

INTERNATIONAL **rental** CONFERENCE

ASIA



Tim Whiteman

IPAF

4 Great reasons to Manage Safety with MEWPs

选择MEWPs 的四大理由

INTERNATIONAL
rental NEWS



Why are we here today?

Working at height is a high risk activity.

People are exposed to serious risks such as
falling, overturning
electrocution, crushing against objects,

Alternatives are ladders, scaffolds, hoists, cranes...

4 Great Reasons

to manage safety with MEWPs

Working at Height ?

MEWPs are used throughout the world

MEWPs 全世界使用，具有国际影响力



4 Great Reasons to manage safety with MEWPs

1

MEWPs are safe
MEWPs 倡导安全性

1.35 million MEWPs
in rental fleets

www.ipaf.org/reports

900,000 operators

who each day are working
safely on MEWPs

*It is possible to have zero accidents
Accident management saves time, money and worry*



4 Great Reasons to manage safety with MEWPs

MEWPs are safe

MEWPs 倡导安全性

Falls from height are **20 - 30%** of all fatal workplace accidents
约有20-30%的户外工作场所致命事故是由于从高处坠落导致的

Top 3 causes of Falls from height are
1. Structures 2. Roof 3. Ladder

Safer than ladder or scaffold

4 times more likely to fall from a ladder

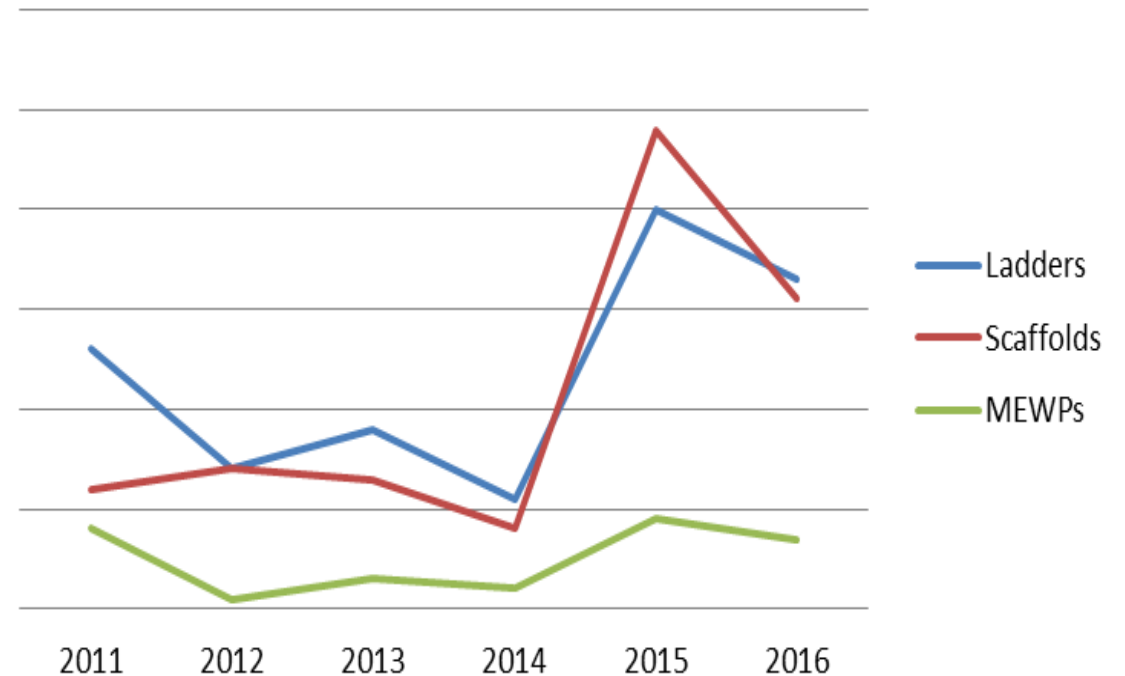
3 times more likely to fall from scaffolding

MEWPs have very low fatalities

在MEWPs 死亡率很低

MEWP involved in only 0.67% of all fatal workplace accidents

Fatal Falls from Height by Access Type

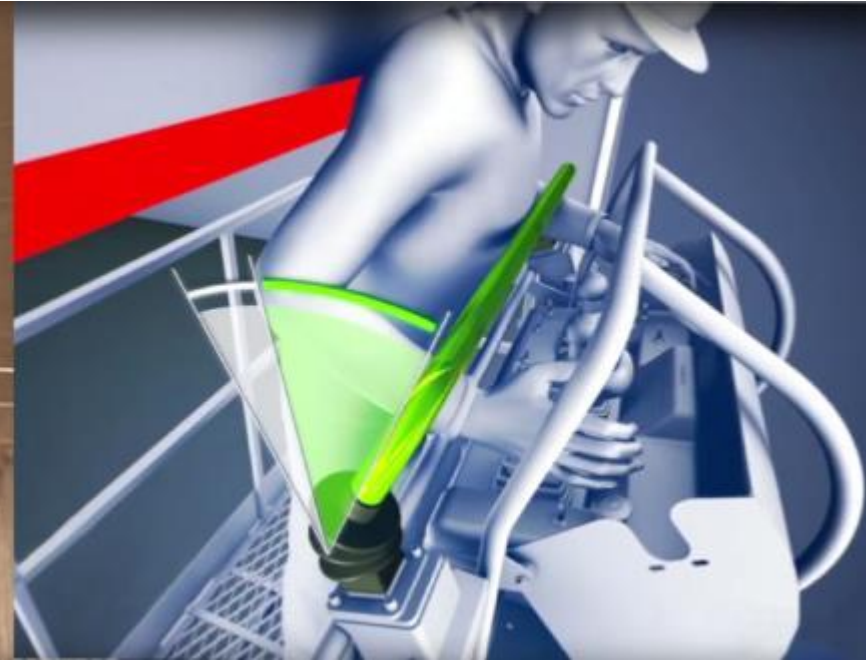


Study of 10 countries reported fatalities.
(Austria, Australia, Canada, Germany, Hong Kong, Ireland, Japan, Singapore, UK, USA)
The study uses government published reports since 2000.

4 Great Reasons to manage safety with MEWPs

MEWPs are safe MEWPs 倡导安全性

New technologies



4 Great Reasons to manage safety with MEWPs

② MEWPS are Productive MEWPs是富有成效的

Common Reasons to use a MEWP

*“The key driven factor for increased adoption of the MEWP is for **boosting of site productivity.**”*

越来越多的人使用或接受MEWP的主要因素是源于相信MEWP能促进生产力

*“MEWPS such as Scissor lifts and Boom lifts are highly **versatile**”*

MEWPs 具有非常高的通用性

Efficiency + Avoid Delays + Versatility = Project Completed



4 Great Reasons to manage safety with MEWPs

MEWPS are Productive MEWPs是富有成效的

Comparison of Plastering

Manpower Productivity increased **6 times**
when using a boom or scissor lift instead of
scaffolding

Cost reduced by **5 times** in total cost

Singapore MOM Study 2018.



4 Great Reasons to manage safety with MEWPs

3 The cost of accidents is high 事故处理的成本是非常高的

financial



social



productivity



business focus



“Fines for work safety violations rose **58 %**
in the year to about **3.3 billion yuan**
(US\$521 million)”

China Daily 30 January, 2018

4 Great Reasons to manage safety with MEWPs

The cost of accidents is high

Accident Cost Analysis

Loading of boom-lift
at a customer site

Due to driver error the
boom-lift drove off truck
and overturned



MEWP Damage	17,500
Transport to remove MEWP	150
New MEWP Rental	250
Transport of replacement MEWP	150
Environmental clean-up	2,600
Personal Injury	20,000
Replacement driver**	500 / day
Government investigation charges	3,700
Internal investigation & admin	15,000

Total Cost: **60,000** GBP

535,000 YUAN

Not including replacement driver

4 Great Reasons to manage safety with MEWPs

4 Accidents are used to improve Safety 事故的发生是安全性改善的重要信号

Similar to the aircraft industry



IPAF ACCIDENT REPORTING

Username

Password

SUBMIT

[Forgotten Your Details ?](#)

Not Registered ?

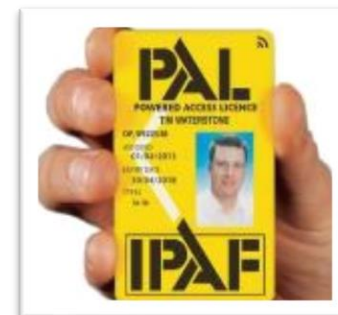
[Sign Up !](#)

The preferred way to report an accident is to register your details (above) and obtain a secure password to access the confidential reporting database.

If you are unwilling to register to use this reporting system, please click on the box below to inform IPAF of any fatal accident involving powered access equipment.

ANONYMOUS REPORTING

Training
Technical Guidance
Regulations



www.ipaf.org/cn
www.ipaf.org/accidents



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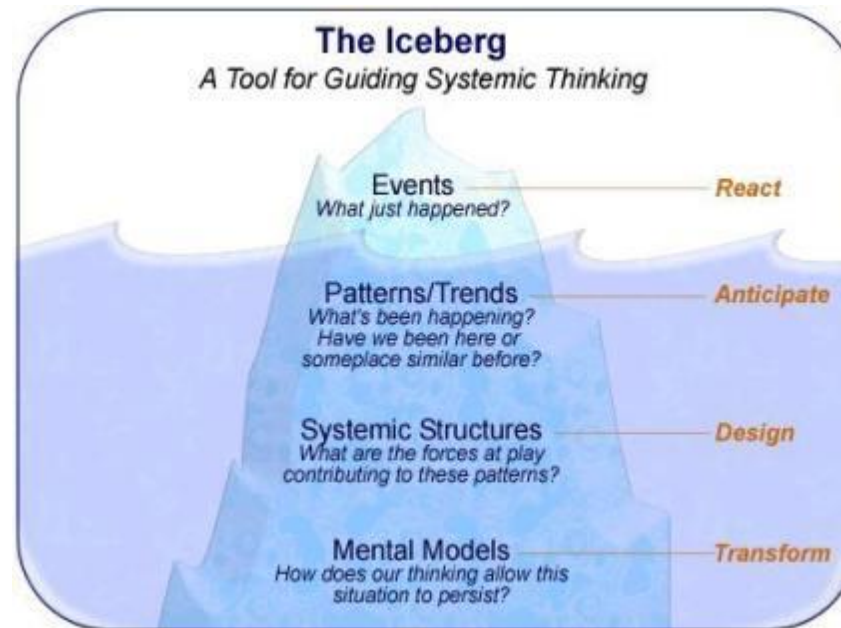


4 Great Reasons to manage safety with MEWPs

Safety improvements can be made by monitoring and reporting accidents & risky actions

Globally we have information on MEWP accidents

可以通过监测以及报告事故和危险的行为来提高和改善安全性



Identification

Identifying high risk situations before an accident occurs

And then implementing safe working practices

Benchmark

Preventable accidents...



Home / News

Workplace death toll 'too high'

By AN BAIJIE (China Daily)

Updated: 2015-03-11 08:11:50



Known knowns

Known unknowns

Unknown unknowns

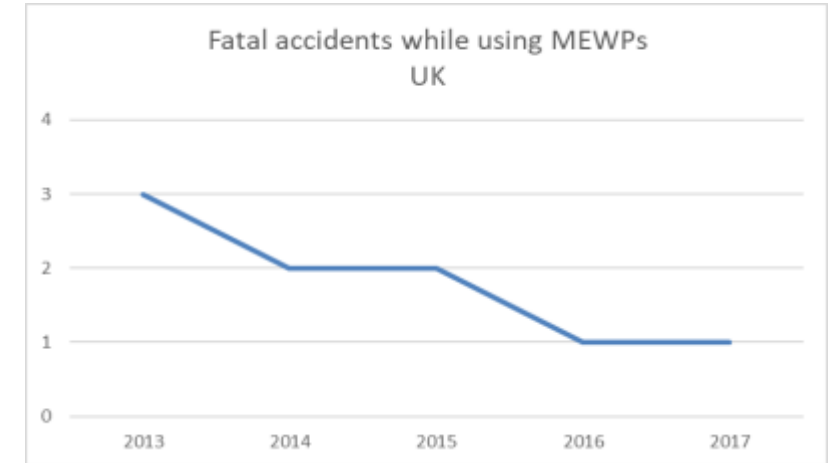
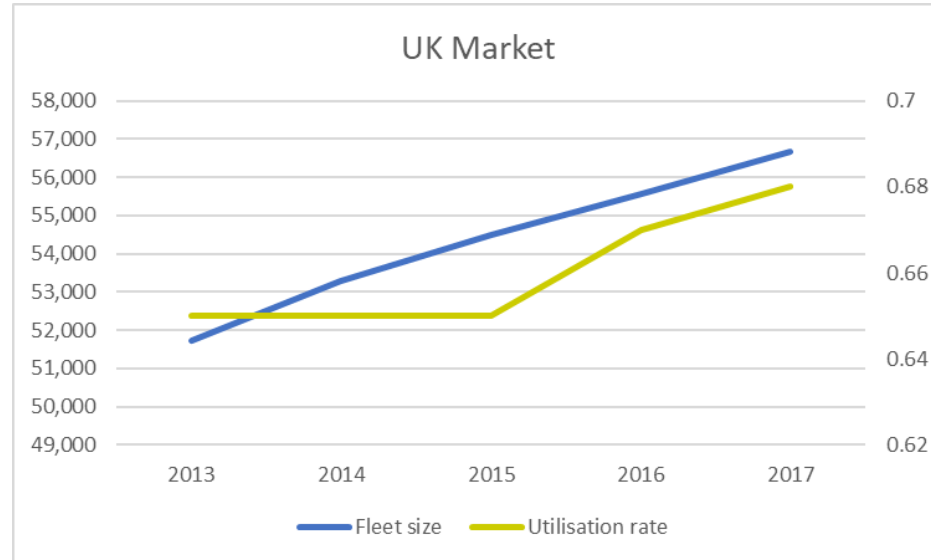
Donald Rumsfield



4 Great Reasons to manage safety with MEWPs

Benchmark to the UK 来自英国的参照

Learn from others 他人的信息



Unspoken Dangers cannot be addressed

4 Great Reasons to manage safety with MEWPs

1. MEWPs are safe
2. High productivity of MEWPs
3. High Cost of accidents
4. Industry learns from Accidents

倡导安全性
是富有成效的
事故处理的成本是非常高的
事故的发生是安全性改善的重要信号



and now

**4 top resources
to improve
safety**

4 Top Resources to improve Safety

① Andy Access & Tool Box Talks



4 Top Resources to improve Safety

2 IPAF 2018 Safety Campaign : Plan Ahead to prevent falls



Falls from the work platform can be avoided through Proper Planning

1. Ensure operators are trained
2. Conduct a risk assessment
3. Inspect the MEWP
4. Set up Traffic Management & Exclusion zones
5. Stay in the platform
6. Supervise and stop risky actions

Falls begin on the ground. Plan for safe use

4 Top Resources to improve Safety

3

Beyond operator training 除去操作者的培训

- MEWPs for Managers MEWPs还提供经理级别的培训
- Load / Unload for Delivery Drivers 装载 / 卸载等驾驶



高空作业许可证 (PAL)

- 证书和高空作业许可证
- 所列类别
- 记录经验的记录簿
- 有效期为 5 年 - 更新或更新课程

IPAF logo and website: www.ipaf.org

The future of training



Online “e-learning”
Virtual / Augmented Reality
Simulators



4 Top Resources to improve Safety

E-learning

Site Tour

You now need to tour the site and see where the work is taking place.

Explore the sites and select ALL the hazards that you find along the way.
You can zoom in and out by using the '+' and '-' buttons on the top left of the image.

MEWPs for Managers



4 Top Resources to improve Safety

Augmented Reality MEWP Simulators



4 Top Resources to improve Safety

4

Choose Safety – Malaysia initiative
选择安全 --- 马来西亚倡议

4 Top Resources to improve Safety

The final word....

4 Great Reasons to work at height with MEWPS

1. MEWPs are safer
2. Productivity of MEWPs
3. Financial Cost of accidents
4. Industry learns from Accidents

倡导安全性
是富有成效的
事故处理的成本是非常高的
事故的发生是安全性改善的重要信号



4 TOP resources to improve Safety

1. Andy Access
2. Safety Campaign – Plan ahead
3. New training
4. Choose Safety Video

Goal for 2019:

Learn from others by **Benchmarking Accidents**

来自英国的参照

Thank you

谢谢



高空作业平台
的世界权威



请来我们的
**J54室外展
位参观!**



www.ipaf.org/cn