



Association
of European
Businesses

Health & safety practices in Russia: tips from professionals

2 Junly 2014

AEB OFFICE

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Chair of Health & Safety Sub- Committee, Corporate Counselling Services

WELCOME ADDRESS

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EHS Group Director, SAINT- GOBAIN Russia & CIS

Learning from the incidents: case study



Saint-Gobain in CIS

May, 2014

Saint-Gobain in CIS

Net sales 2014: **> 400 m€**

21 companies (incl. 3 dormant cies)

8 industrial sites in CIS

Employees by end 2014 : **3200**



Moscow, LeFort
Headquarter Delegation in CIS

ISOVER
SAINT-GOBAIN

Gyproc
SAINT-GOBAIN

Weber
SAINT-GOBAIN

vetonit

Ecophon
SAINT-GOBAIN

PAM
SAINT-GOBAIN

CertainTeed
SAINT-GOBAIN

SHEERFILL®

verallia

clipper®

QUANTUM
SAINT-GOBAIN GLASS

LINEAROCK
ТЕХНОЛОГИИ ЭНЕРГОСБЕРЕЖЕНИЯ

Saint-Gobain in CIS

Innovative materials

- flat & automotive glass
- abrasives
- plastics and fabrics



Construction Products

- insulation
- plasterboards
- pipes
- mortars
- siding&roofing

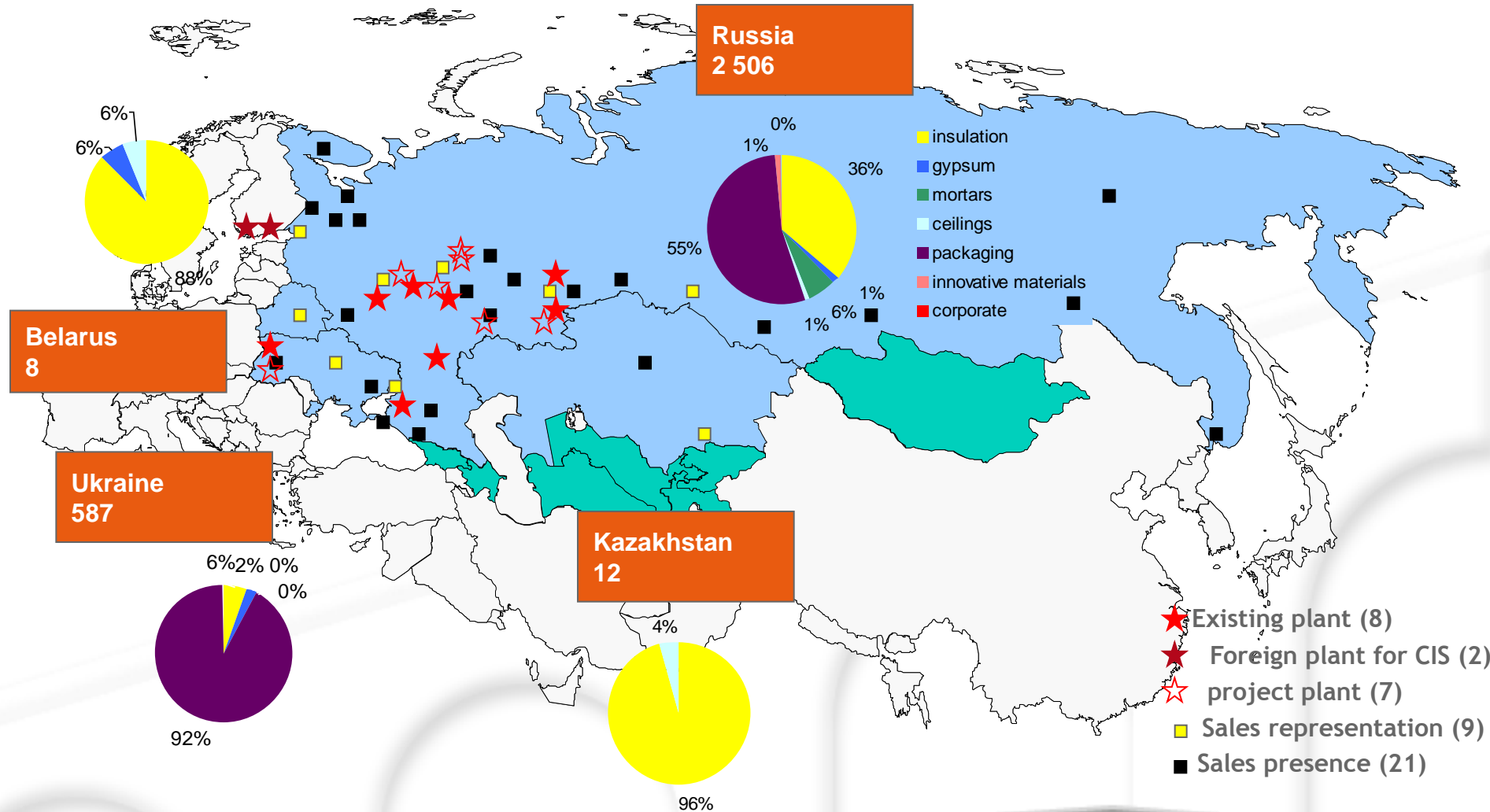


Packaging Sector

- glass bottles & jars for the food industry.



Our presence in the region



Industrial footprint today

- Existing plant (8)
- project plant (8)



Few examples of projects



Russia, Moscow City



Russia, Kazan Tennis Academy



**Ukraine, Kiev
Medical-rehabilitation center**



**Russia, Krasnogorsk
Skiing complex**



Belarus, Minsk City Library



**Kazakhstan, Astana
Highwill Astana**

'Habitat' adding value to customers



1st Training Center



1st active house



Joint exhibitions



Sochi Olympics



Hotel chains

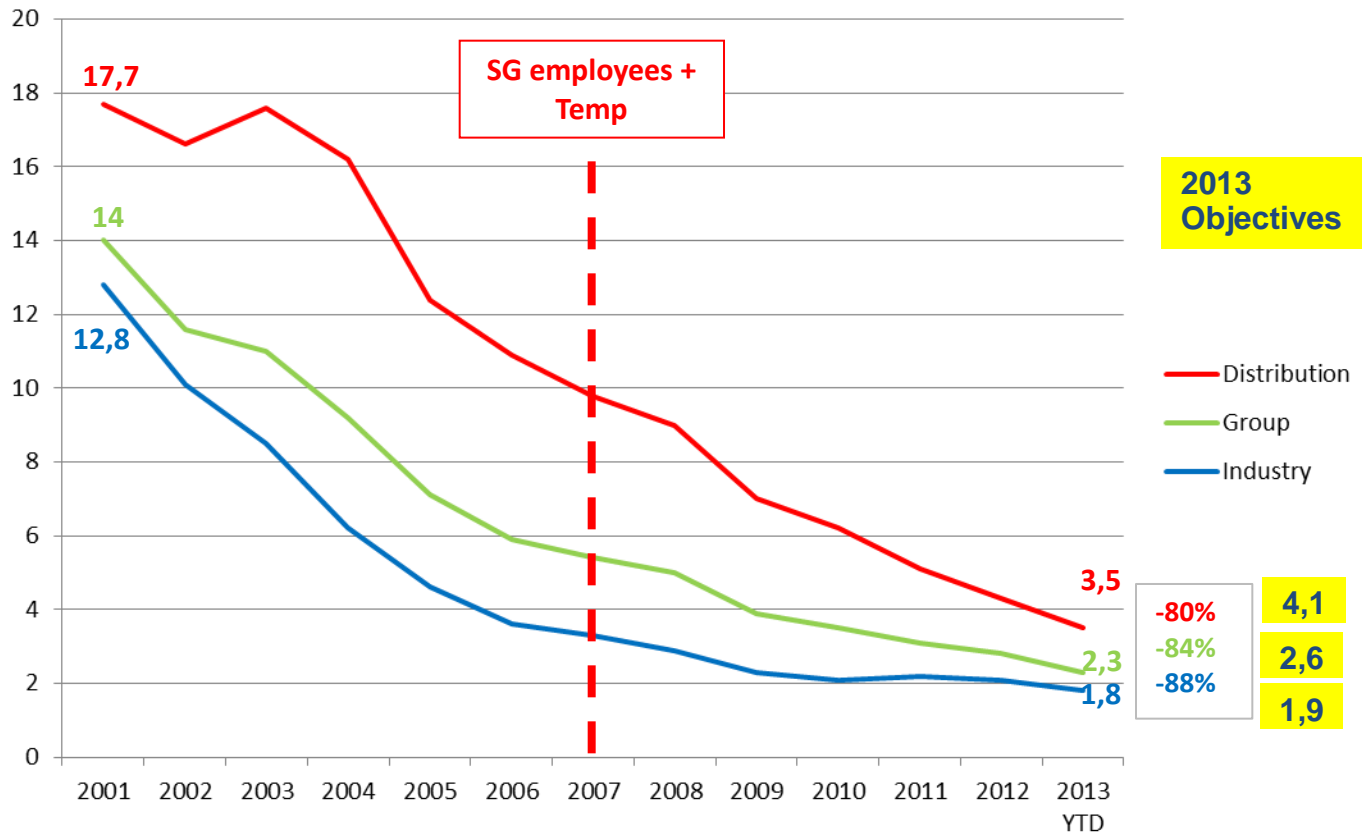


Joint specification works

LTA REDUCTION DYNAMICS

SG + Temp. GROUP TF1 2001-2013

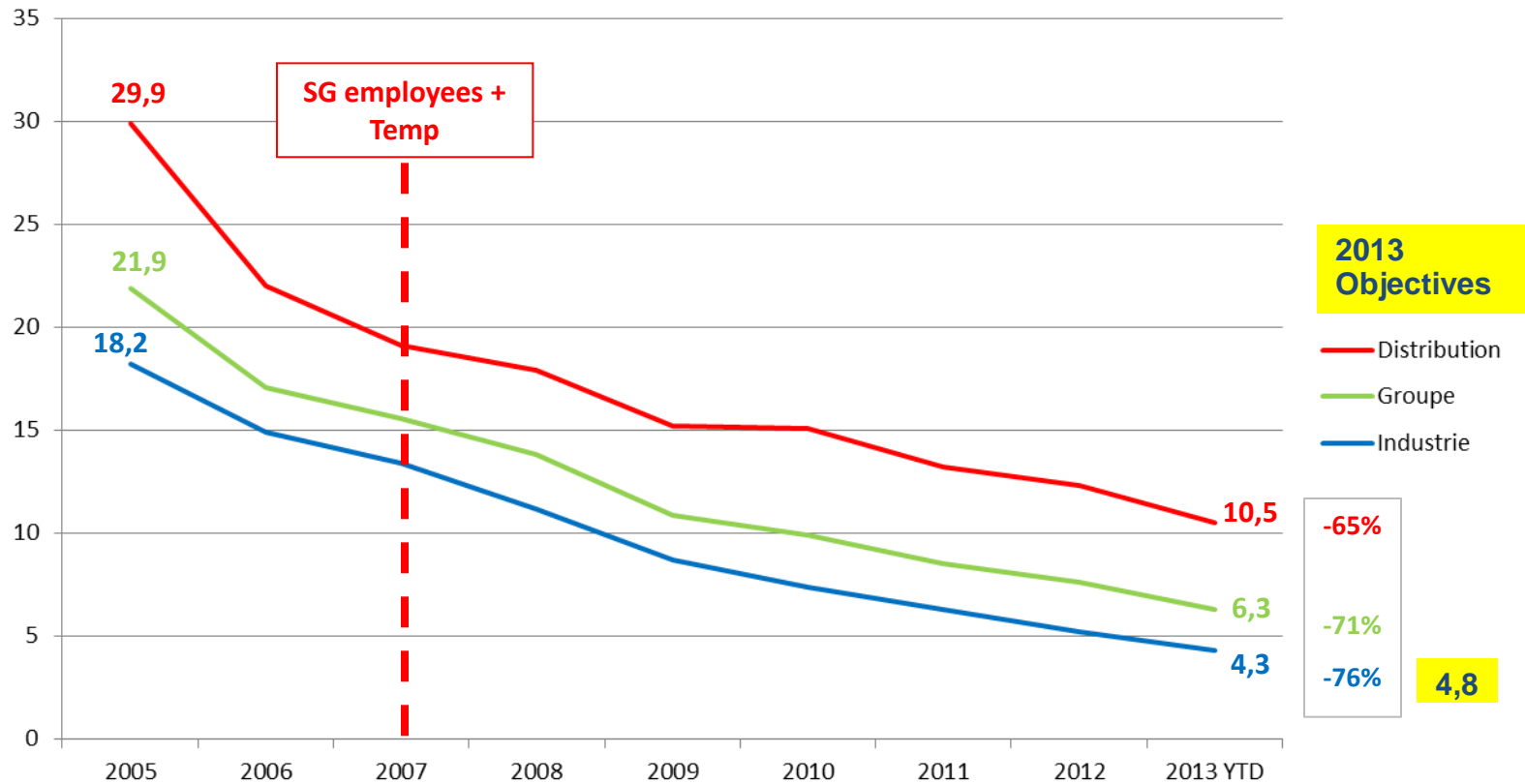
Yearly data



NLTA REDUCTION DYNAMICS

SG + Temp. GROUP TF2 2001-2013

Yearly data



Conveyor Accident

Lessons Learnt

AEB, Moscow 2nd July 2014

Kirill Katalevsky, EHS Director Russia & CIS

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Objective

- ▶ To share learnings from a serious lost time accident happened at one of the SG Gypsum plants in Europe
- ▶ To understand what happened there and what the effect was on all the personnel involved
- ▶ To help you ensure that a similar incident could not happen in your business

AGENDA

- ▶ Introduction
- ▶ Accident Description
- ▶ Root Cause Analysis
- ▶ Summary
- ▶ Questions and Comments



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SAINT-GOBAIN

Works Manager's start of the day



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Work Manager's Start of the day



Placo - Rigips - British Gypsum - Gyproc - Certainteed - Decoustics - Ecophon - Eurocoustic

Initial Description



Normal production was running when an operator near the mixing area heard somebody screaming at the end of forming belt 1. An operator immediately went to the end of belt 1 and saw the injured person with the right arm squeezed between the tensioning drum and the forming belt. First aid measures were taken and ambulance was called. Production was stopped until initial investigation.

Initial Description



Medical treatment:

First aid by plant (first aiders). Stabilisation of the injured employee by rescue team and fire brigade and decision of professional medicals to amputate arm

First checks related to the incident:

(with German safety authorities at 29/30th April)

Reconstruction of the accident

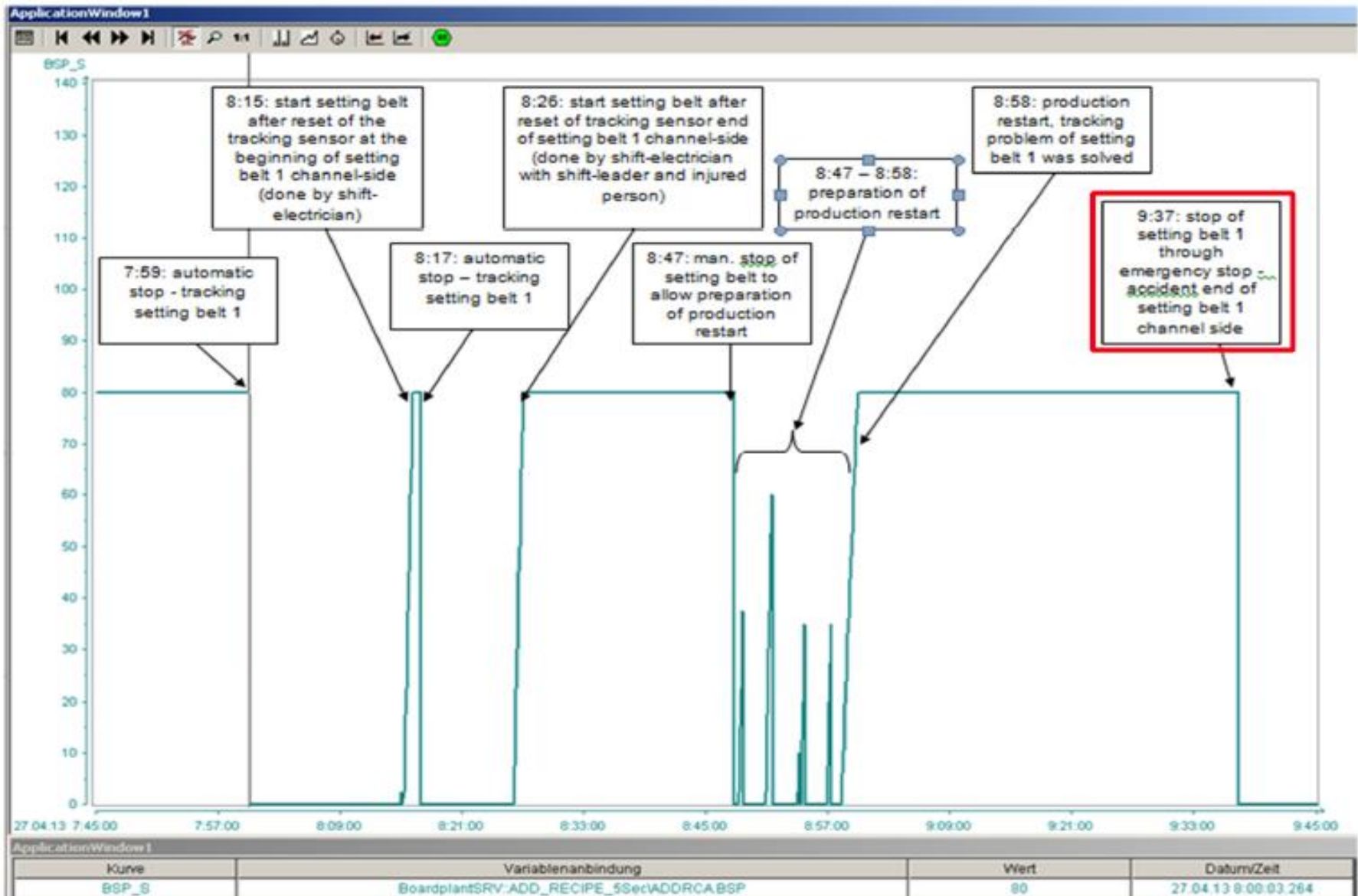
Tracking sensor
setting belt 1 channel
side

Place of accident,
return drum of tensioning section
setting belt 1 channel side

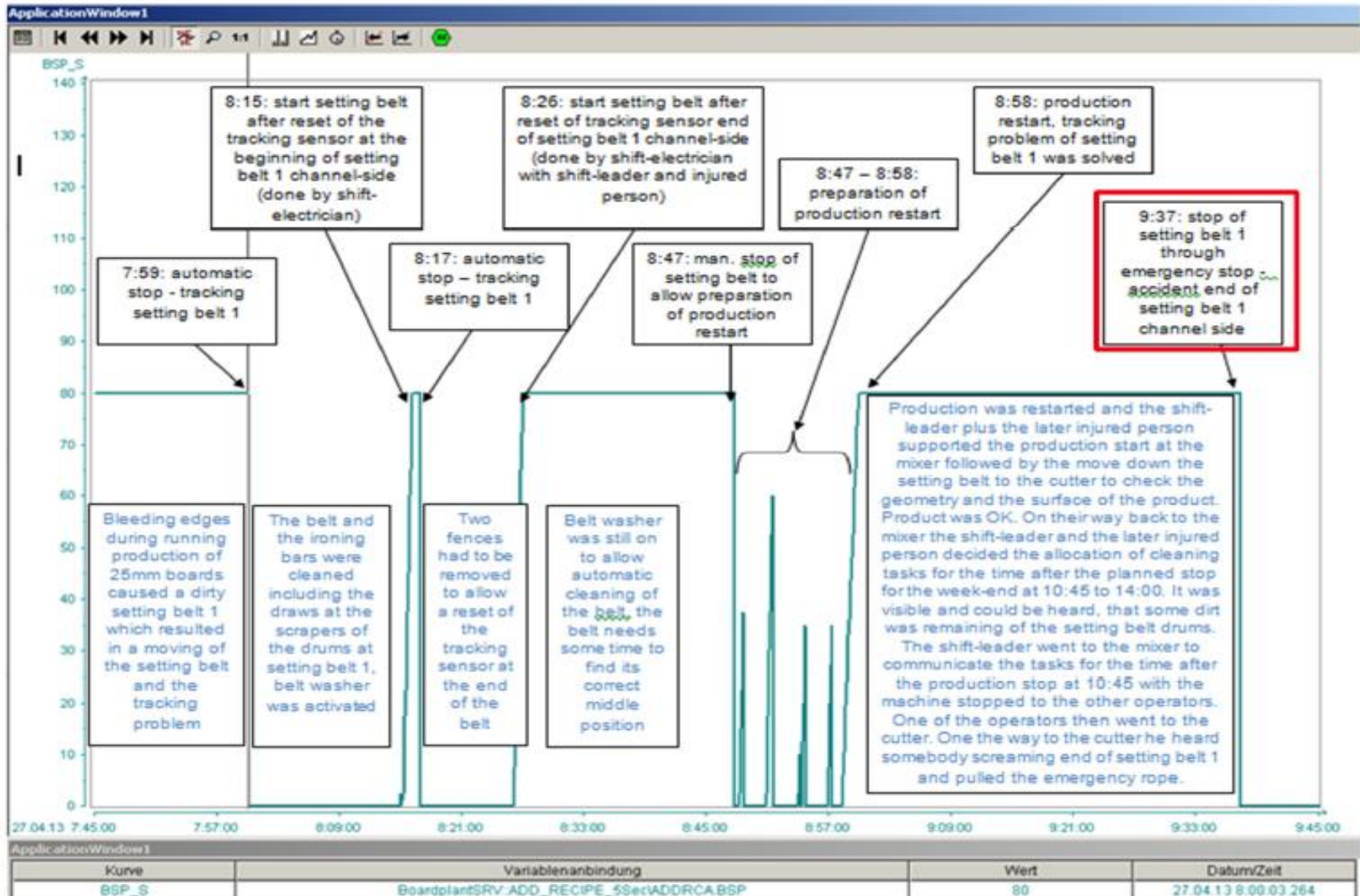


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Event Log



Event Log



Injured Person

- ▶ 57 y, since 1996 working in production, co-shiftleader, qualification OK
- ▶ Technical education (craftsman) and on additional safety issues, OK
- ▶ Continuous safety training and instruction on regular basis (last instruction related to conveyors at Feb. 2012), OK

Organization/Management

- ▶ Risk assessment for cleaning at rollers existing, OK
- ▶ Working procedure and RIS standard for roller station existing: R = Reinigung (cleaning), I = Inspektion (inspection), S = Schmierung (lubrication), OK
- ▶ LOTO procedure defined, OK
- ▶ Tagging system for irregularities existing, OK
- ▶ AM – Step 3, OK
- ▶ Check of emergency stops in place and checked on a regular basis (last check 2 weeks ago), OK

Machinery

- ▶ Guarding fence construction at belt guiding (tension station), OK
- ▶ Emergency stop with rope along forming belt, OK
- ▶ Manufactures certificate (EU machinery directive) for the boardline from Grenzebach, OK

Emergency Procedure

- ▶ Emergency plan in place and complete followed during incident, OK
- ▶ First aid intervention employees qualified on regular basis, OK

Root Cause Analysis

- ▶ Production was restarted after the tracking problems without two fences at the tracking sensor remounted, operators were instructed by shift-leader to start the cleaning only after the machine stop for week-end (1:45 h later)
- ▶ The fence at the return drum of the tensioning system, where the accident happened, was not dismantled to reset the tracking sensor. It is unclear whether the fence was dismantled during production stop to clean or whether the injured person dismantled the fence during running machine. It is not possible to imagine how the accident should have happened with the fence on
- ▶ Inspection with the intention to clean with a scraper was performed at **the operating setting belt drum** without the fence mounted (see above, there is no evidence or witness to confirm that the fence was mounted)
- ▶ **Existing procedures and rules were broken with conscience!**

Reconstruction of the accident

Tracking sensor
setting belt 1 channel
side

Place of accident,
return drum of tensioning section
setting belt 1 channel side



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Conveyor Incident



Status of the Board Plant

- Winner of Safety Trophy 2012
 - ▶ Highest Risk Reduction of WCM sites
- Good
 - ▶ Safety
 - ▶ Customer Service
 - ▶ Yield
 - ▶ Availability
 - ▶ Quality
- One of the 'best' in SG Gypsum Activity!

Why Do We Take Risks?



We all take risks

- We drive cars
- We cross the road
- We play sports
- We participate in 'risky' activities



Why

- because
 - ▶ We have to or
 - ▶ We want to
 - ▶ We don't recognise the risk

Simple Risk Taking Theory

- ▶ People can take a Risk if it seems attractive!
- ▶ Risks can be attractive if the **perceived** benefit is greater than the **perceived** risk
- ▶ The **perception** of risk and benefit differs from person to person
- ▶ If we are to prevent this type of incident happening again we have to change the employees **perception** of risk and benefit

Conveyor Accident

- ▶ We may never know what thoughts our employee had in his mind!
- ▶ Here is a proposed example of what thoughts he could have had!

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Risk Perception Example

▶ Perceived Risk -3

▶ I am experienced

▶ I have run with guards off before

▶ Nothing has happened before

▶ Managers Not Here

▶ The team will not challenge me.

▶ Discipline risk unknown

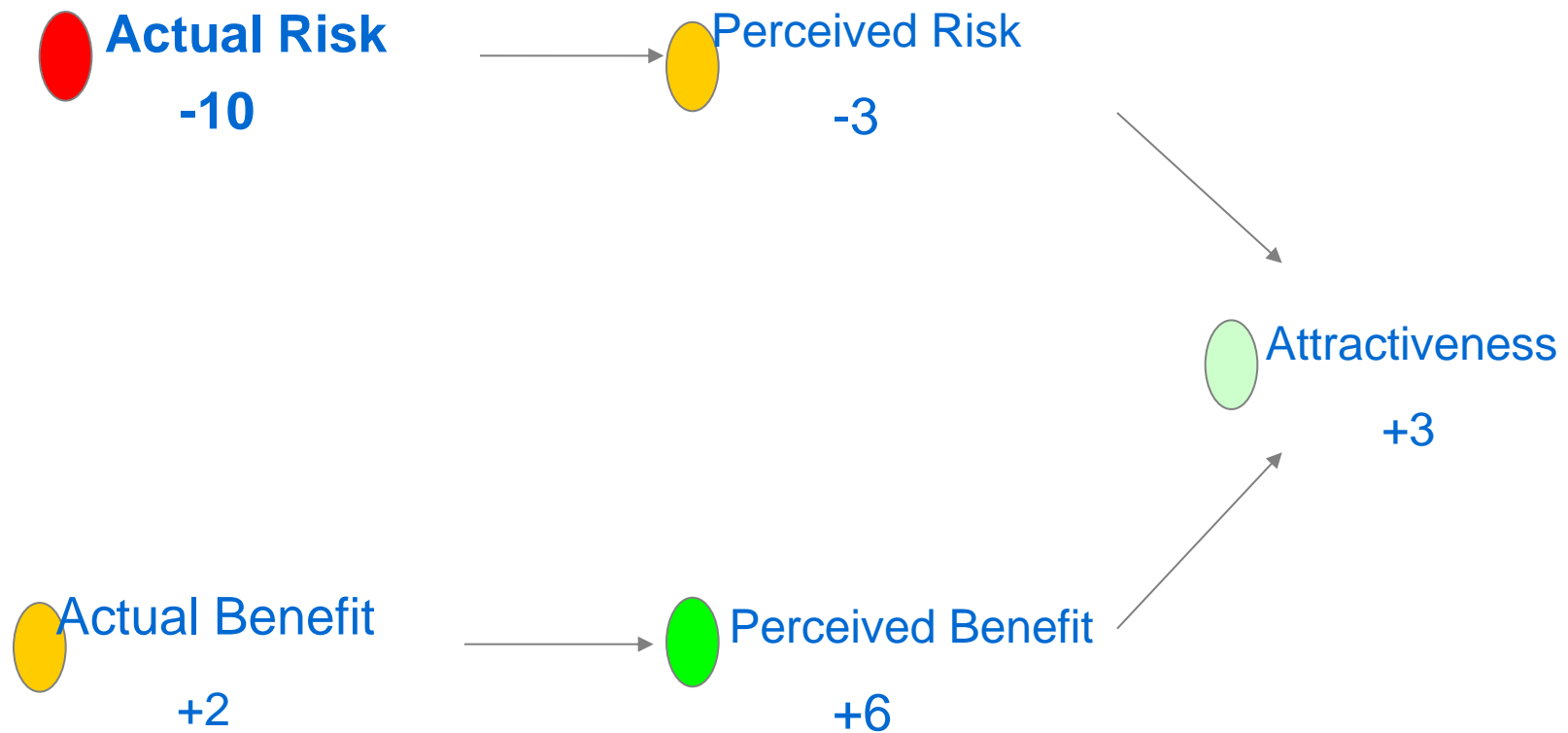
▶ Perceived Benefit +6

▶ We need to see what is happening

▶ We have to check everything is OK

▶ We will be taking guards off in 2 hours for cleaning.

▶ A Scraper on a rotating roller is the easiest way to clean it.



RISK PERCEPTION FLOW CHART

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Risk Perception Example

What Could you Change?

- ▶ Perceived Risk -3
- ▶ I am experienced
- ▶ We have run with guards off before
- ▶ Nothing has happened before
- ▶ Managers Not Here
- ▶ The team will not challenge me.
- ▶ Discipline risk unknown

- ▶ Perceived Benefit +6
- ▶ We need to see what is happening
- ▶ We have to check everything is OK
- ▶ We will be taking guards off in 2 hours for cleaning.
- ▶ **Scraper on rotating roller is the easiest way to clean.**

Risk Perception Example

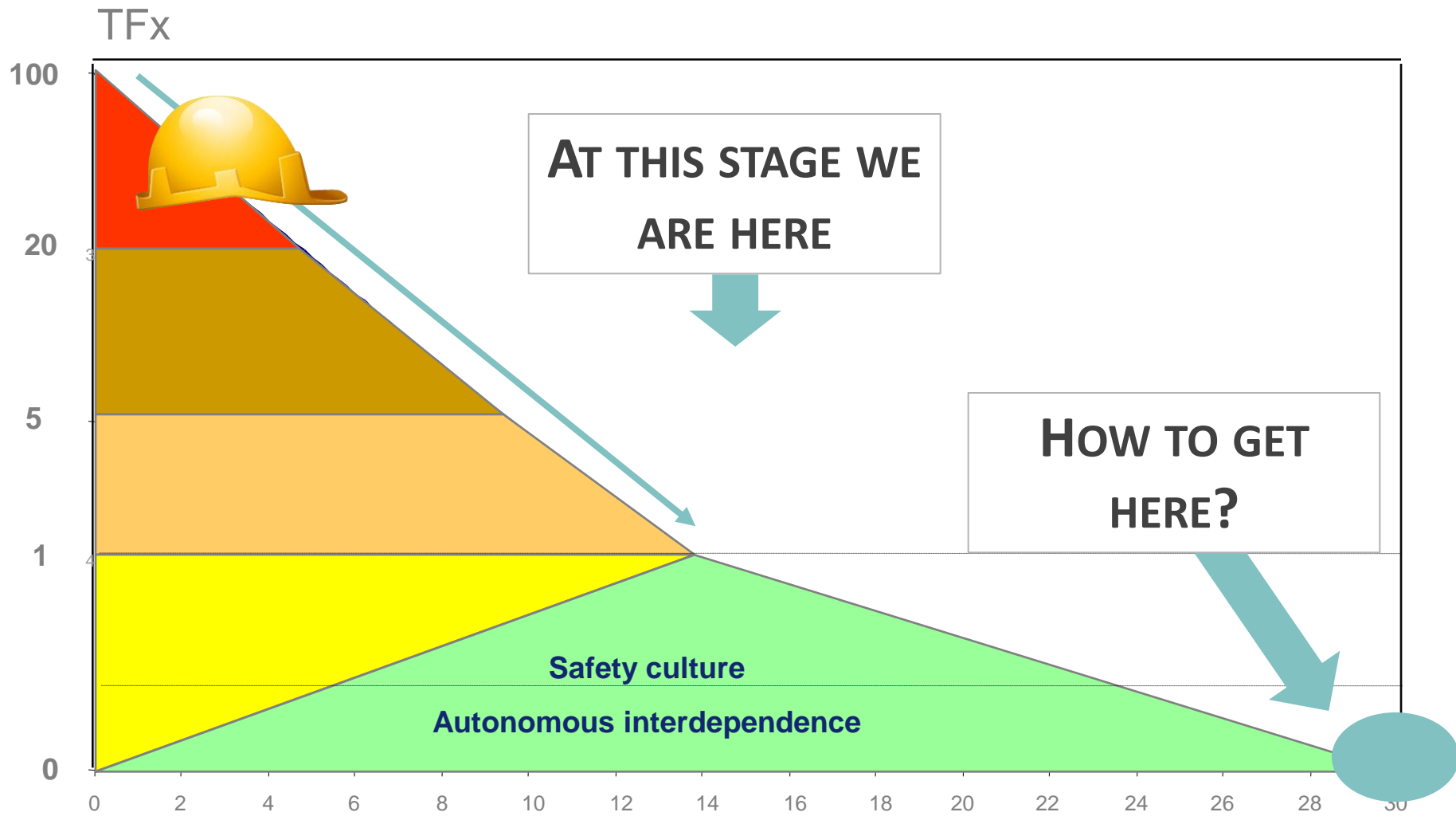
What can you change!

- ▶ Perceived Risk -3
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- ▶ Perceived Benefit +6
- ▶ We need to see what is happening
- ▶ We have to check everything is OK
- ▶ We will be taking guards off in 2 hours for cleaning.
- ▶ Scraper on rotating roller is the easiest way to clean.

Take Aways

- ▶ We have a good Safety Culture
- ▶ We don't have a World Class Safety Culture
- ▶ People in our business are taking **'Attractive Risks'**
- ▶ We don't know **where, when, who** and **how often?**
- ▶ **The Challenge?**
 - **Sustain the Gains**

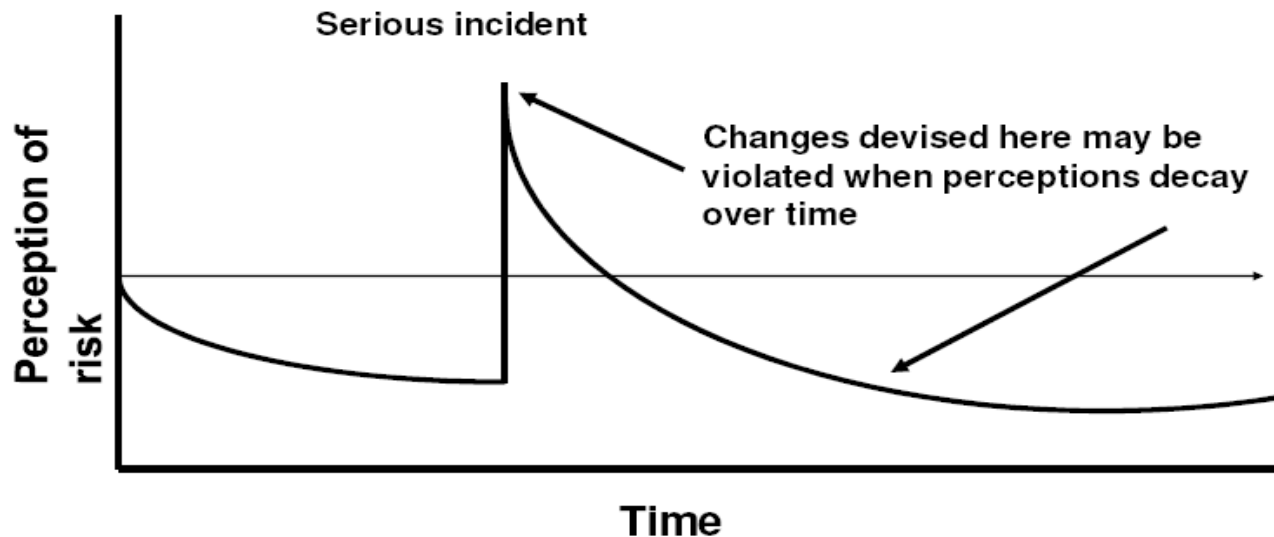
EVOLUTION OF THE EHS MANAGEMENT SYSTEM



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Sustaining The Gains: Toughest Phase of the Journey?

- How effectively does the organization change over the long term?
- Does the organization require 'shocks' to facilitate change?



- These questions apply similarly to safety and to the wider strategic health of the firm

Take Aways

- ▶ **Increase the Perception of Risks**
- ▶ **Decrease the Perception of Benefits**
- ▶ **How will you do this in your business?**

THANK YOU!

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HR Generalist Russia and CIS, Hewlett-Packard

***Wellness in HP: engaging,
energizing, retaining***

Alexander Shtoulman

General Director, Corporate Health

Mental health and risks for business

Q&A