View to the future: „Vision Zero in Transportation“

www.issa.int/web/prevention-transportation
Transportation is a Global Business
What does „Vision Zero“ mean in Transportation?

A prevention strategy that has the vision of a world of transportation and logistics as an aim where no one is killed, becoming seriously ill or seriously injured in a traffic accident or at work!
If you don’t believe in Vision Zero yet...
Also others have been mistaken....

„The automobile is just a temporary appearance.“
„I believe in the horse.“ Wilhelm II regarding road transport by motorcars
“Self-driving collision-free cars are only a gadget and will never be accepted.” "I believe in free individual traffic.”

unknown safety supervisor 2012 (not ISSA Transportation)
Vision Zero is not far away.

Occupational accidents in Germany with 42 million employees

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Severe accident/ OD

Social accident insurance

Examination/Instruction

Hope!
The previous (current!) prevention work of social security institutions lead to a (slow) reduction of the number of severe accidents and ODs and has reached a steady state. To achieve further success one has to look more specifically at causes of accidents and occupational diseases.
Classic prevention: The way is the aim!

Vision Zero:
Only who knows the aim, finds the way!!
Vision Zero for road transport and workplaces

1. Roads and work places have to be designed in such a way that they are forgiving mistakes.
2. Vehicles have to be actively and passively save.
3. For both points apply, a small mistake may not have drastic consequences!
4. A human has to behave in such a way that he/she makes as few errors as possible.
Conference Center Dresden

Bus stop

Well intended prevention thought of urban administration

Me
The Challenge: Human Behaviour
The Challenge in Transportation

- High rate of serious accidents [1.2 mio fatalities p.a. worldwide (WHO)]
- Non stationary workplaces are often the reason for difficult access to prevention measures (SMEs!)
- Often poor technical equipment or machinery
- New upcoming risks for ex. piracy, UV radiation, multi ethnical problems on board of ships
- Serious Problems with handling and storage of Dangerous Goods
- Stress & Fatigue in Transportation and Logistics as well as ergonomic and psychosocial risks increase the accident rate and the complexity of prevention
Vision Zero Strategy Sequence in Transportation

Possible strategy sequence of Vision Zero

- Fatal
- Of serious consequence
- Severe
- Light
- Near-accidents
Principal strategy sequence of Vision Zero
Strategy sequence

Principal strategy sequence of Vision Zero

- Near-accidents
- Light
- Severe
- Of serious consequence
- Fatal
Strategy approach

1. Targeted elaboration of the most important accident causes in transportation and logistics
2. Establish a priority list of measures based on 1.
3. Establish secure conditions, so that a human has to behave in such a way that he makes as few errors as possible.
Vision Zero Approach

- Severe accidents/ ODs
- Social accident insurance
- Analysis, Statistics: Typical OD or Accident? VZ?
- Feedback!
- Standardisation
- Action Plan + „7 Golden Rules“
- Enterprises
Seven Golden Rules of Vision Zero

1. LEADERSHIP
2. RISK ASSESSMENT
3. TARGETS
4. SAFE SYSTEM
5. TECHNOLOGY
6. COMPETENCE
7. PEOPLE
Providing visible strategies for enterprises: e.g. adapting seven golden rules of ISSA prevention to transportation!

Minimizing the very high rate of fatalities *(by speed, fatigue, stress, weather)* of road transport (plus load unload accidents; handling of dangerous goods)! (Golden Rules No. 3, 4 & 5)

Analyzing dangerous behaviour and change behavior of employees: put the question in the center “Why is (s)he doing it? (Golden Rules No. 6 & 7)

Not only identify “classic” accident causes but also sources for stress & fatigue in risk evaluations (Golden Rules No. 2 & 6, 7)

Shaping a general „culture of prevention“ (Rules 1 – 7)

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Some possible Tools for VZ in Transportation

- Supporting all types of driver assistance systems!!
- Improve systems for securing of cargo
- Better protected parking space (*noise, fatigue!! attacks*)
- “Doc Stop” (*system to get medical aid and advice*)
- Technical assistance systems for manual handling of heavy goods
Securing of Cargo is important

Loading Safety – Challenges for Everyday Operations, A +A
Thursday, 29. October, 15:15 – 16:30, Pavillon15
Challenges for VZ in Transportation

- Bringing together global Enterprises and Social Security Institutions for creating global OSH Standards

- OSH must become more „attractive“ ; find new communication channels
  Rules & regulations available for ex. by an app; use of social networks

- „Become more international“
  Adapt solutions from other countries and reflecting them back
  Linking with international or national organizations; share best practices,
  Involve ISSA Prevention

- Anticipate developments („Risk Observatory“ of Social Security Institutions)
From Today to Future..

Work in Transportation Business without fatal and severe accident does not exist and will never be realized...! Possible opinion in 2015

Order of the GUSAITL* direction in the year 2045...

Berlin, Oct., 29th 2045

Dear Sirs and Madams!
Due to the fact that the last fatal work accident on the field of activity of the GUSAITL and other parental organisations had happened two years ago, the General assembly has decided to dissolve the accident departments as independent units. The remaining employees are transferred to the Prevention Division!

The management

*German United Social Accident Insurance for Transportation & Logistics (GUSAITL)
Vision Zero: Together we´ll make it!

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Thank you very much for your attention!

Questions??
Current challenges

.... – in the industry sectors -

- Practicable aims for small and medium sized enterprises (SME)
- Do not overexert enterprises but convince them that prevention is worthwhile: costs sickness absence
- Simple but effective and bold possibilities for risk assessment