



# Activities of the ISSA Section Machine and System Safety

## 36th Summer University on Ergonomics, Gyöngyös

*Dipl. Psych. Andrea Weimar*



## ISSA: International Social Security Association



The world's  
leading  
international  
organization  
for social security  
administration



Founded  
**1927**



**320+**  
members



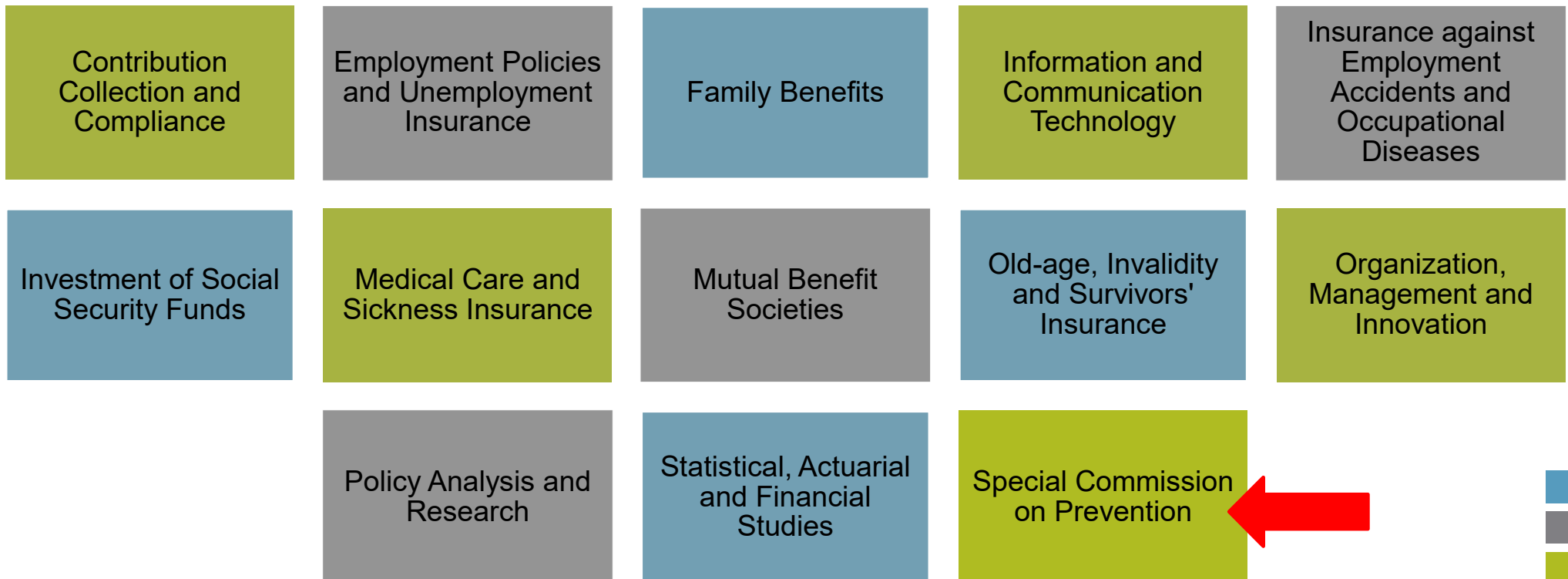
**160+**  
countries



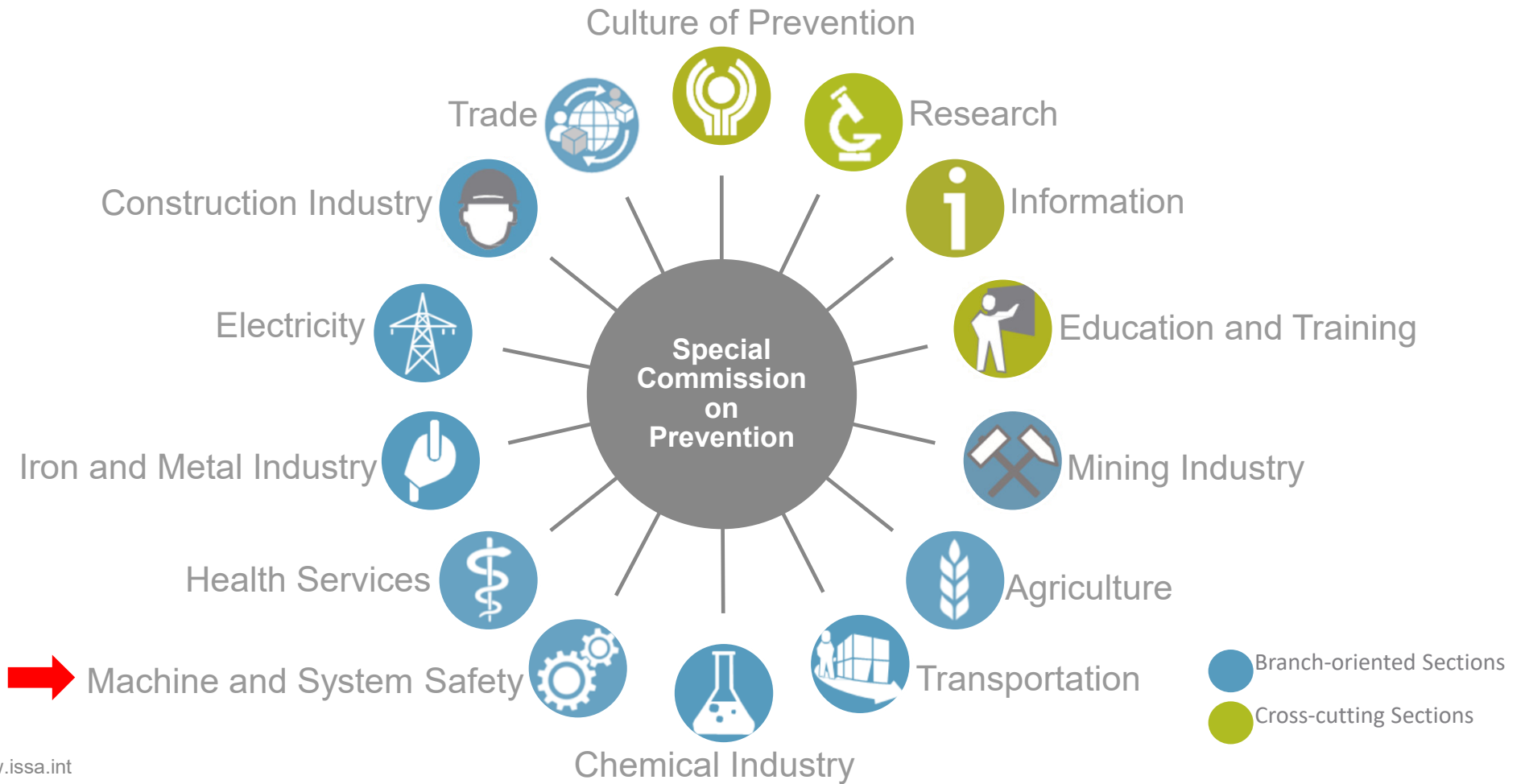
Headquarters  
in Geneva



## ISSA: Technical Commissions



# A strong network: the Special Commission on Prevention





## Section Machine and System Safety

- founded in 1975
- aims is to improve safety and health at work in the field of machine and system safety worldwide
- 17 members from 9 countries





## Section Machine and System Safety

### Board:

- **President: Jürgen Schulin, BGN Mannheim (Germany)**
  
- **Vice Presidents:**
  - **Corrado Delle Site, INAIL Rome (Italy)**
  - **Georg Effenberger, AUVA Vienna (Austria)**
  - **Olivier Favre, Suva Lausanne (Switzerland)**
  - **Marc Wittlich, IFA Sankt Augustin (Germany)**
  
- **Secretary General: Andrea Weimar, BGN Mannheim (Germany)**

**<https://www.safe-machines-at-work.org/>**



## Our principles

- **We are leader in the field of international cooperation in prevention. Safety of machinery and work systems as well as health at work are our core competencies.**
- **We can only cope with the challenges of a globalized world of work by international collaboration**
- **Our work leads to added economic and social values for employers and employees.**
- **We elaborate practice-oriented solutions with international partners**
- **By international collaboration, we contribute to an efficient use of our members' resources.**

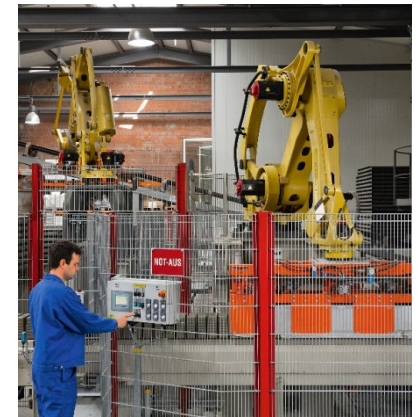


## Working Groups

- **Control devices**
- **Digital manufacturing**
- **Explosion protection**
- **Human factors, ergonomics and safe machines**
- **Stop defeating of protective devices on machines**

## Project Group „Control Devices“

- deals with developments in the field of control devices concerning safety and security of machines and promote qualified discussion between interested persons
- considers control devices as an important element of machines
- elaborates practical guidelines to raise awareness for safety and security describing types and application of control devices
- works on the topic of remote control systems / remote maintenance





## Project Group „Control Devices“

### Seminars on functional safety and validation

- give an overview of international standards for machinery safety and their application for the design and use of safe machinery.
- impart the participants the basic knowledge of these standards and their use in the industrial area
- show practical application examples.
- The speakers give information as experts involved in the standardization of machinery safety.

Last seminars Sept. 25<sup>th</sup> – 29<sup>th</sup>, 2023 in India

**Presentations under:**

**<https://www.safe-machines-at-work.org/control-devices>**



## Project Group „Digital Manufacturing“

"Digitalization is the business process of using digitization everywhere. The result of digitalization could lead to digital transformation."

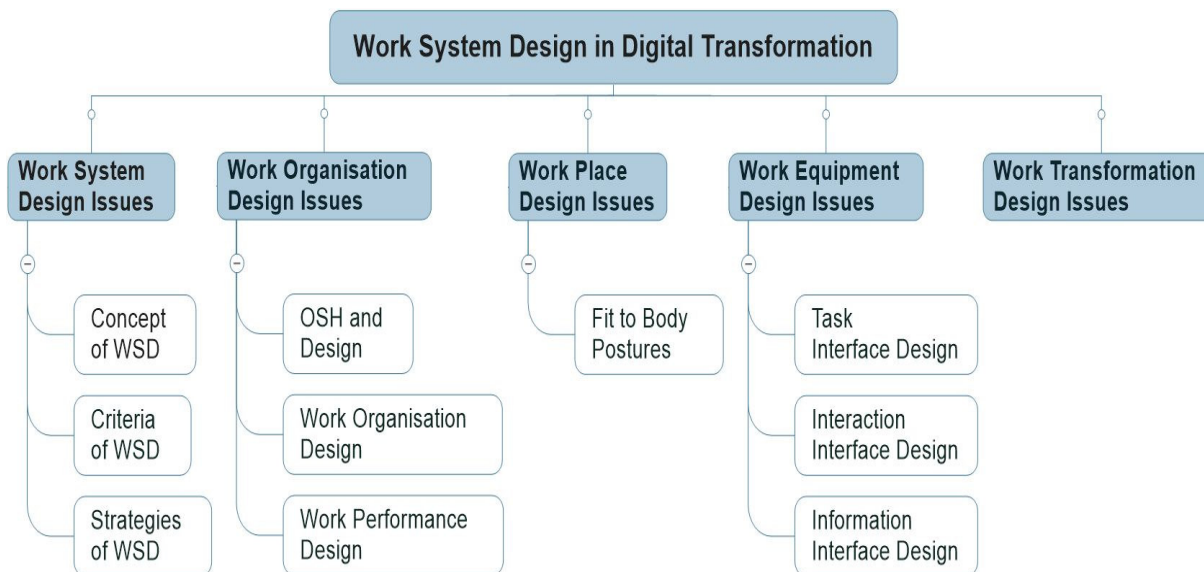
### Activities

- extends the classical risk assessment including security risks
- develops practical examples from industry => industry guides for integrating industrial security and occupational safety and health
- creates fact sheets on special topics of industrial security
- develops webinars for engineers, employees, prevention and IT-experts



## Project Group “Human Factors, Ergonomics and Safe Machines“

- works on design requirements and recommendations according to occupational safety and health as well as human factors and ergonomics.
- integrates human factors and ergonomics into machinery construction, in workplace and equipment design and in human-system interaction in practice.



11/07/2024

[www.issa.int](http://www.issa.int)



## Project Group „Explosion Protection“

- works on case studies which are based on plants, e.g. prevent dust explosion in a mill – similar process steps are found in many plants
- consider new technologies and trends like IoT with impact on sensor technologies
- collect examples and knowledge about explosion incidents.





## Project Group „Stop Defeating of Protective Devices on Machines“

### Topics:

- new challenges from „smart manufacturing“
- security affects machine safety



## Project Group „Stop Defeating of Protective Devices on Machines“

<https://stop-defeating.org/>

- specific information for the parties involved in this topic: manufacturers, suppliers and users of machinery
- best practice examples
- useful tools like checklists for the purchase of new machinery or apps to determine the incentive for defeating protective devices





## Section Machine and System Safety

## Websites

# www.safe-machines-at-work.org

The screenshot shows the homepage of the ISSA Section Machine and System Safety website. The header includes the ISSA logo and navigation links: Home, About us, Control Devices, Digital Manufacturing, Explosion Protection, Human Factors, Stop Defeating, Related info, and Useful Links. The main content area is divided into 'News' and 'Events' sections. The 'News' section features a video titled 'Good examples from practice' with a link to 'www.safe-machines-at-work.org/control-devices/'. The 'Events' section lists the 'AIJVA Prevention Forum' on 23-25 May 2023 in Vienna, Austria. Below the main content, there are six topic-specific boxes: Control Devices, Digital Manufacturing, Explosion Protection, Human factors, ergonomics and safe machines, Stop defeating of safeguards on machinery, and Safety Award of the ISSA Section Machine and System Safety. Each box includes a brief description and a 'Learn more' link.

### Prevention, International.

The Section is committed to improving safety and health at work in the field of machine and system safety worldwide.

#### Five principles:

- We are leader in the field of international cooperation in prevention. Safety of machinery and work systems as well as health at work are our core competencies.
- We can only cope with the challenges of a globalized world of work by international collaboration.
- Our work leads to added economic and social values for employers and employees.
- We elaborate practice-oriented solutions with international partners.
- By international collaboration, we contribute to an efficient use of our members' resources.

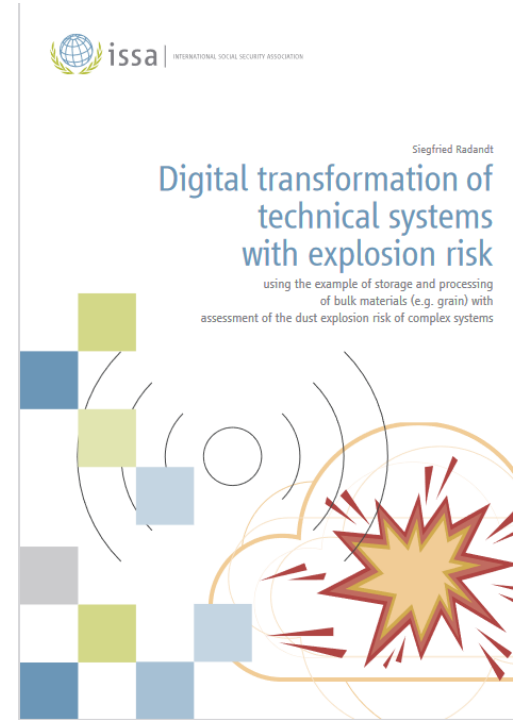
We recognize and integrate human factors when addressing assessment of systems regarding safety, security and health at work when using machines, technical systems or plants in manufacturing. The human factor is of utmost importance.

# www.safety-work.org

The screenshot shows the homepage of the www.safety-work.org website. The header includes a search bar, language selector (English), and navigation links: Home, Sectors, Topics, Target Groups, Toolbox, FAQ, News, and About us. The main content area features a large banner with the text 'SAFETY & WORK Health and safety the keys to success in small enterprises'. Below the banner, there are several sections: 'Breaking News' (ISSA XXX World Congress on Safety and Health 11-15 September 2011 - 15 September 2011 Istanbul | Turkey), 'Contact' (Would you like to give us some feedback? Would you like to add other practice examples? Please email us.), 'Health and Safety KEYS TO SUCCESS' (Successful and productive companies around the world also look after the safety and health of their workers and follow certain principles of good practice for the prevention of occupational accidents and diseases. Regardless of the type of work or the culture of a country these principles of good practice are universal 'Keys to Success'.), and 'Health and Safety: the "Keys to Success" TEST YOUR COMPANY HERE!' (And how is the situation in your company? Would you like to take a close look at your own small enterprise? You can do a self-check here and find out how fit your enterprise is. What are your strengths, where do you have potential for improvement?). The footer includes logos for BGN, BGHM, BG ETEM, Assurance Maladie, INRS, ISSA, and BRITISH SAFETY COUNCIL, along with a 'More' link and the copyright notice '© 2011 by BGN'.

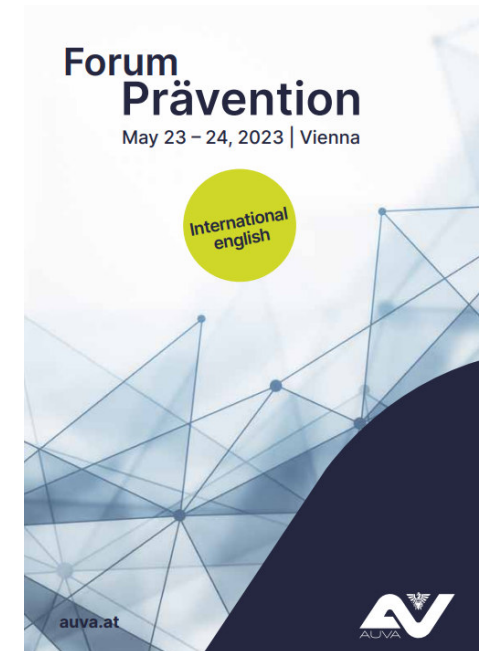
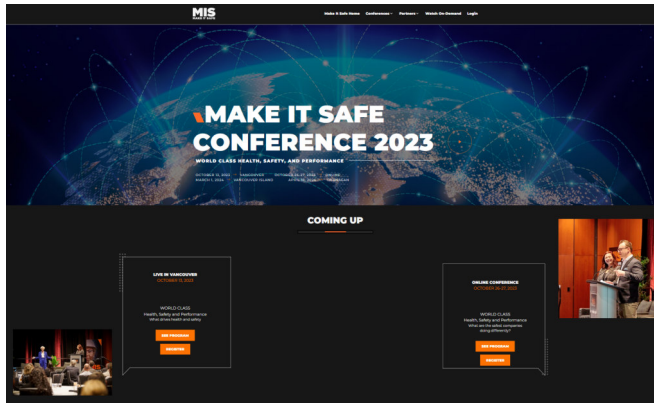
www.issa.int

## Publications





## Participation in Congresses



## Let's talk about OSH – have you ever....



### Previous issues

- ... been nudged
- ... reported a near miss
- ... used smart glasses
- ... faced a lithium batterie fire emergency

■ Last issue on March 12<sup>th</sup>, 2024: ... managed a multicultural team?

<https://www.issa.int/events/webinar-2024-03-12>

■ Next one on July 9<sup>th</sup>, 2024: ... been harmed by a cyber-attack?

<https://www.issa.int/events/webinar-2024-07-09>




# SAFETY AWARD

ISSA Section Machine and System Safety

**JOIN US NOW!**

<https://www.safe-machines-at-work.org/safety-award>

Applicant	Grasselli SPA	Scott Automation&Robotics	Altendorf GmbH
Country	Italy	Australia	Germany
Machine to be awarded	CLO skinner machine safety system	BladeStop	Hand Guard
Photos of the machine			
Description of the machine and function	Electrical connected jacket and conductive gloves protected by overwearing isolation gloves. Two wire connect operator to the machine enable and protect operator from accidental cutting through fast reaction.	BladeStop mechanically stops the blade when the unit senses that the operator has come in contact. As an additional safety instrument, the hands are being monitored by a camera.	AI controlled and certified early recognition system with two cameras that helps to protect people, machine and material.



# VISION ZERO

Safety.Health.Wellbeing.

**“We believe that every accident and every occupational disease is preventable.”**

[www.visionzero.global](http://www.visionzero.global)

[www.issa.int](http://www.issa.int)



# VISION ZERO

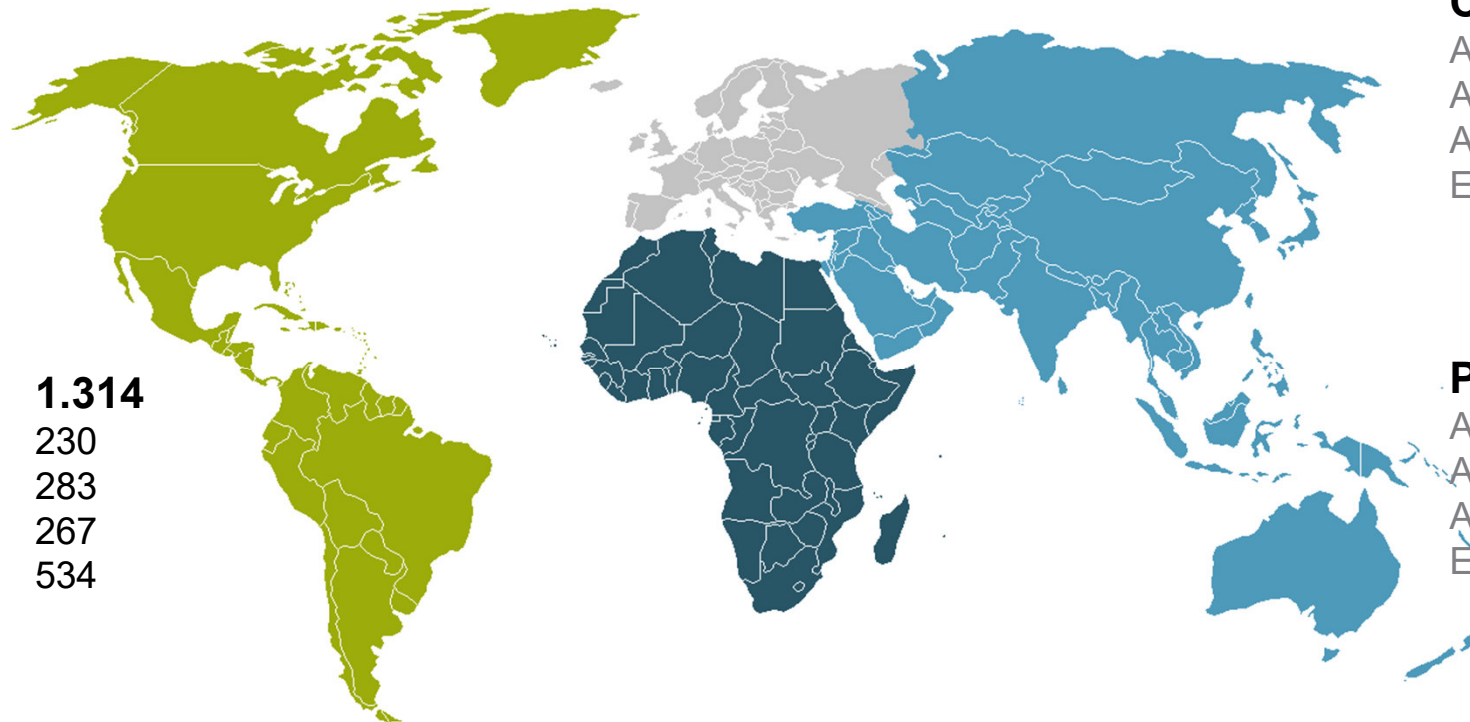
Safety.Health.Wellbeing.



Section Machine and System Safety

# 15.608

## Companies, Partners and Trainers



<b>Companies:</b>	<b>10.687</b>
Africa:	575
Americas:	538
Asia & Pacific:	894
Europe:	8.680

<b>Trainers:</b>	<b>1.314</b>
Africa:	230
Americas:	283
Asia & Pacific:	267
Europe:	534

<b>Partners:</b>	<b>3.607</b>
Africa:	170
Americas:	174
Asia & Pacific:	204
Europe:	3.059





**Interested in cooperation? Questions?**

**Please contact:**

Secretariat General of the ISSA Section Machine and System  
Safety

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Phone: +49 621 4456 2213

More information: <https://www.safe-machines-at-work.org/>

