

Vision Zero in OSH. Beyond Compliance



Bangalore, 25.01.2024
Prof. Dr. Monika Eigenstetter

University of Applied Sciences Niederrhein

Department of Textile and Clothing Technique



- Ca. 2000 students
- 33 professors
- 64 staff

Research institutes

FTB: Textile and Clothing

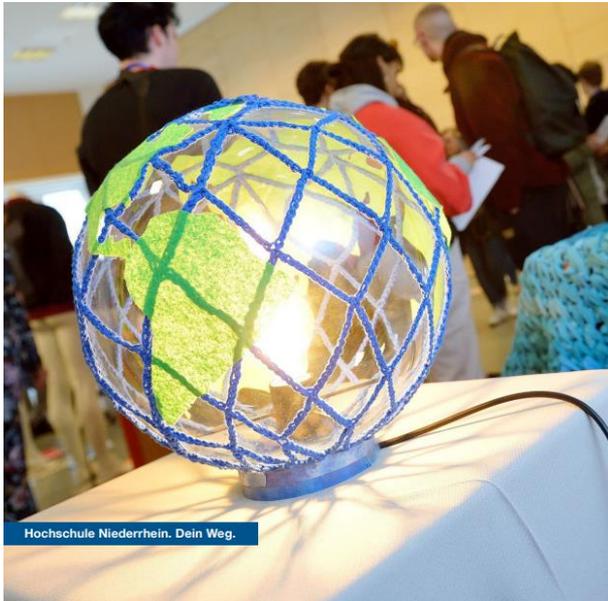
AUGE / EthNa: OSH, CSR

CTL textil logistics

32 different labs

e.g. for spinning, weaving, knitting, tricot knitting, twisting, narrow fabrics, chemistry, finishing, printing, quality evaluation, microscopy, sewing

A.U.G.E. Research Institute / EthNa Competence Center CSR



A.U.G.E. Research Institute

Occupational safety, environmental protection,
health promotion, ethics

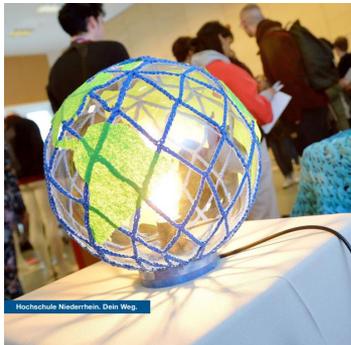
- Prevent damage, minimize downtime
- Acting sustainably, utilize potential savings
- Optimize performance, increase productivity
- Creating value, increase satisfaction





Agenda

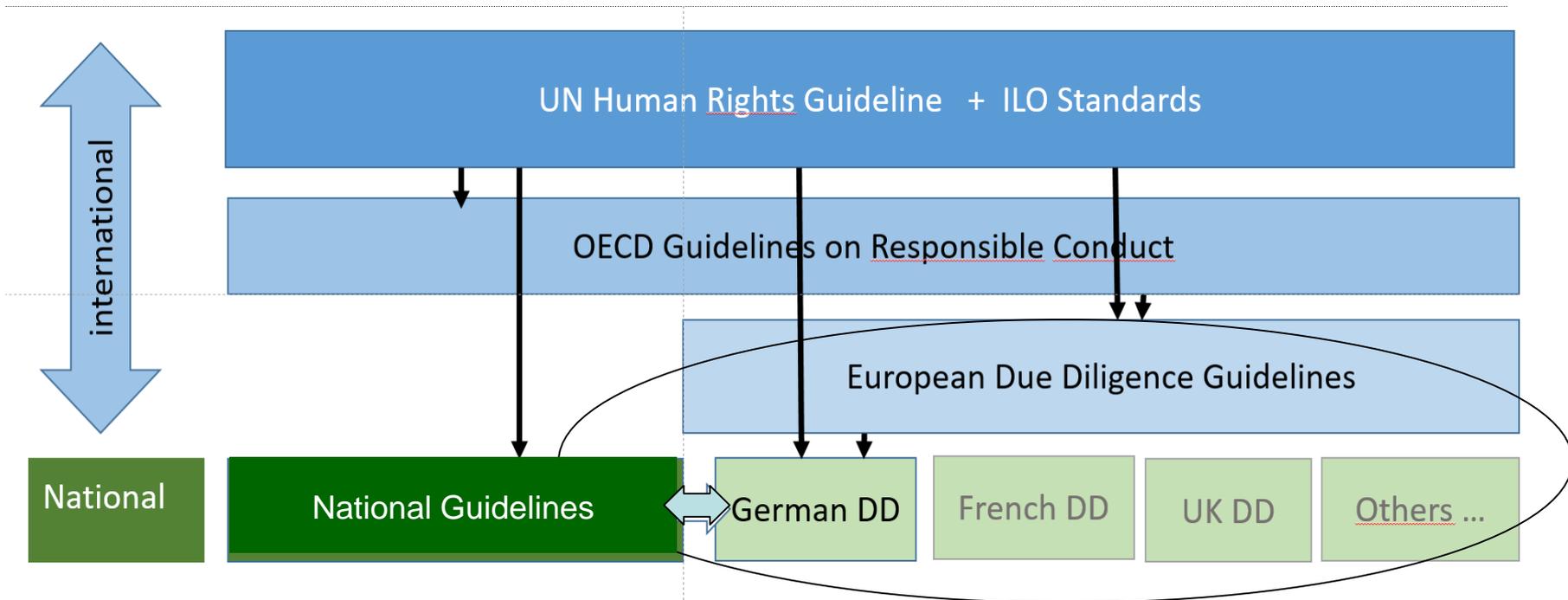
- **OSH: Human Rights at Work**
- **The Benefits of OSH**
- **Vision Zero**
- **Improve Qualifications,
Motivate by Participation**
- **Beyond Compliance**



OSH: Human Rights at Work

OSH and Due Diligence

New Old Challenge



Work Related Diseases and Accidents

ILO Estimation (2014)

Every day

- 6,400 work related deaths
- 860,000 work related injuries

Every year

- Ca. 2 million deaths
- Ca. 350,000 fatal accidents
- Ca. 313 million: non-fatal serious injuries and absences

<https://www.who.int/news/item/16-09-2021-who-ilo-almost-2-million-people-die-from-work-related-causes-each-year>
ILO estimation (2014)



News

Bangladesh: Deadly fire and explosions at container facility

At least 49 killed and over 300 injured after fire and explosions hit the container depot near the port city of Chittagong.



Firefighters try to contain the fire at a container depot in Chittagong.

5 Jun 2022

World

Deadly chemical factory fire claims 8 lives in northern India



At least a dozen others injured in wake of boiler explosion and ensuing fire at factory

The Associated Press · Posted: Jun 04, 2022 10:35 AM ET | Last Updated: June 4



UPDATED: Blaze destroys the Cotton Gin in Jarvisburg; fire crews remain on scene

October 12, 2019 · Kari Pugh



Fire engulfs the Cotton Gin in Jarvisburg. [Photo by Donna Manning]

day. Initial reports said at least 10 people were injured. (The Associated Press)

OSH: Human Rights at Work

ILO Standards

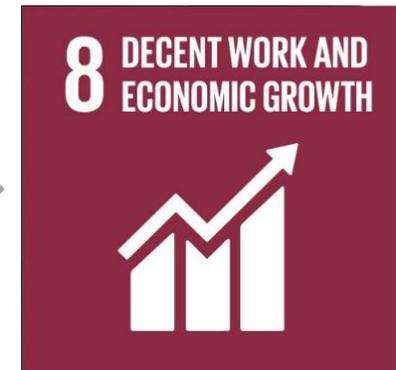


<https://www.ilo.org/dyn/normlex/en/f?p=1000:12000:0::NO::>

ILO Five Fundamental Principles

- Freedom of Association and Protection of the Right to Organise Convention
- Elimination of Forced Labour
- Abolition of Child labour
- Prohibition of Discrimination in Respect of Employment and Occupation
- **Occupational Safety and Health**

Formulated in 11 core labour standards



Human Rights at Work

- C155 - Occupational Safety and Health Convention, 1981 (No. 155) P155 - Protocol of 2002 to the Occupational Safety and Health Convention, 1981
- C187 - Promotional Framework for Occupational Safety and Health Convention, 2006 (No. 187)

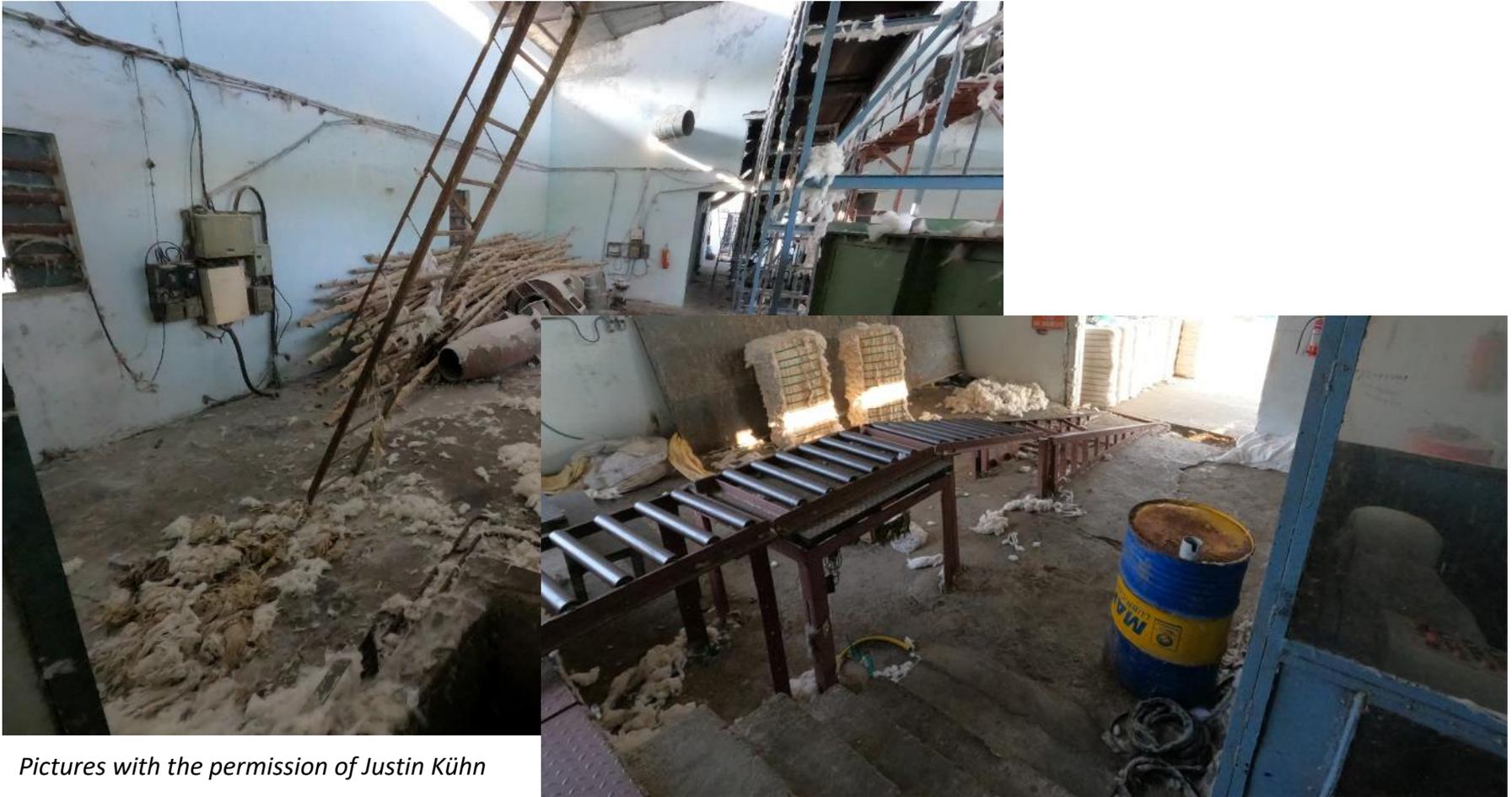
<https://www.ilo.org/beliris/beliris-und-standards/beliris/beliris-sammlung-lang-de/index.htm>

___ and see also

12.1. Fundamental Conventions on Occupational Safety and Health

https://www.ilo.org/dyn/normlex/en/f?p=1000:12030:0::NO:::Occupational_safety_and_health

Human Rights at Work? Decent Work?



Pictures with the permission of Justin Kühn

Human Rights at Work? Decent Work?

- Obstruction of trade union work
- Lack of living wages
- Excessive working hours
- Chemical hazards
- Increase in mental workload: lack of separation between private life and work (work-life balance)
- Digital surveillance
- Sexual violence and harassment in the workplace
- Lack of inclusion

Prominent examples all over the world
Agriculture, Cleaning, Construction,
Logistics, Care work

→ **BASIC WORK**



cc pixabay



Benefits of OSH

Safety Is a Contributor to Economic Success

Prevention against the Loss of Lives and Damages

Example Accepting Untidiness

- When managers overlook untidiness and fail to ensure that traffic routes are clear, for example, they indirectly contribute to the occurrence of accidents.



Pictures with the permission of Justin Kühn

Safety Is a Contributor to Economic Success

Case Fire Prevention

Easy to calculate: Prevention of fire

- How much will it cost, to keep the roads and walking routes clear to give access to the fire hose?
- How much will it cost to install a fire extinguisher at the workplace?
- How much will it cost to instruct the workers to use the fire extinguisher?

How much will it cost, if it is not possible to extinguish the fire immediately?

Guidelines developed for GIZ



Safety Is a Contributor to Economic Success

Return of Prevention is 1:2 or even more

Return of Prevention 1:2

Health-related productivity-loss and the continuity of the service provided

- OSH has a positive impact on employee skills, knowledge and loyalty and relation to process safety #, and product quality

Measurable results

- Reduction of failures
- Reduced disruptions
- Less sickness
- Less fluctuation
- Customer satisfaction

Guidelines developed for GIZ

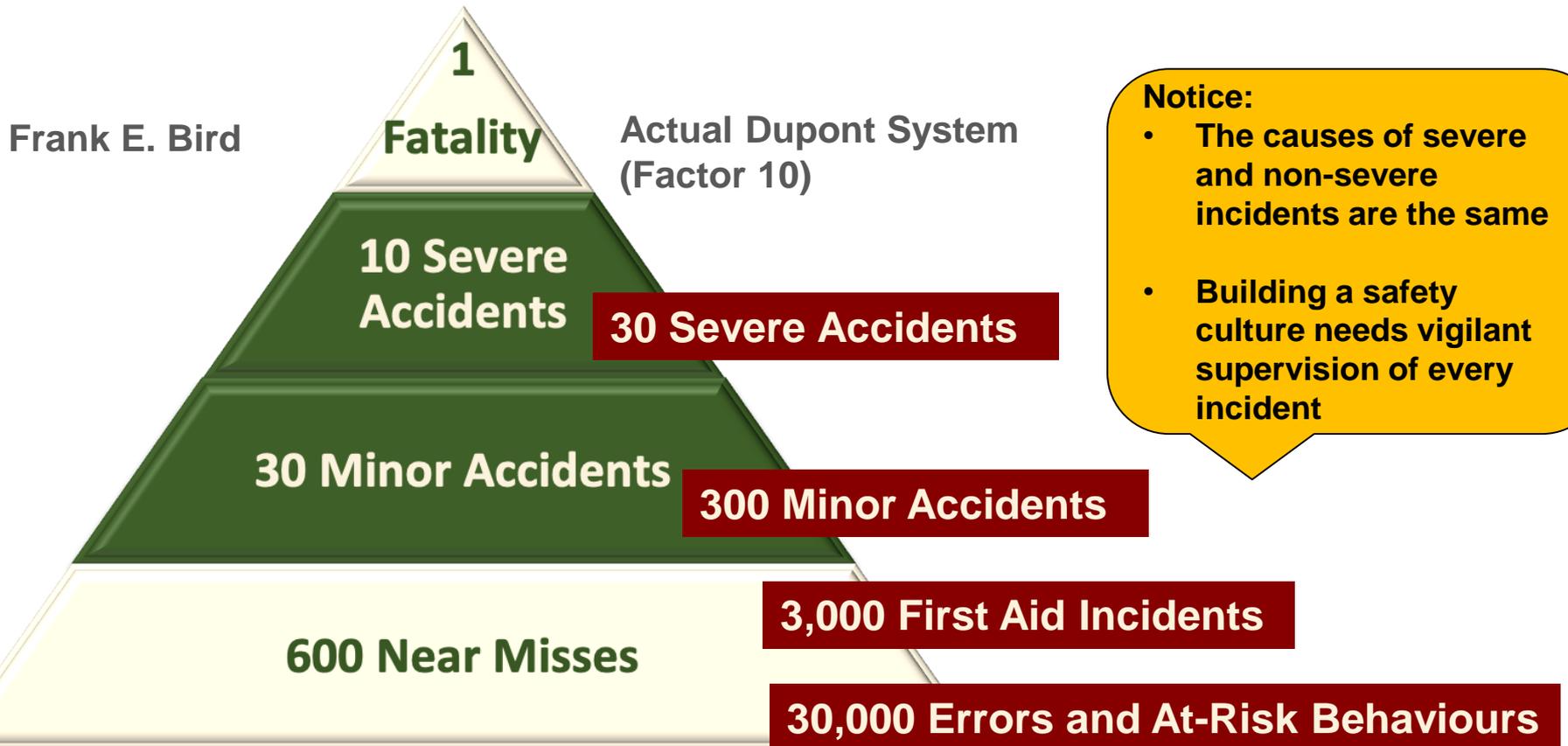




Vision Zero

Vision Zero

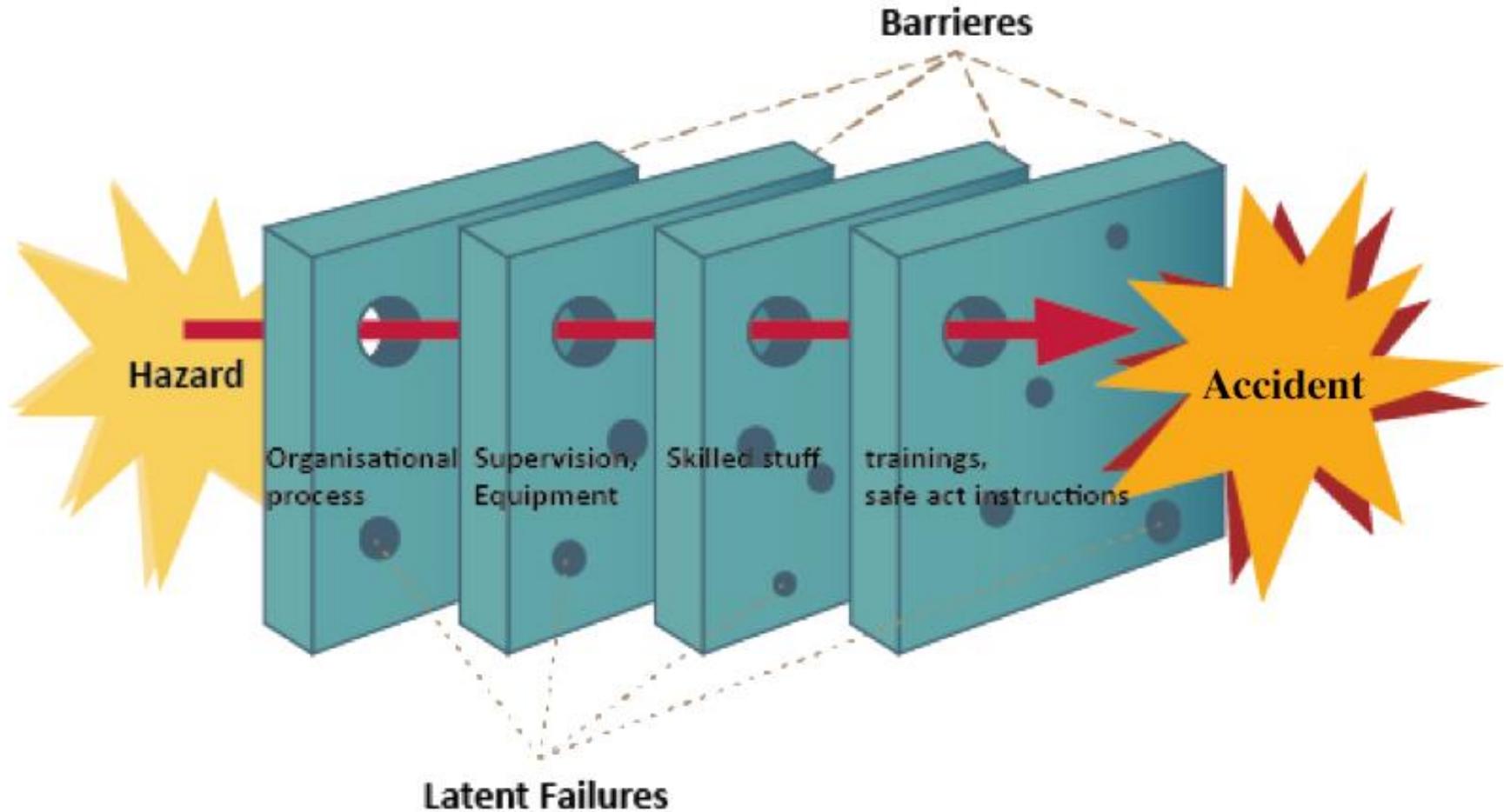
Preventing Accidents and Diseases



Own figure based on Frank E. Bird, E. I. du Pont

Vision Zero

Creating Resilience: Reason's Swiss Cheese Model



After James Reason, (2008). The Human Contribution. Ashgate,
Picture by Sonja Kreitering

Vision Zero

“All accidents, diseases and harm at work are preventable”



“Most incidents, accidents and disasters at work have a cause; they are man-made and not a misfortune. They occur as failures of risk management and a lack of guidance.”

<https://dguv.cloud.panopto.eu/Panopto/Pages/Viewer.aspx?id=54471460-75d7-4408-8a61-b06800734750>

<https://visionzero.global/guides>

7 Golden Rules for Vision Zero

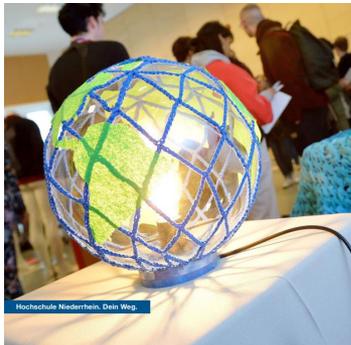
1. Take leadership – demonstrate commitment
2. Identify hazards – control risks
3. Define targets – develop programmes
4. Ensure a safe and healthy system – be well-organized
5. Ensure safety and health in machines, equipment and workplaces
6. Improve qualifications – develop competence
7. Invest in people – motivate by participation



Energy and Sustainability in the Textile Industry - Energy Efficiency and Renewable Energies in Partnership for Climate Protection



Federal Ministry
of Education
and Research



Develop competence, motivate by participation

Improve Qualifications, Motivate by Participation

Creating an Intervention for Indonesian Companies

(1) Awareness Raising Leaders

(2) Intervention Concept

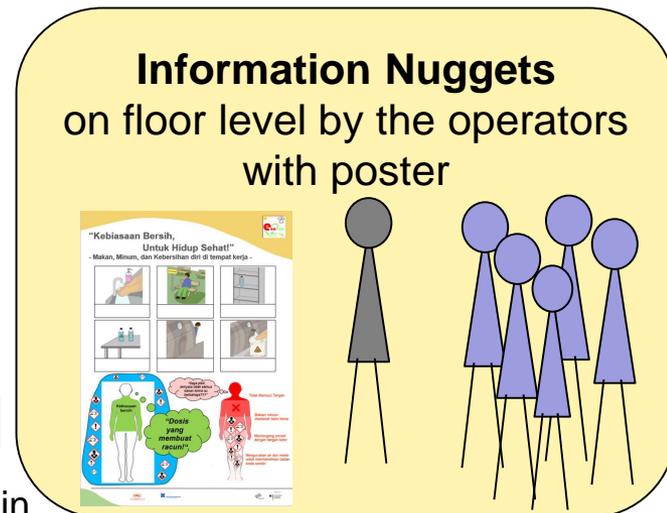
Training of the Operators (1 hour, two week cycle) and Information Nuggets on the floor

(1) Basic Information on the Powerpoint in mother tongue
(2) Picture of Failures of the own departments

1 week preparation: e.g. fix of eye showers
Walkaround 2 x 15 min



(2) Poster for the instruction of the workers incl. instruction how to use it for 10 min
Instruction in the floor level



(3) Evaluation after the Information Nuggets

Walkaround 2 x 15 min



Improve Qualifications, Motivate by Participation

Creating an Intervention for Indonesian Companies

Handling Chemical – some basics to know about

Eating, Drinking, Breaks and Personal Hygiene at the Workplace

PPE (Especially Hand Protection)

Workplace Design

Stairs/ladder, Heights, Electricity and Sockets

...

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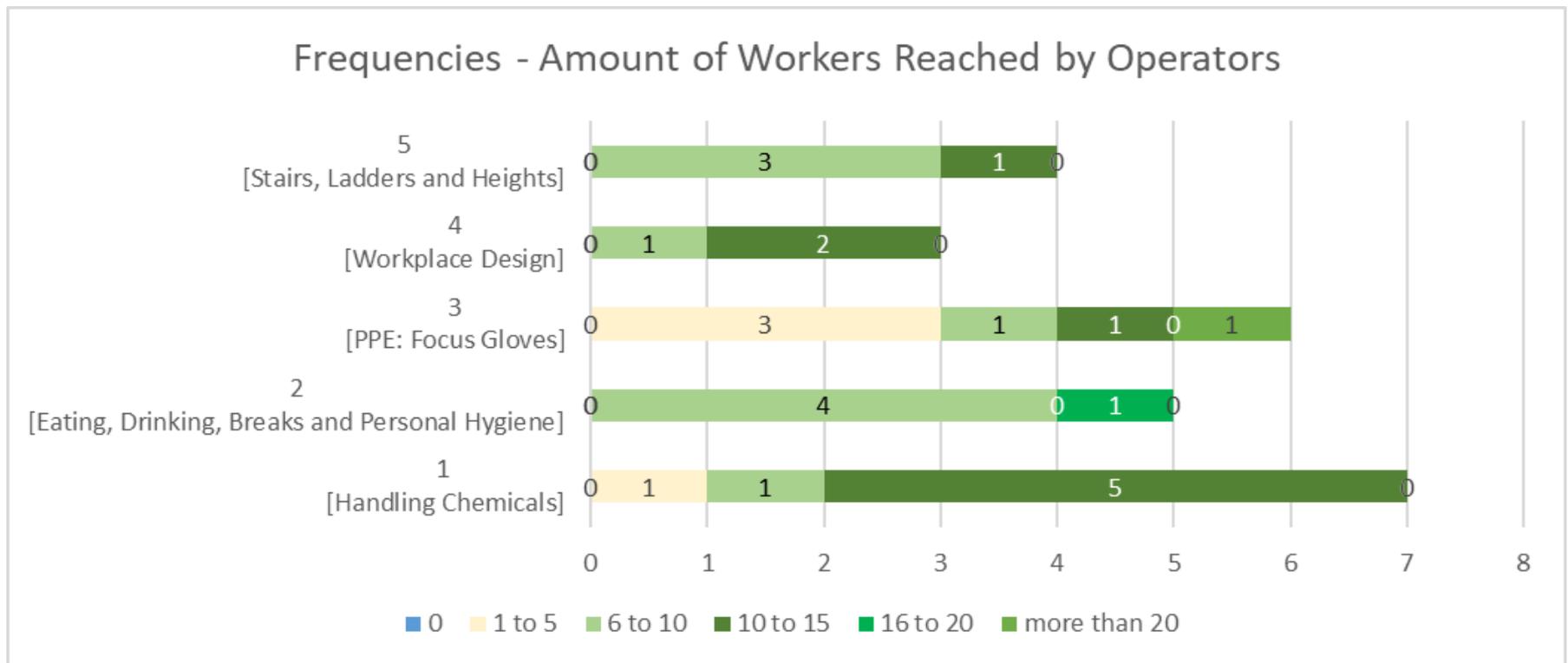
Emergency and First Aid



Improve Qualifications, Motivate by Participation

Evaluation

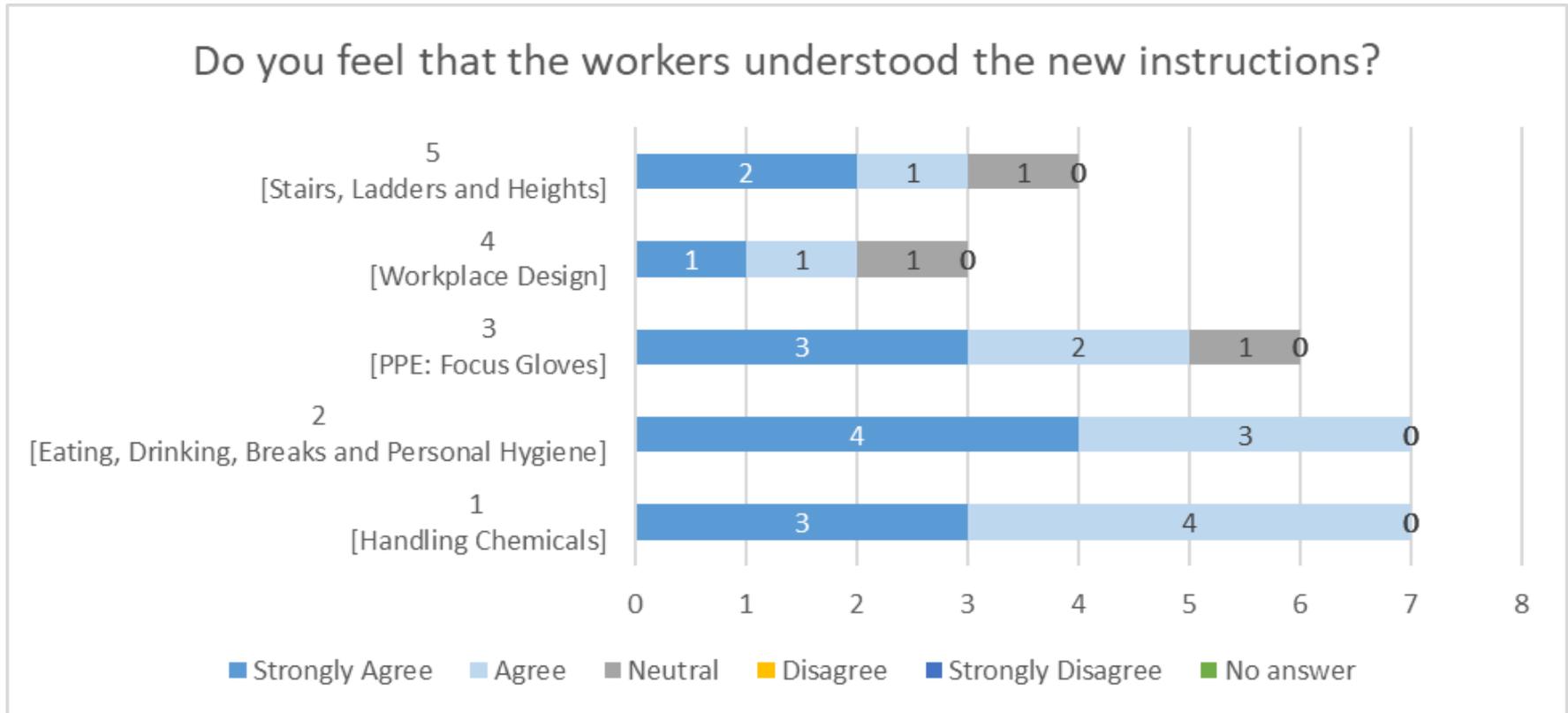
Each training was implemented by 3 to 7 operators (supervisors)



Data Aslihan Memisoglu

Improve Qualifications, Motivate by Participation

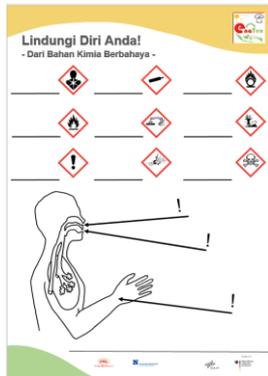
Evaluation



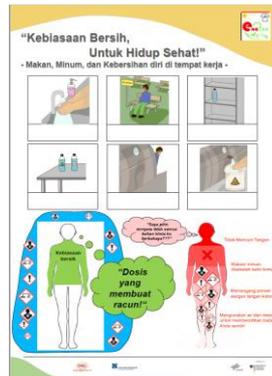
Data Aslihan Memisoglu

Improve Qualifications, Motivate by Participation

Creating an Intervention for Indonesian Companies



Handling Chemicals



Eating, Drinking & Personal Hygiene at the Workplace



PPE (Focus Hand Protection)



Workplace Design



Stairs, Ladders & Heights

And some more ...

Download Link: <https://www.csr-textil-bekleidung.de/index.php/enatex-publications.html>

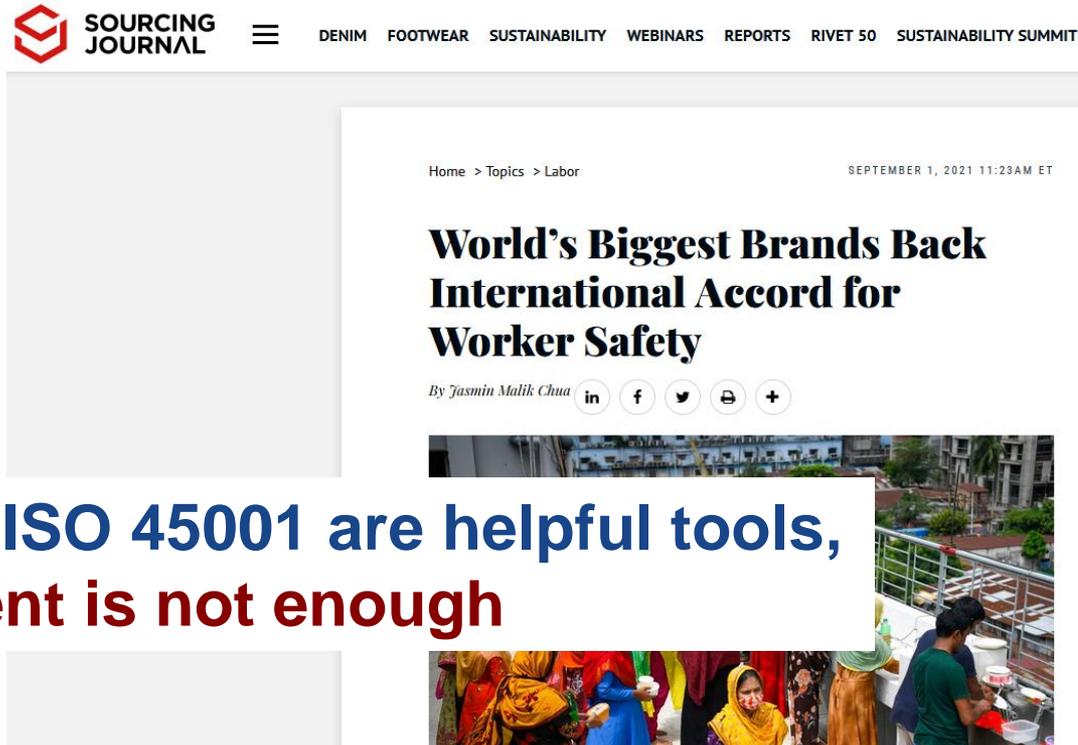
Poster Aslihan Memisoglu, Etien Hofbauer



Beyond Compliance

Beyond Compliance

Development of a Management System is the First Step

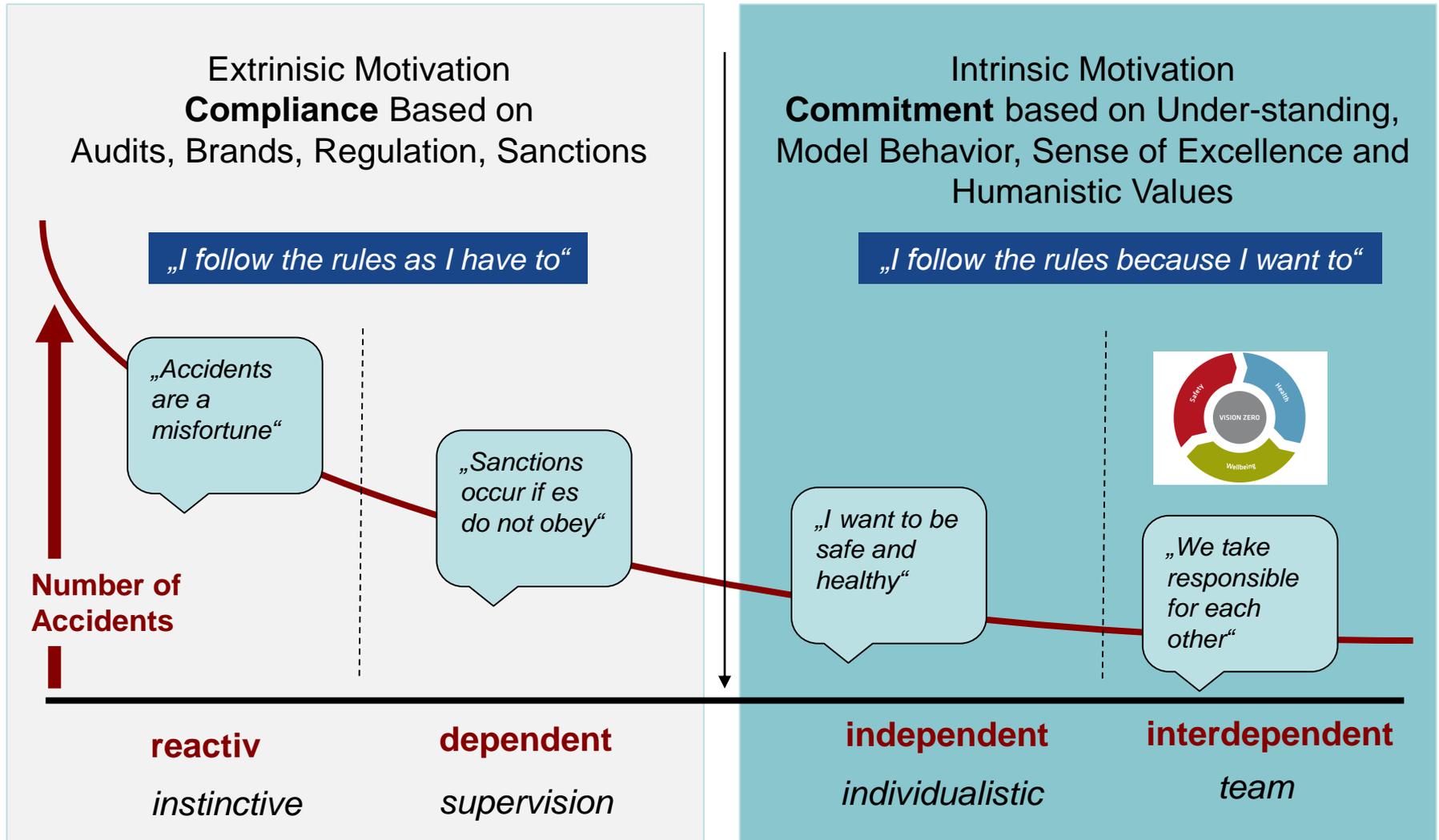


The screenshot shows the Sourcing Journal website. The header includes the logo and navigation links: DENIM, FOOTWEAR, SUSTAINABILITY, WEBINARS, REPORTS, RIVET 50, and SUSTAINABILITY SUMMIT. The article title is "World's Biggest Brands Back International Accord for Worker Safety" by Jasmin Malik Chua. The article features two images: one of a residential building and another of workers in a factory setting.

**Certificates or ISO 45001 are helpful tools,
but management is not enough**

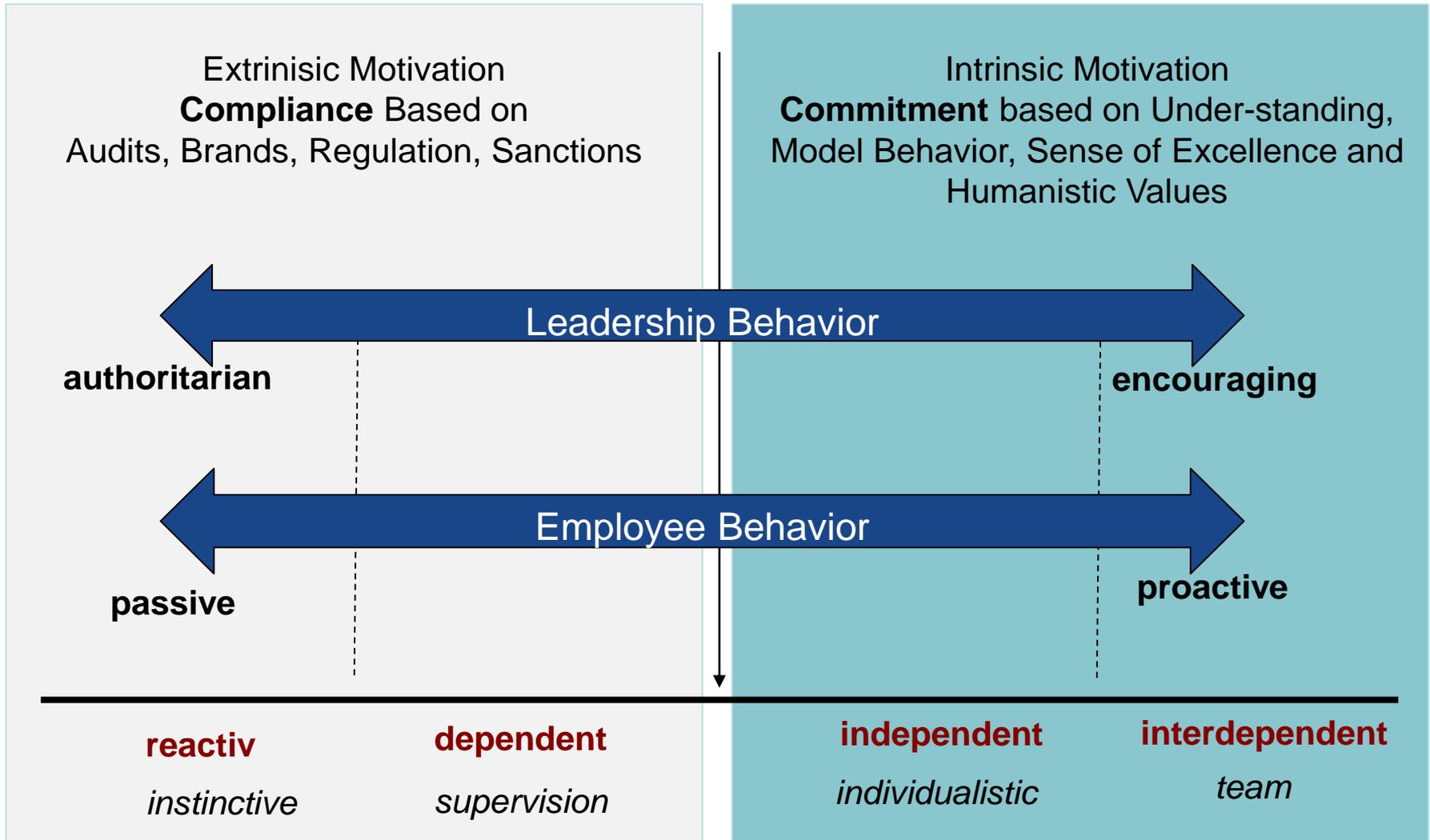
Beyond Compliance

Bradley Curve Dupont



Beyond Compliance

Key to Success is Awareness Raising through Leadership



Thank you for your Attention!

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