

# Tools for Vision Zero to come true

**10<sup>th</sup> SISE Symposium 2018**  
**28-29 May 2018,**  
**Belo Horizonte, Brasil**

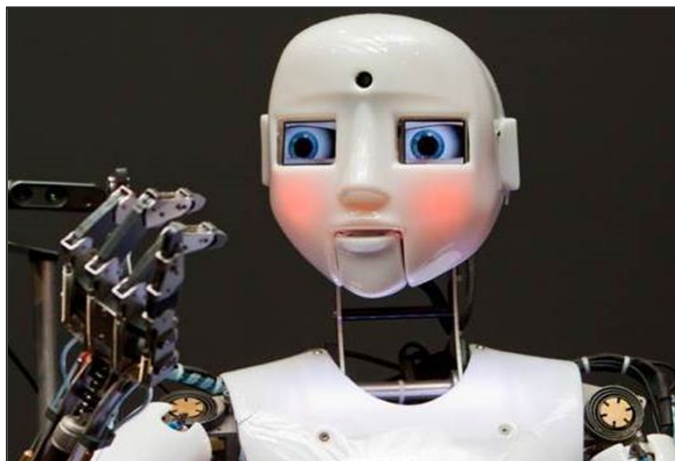




# Important Megatrends

## Technological and Economical Changes

- automation
- robotics
- digitalisation
- globalisation
- financial/economic crisis
- ...



© Andreas Wahlbrink - DASA

## External Social Changes

- increasing diversity and migration
- strive for sustainability
- work-life-balance
- internationalisation as well as protectionism
- ...



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## Societal Challenges

- demographic change
- youth unemployment
- lack of skilled workers
- ...



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**We need a strategy covering  
OLD and NEW risks and loads!**



**VISION ZERO** 

Safety.Health.Wellbeing.



## Definition

# VISION ZERO

Safety.Health.Wellbeing.

Vision Zero is the vision of a world without occupational accidents and work-related diseases. Its highest priority is to prevent fatal and serious work accidents and occupational diseases. Vision Zero is the goal of a comprehensive culture of prevention.





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INTERNATIONALE VEREINIGUNG FÜR SOZIALE SICHERHEIT

Section on Information for Prevention



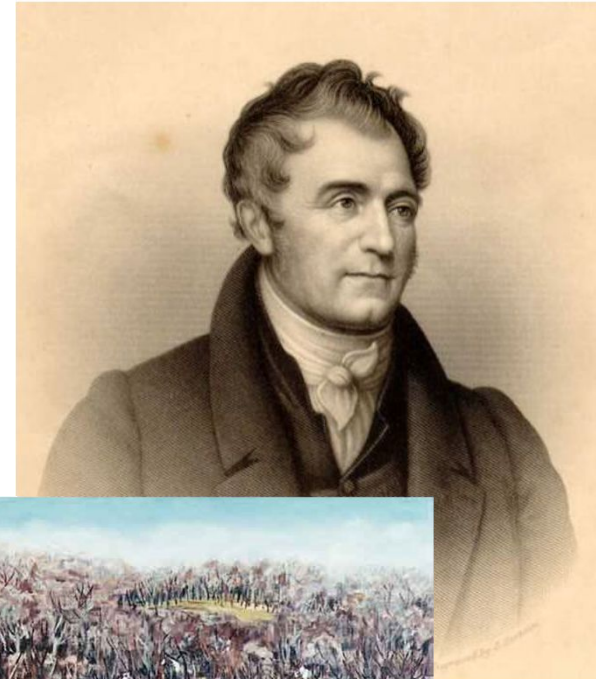
# History of Vision Zero

## 1811

**As a consequence after severe explosions in his powder mills in Wilmington (USA),**

**Eleuthère Irénée du Pont**

- made his managers responsible !
- defined safety rules !
- improved technology !



Source: © DuPont.com



## Vision Zero Fundamental Principles





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## Vision Zero Consequences

If life and health are  
not negotiable

and human beings are  
fallible

**VISION  
ZERO**

Safety. Health.  
Wellbeing.

than it is ethically not  
acceptable

to fine s.o. making a  
mistake with death  
punishment or serious  
injury or disease



## From Safety Culture to Prevention Culture

To effectively move towards the goal of **VISION ZERO**   
Safety.Health.Wellbeing.

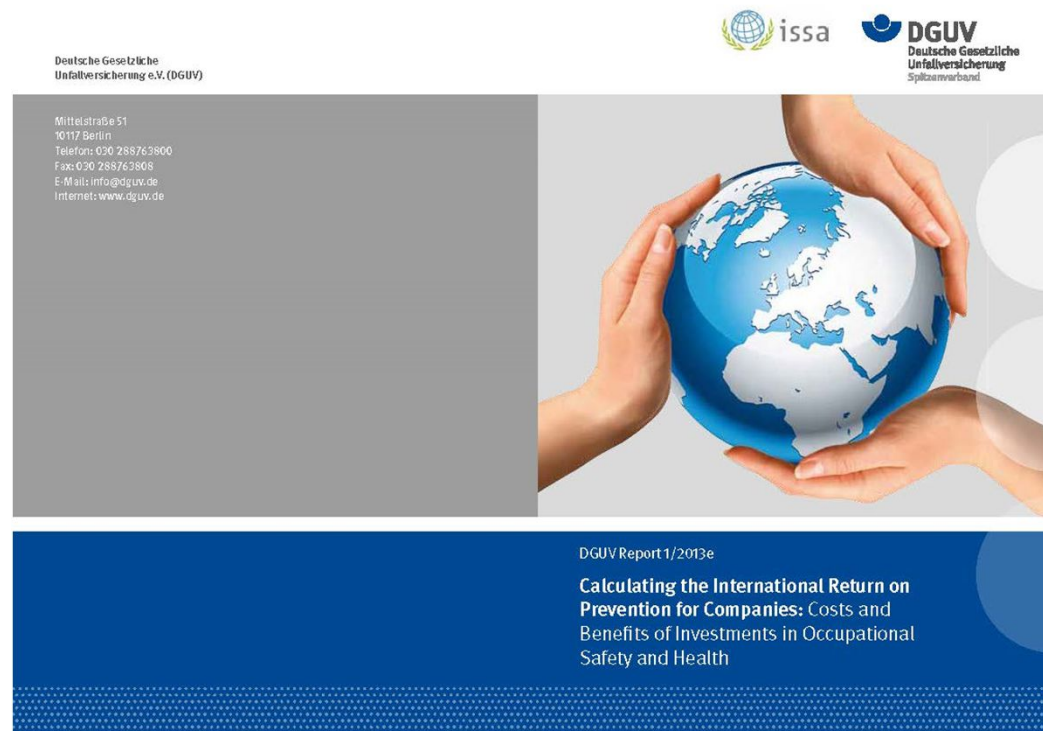
we have to strive for establishing a **Culture of prevention**:

- **Supervision and regulation** are no longer the only solution
- **Promote a preventive work safety and health culture** for a safe and healthy enterprise or organization
- **Health and safety as an integral part of life** and lifestyle  
– so for work and life





# International Return on Prevention (RoP)



- [http://publikationen.dguv.de/dguv/pdf/10002/23\\_05\\_report\\_2013-en--web-doppelseite.pdf](http://publikationen.dguv.de/dguv/pdf/10002/23_05_report_2013-en--web-doppelseite.pdf)

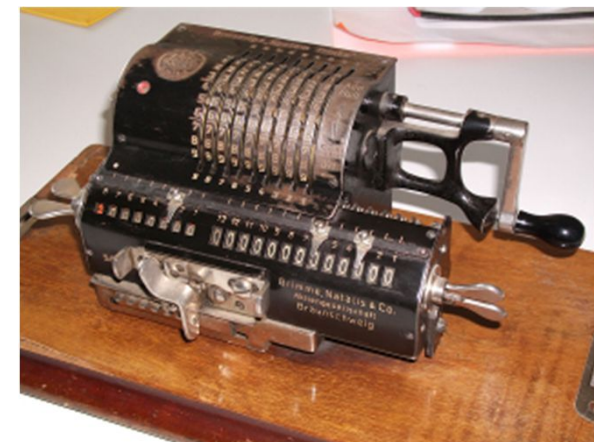


# SUCCESS: Return on Prevention

(Results of an ISSA research project)

$$\text{ROP} = 2.20$$

Each Euro/Dollar/Peso invested in OSH generates a potential for increased commercial success of 2.20 Euro/Dollar/Peso.



Karl-Heinz Laube – pixelio.de



International social security organisation



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INTERNATIONAL SOCIAL SECURITY ASSOCIATION

VISION ZERO

## Guide with 7 „Golden Rules“

### 1 Take leadership - demonstrate commitment

**Be a leader – wave the flag! Your conduct as a leader is decisive for the success or failure of safety and health in your company.**

Every employer, every executive and every manager is responsible for safety and health in their enterprise. The quality of leadership not only determines how safety and health are practiced in the enterprise, but also how attractive, successful and sustainable it will be. Leadership demands open communication and a clear management culture. Good leadership is exhibited for example by predictability, consistency and attentiveness.

Executives and managers are role models: they lead by example. They establish the rules, and they follow the rules. They make sure that everyone knows the rules and that they are followed. Violations of the rules need to be addressed immediately – look at things! Pointing out hazardous conditions is to be rewarded. What managers do, tolerate and demand sets the standard for other employees.

© Vision Zero Guide

### How do things look in your enterprise?

	Individual Rating	Overall Rating
<b>1</b> I demonstrate safety and health, set the standards and serve as a role model for my employees and managers. I am responsible for the safety and health of my employees. I am aware of this and accept this responsibility. I have established and communicated occupational safety and health objectives (mission statement, principles). Safety and health take precedence for me – in case of doubt I say “stop”. Safety and health is always the first item on the agenda in all meetings of my enterprise. I am aware that I serve as a role model. I follow the rules and use personal protective equipment. When I see unsafe action, I intervene immediately and talk to the person involved. I attend training opportunities on occupational safety and health (OSH) for leaders and obtain current information.	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
<b>2</b> The importance of safety and health is known to everyone in my enterprise – and we talk about it openly. We have clear rules for working safely. I make sure that every employee knows the rules. I discuss safety and health matters with my employees. My employees always know who is responsible and in charge. I solicit feedback from my employees to determine whether I live up to my function as a role model.	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
<b>3</b> I act consistently and demonstrate the importance safety and health at work has for me. Before anyone in my enterprise assumes management responsibilities, he or she attends an OSH leadership seminar. My managers know how important occupational safety is to me. Rules are followed equally by all employees and managers. I praise correct action and consistently address misconduct. I do not tolerate disorder or negligence at the workplace. I also emphasize the importance of occupational safety and health in the enterprise to contractors, companies we work with, suppliers and customers.	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
<b>4</b> I lived in safety and health in the enterprise. My employees have sufficient time to do their work carefully and safely. My employees know their right and duty to stop work if it cannot be done safely. I and all my managers regularly verify that safe work practices are followed, for example in the course of safety inspections, safety audits, cross-audits and according to the principle of dual control. I make sure that adequate means and a financial budget are provided for safety and health.	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>



Agriculture



Chemistry



Culture of prevention



Construction



Education



Electricity



Health



Information



Iron and Metal



Machine and System Safety



Mining



Research



Transport



# 7 Golden Rules





# 1

# SHOW COMMITMENT & LEADERSHIP

Dr. S. Timm, DGUV-ISSA Information Section

Belo Horizonte, Brail, 28-29 May 2018



# IDENTIFY RISKS & HAZARDS

# 2



3



# SET TARGETS



4

ENSURE A HEALTHY &  
SAFE SYSTEM



A photograph of a yellow construction vehicle, possibly a forklift or a small truck, with a worker in a high-visibility yellow vest standing next to it. The worker is looking down at something in his hands. The vehicle has a yellow frame and a black cab area. The background is slightly blurred.

# 5

# USE SAFE & HEALTHY TECHNOLOGY

Dr. S. Timm, DGUV-ISSA Information Section  
Belo Horizonte, Brazil, 28-29 May 2018

A photograph of two men wearing hard hats and white shirts, looking at large sheets of paper (blueprints) outdoors. The man on the left wears a white hard hat and the man on the right wears a yellow one. They are both holding red folders. The background is a clear blue sky with a bright sun on the right side, which is partially obscured by a large yellow circle containing the number 6.

6

IMPROVE  
COMPETENCE



A man wearing a red hard hat and a blue jacket with orange reflective stripes is holding a wooden plank over his shoulder. He is standing in front of industrial equipment, possibly a train or large storage containers. The background is slightly blurred, showing more industrial structures and a clear sky.

7

INVOLVE PEOPLE  
INVEST IN PEOPLE



## Vision Zero tools

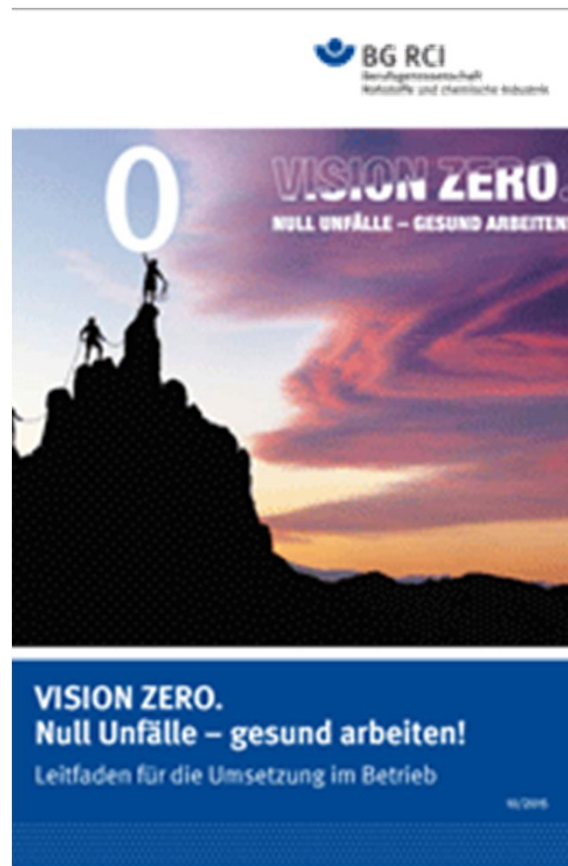
- 7 Golden Rules APP is available (IOS and ANDROID)
- Updated/New version will be available soon

Vision Zero is applicated/used in many settings (examples)





## BG RCI: **VISION ZERO.** Zero accidents – healthy work! The new prevention strategy.

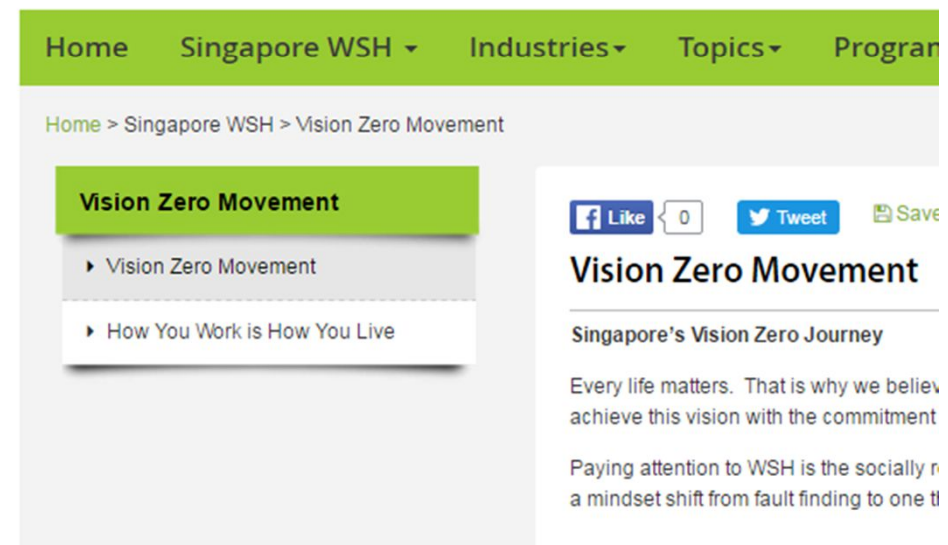
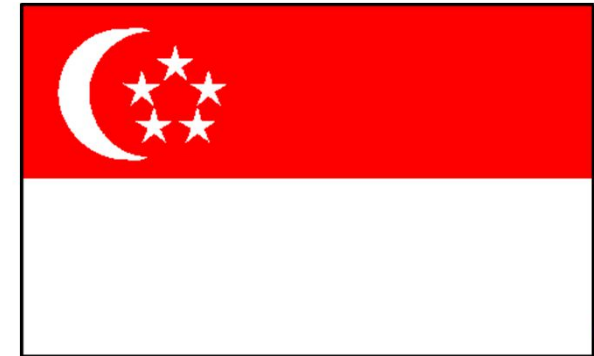


- Guide with concrete goals for the reduction of accident risks and occupational diseases
- prevention offers and measures checked for utility – further development according to the needs
- 7 Golden Rules in order to design work processes safely and healthily
- Systematic check lists (elaborated by 700 operational practitioners and 300 prevention experts of BG RCI)



## Singapore – A Vision Zero Journey

- Ministry, Institute WSHI und WSH Council (national Work Safety Alliance) demand and promote a paradigm shift regarding the mindset in OSH: Vision Zero Movement
- Vision Zero as the driving force for excellence in the results in health and safety at work within the enterprises
- Systematic approach with 6 steps
- Manager meetings
- OSH events for the general public
- Promotion and award contests







## Siemens - Priority one: Zero Harm. Safety, it's a mindset!

- Managers are the designers and vanguards with courage to practise a “Zero Harm Culture” – Safety experts are supporting them.
- Systematic approach with:
  - Daily Safety Meetings
  - Safety Bulletins
  - Self-Checking
  - Pre-Job Briefing
  - Three-Way Communication
  - Take Five Cards
  - Peer Checking
  - Human Performance Kits



Siemens strives for a target of

# Zero Harm



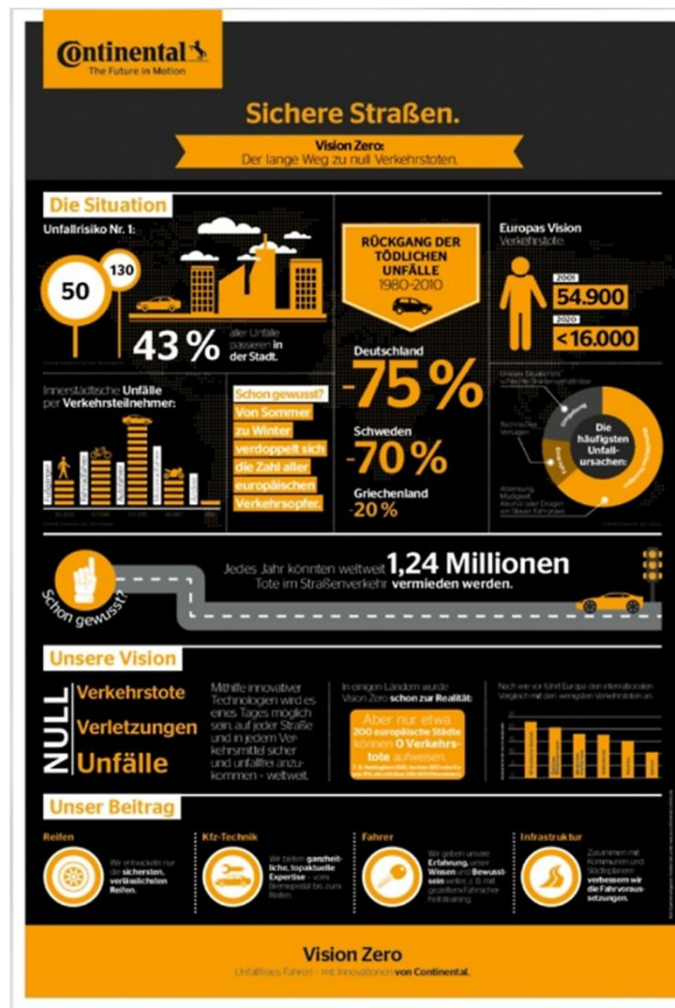




Safety equipment producer international



# Continental: Safety components and systems contribute to Vision Zero

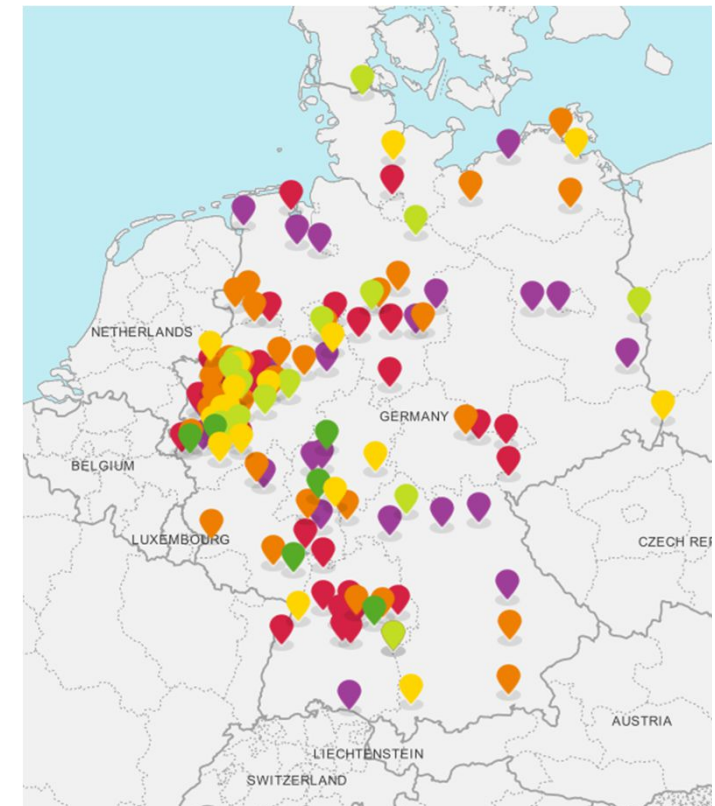


- Technical components and systems of producers contribute to Vision Zero
- Promotion of a Vision Zero World
- Fact Sheets on road safety



## DEKRA – Vision Zero Map: VZ is not utopia!

- VZ in road safety : There are already many cities, which reached this goal – in Europe, but also in the USA and Japan.
- Hundreds of cities in 17 European countries have reached the VZ goal at least once during the period 2009-2012 through increased efforts.
- 16 of these cities recorded no traffic fatality in the whole period 2009-2012.
- <http://www.dekra-vision-zero.com>





## Vision Zero: All settings, cultures and mindsets have to be respected and taken into account

- **different initial situations** leading to different “mindsets on prevention” (diverse societies, globalisation and their accompanying developments)
- **establishment of a “culture of prevention”** taking into account the cultural background of the respective group or the society
  - all “**objective**” and **rational aspects might be suitable** for any group of working people, but
  - **cultural and societal habits** and manners have to be analysed - all-embracing
- **elaborate tailor-made approaches**, fitting to the needs of the target-groups



Viktor Mildenberger – pixelio.de



# VISION ZERO

Safety.Health.Wellbeing.

Thank you for your attention.

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SIMPOSIO INTERNACIONAL  
SOBRE SEGURIDAD ELÉCTRICA

**SISE**  
2018

