

# Rethinking and refinement of risk assessment

Exchange of good practices in OSH Healthy Workplaces Campaign Partner event Brussels, 6 March 2019.







## Introduction

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Federation of European Ergonomics Societies

**Communication and Promotion Committee** 



Trends in the real World: IT, Big Data, I 4.0 etc.

## Safety reflections

- Risk is our language
- RA expansion and integration
- Risk assessment / risk map
- Ways to maintain risk map
- Dynamic Risk Maps
- Adaptive intervention

## Challenges

- Technology side
- Human / behaviour side
- Human Factor Implications





#### Refinement of Risk Assessment with focus on Human Factors

Dr. David Tjong
Retired Global Director, Health, Safety &
Environment
Ideal Standard International

- Understanding Human Behaviour
- Implement different solutions, focus on fixing the system & processes, rather than on fixing the people

## **Perception**

Communication, Warning signs (Visual/Audible) Labels, Colors

## **Memory**

Risk Awareness (share Inc/Acc), Communication on Lessons Learned, Inductions/Training, Warning signs (Visual/Audible), Labels, Colors

#### **Decision**

SOP, Procedure, Manual

#### Action

Engineering / Technical, Poka yoke (fool proof)







## **Integrating OSH information processes**

#### 2018

#### 12500 safety alerts

- 1000 alerts per month
- 35 alerts per day
- 650 alerts per site
- 55 alerts per month per site
- 2 alerts per month per site
- FMEA based risk assessment
- OHSAS18001/ISO45001
- equipment'signoffs, etc..

## **Fernando Lopes**

Global Environment, Health & Safety and Sustainability

**Delphi Technologies** 



## → Integrating OSH information process

real time, online tools, connect safety alerts to risk assessments real time risk assessment management & management information



- + different variables / 'types of hazards and risks'
- → What's really worth doing next?

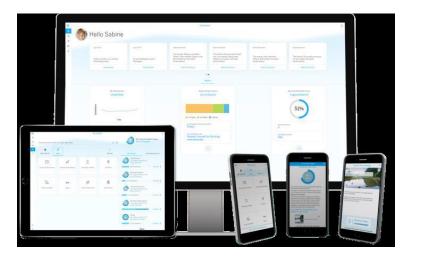
→ Rethinking and Refinement of Risk Assessment





## **Rethinking and Refinement of Risk Assessment: Future Trends**

Dr. Natalie Lotzmann
Vice President Human Resources
Chief Medical Officer
Head of Health & Well-Being
SAP SE







## **Smart PPE**

Henk Vanhoutte secretary general European Safety Federation (ESF)



- Gloves with GPS (Zanier)
- Gloves with infra red sensor for heat (firefighters) (Zeis)
- RFID in PPE several applications
- Bicycle helmet airbag (Hövding)
- Use of VR for training (e.g. FIOH)
- Helmet with detection system
- Exosceleton PPE or not ?

















## New approaches of integrative risk assessment

Thorsten Uhle
Head of Occupational
Safety & Health Governance
Bayer AG

