

■ View from Germany

Successful Prevention for SMEs in the Mining-Industry

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**Steinbruchs-Berufsgenossenschaft
Germany**

■ content

Some Facts

Prevention 2000plus

The Employers-Model

Seminars - Trainings - Models

Campaigns for better Awareness

The StBG-Safety Award

Systematic Safety – the StBG Safety Seal

Outlook – The 3 Column Strategy

■ member branches



Aggregates and Quarries



Cement



Concrete



Asphalt Mixing Plants



Natural Oil and Gas



Gravel and Sand



Lime and Gypsum



Concrete Blocks



Recycling

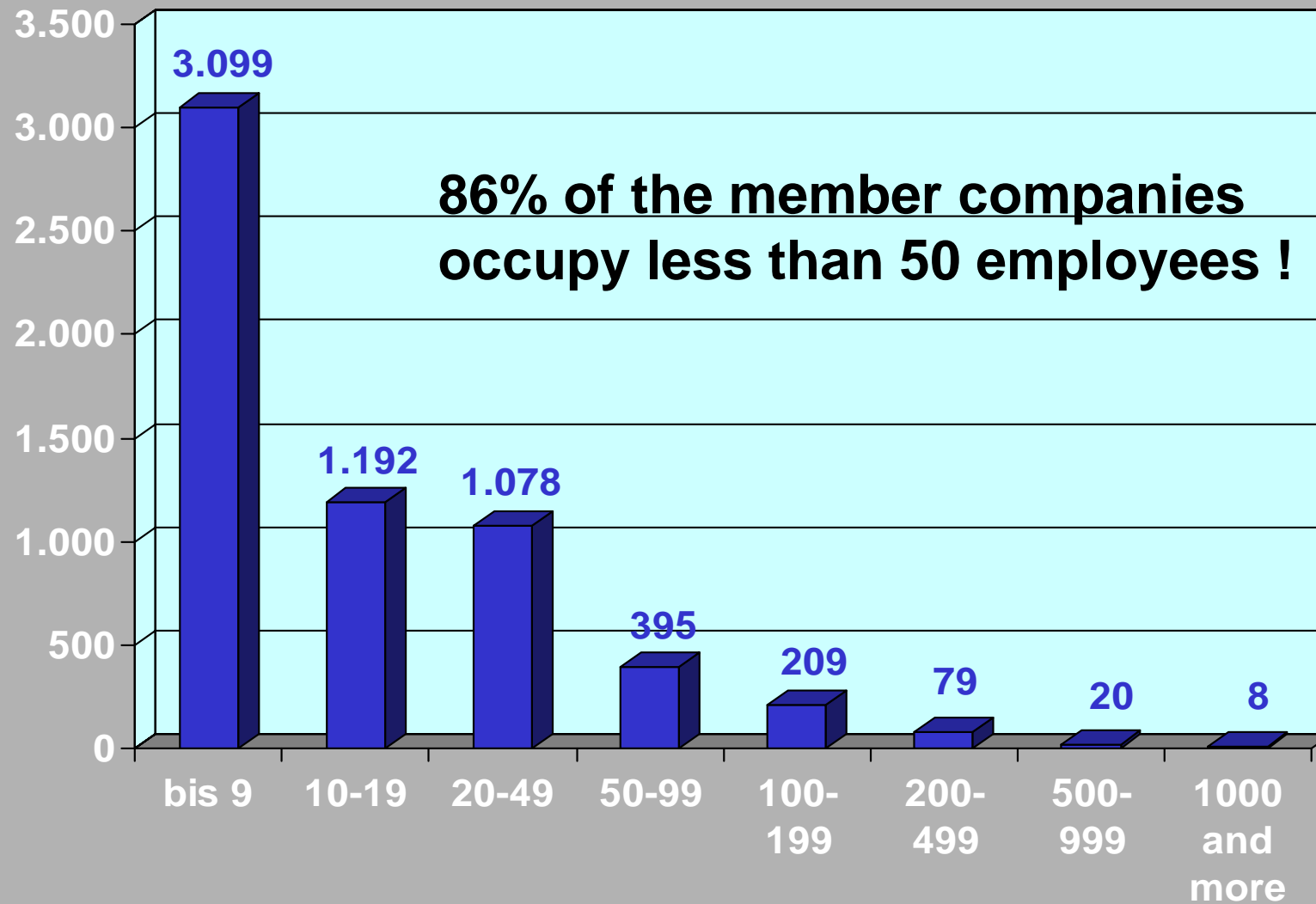
- **the companies**

5.738 companies

10.707 subsidiaries

152.779 employees

■ company sizes in relation to full-time-employees



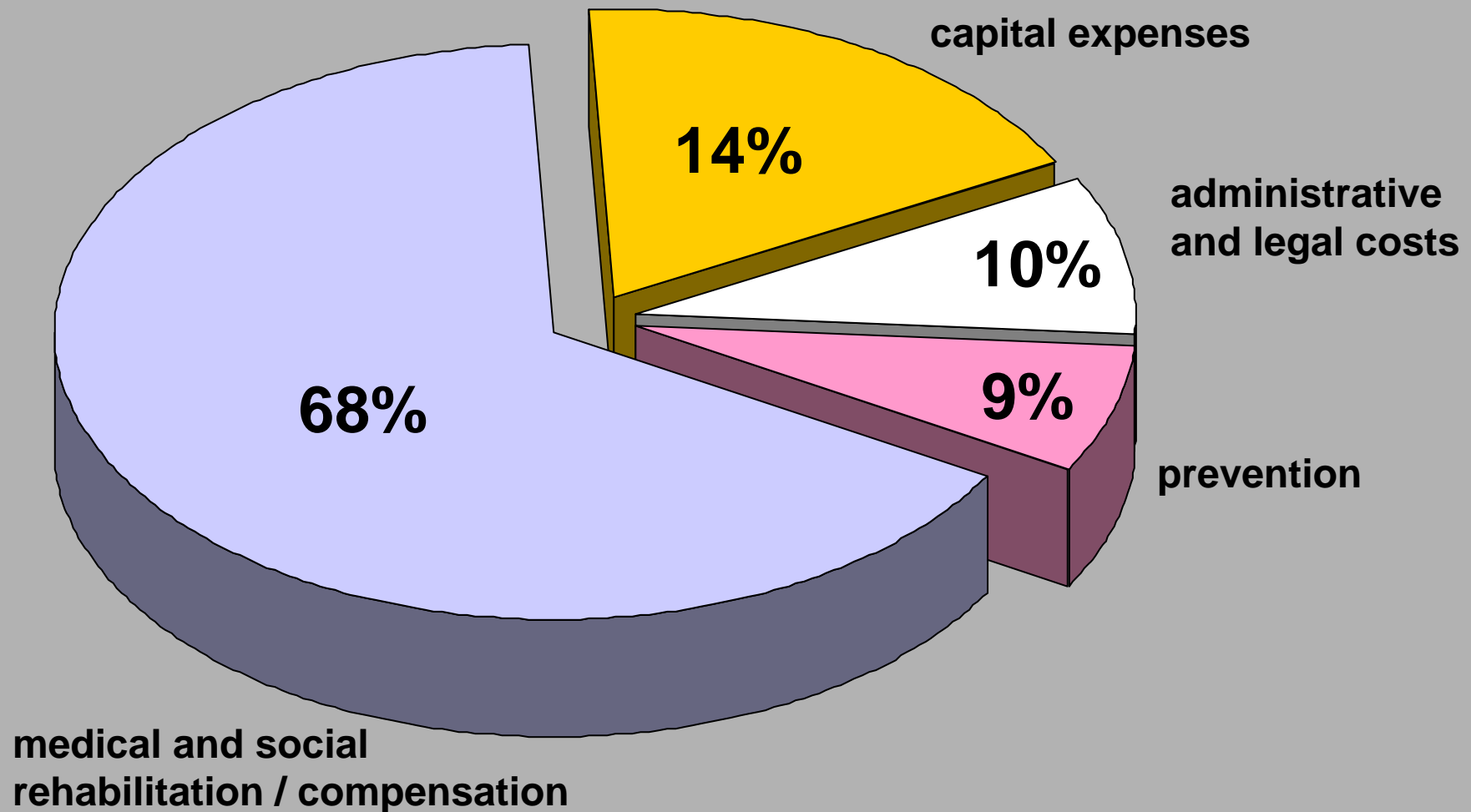
■ accidents at work and occupational diseases 1995 - 2003

	1995		2003	
companies	6.467	-11,27 %	5.738	
employees	220.929	-30,85%	152.779	
accidents at work in total	28.431	-46,79%	15.128	
notifiable accidents at work	17.735	-60,07%	7.081	
new accident pensions	525	-52,19%	251	
fatal accidents	29	-20,69%	23	
notifiable accidents at work per 1000 full-time-employees	87,37	-41,74%	50,90	
suspected occupational diseases	1.118	-59,66%	451	
occup. dis.: new pensions	122	-27,05%	89	

**in the mining-industry
every 10th employee
is involved in a
notifiable accident**

■ expenses of the StBG in 2002

total: 190 million €



- our legal task

our legal task

■ our legal task

Social law code VII (SGB VII)

Responsibility of accident insurance

- ① To do everything possible to prevent
 - Accidents at work
 - Occupational diseases
 - Occupational health hazards

- ② To do everything possible to
 - Restore the health of sufferers
or provide financial compensation

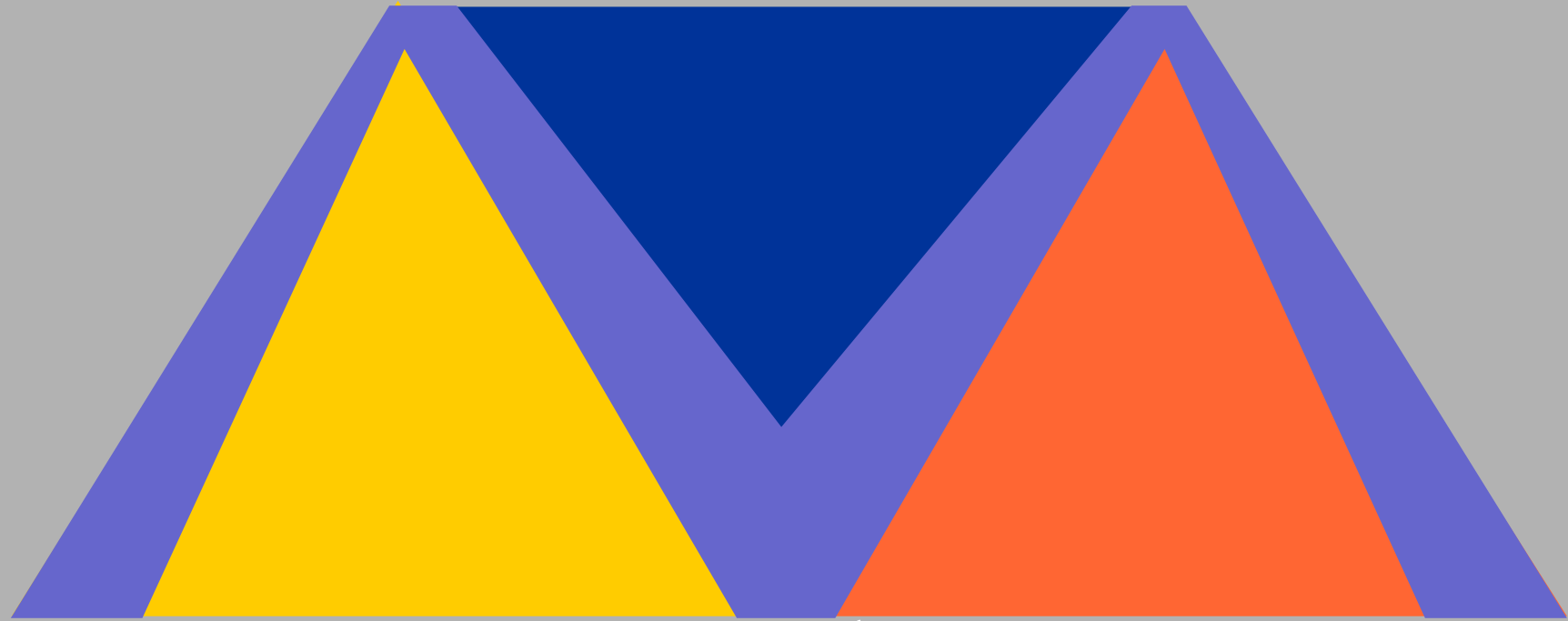
(§ 1 "Prevention, rehabilitation, compensation")



our principle:

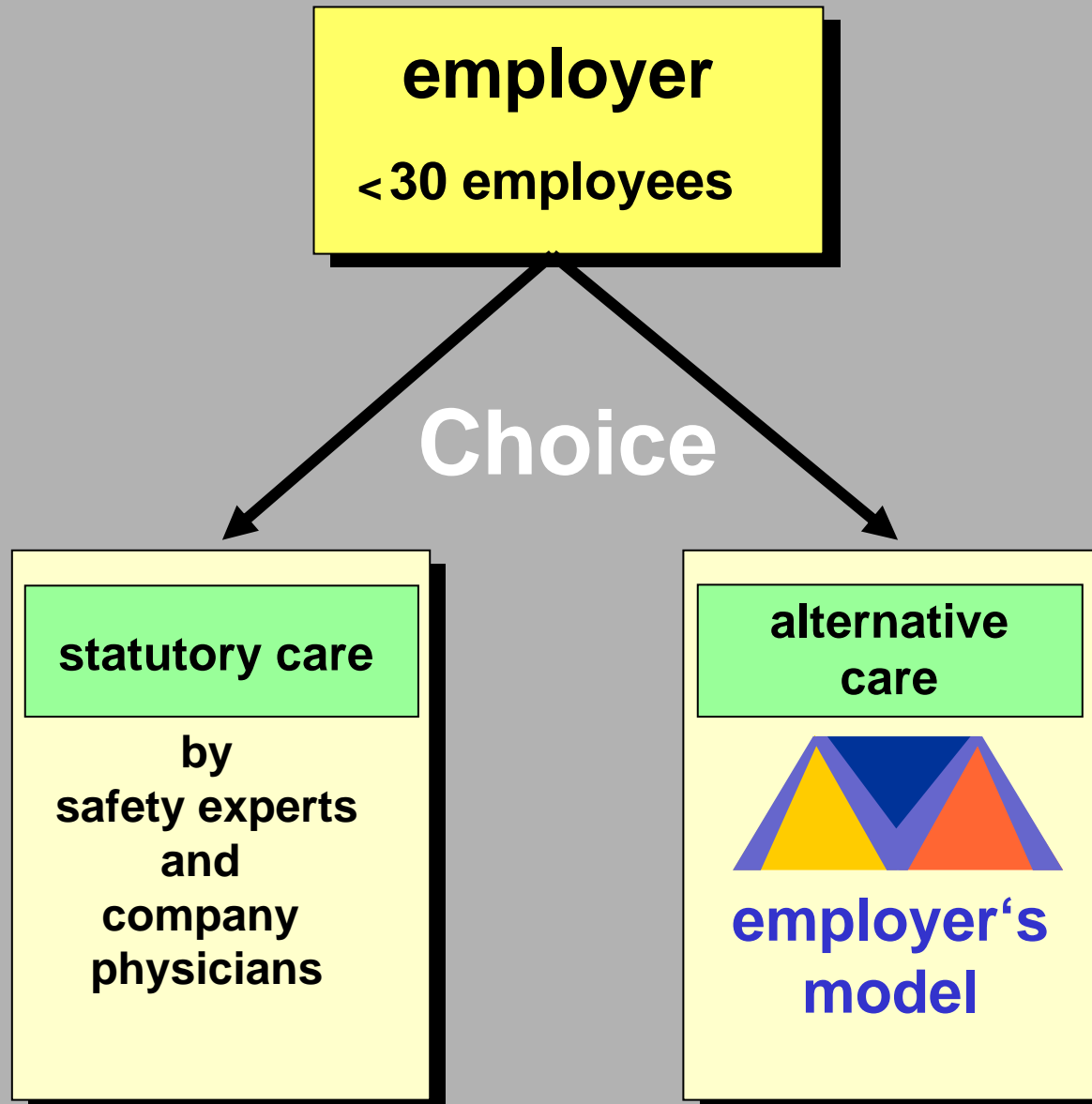
**service and consulting
before
supervision and penalty**

■ Elements of Prevention
2000



employer's model
taking over responsibility

■ choice between two models of care



■ the elements

employer's model

```
graph TD; A[employer's model] --> B[regular training courses (employer's seminars)]; A -- "+" --> C[advice by safety engineers]; A -- "+" --> D[care and medical check-ups by company physicians];
```

regular
training courses
(employer's seminars)

advice
by
safety engineers

care and
medical check-ups
by company physicians

■ training and motivation courses

part 1 (2 days)

- employer's responsibility
- basics of safety at work
- economy of safety at work

part 2 (2 days)

- branch-specific health problems (noise/dust/ergonomics/spinal column)
- leading and instructing

part 3 (2 days)

- branch-specific safety problems
- transport, maintenance
- risk management / safety-checks

part 4 (2 days)

- dangerous agents
- safety programs
- strategies for realization
- advisory care of StBG



regular further training (2 days)

- repetition and consolidation
- new Knowledge
- exchange of experiences

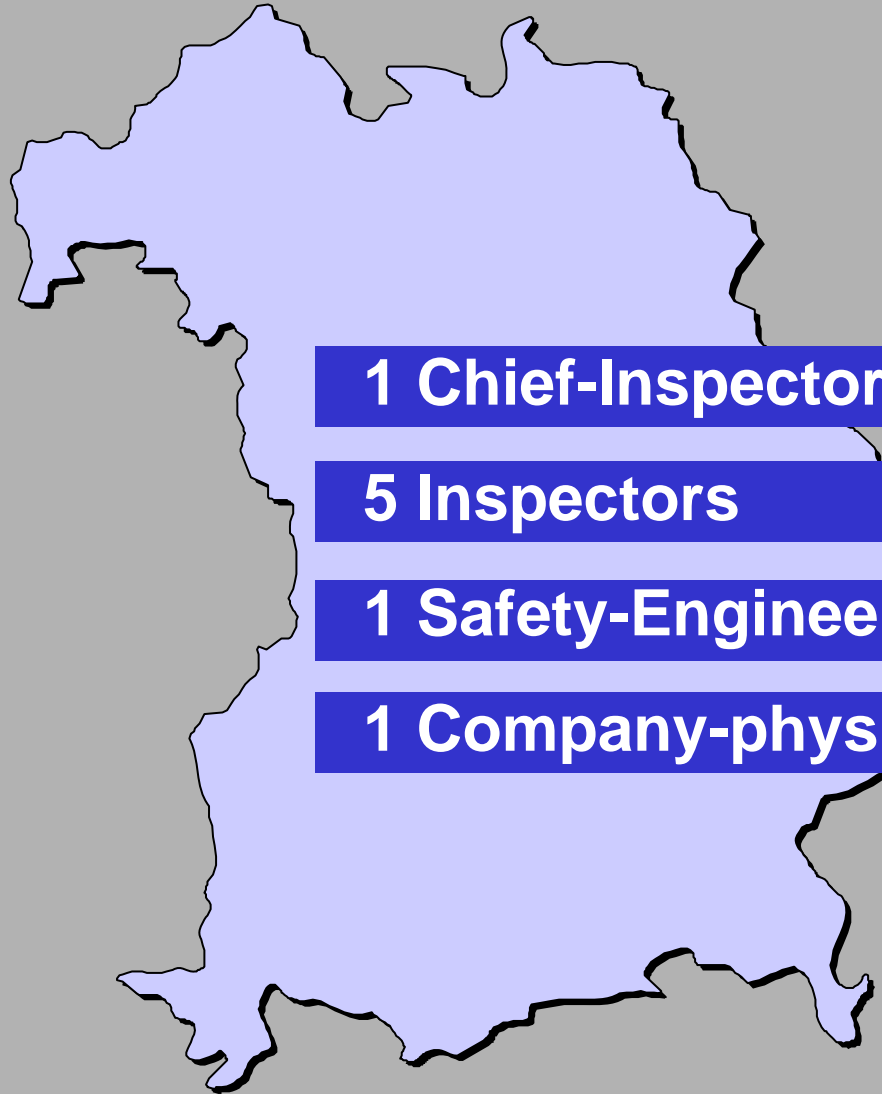
■ the team



■ the team

- 46 inspectors
- 8 safety-engineers
- 7 company physicians
- 2 course instructors
- 1 psychologist
- 2 media experts
- 1 gauging engineer
- 29 administrators of the preventative occupational medicine

■ **the team**



**District I
Nürnberg**

1 Chief-Inspector

5 Inspectors

1 Safety-Engineer

1 Company-physician

■

Since 1995 the risk to be involved in an accident receded more than 36 % for employees in the Employers Modell

Seminars

Trainings

Models

lifelong learning

- seminars - trainings - models

employers

chiefs in command

per Year:
6000 participants
in 300 courses

drivers

first aid

- the mobile exposition „hearing“



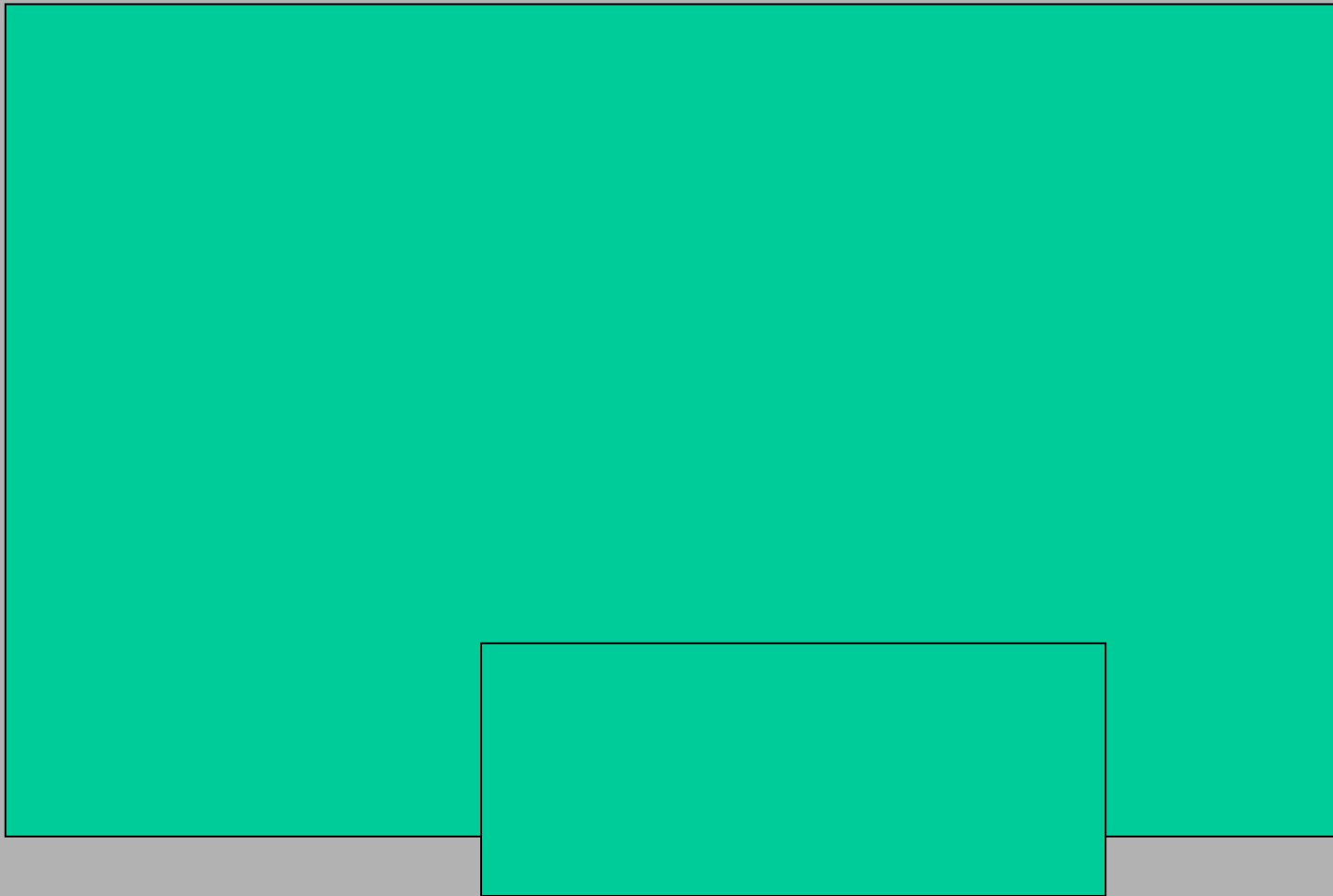
- the conveyor-belt model



- the slip, trip and fall parcours



■ the securing cargo circuit



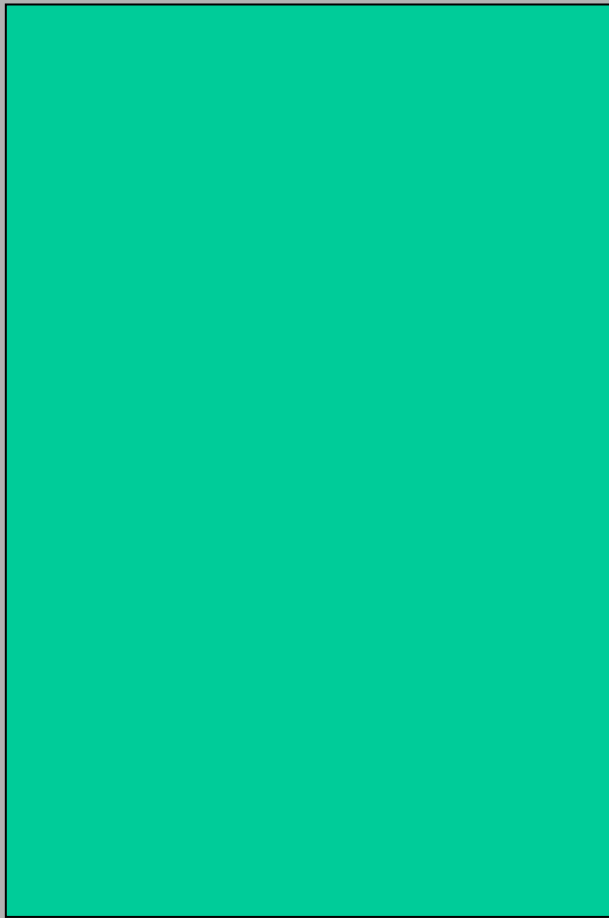
- Elements of Prevention 2000

Campaigns for better Awareness safety live

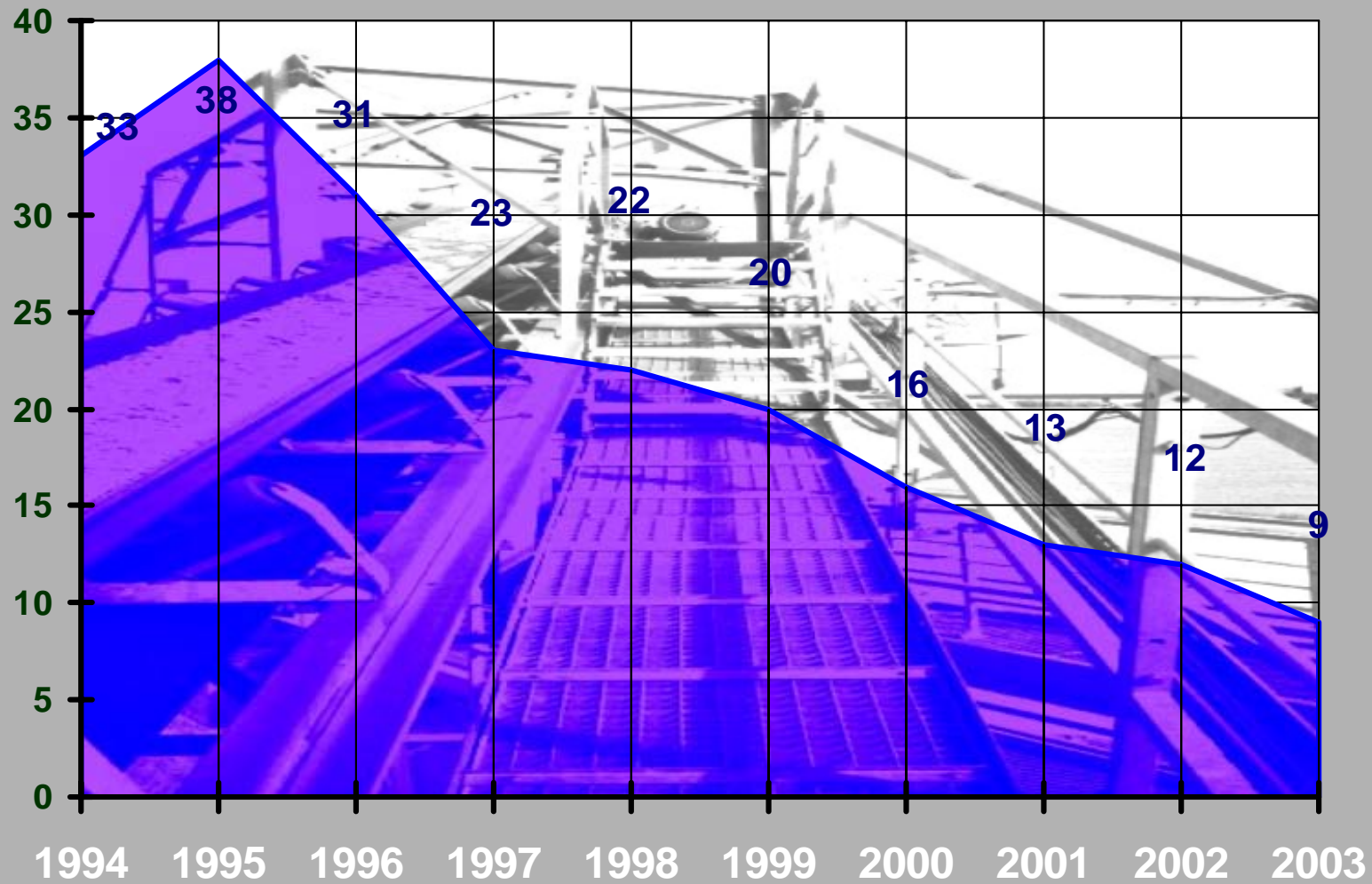
- prevention package „safety at conveyor belts“



- prevention package „safety at conveyor belts“



■ new accident pensions caused by conveyor belts

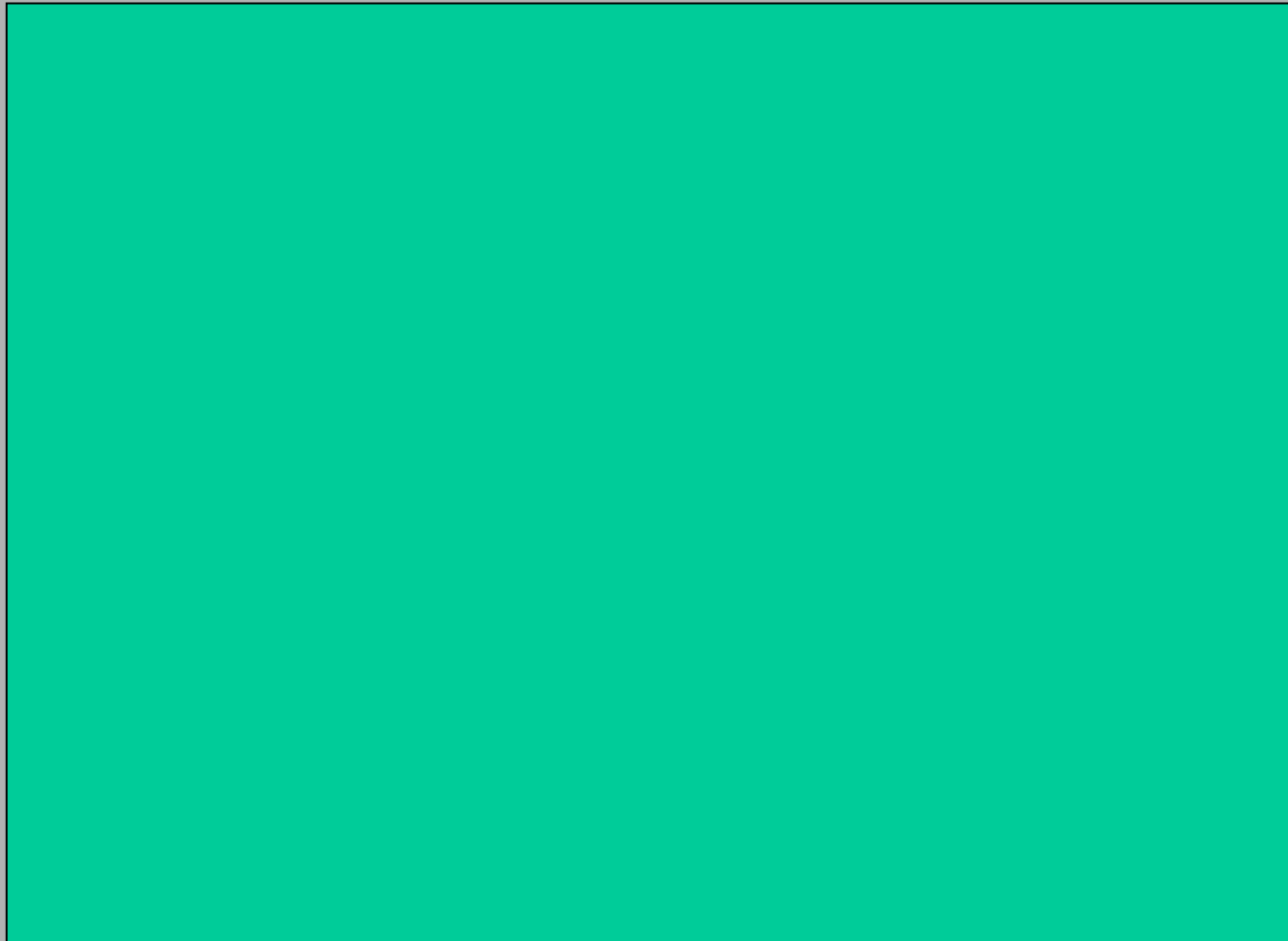


- **campaign for better awareness: slip and fall accidents**

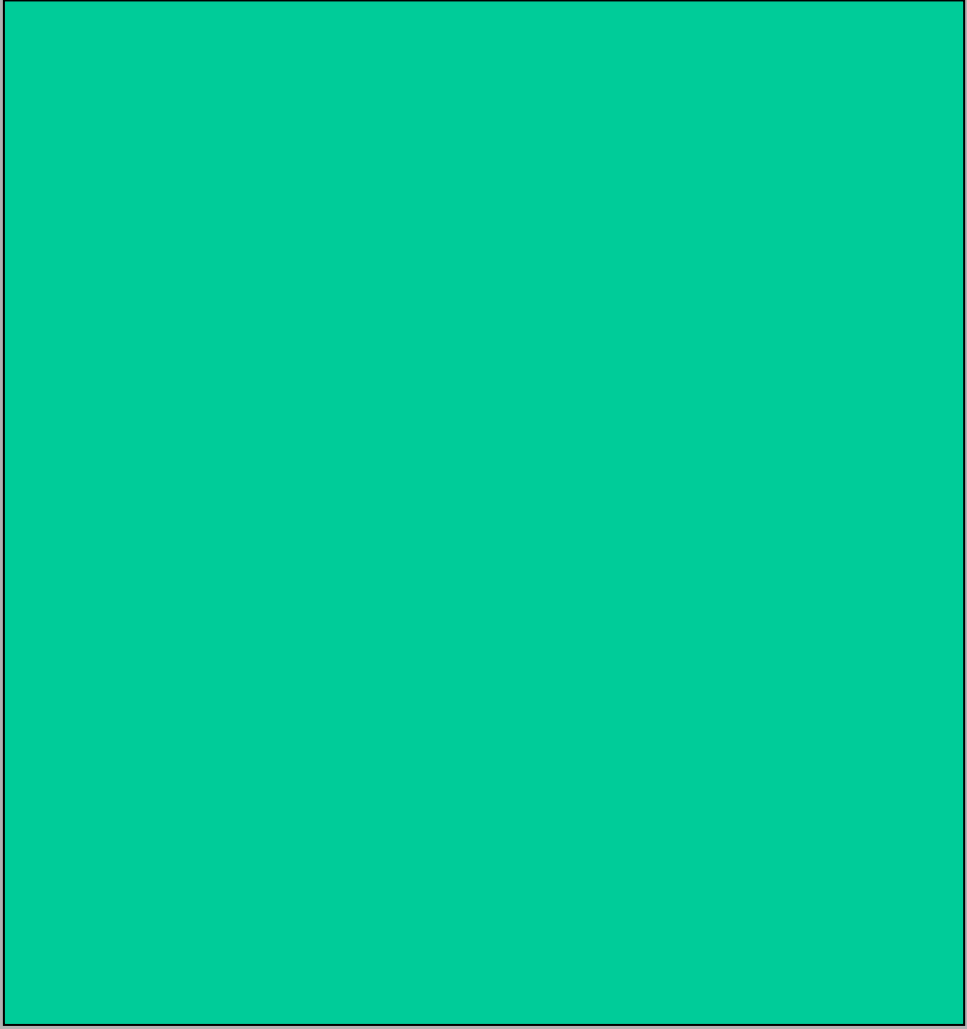
A large, bold, white graphic of the text 'BAU7' is centered on a red rectangular background. The letters are thick and stylized, with a slight shadow effect. The 'B' is on the left, followed by 'A', 'U', and '7' on the right. The entire graphic is set against a light gray background.

- **campaign für better awareness: slip and fall accidents**

the newspaper



BAUZ



■ campaign for better awareness: slip and fall accidents

sweepstake





the elements

newspaper

posters

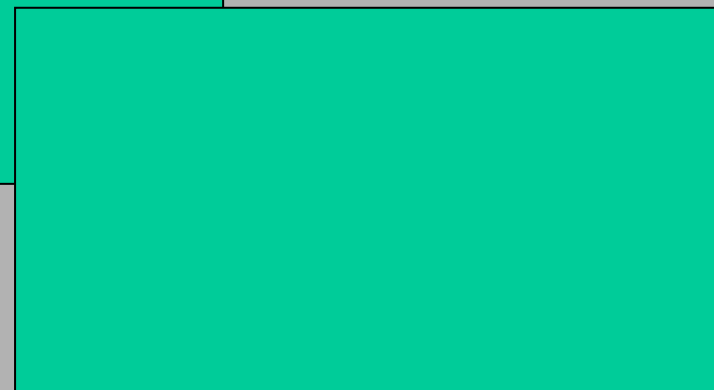
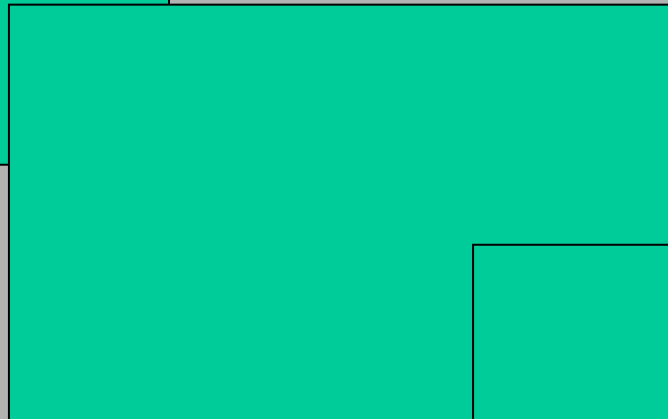
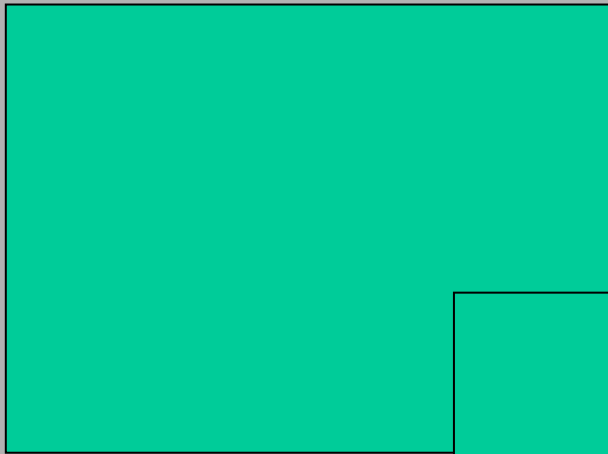
stickers

sweepstakes

information - box

- **campaign for better awareness: slip and fall accidents**

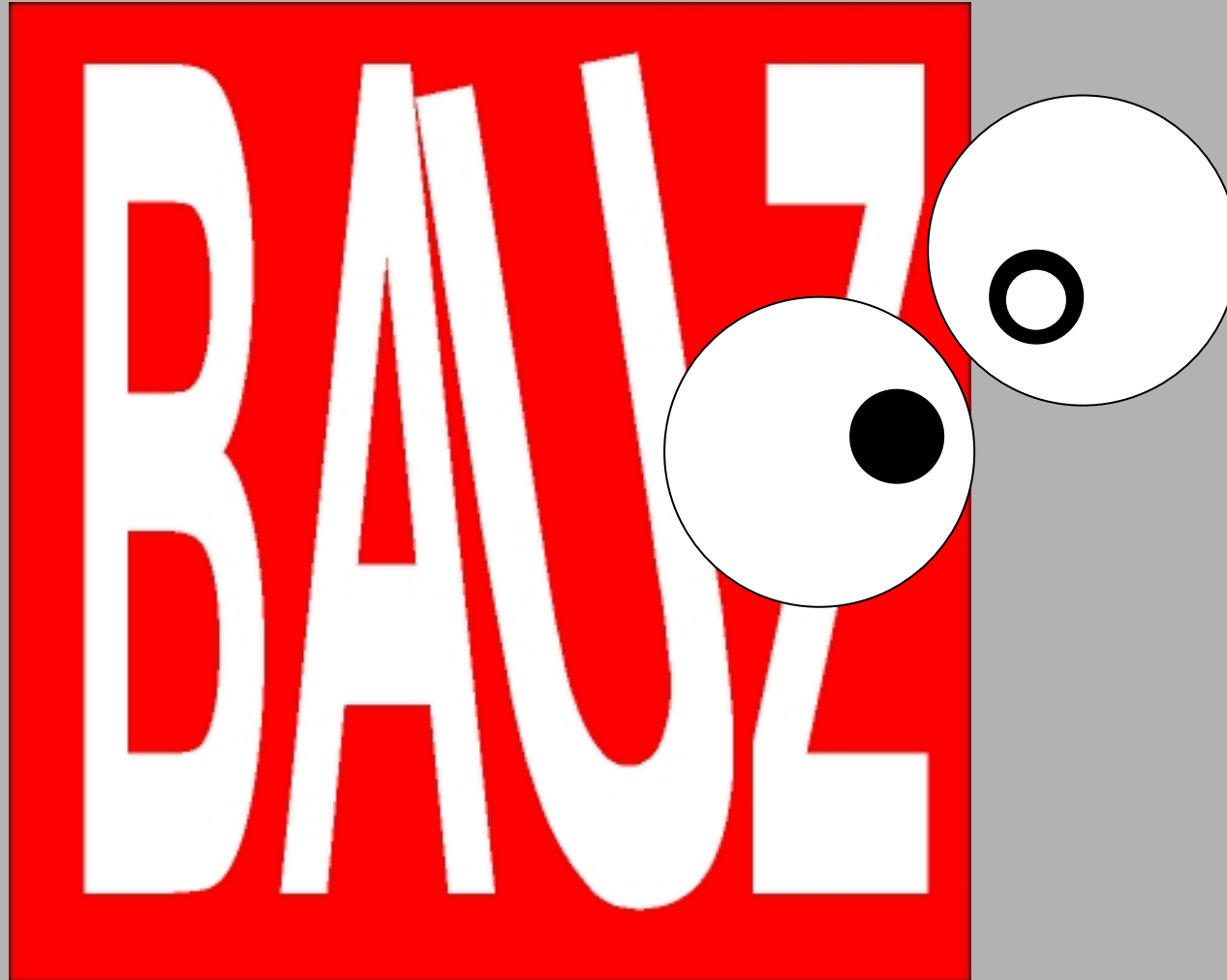
the events



- **New accident pensions caused by slip, trip and fall**

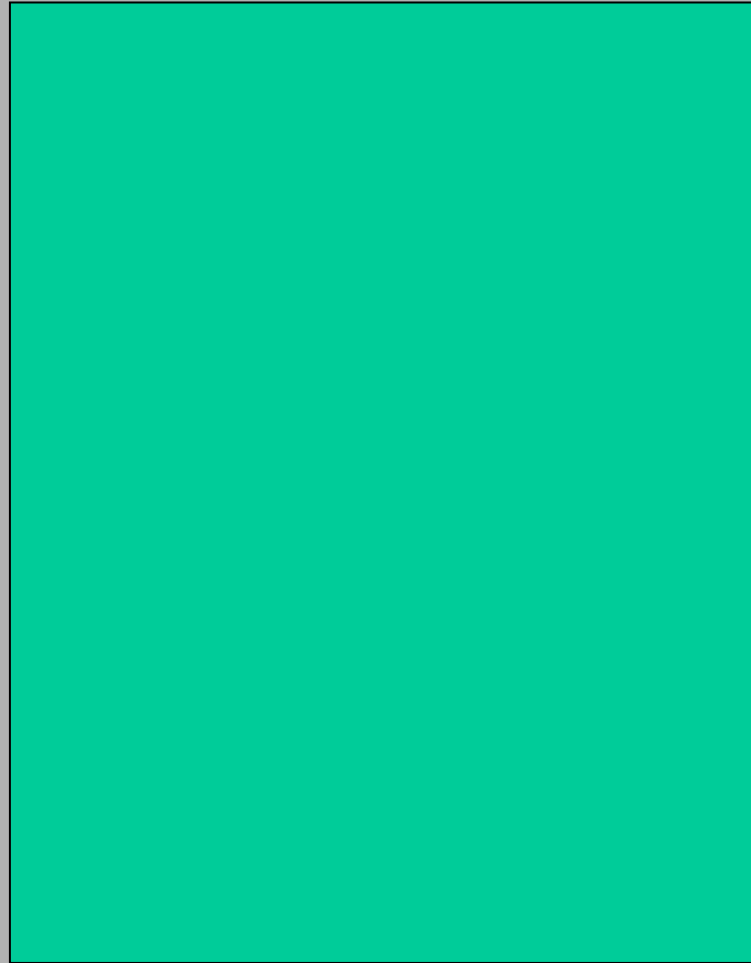
The new accident pensions caused by slip, trip and fall accidents decreased from 181 in 1996 for 42,5 % to 104 in 2003

- campaign for better awareness: eye safety



- **campaign to improve awareness: eye safety**

the newspaper



■ campaign to improve awareness: eye safety

More than 23.000 eye injuries form 1998 to 2002

18 % of these accidents are notifiable

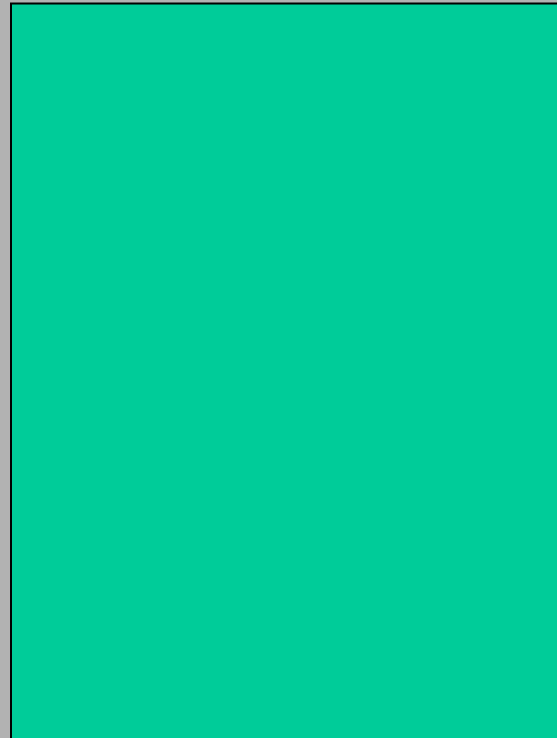
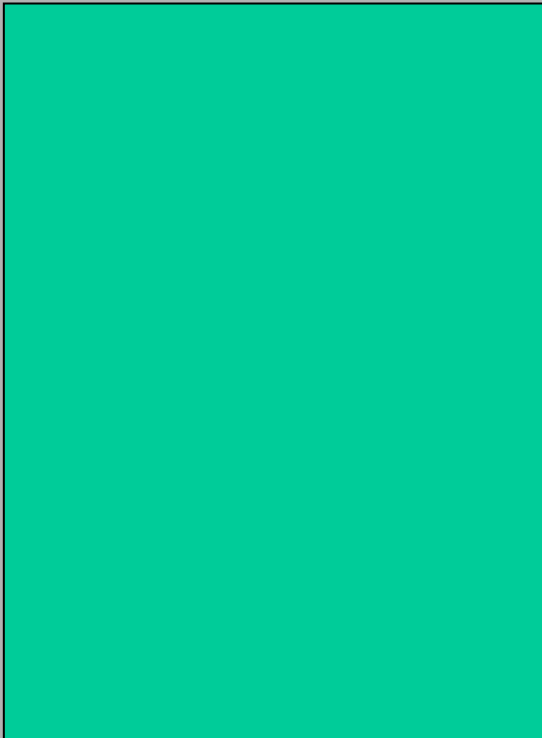
Eye injuries are on the second place of the list of accidents

**50 % of the accidents are caused by handling tools
or other utilities**

**A non-measured part of accidents at work is caused by
short-sightedness or other eye related causes.**

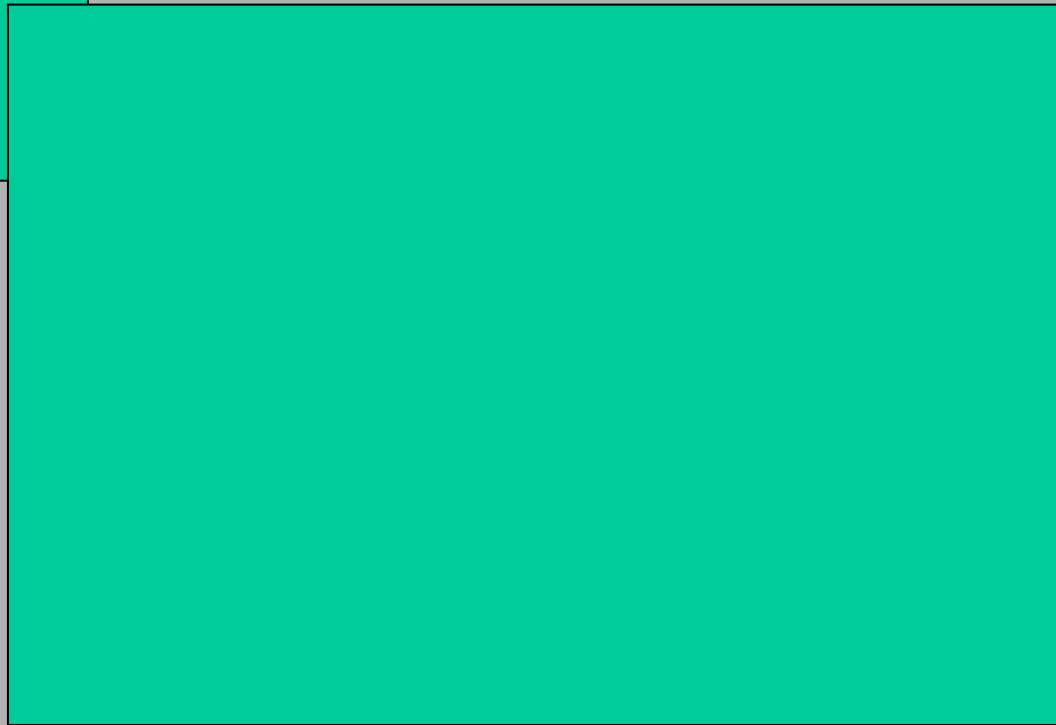
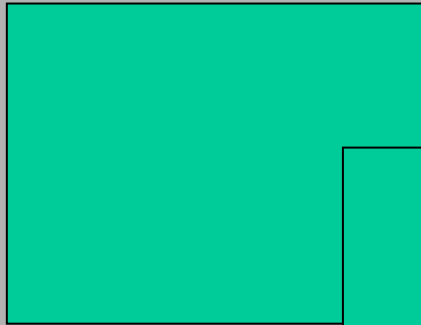
- **campaign to improve awareness: eye safety**

info-papers



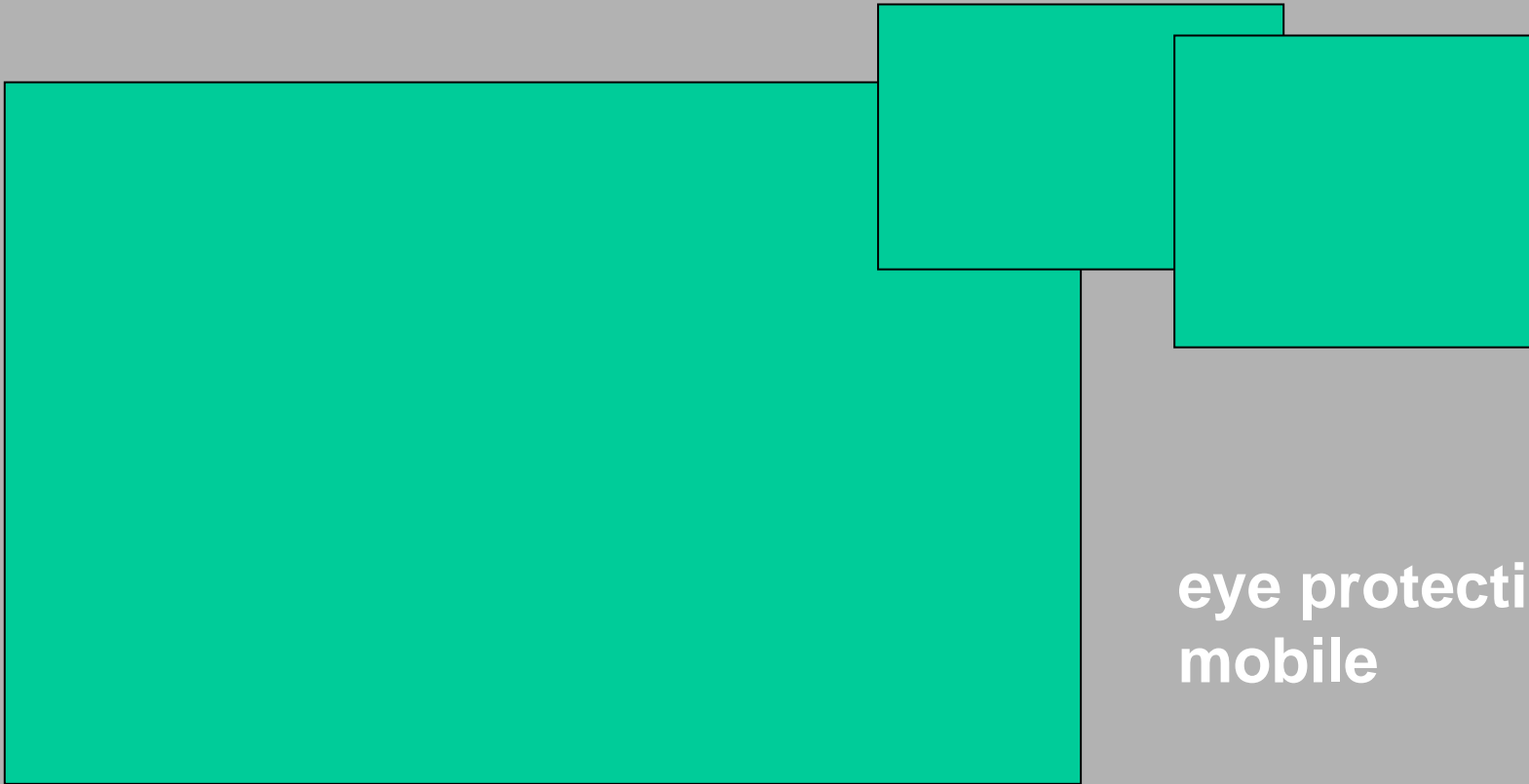
- Campaign for better awareness: eye safety

the media-pool



■ campaign for better awareness: eye safety

-

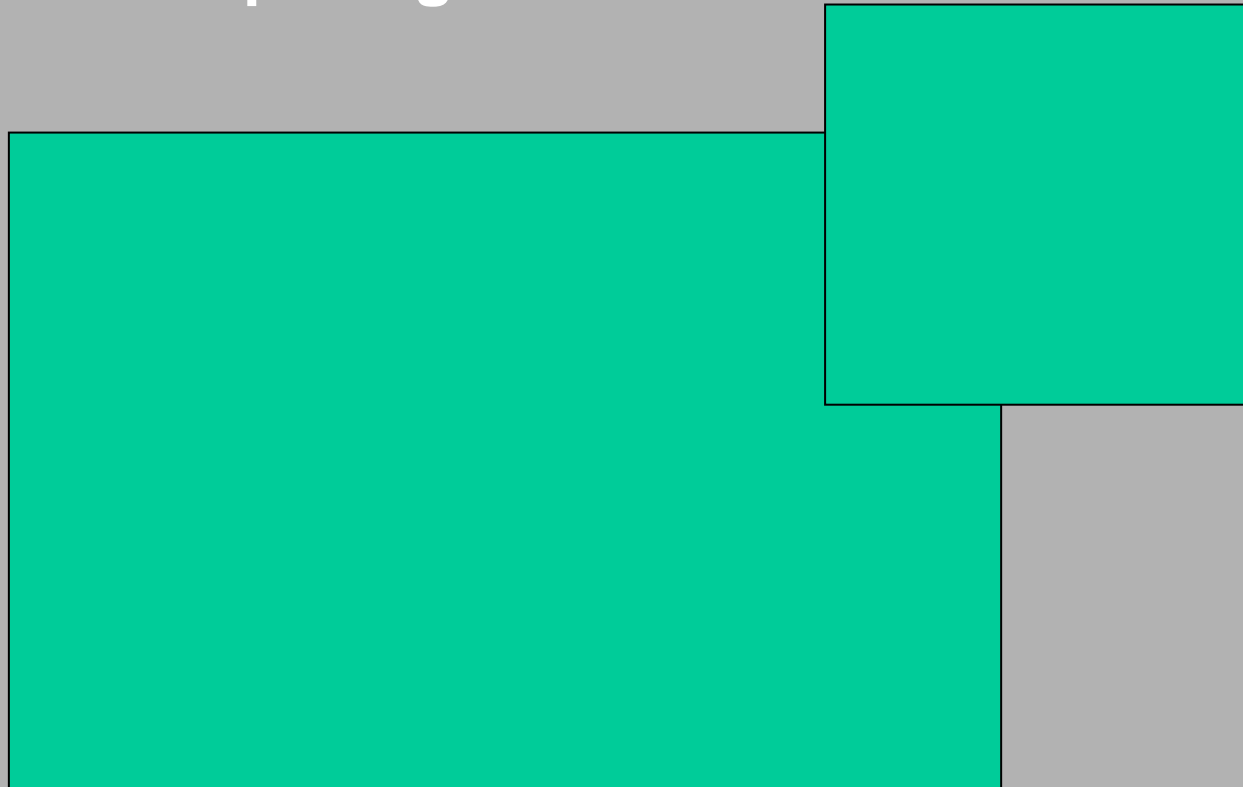


eye protection
mobile

■ campaign to improve awareness: eye safety

-

campaign
opening



■ **campaign to improve awareness eye safety**

**176 visits
in
Member-Companies**

Ca. 9.500 visitors

**90% of the visitors
are taking advantage
of the visual test**



■ Elements of Prevention
2000



a worldwide market place for ideas

■ the aims



Collect good solutions



Produce initiatives and realize good ideas



**Make good ideas available
for the whole industry**



**Promote the idea of a safe and healthy
working environment**

■ attendance 1996 - 2003

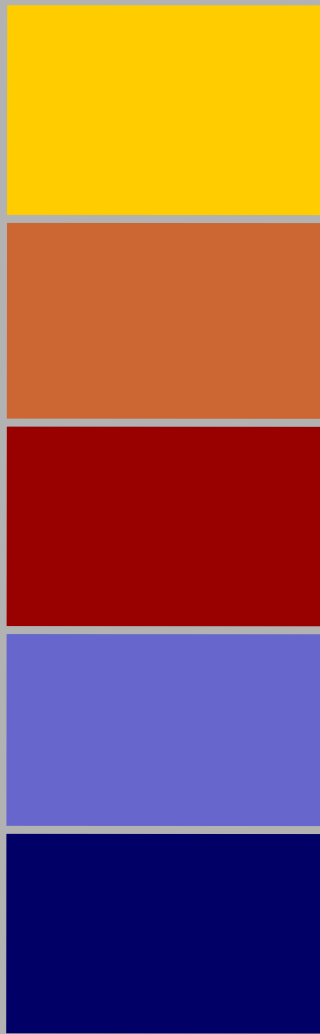
	ideas	participants
1997	125	230
1998	196	420
1999	145	300
2000	186	458
2001	156	387
2002	174	375
2003	158	403
in total	1.140	2.573

■ Elements of Prevention

2000

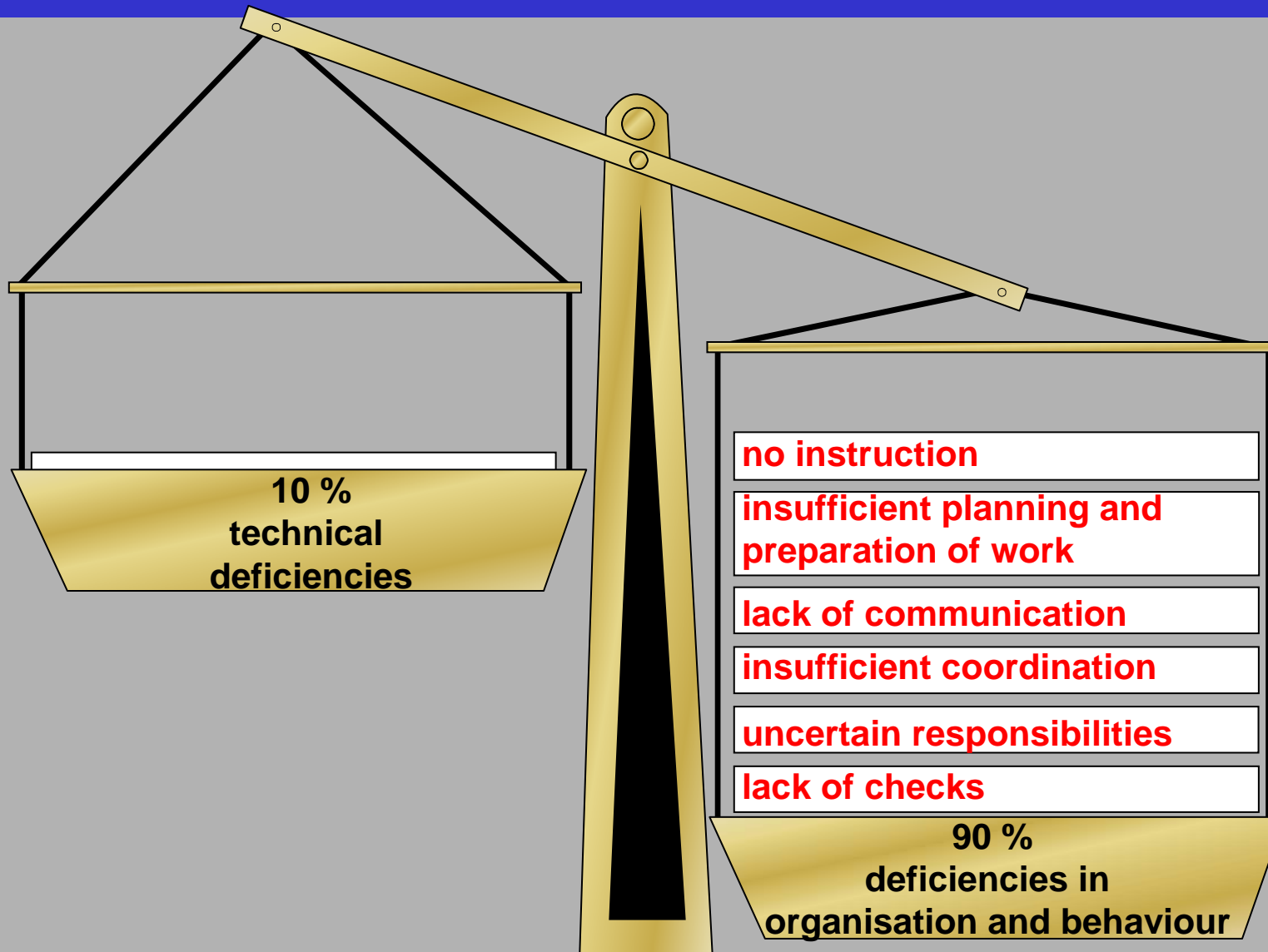


Systematic
Safety

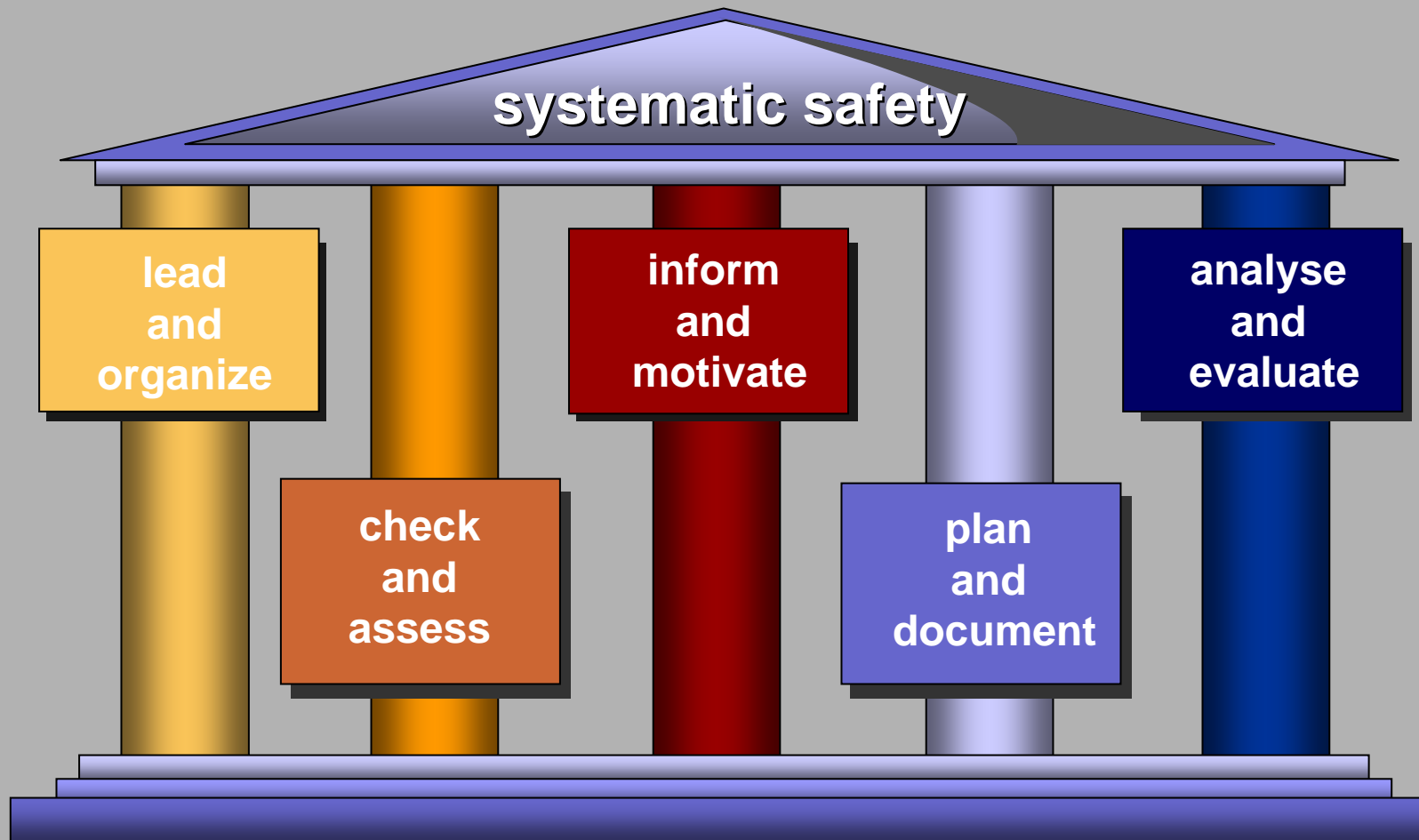


**Systematic
Safety**

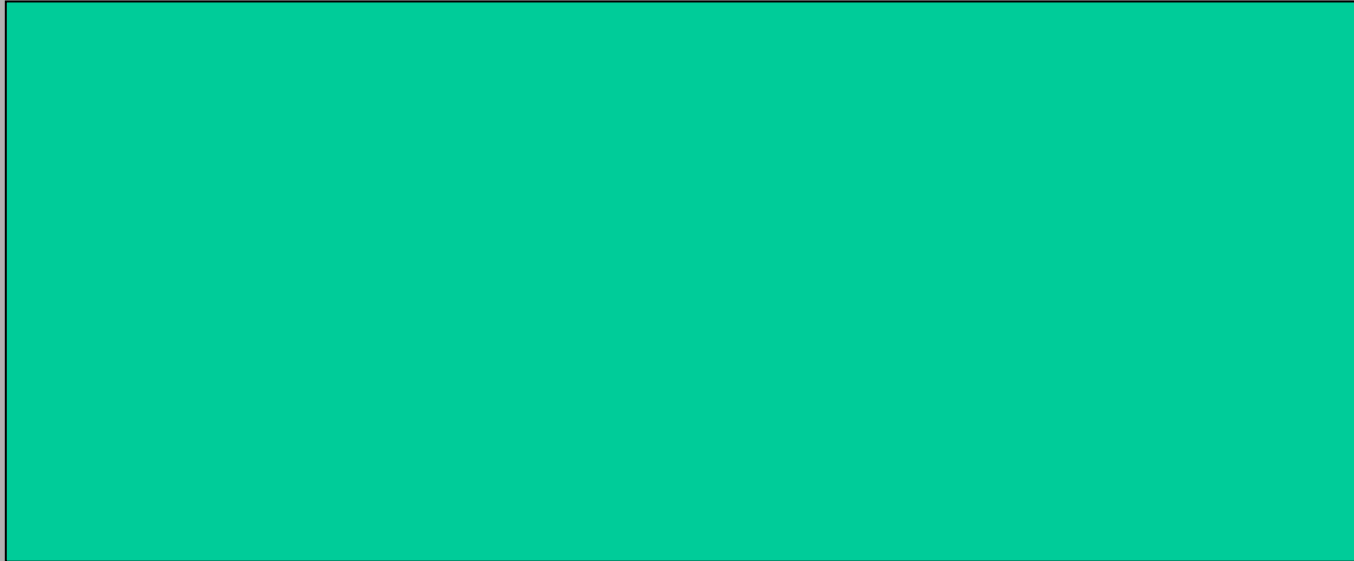
■ accident causes



- 5 main columns



- **The seal of approval: systematic safety**



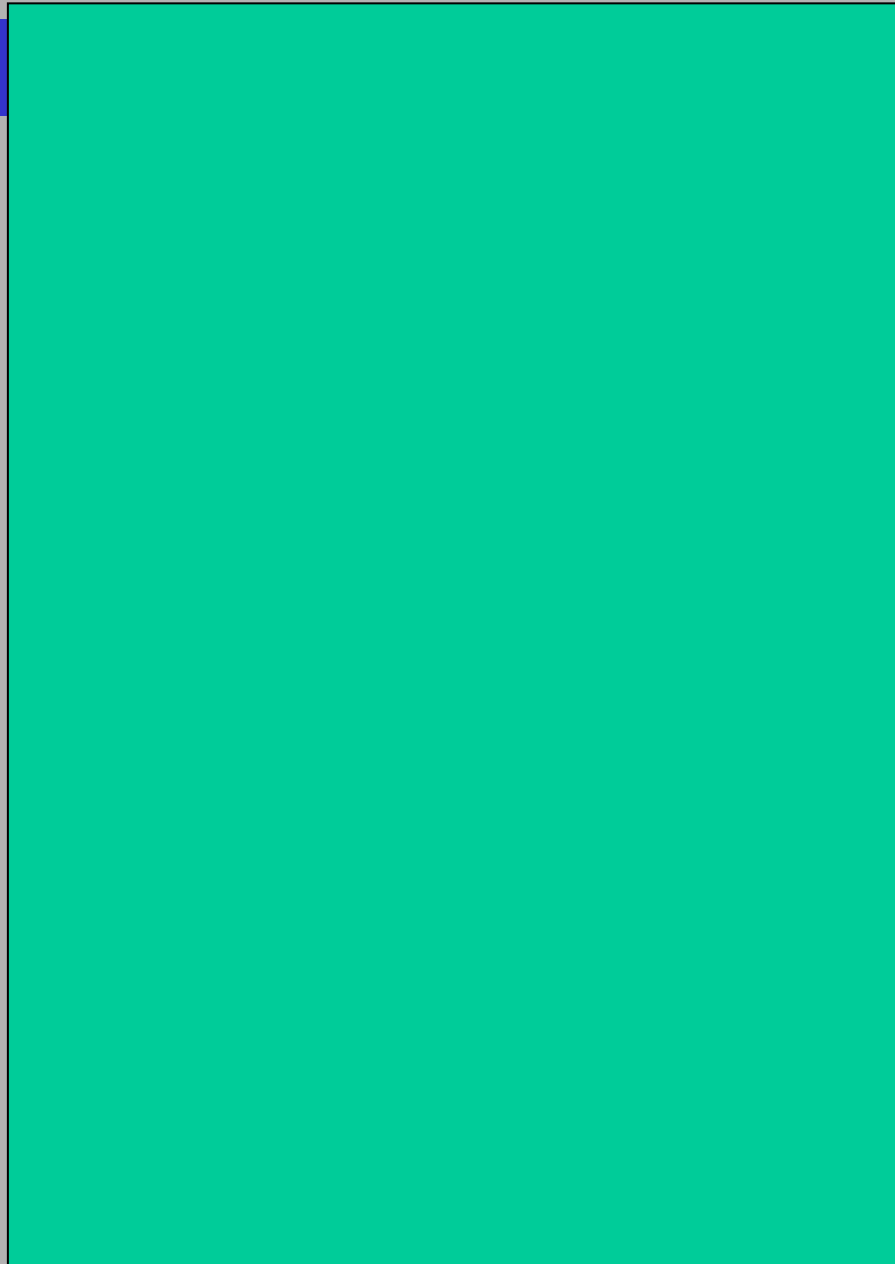
**The seal of approval:
systematic safety**

- **The seal of approval: systematic safety**

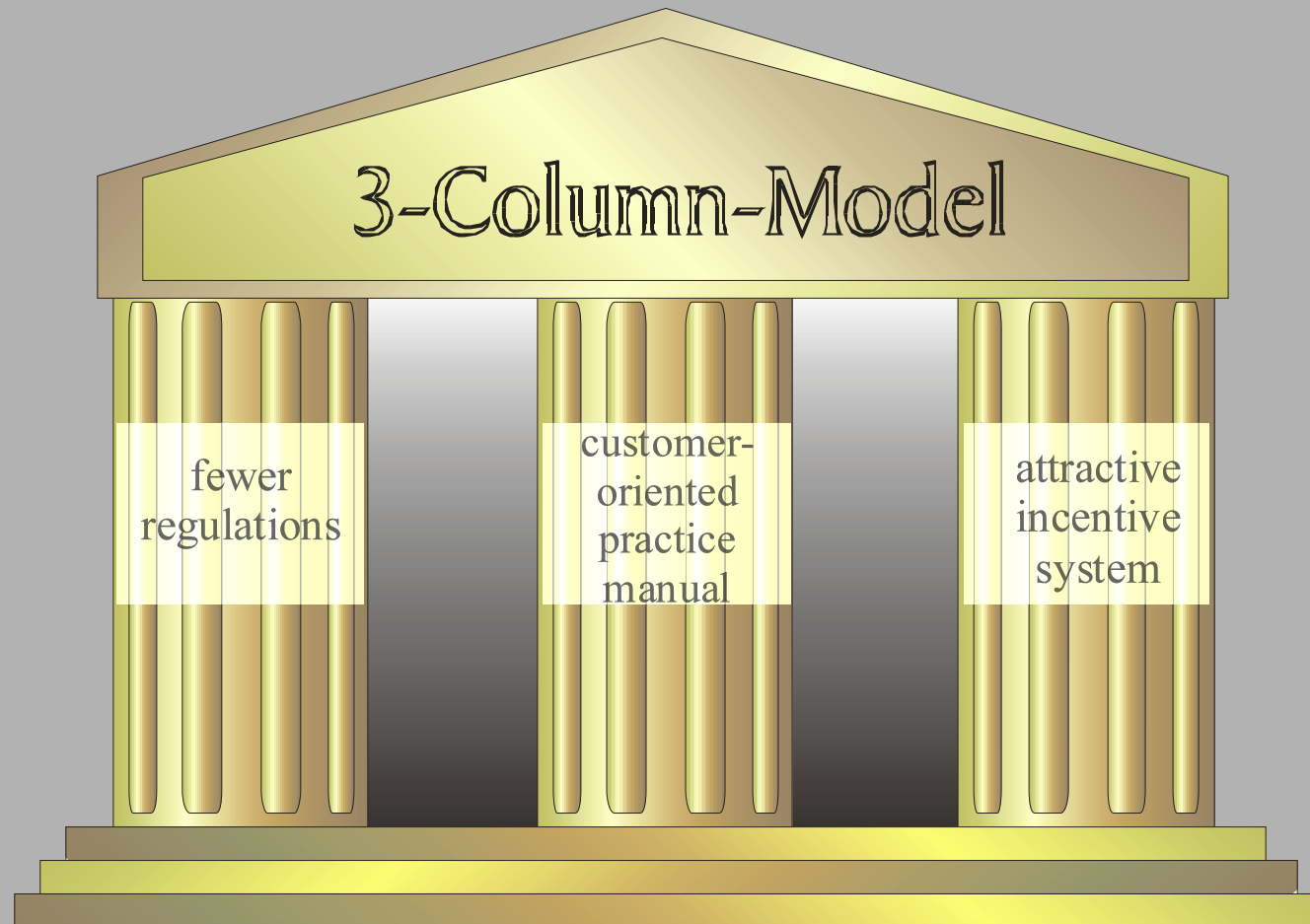




The certificate



■ Outlook



■ Content

A

the road to more personal responsibility

fewer regulations

B

the easy to comprehend, clear and
up-to-date tool for work

customer-oriented practice manual

C

who does more receives more

attractive incentive system

■ Regulations of the StBG up to 2004

A

BGV A1
BGV A2
BGV A4
BGV A5
BGV A6
BGV A7
BGV A8

A

Allgemeine Vorschriften i.d.F. vom 1.4.2000
Elektrische Anlagen und Betriebsmittel i.d.F. Vom 1.1.1997
Arbeitsmedizinische Vorsorge i.d.F. vom 1.1.1997
Erste Hilfe i.d.F. vom 1.1.1997
Fachkräfte für Arbeitssicherheit i.d.F. vom 1.10.2002

1.4.2002

**43 regulations,
820 pages,
1493 articles**

BGV B1
BGV B3
BGV B12

BGV C11
BGV C12
BGV C15
BGV C22
BGV C24

BGV D1
BGV D3
BGV D6
BGV D7
BGV D8
BGV D12
BGV D15
BGV D17
BGV D21
BGV D26
BGV D27
BGV D29
BGV D30
BGV D33
BGV D34
BGV D36

D

Wind-, Hub- und Zugeräte i.d.F. vom 1.1.1997
Schleif- und Bürstwerkzeuge i.d.F. Vom 1.10.2002
Arbeiten mit Flüssigkeitsstrahlern i.d.F. vom 1.1.1997
Verpackungs- und Verpackungshilfsmaschinen i.d.F. vom 1.1.1997
Schwimmende Geräte i.d.F. vom 1.1.1997
Strahlarbeiten i.d.F. vom 1.1.1997
Flurförderzeuge i.d.F. vom 1.1.1997
Fahrzeuge i.d.F. vom 1.1.1997
Schienenbahnen i.d.F. Vom 1.10.1998
Arbeiten im Bereich von Gleisen i.d.F. vom 1.1.1997
Verwendung von Flüssiggas i.d.F. vom 1.1.1997
Leitern und Tritte i.d.F. vom 1.1.1997

+ Maschinenaltbestand (15 UVVen)

■ Regulation of the StBG from now on

A

- BGV A1 Grundsätze der Prävention i.d.F. vom 1.1.2004
- BGV A2 Elektrische Anlagen und Betriebsmittel i.d.F. vom 1.1.1997
- BGV A4
- BGV A6
- BGV A7
- BGV A8
- BGV B3
- BGV C1
- BGV C1
- BGV C2
- BGV C24 Sprengarbeiten i.d.F. vom 1.1.1997
- BGV D6 Krane i.d.F. vom 1.10.2000
- BGV D21 Schwimmende Geräte i.d.F. vom 1.1.1997
- BGV D27 Flurförderzeuge i.d.F. vom 1.1.1997
- BGV D29 Fahrzeuge i.d.F. vom 1.1.1997

**15 regulations,
308 pages,
532 articles**

splatz vom 1.4.2002

■ The new reduced body of regulation

- BGV A1 Grundsätze der Prävention
- BGV A2 Elektrische Anlagen und Betriebsmittel i.d.F. Vom 1.1.1997
- BGV A3
- BGV A4
- BGV A5
- BGV A6
- BGV A7
- BGV A8
- BGV A9
- BGV A10
- BGV A11
- BGV A12
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- BGV D21
- BGV D22
- BGV D23
- BGV D24
- BGV D25
- BGV D26
- BGV D27 Flurförderzeuge i.d.F. vom 1.1.1997
- BGV D28
- BGV D29 Fahrzeuge i.d.F. vom 1.1.1997

■ The number of regulations has been decreased from 43 to 15 (-65%)

■ The number of articles has been decreased from 1,493 to 532 (-64%)

■ The volume has been reduced from 820 to 308 pages (-62%)

beitsplatz vom 1.4.2002

- **customer-oriented practice manual**

B

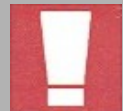
**up to the end of 2004 a branch related
practice manual will replace a great
part of the body of regulations**

■ Page layout

B



the situation



the most common hazards

■ Page layout

B

 measures

 further informations

- attractive incentive system

C

**from the year 2005 on,
insured companies
will be able to take
advantage of premiums**

■ Targets of the incentive system

- **Supporting innovations**
- **Establish positive material incentives**
- **Support the implementation of best practice solutions**
- **Increase employers motivation to invest in occupational safety**
- **Meet the demands of insured companies**

- attractive incentive system

C

**the amount of
awarded money
will cover approx. 20% of
the total investment**

■ relevant initiatives for awarding

- **obtainment of the Seal "Systematic Safety" or similiar proof**
- **putting certain improvements of OSH into practice**
- **putting certain measures aiming at the decrease of occupational hazards into practice**
- **outstanding results in preventing work accidents**
- **putting certain innovations on the basis of StBG's Award Work - Safety - Health into practice**