

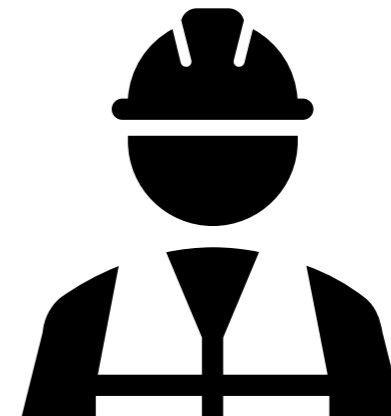
**Online Workshop**  
**International Experiences on Construction Workers-Challenges & Solutions**  
**30 July 2021**

**Vision Zero tools developed by the ISSA Construction**

Prof. Karl-Heinz Noetel, BG BAU, Germany

President of ISSA Construction

# The current situation in the construction industry worldwide...



**The fatality rate in construction is around 2,5 times higher than in other industries.**

## ***Crane Accident in Austin Injures at Least 20 People***

Source: The New York Times, USA

Bayern

## **Gerüst auf Baustelle eingestürzt - vier Tote, ein Verletzter**

**“Scaffolding collapsed on construction site - four dead, one injured”**

Source: Spiegel, Germany

## **Accident du travail : un ouvrier meurt écrasé par une plaque de béton sur un chantier à Mérignac**

**“Occupational accident: a worker dies - crushed by a concrete slab on a construction site in Mérignac ”**

Source: Le Figaro, France

## **Un trabajador fallecido y otro con su pierna amputada tras accidente en obra de Concón**

**“One worker dead and another with his leg amputated after an accident on a construction site in Concón”**

Source: El Observador, Chile

# Main accident causes in Construction:

- **Slip, trip and falls**
- **Ladders**
- **Falling Objects**
- **Electricity**
- **Hazardous substances**

# Fatal injuries due to falls are app. 20% of all fatal injuries

Annually  
0.25 trillion US-Dollar  
(0.5%)  
economic loss  
worldwide

**Are we using the right methods  
to change the situation?**

# Around 6500 Languages



# Prevention through pictures

## Approach

- Identification of the most common ‘sore points’ concerning safety and health in the construction industry
- Drawings of bad examples next to good ones
- No written language
- Can be used worldwide
- Available for free via websites ISSA-C and ILO

## Structure: 43 scenarios





issa

INTERNATIONAL SOCIAL SECURITY ASSOCIATION

Section on *Prevention in the Construction Industry*







issa

INTERNATIONAL SOCIAL SECURITY ASSOCIATION

Section on *Prevention in the Construction Industry*



# More information

[http://www.ilo.org/safework/info/publications/WCMS\\_383797/lang--en/index.htm](http://www.ilo.org/safework/info/publications/WCMS_383797/lang--en/index.htm)

## Prevention Through Pictures in Construction



**Safety and Health  
Are Human Rights**

# Covid-19



# Situation in Germany regarding Covid-19 Pandemic

- First registered Infection January 2020.
- In the following weeks Corona Virus spreaded out in whole Germany. The first Lockdown started 22. März 2020.
- Two more infection waves followed from Oktober 20 until January 2021 und from April 2021.
- Today more than 50% of the population is already vaxinated.

# Situation in Germany regarding Covid-19 Pandemic

The construction industry in Germany (like all over in this world) faced huge challenges in spring 2020:

No one was prepared for this pandemic (not enough knowledge how to handle it, not enough PPE available) etc.

# Situation in Germany regarding Covid-19 Pandemic

For many industries the lockdowns were very hard.  
But the German construction industry didn't stop all the time.



# Situation in Germany regarding Covid-19 Pandemic

Hygiene – a little bit neglected topic before Corona – becomes very important.

Regarding hygiene on construction sites there were already strict regulations existing before the pandemic. But the pandemic changed the behaviour in a very positive way.

Today 95 % of the construction sites are following the hygiene regulations perfectly.

# What methods can be used to change the situation?

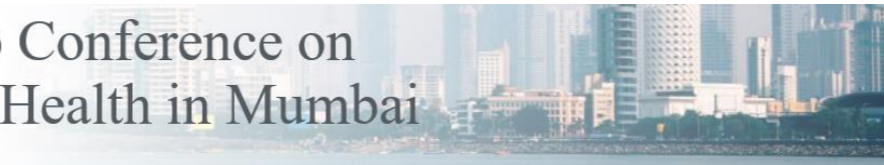
## Events:

ISSA Construction organized/co-organized several Vision Zero conferences all over the world to improve safety, health and wellbeing.

### Examples:

2019

International Vision Zero Conference on Occupational Safety and Health in Mumbai



2020



2021



2022

„How to reach Vision Zero in Construction“, XXXI<sup>th</sup> International Symposium of the ISSA Construction Section, Berlin

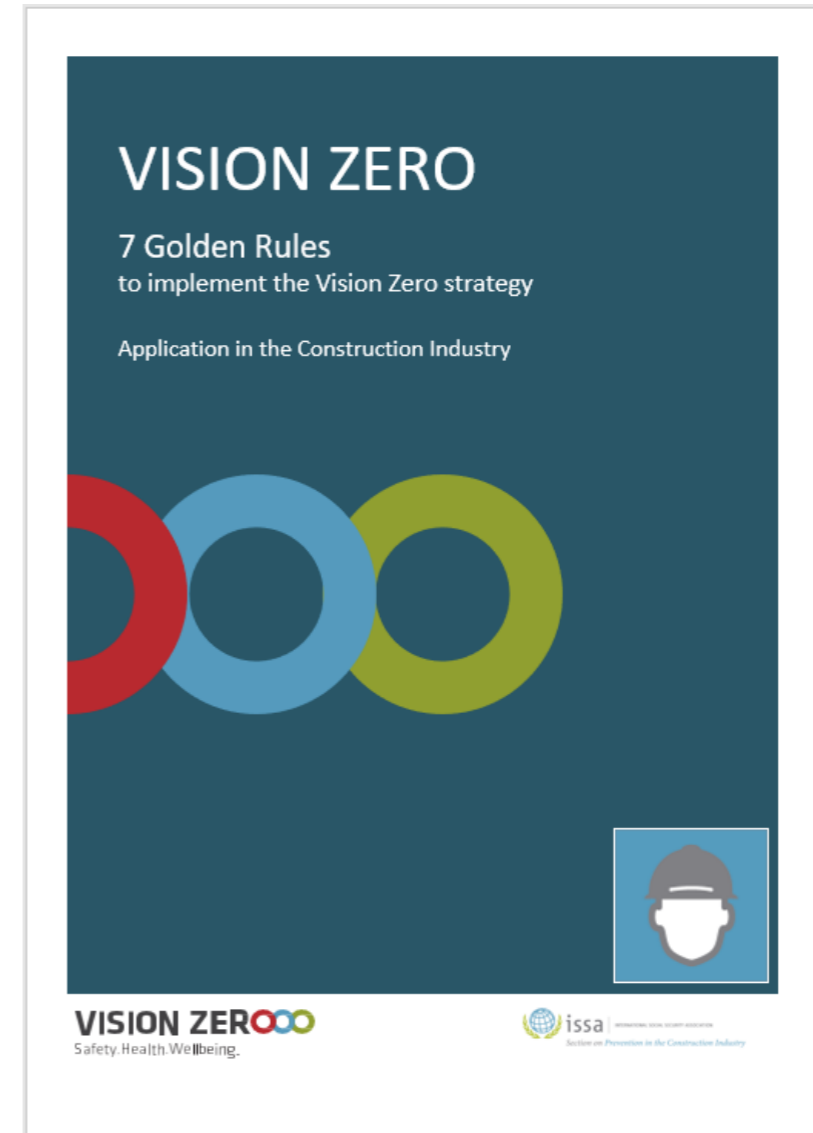
**What else we can do to achieve a future without  
accidents and without  
occupational diseases on construction sites?**

# VISION ZERO

## 7 Golden Rules

**The 7 Golden Rules were implemented in the construction industry via a guideline!**

# Application of the 7 Golden Rules to implement the Vision Zero strategy in the construction industry





**issa**

INTERNATIONAL SOCIAL SECURITY ASSOCIATION

*Section on Prevention in the Construction Industry*

# How to check if the 7 Golden Rules are well implemented?

# By using a rating system...

## HOW THE STOP LIGHTS WORK

Rate my company or worksite using the elements below.  
Just check the stop light for each action item:

- ☒ No action is required at the present time
- ☐ Action required
- ☐ Urgent action required
- ☐ Not applicable

In my construction project, the owner...



# VISION ZERO

## 1) Take Leadership – Demonstrate Commitment



### Some examples:

- The owner/client is ultimately responsible for safety.
- Managers demonstrate safety and health, set the standards and serve as a role model.
- Employees should always feel responsible for their own and their co-worker's safety.

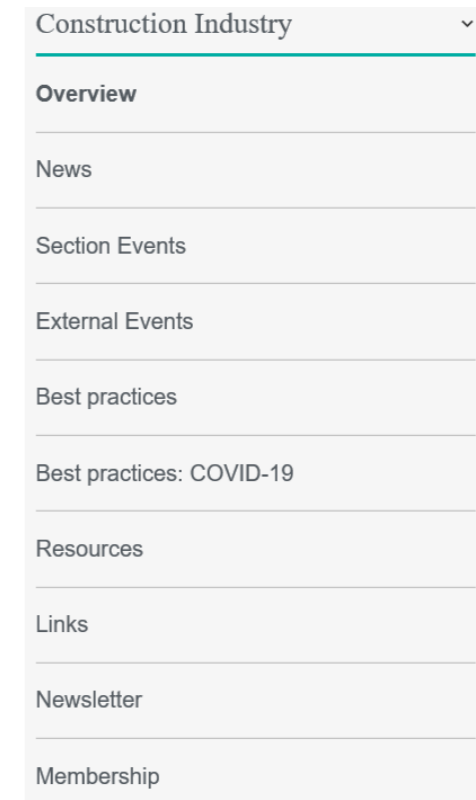
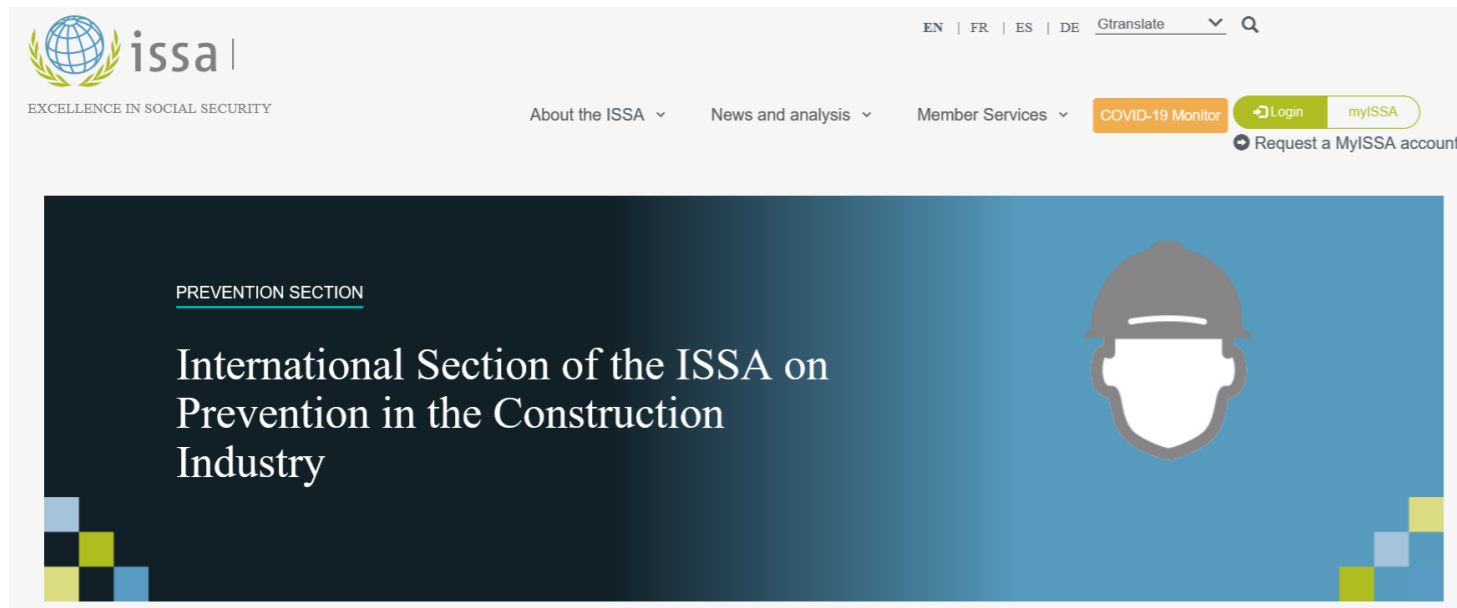


(Source: Korn V.-adobe.stock.com)



Soon available on...

<https://ww1.issa.int/prevention-construction>

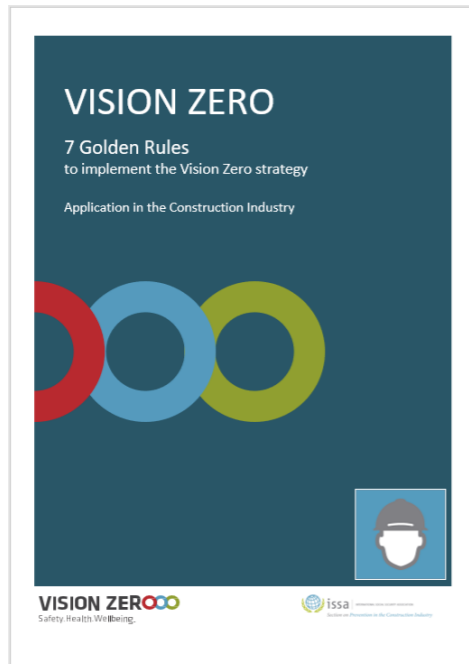


# VISION ZERO

## Furthermore, ...

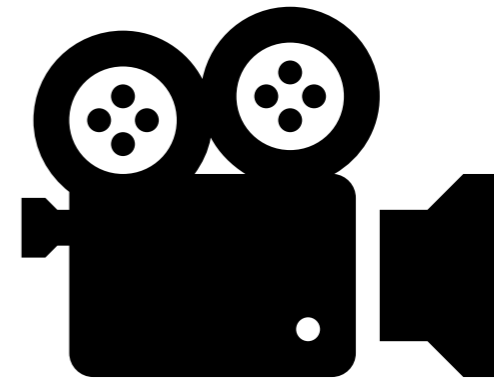
...a short version of the “Application in the Construction industry” will follow.

...the Vision Zero guide “7 Golden Rules for Small Businesses” will be specified for the construction industry.



In addition to the guides, a video clip is planned to promote the Vision Zero strategy for the construction industry.

**VISION ZERO** 



## Proactive Leading Indicators Guide

- Complementary to the VISION ZERO 7 Golden Rules – for zero accidents and healthy work guide
- These Guideline will be specified for the construction industry



# Thank you for your attention!

