

### Who are we?- Keller

Every day millions of people around the world live, work and play on ground prepared by Keller

### Our purpose

To help create infrastructure that improves the world's communities

### **Our vision**

To be the world's leading geotechnical contractor

#### Our values

- Integrity
- Collaboration
- Excellence



# **Three divisions** 21 business units 1.8bn 180 branches revenue 6,000 10,000 contracts pa employees



# **Data and Digitisation**

'Facts and statistics collected together for reference or analysis'- Oxford press

'The conversion of text, pictures, or sound into a digital form that can be processed by a computer'
- Oxford press



Integration of digital technologies into everyday life by the digitization of everything that can be digitized. ...



# **Historical Perspective**

- Poor law
- Factories Act
- HSW Act
- European risk based legislation (six pack)
- What next?







- The silent generation
- Baby Boom
- Generation X (Thatcher's children)
- Millennials (my children)
- Generation Z children of the internet?
- Generation C or the Connected









# How is the landscape changing

 Adaption - people adapt quicker to emerging and disruptive technologies -UBER

• 'Internet of things' estimated 50 billion IoT Sensors by 2020 and more than 200 billion "Things" on the Internet by 2020

billion "Things" on the Internet by 2030

- Application Programming Interface (API) joining things together
- Embracing the remote or peripatetic labour force
- Augmented and Virtual reality training
- Enhanced user experience smartphone
- Big data so much information is available
- Artificial intelligence change the employment landscape
- Genetic tracking predictive identification
- Bio-sensing nanotubes

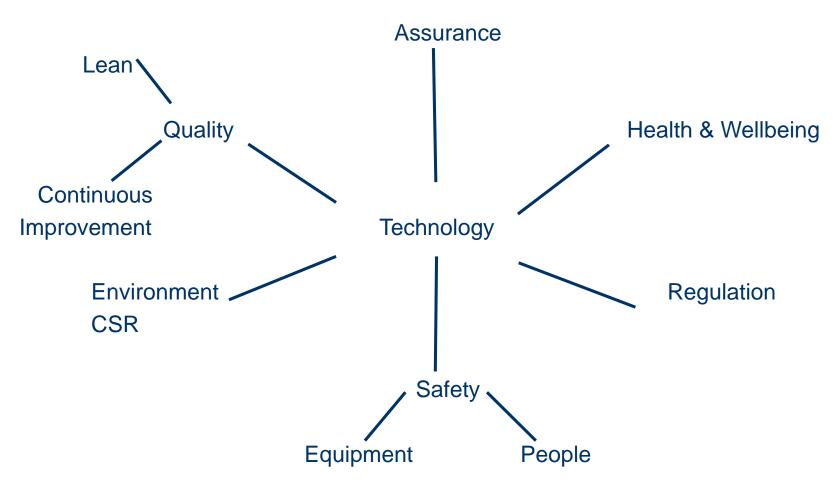








### The HSE Interface





## Health, safety and environmental risk management fundamental to success

Developing risk understanding Putting in common systems Aligning culture & goals Assuring systems

2016 2012 2013 2014 2015 2017 2011 Five-year strategy New Director HSE Integration of Integration of Quality with **HSE**  Safety improvement plans Quality with HSE 'Think Safe' launched and quality and Assurance regime Quality and continuous First safety conference continuous improvement tools First alerts system improvement focus Sustainability programme Monthly reporting (e.g., Carbon Disclosure) Think Safe Rules KELLER Occupational Health Policy

- Group level resourcing
- First full Think Safe assessment
- HSE portal

- Sustainability Policy
- Think Safe Policy and guidance
- Safety culture survey

Digitalisation



# **Technologies**



Data collection and analysis



Biometric scanning for access control and hours monitoring

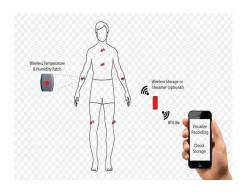


Automated and GPS machines



Environmental monitoring

Myzone box.



**Human Health Monitoring** 



BIM



Safe zone working

MYZONE – worker alert system

Myzone boxes will be mounted to the rigs.

The boxes are programmed to emit a signal which can be adjusted to different exclusion zone lengths.



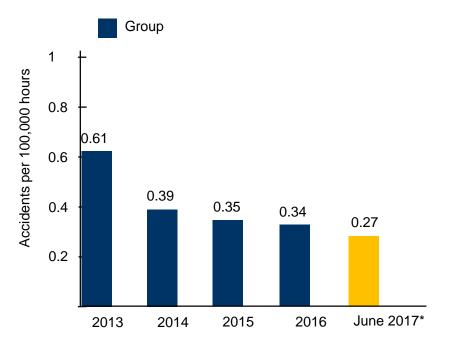
Site cam - records

# Safety performance

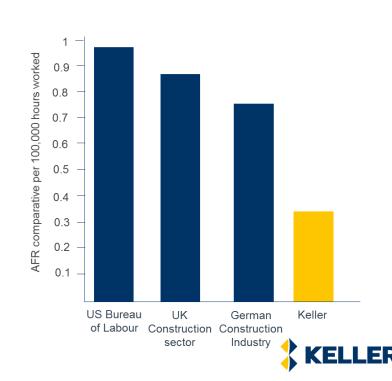
- Accident Frequency Rate at all time low
- Since introduction in 2013, our Think Safe programme has helped reduce accidents in our business by around 77%

Benchmarking shows our performance is around 50% better than UK construction and specialist construction sectors

### **Accident Frequency Rate (AFR)**



#### **Comparative AFR 2015/16**











Quote of the Day- Forbes

People who lose their relevance get stuck in the past because they're no longer in the present moment.

Marc Benioff, Founder of Salesforce

