to the law enforcement and



strengthened prosecution

In addition, for those who know how to do it but do not do it

Or those want to do it but don't know how to do it

try to conduct random inspection

It is hoped that they can improve

They make use of technology

For example, they have proposed the practice of prefabricated prefinished volumetric construction (PPVC) components

It has been going on for several years

in fact, Hong Kong has to start to catch up

PPVC reduce the number of workers on the construction site

With fewer workers

the chance of an accident is reduced

In addition, they stored all the data in data loggers for all mobile cranes

We can check what had happened at certain time

Or what had gone wrong?

Third, for some special designated areas

there is a facial recognition system

To ensure authorized entry into designated high-risk areas on the construction site

the audit report presented just now

had similar control measure

Fourth, increase publicity activities, symposium, etc.

to promote technical awareness

enhance the competency of occupational safety and health

they are not counting the worker number

but calculating on the budget

A registered workplace safety and health officer (WSHO)

is required for contract sum of SGD\$10 million in Singapore

They now have more than 4,000 WSHO

They know that the WSHO need to raise their professionalism

So they have a joint course

with the university for continuous study  
In addition, some training modules are put  
into the smart phone for easy learning  
It is also important to teach workers  
to do the final 1-minute risk assessment  
Workers can be aware of the dangers themselves  
and can deal with it themselves  
There is also training for trainer  
and the trainer is going to train others  
The trainers themselves are also trained  
and there is also 10 hours of continuous training per year  
Everyone has more recognition , a sense of belonging  
and a sense of responsibility to occupational safety  
and health by changing their attitude  
They used to discuss about death  
Now more discussion on how to reduce accidents  
injuries and health problems  
Organise more award functions  
bear in mind that all these diseases, injuries are preventable  
Instill these ideas to the children at school  
let the students learn occupational safety and health  
In the past, they said compensation  
and they would compensate if you were injured  
It should be avoided now, there should not be any injury  
If safety performance is good  
the insurance premium will be reduced  
This is a motivation

In addition, the third point is  
to hold occupational safety and health campaigns  
Safety and health are equally important  
hosting more web pages, meetings, conferences  
In addition, the government should lead the industry  
to broaden and deepen the WSH campaigns  
I hope that all citizens will do it together

To promote this culture  
we need to work on these seven things  
Seven golden rules  
Housing Department has similar measures on the italic items  
First, leadership  
commitment driven by the above must be the most effective

Second, our director of the Housing Department  
regularly hosts a meeting  
In addition  
our Deputy Director (Development and Construction)  
is responsible for chairing the site safety and health meeting  
Our Deputy Director (Corporate Services) will also take care  
of occupational safety and health aspects  
There is a dedicated committee responsible for it  
The 4C we proposed  
if you have joined our lecture before  
you will know what is 4C  
The Housing Authority project team  
has a site safety charter and site safety committee  
The second thing, we have to identify the hazard  
We have a list management system  
The company which has ability could enter our list to bid  
We also need to look at safety records  
and ask them to have a certification in management  
Later, our guest speakers will also share  
the certification requirements with us  
After being awarded the tender  
we will have different monitoring systems  
such as the contractor performance scoring system  
Housing Authority Safety Auditing System  
and Surprise Safety Inspection Programme  
Then, we have to go through many design  
review meetings before the project is launched  
such as AAP, EAP, PDR, etc.

A contractor may not know much  
We have a lot of rounds of review  
and the Housing Estate Management Office's  
colleagues look at the hazards of housing development  
after the completion of the project  
It is very critical to eliminate  
and reduce risk at source as much as possible  
Building Information Module could be adopted by contractor  
Monthly safety and health meetings, safety plan, health plan  
lots of things and tools here

The third factor is to define targets  
What is the target of the Housing Department?  
Targets of zero fatal & accident rate of  
not more than 9 per 1000 workers are set  
Fourth, there is a system  
an occupational safety, and health system  
We always say three-pronged approach  
First, procurement strategy and performance monitoring  
Second, strengthening contractual requirement  
and management  
Third, training and promotion  
The other is to implement Safe Working Cycle on site  
Fifth, the environment of the construction site  
We have to follow the contract and follow the law  
In addition, some machinery on the construction site  
must meet the environmental protection requirements  
and provide rest area for workers  
The sixth is the qualification  
For contractor's personnel  
we have training and qualification requirements  
In addition, we have Site Safety PASSPORT Training  
for HA works staff  
We must enrich ourselves  
to understand the safety situation on site

Seventh is about the people  
To promote whole industry participation  
we can give some rewards  
and hold some activities to let them participate  
If you have participated  
you might get the monetary reward in the Pay for Safety  
as an incentive  
We also have P and N caring programme  
hoping to motivate more participation  
for training and caring

There was a Media Festival for Prevention on September 4th  
Video media is very influential  
A video of half a minute or 2 minutes has brought out  
a lot of safety messages  
The OSHC also received an award  
which was the grand prize  
It mainly talks about  
some of the safety measures inside the kitchen  
It has gained international recognition  
Miss Fung shared the innovative measures of  
the Housing Department on September 4th  
Among them, you may find your work in the video  
If you do a little more innovation  
we will have more material to share

On September 5th, we mentioned that  
they valued the participation of young people  
The one at the end of the table on the left-hand side is  
their second minister of  
the Ministry of Manpower of Singapore  
They can find a group of young people  
to join the work of occupational safety and health  
They invited more than a hundred people over the world  
On the right-hand side, they went to the stage to share



what they have gained and contributed in their homeland  
After finishing this meeting, they can exchange their ideas  
when they return to their homeland  
Becoming a network of the whole world  
they raise the level of occupational safety and health  
in their own places

There was also an exhibition from September 3 to 6  
there were robots

Some contractors in Hong Kong  
have also begun to participate  
Some contractors use virtual reality  
as one of the training tools

Time flies, in the closing ceremony  
the minister of the Ministry of Manpower made a closing

Also, one doctor was invited

He has suffered from polio since his childhood

Why was he sick?

Because his parents did not vaccinate him

He missed one injection

and he's lame. So he needs a wheelchair

But he didn't give up and finally became a doctor

He came up to the stage to talk

about the importance of prevention

He has to be in a wheelchair

for a lifetime because he missed one injection

He wouldn't have been like this if he had got vaccinated

We visited the 3M company

the picture in the lower left corner

Everyone knows

what is at-risk behaviours and unsafe conditions

Then it becomes a near-miss

When you drop an object, you pick it up

if not it may trigger further injuries

If the incident is serious  
it is necessary to report it to the Labour Department  
Worse, it may become a fatal accident  
Progressive layer by layer  
We stress that contractor  
need to timely report near-miss incidents  
We place importance on it. Today is a near-miss accident  
I don't know if it will become a fatal accident tomorrow  
This is the end of my sharing  
Thank you

Thank you for watching

(20:10)