Work-related road safety in the EU

Preventing occupation risks to drivers in road transport Findings from EU-OSHA's activities

ETSC PRAISE national event Athens 17.03.2011

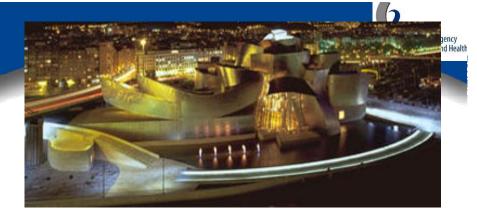


Sarah Copsey & Elke Schneider EU-OSHA, Bilbao





Brief description - role of EU-OSHA



- > European body based in Bilbao
- Key role to support the collection, sharing and exchange of information on occupational safety and health
- Governing Board of governments, employers and workers organisations
- Working with a network of 'focal points' in EU member states, candidate countries and EFTA. And with key organisations worldwide



Managing work-related road safety INTEGRATED MANAGEMENT



- All employers have legal duties to manage risks including occupational road risks
 - o Implement preventive measures based on risk assessment
 - o Cooperate and coordinate with other employers throughout the supply chain and between employers and subcontractors
 - o Train e.g. defensive driving inform e.g. about risks where deliveries being made
 - o Consult workers (who have the practical knowledge)
- Work-related road safety (WRS) only effectively controlled IF:
 - o integrated into general arrangements for managing health and safety at work
 - o AND health and safety at work management integrated into general business management and planning
- Business benefits:
 - o fewer days lost due to injury
 - o fewer vehicles off the road for repair
 - o fewer missed orders

Road transport accidents - Greece



Table 1: Number of drivers injured/dead in road accidents, by type of vehicle, 2002-2005

	2002		2003		2004		2005	
	Dead	Injured	Dead	Injured	Dead	Injured	Dead	Injured
Truck	74	732	93	621	74	583	66	608
Bus	3	42	1	35	0	32	5	29

Source NSSG

- road safety traffic accidents involving transport vehicles, including buses, trucks -2002-2005
- number of injured truck drivers fell by 16.9%, while that of bus drivers fell by 30.9%. 608 in 2005
- death toll of truck drivers fluctuated between 66 and 93 per year.
- fatalities among bus drivers ranged between 1 and 5 per year



Prevent risks to road transport workers







- ➤ Not just driving risks,...
- ➤ Broad range of occupational risks to transport drivers -not just road safety issues and driving hazards- including:
 - o Loading, unloading vehicles
 - o Falls climbing in and out of cabs
 - o Rest and toilet facilities
 - o Vehicle design and maintenance
 - o Musculoskeletal and vibration related disorders
 - o Hot and cold cabs
 - o Stress
 - o Violence from members of the public
- >Drivers NOT a homogenous group: older drivers, young drivers, women drivers, migrants and cross-border driving

Summary of findings from EU-OSHA Risk Observatory



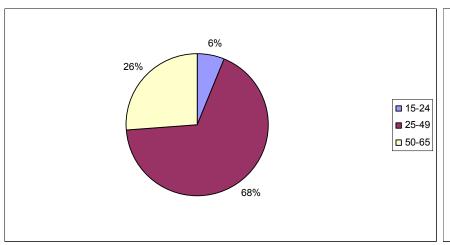
Trends for the transport sector!

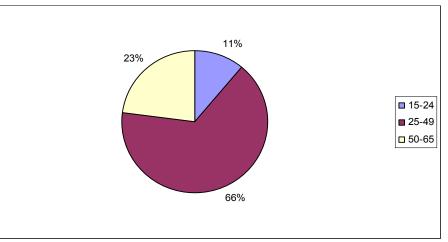
- More and more women
- Transport workforce is ageing
- High proportion of migrant workers
- Multiple exposures to physical, psychosocial and organisational risks
- Exposure to dangerous substances and biological agents underestimated and under assessed!
- Varying working hours (working in the evening, shifts, at night, on weekends)
- Violence is an increasing risk and underreported!
- Health problems: insomnia, digestive, long-term fatigue, musculoskeletal, asbestos-related, hearing loss, infectious diseases.
- Speed of change and growth a particular challenge for OSH

Transport workforce ageing at a greater rate



Source: Eurostat, 2006



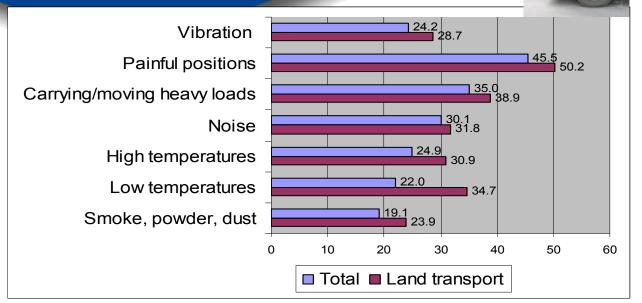


- ► Increasing number of workers aged 50-64
- ▶ Development of skills/ employability of workers, while maintaining health, motivation and capacities?
- ► Introduction of computer applications and remote monitoring and planning tools changes content and workload. Increased need for training.
- ► Ageing workforce: ergonomic aspects will gain importance

Transport workers have multiple exposures to physical risks – Greece higher than EU average

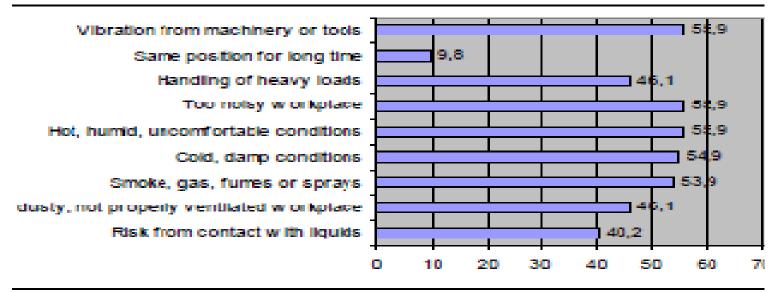






At least 25% of the working time, EU27, 2005

Source: European Foundation for the Improvement of Living and Conditions, Dublin, 2005.



TRIA project ELINYAE 2004

Exposure to risks Dangerous substances



- Solvents, VOCs,
- •Exhaust fumes, Diesel exhaust and particles
- Road and ambient dust
- Disinfectants
- •Textile fibres (e.g. cotton)
- Asbestos
- Fumigation and storage chemicals

Biological and infectious agents

- Dangerous goods
- Cargo loads and foodstuff on longdistance transport
- Cleaning products
- Insulation materials
- Brakes (buses, trucks)
- Waste
- Fuels

- •Cleaners, service and maintenance workers
- Catering staff
- Cargo workers
- Drivers, delivery and attendants
- •Workers who handle container goods

- Animals
- Foodstuff, perishable goods, raw materials
- Insects, other vectors
- Contact with passengers
- Confinement, longdistance travelling

- •Contact with foodstuff, infected travellers and goods
- When travelling abroad
- Contact with animals

Occupational accidents



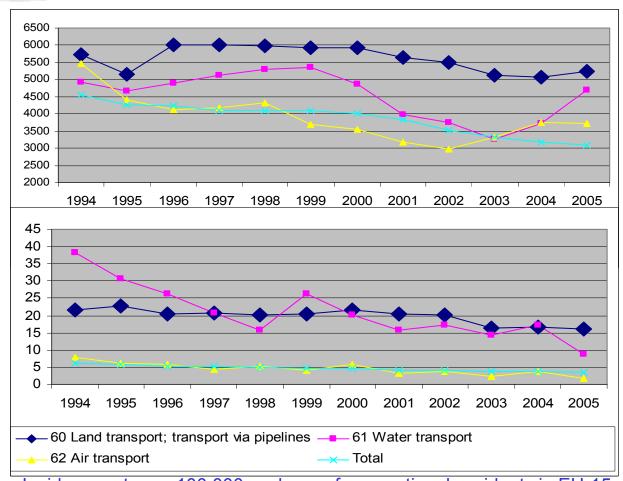
Non-fatal

Fatal

http://osha.europa.eu

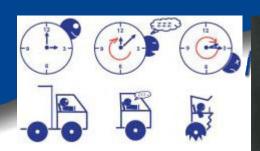
More accidents at night

Multiple exposures may also affect the alertness of transport workers



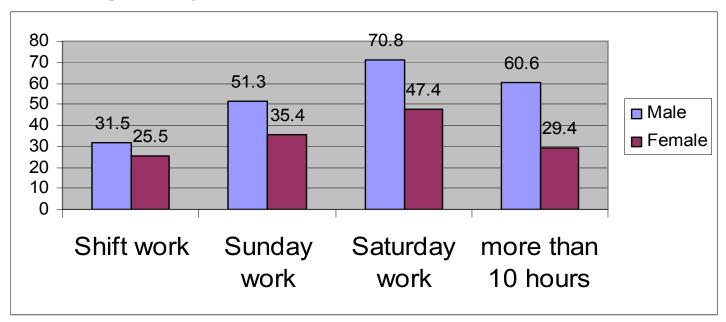
Incidence rate per 100,000 workers of occupational accidents in EU-15 Source: ESAW (European Statistics on Accidents at Work), Eurostat.

Exposure to risks Working time





- Varying working hours: evenings, nights, weekends.
- Correlation with negative health effects:
 - ► Fatigue, insomnia and negative cognitive aspects, especially among older workers becaus of prolonged exposure
 - Reproductive health problems female workers
 - Digestive problems

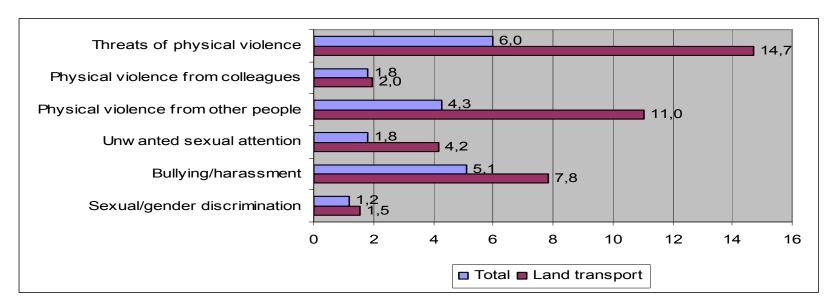


Source: European Foundation for the Improvement of Living and Conditions, Dublin, EU27, 2005.

Exposure to risks Psychosocial factors

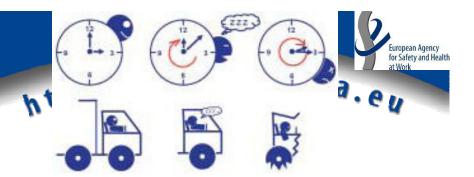


- Increasing attention to violence as an occupational risk
- Potential hazards:
 - Acting as "messengers" for changes in service, working alone
 - Public frustration about waiting times or services
 - ► Dealing with specific groups hooligans, fare evaders, people who have consumed excessive amounts of alcohol or drugs,..-
- Underreported risk lack of reporting procedures

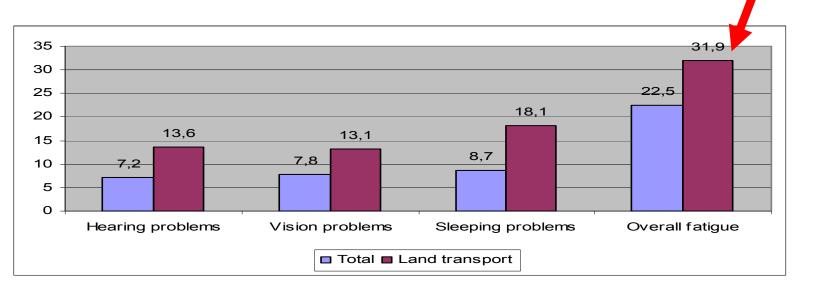


Source: European Foundation for the Improvement of Living and Conditions, Dublin, EU27, 2005.

Fatigue - most reported health problem in land transport



- Increasing work load and work pressure
 - "Just-in-time management", traffic, remote monitoring & planning
- Monotonous jobs > average working population
- Learning opportunities < average working population</p>
- Change of job content
 - Knowlegde on EU road codes, languages,
 - Increasing use of technology, remote monitoring
 - ▶ Need for proper training and education.
- More accidents at night
- Multiple exposures may affect alertness



Source: ESWC, Eurofound

Gender issues





- > Transport is made up primarily of male workers (84%)
 - ▶ Variations between MS: 94% in Greece 73% in Malta
- Differences among sub sectors:
 - ► Female workforce: land 14%, water 18% & air 41%
- Proportion/ number of female workers is increasing,... but health and safety action is male-centred
- → Solving problems to <u>make sector more attractive for</u> <u>female workers</u>:
 - Difficulty of combining work and family.
 - Highly physical work load.
 - ► Lack of female friendly facilities.

A few findings from EU-OSHA case studies



- Drivers self-employed, very experienced +independent:
 - o Ensure approaches are practical but not patronising.
 - o Use places they frequent stop areas etc.
 - o Ensure advice and solutions based on drivers' experiences
 - Involve drivers in risk assessment, developing solutions
 - Use drivers as advocates
 - Allow sufficient time
- Customer and stakeholder involvement too
 - o Where deliveries are made
 - o Passengers, school children
 - o Road safety groups, transport ministries etc.
- Large organisations to set OSH standards for delivery contractors etc.
 - o can stimulate these SMEs to adopt same standards with other clients.
- New technology in cabs can be used for OSH purposes
- OSH solutions may lead to more time to carry out tasks:
 - o to be recognised in work organisation & working time.
- Training must be part of organisational system to prevent risks with clear management commitment

Good practice - DocStop, Germany





Initiative zur medizinischen Unterwegsversorgung von Berufskraftfahrern/-Innen

DocStop-Hotline: 01805-112024 (0,14 Euro pro Minute)



- ➤ Background: lack of access to medical support for long-distance drivers of heavy goods vehicles.
- ➤ Aim: Enable drivers in need of medical attendance to consult a doctor while on the road by building up medical info & supply network for them.

>Project:

oEstablished as pilot in 2007

oNetwork of contact points at truck stops located within 4km of medical facilities

oPromotion through TV, radio, flyers, trade organisations, personal dialogue with drivers

olnitially run in Germany, now being implemented at European level

oSupported by many organisations in DE and CH

>Results:

oAbout 200 contact points in 2008, in rest areas along highways

oWell accepted by drivers

oSupport from the sector has enabled provision of medical care for haulage drivers in Germany

>Further information: http://www.docstoponline.eu

Good practice: Preventing violence to bus drivers The school run





- Violence on the increase
- •72% Greek transport workers report having been subjected to violence at work at least once (ELINYAE)

<u>Problem</u>: violence/stress to staff, physical damage to buses, increased accident risk

Measures include:

- Partnership schools, crime prevention schemes, police, traffic authorities
- Involving children
 - o Prevention officer appointed with outreach responsibilities, e.g. to work with schools.
 - o Theatre with children to identify issues and solutions
 - o Children agree rules and 'police buses'
 - Joint training with drivers and children common understanding
- Taking a holistic approach inside and outside school gate
- Intervention officers-Assistants working with ticket inspectors
- Protective coatings to side windows, drivers cabs separated from passengers, CCTV, tracking systems, radio links for rapid intervention
- Post-incident legal support and counselling available to staff

Safe Driving Project, Greece



- > Heracles General Cement Co. implemented a series of coordinated actions, including:
 - Risk assessment, policy development, equipment controls, safety management of site entry, exit and traffic circulation and defensive driving
 - Ongoing training covering new and experienced workers
 - o Employees and contractors involved

Developing a holistic risk assessment approach - Hellenic Institute for Occupational Health and Safety (ELINYAE), Greece



- Investigated the health and safety hazards in the urban transport sector in order to:
 - develop a holistic approach to risk assessment of drivers' duties
 - o covering all aspects of the working environment and a wide variety of health factors
- Investigated the system for assessing drivers' fitness to do their job in order to set minimum health requirements,
 - taking into account actual working conditions
 - o and the skills that drivers need to fulfil their duties
- Accessed ongoing training for drivers
 - o important element of keeping them safe on the road
- Involved drivers in the investigation
 - o their subjective views were an important part of the evaluation



- Managers developed a scheme in collaboration with drivers to gather information about working conditions in over 500 different loading areas
- Information integrated into company's IT system - information available to drivers when they print out their daily route
- > Issues covered included agreements with clients
- For drivers it was important that the measures took account of literacy levels and limited time for making deliveries

Shell Transport in Denmark



- > Subcontractors required to conform to the company's quality and safety standards.
- > These focus particularly on:
 - o reporting of accidents and injuries, training and instruction of drivers
 - o how subcontractors incorporate safety within their own organisational practice.
- > Adherence to the programme closely monitored
- Many subcontractors adopt the same standards when they work with other clients

Transport for London, UK Actions to increase women drivers



- Transport workforce male-dominated Greece 94% women's employment increasing – OSH actions maleorientated
- TfofL women bus drivers offers suitable working conditions to improve recruitment and retention
- 'Women mentors' in the depots to support female drivers; help with childcare costs; and women's facilities.
- Measures and campaign to prevent violence on buses
- Training for staff and all managers that emphasises zero tolerance of discriminatory behaviour
- Work continues on issues such as flexible work patterns

In another example, following a study, Spanish trade union CCOO produced recommendations for uniforms for female drivers – incl. for pregnant women

Prevost transport company, France



- Initiated an 80 km/h speed limit for its drivers using various measures
- Resulting in reduced fuel consumption and CO2 emissions, and improved health and safety of drivers.
- Workers shared in the cost savings
- Stickers on vehicles are used to promote the initiative





Assessing and tackling external violence at work in public transport – EuskoTren



<u>Situation:</u> workers exposed to external violence (verbal abuse, insults, threats or intimidation).

Aims: - assess the psychosocial risks faced by its staff and

- put in place an external violence prevention policy.

Measures include:

- individual **interviews** with managers, questionnaire to staff, analysis of absenteeism due to illness and of corrective and preventive actions
- > staff involvement in improvement teams and prevention activities.
- identify **specific solutions** by company service: bus, train, tramway, funicular transport and customer service.
- > installation of video surveillance in the bus service,
- coordination with the police in sensitive areas,
- > training staff in how to react to these situations, etc.
- > an incident log and a guide to prevention of external violence at work.

Results:

- Better knowledge of risks for each job category & data on incidents;
- Reduction in the number of incidents recorded & improved working environment;
- > Improvement in communication, staff information & training.



Tackling occupational fatigue in road transport – a coordinated prevention initiative, Spain



- Trade union federation CCOO made a government-funded study into the influence of driver fatigue on road traffic accidents
- Looked at causes and solutions
- Methodology included group discussions with drivers and a literature review of accidents
- > As a result a campaign was initiated to raise public awareness of the problem:
 - o Coordinated actions from the social partners Formation of a joint employer-trade union 'foundation on occupational driving'
 - o Various sector-specific publications were produced, including guidance for the road haulage sector
 - Forms for documenting fatigue and a test for determining chronic fatigue levels

http://www.fct.ccoo.es/webfct/menu.do?Actualidad:Salud laboral:Publicaciones

Stress and ergonomic assessments of bus drivers - Transportes Urbanos y Servicios Generales (TUSGSAL), Barcelona



- Ergonomic evaluation of driver position in urban buses, and an analysis of the anthropometric adaptation of the spatial design of the bus cabins.
 - With Universitat Politècnica de Catalunya.
 - Methodology included analysing the movements of drivers at work in their cabs and 3D simulation of different cabs and different-sized drivers.
 - Results show high postural risk for the neck, and offer suggestions for simple adaptation of bus cabins to improve driving posture.
 - Recommendations include cab design ergonomics and organisational issues such as rest breaks.

o Intervention concerning psychosocial factors affecting bus drivers and their safety behaviour

- o With University of Valencia
- o Use of the MARC methodology based on a psychosocial model of work-related accidents. It integrates psychosocial risk analysis and intervention with safety behaviour assessment and intervention.
- o Results include a map of the company suggesting where improvements can be made.
- Measures introduced covered: training; communication and participation; organisational measures and risk prevention



http://osha.europa.eu/en/campaigns/hw2010/



Poor vehicle maintenance:

- o contributes to road traffic accidents
- o vehicles off the road for repair and increased maintenance costs
- o more polluting and less fuel-efficient vehicles
- o poor public image of vehicles on the road
- Vehicle maintenance and other work-related road safety issues should be integrated into arrangements for managing health and safety at work, which in turn should be part of everyday business management
- Maintenance not just vehicle road-worthiness
 - o cab safety features, temperature control system, seatbelts, head restraints, seat adjustment mechanisms etc
 - o safety of the load bed, steps etc.
 - loading and unloading equipment, load restraint equipment, fall arrest equipment
 - o lighting in depots, yard surfaces even and free from potholes;
 - o anti-slip surfaces or footwear, other personal protective equipment
 - liaison with sites where goods are collected and delivered drivers can assist using a checklist to complete for new sites







http://osha.europa.eu/en/campaigns/hw2010/

Clear procedures and arrangements which everyone is informed about and form part of daily work:

- Identifying a person(s) responsible
- Planning for the servicing of vehicles
 - o The frequency of controls should depend on the conditions under which vehicles are used
- Monitoring the status of vehicles on a daily basis
- Vehicle users reporting any problems during use
 - o according to established procedures (e.g. report form, intervention request form)
- Further involving staff by getting them to do daily and weekly vehicle checks
 - o basic checks before any journey include: are windows and mirrors clean? Are tyres, brakes, steering and lights in good condition?
- Instructing and training staff on maintenance arrangements and specific procedures for their vehicles
- Insisting that vehicles owned by drivers themselves are also properly maintained and regularly serviced





http://osha.europa.eu/en/campaigns/hw2010/

Coca Cola UK,

- Vehicle inspection and maintenance integral part of fleet safety policy.
- Measures include:
 - o car fleet keeping an inventory testing and maintenance history
 - o training and instruction for drivers
 - o checklists for drivers to use
 - o vehicle inspections and maintenance conducted by qualified persons, to ensure that manufacturers' recommended service intervals are adhered to and warranties are not invalidated
 - o maintenance log kept in each CCE vehicle containing all information relating to that vehicle
 - servicing garage must update this upon completion of each service/inspection

Minimising accidents and incidents during pizza delivery by motorcycle PHC Franchised Restaurants, Cyprus





Revised safety policy for motorcycle riders and van drivers covering:

- Road safety and breakdown/accident procedures
- Avoiding violence/ robbery
- Helmet safety selection/approval, use
- Maintenance
 - o Checking vehicles and maintenance (vehicle and carrying box)
 - o Reporting problems
 - o Training and monitoring (spot-checks)
 - o Instructing van drivers about carrying spares and equipment in good condition in case of breakdown
 - O Achieve good cooperation between restaurant managers and riders/drivers on safety, where riders inform them of any health and safety problems they or other co-workers may face, including the maintenance of their vehicles or their safety gear
- Engaged the support of the local police department, especially for preparing the road assessment/evaluation procedure and its content

http://osha.europa.eu/en/publications/reports/GPB06

Some thoughts...



- Working in road transport requires high levels of professional skill and competence
 - Being able to drive
 - Being able to load and unload
 - Being able to repair technical problems
 - Having certain language skills
 - Carrying out basic administration
 - Acting as "ambassadors" for company
- Major responsibility once on the road
- If society wants motivated and highly skilled road transport workers, more attention should be given to the working conditions of the sector

EU-OSHA resources road transport drivers



>Already available

oFacts18 Preventing Road Accidents Involving Heavy Good Vehicles (All EU official languages)

oE-facts 47 Health promotion in the transport sector

▶New reports in 2011- promotion MAY 2011

- oCase study report Managing occupational risks to road haulage/bus drivers
- oDelivering the message Review of OSH programmes/campaigns in road transport
- oReview of good practice information available for taxi drivers and motorbike & bicycle couriers.
- oReview of some specific accidents in the sector: good practice lessons
- oOSH in Figures Transport sector report (Risk Observatory) country reports and thematic report (March 2011)
- oWeb feature and database of links to good practice
- o http://osha.europa.eu/en/topics/road_transport
- o http://osha.europa.eu/en/topics/rail_air_water_transport/





http://osha.europa.eu



New publications temporarily accessible here:
http://osha.europa.eu/en/about/Road-transport/



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