

DRIVERS TRAINING FOR MORE ROAD SAFETY

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Road Safety – Accident Prevention

Starts with the legal requirements for
the acquisition of driving licences



Extended Graduated Driving Licencing

- Legal requirements in Austrian
 - Introduction of EGDL in 2003
 - Demanding young drivers to undergo defined drivers trainings
- European countries having introduced EGDL:
 - Finland, Luxemburg, and Switzerland



Graduated Driving Licencing



The Learner's Stage

This stage involves a fixed minimum of Supervised practice.

The Intermediate Stage

This stage involves different driving Restrictions

Full License

After completing the first two stages



Austrian EGDL Model



The Learner's Stage

This stage involves a fixed minimum of Supervised practice.

The Intermediate Stage

This stage involves different driving Restrictions

The Training
Defined drivers trainings for novice drivers

Full License

After completing the first three stages



Track Training - Content

- Focus on driving dynamics theory
- Five hours of demonstration and first hand experience
- Basic physics of driving
- Emergency braking techniques
- Drivers reactions to over- and understeering
- In-car safety elements



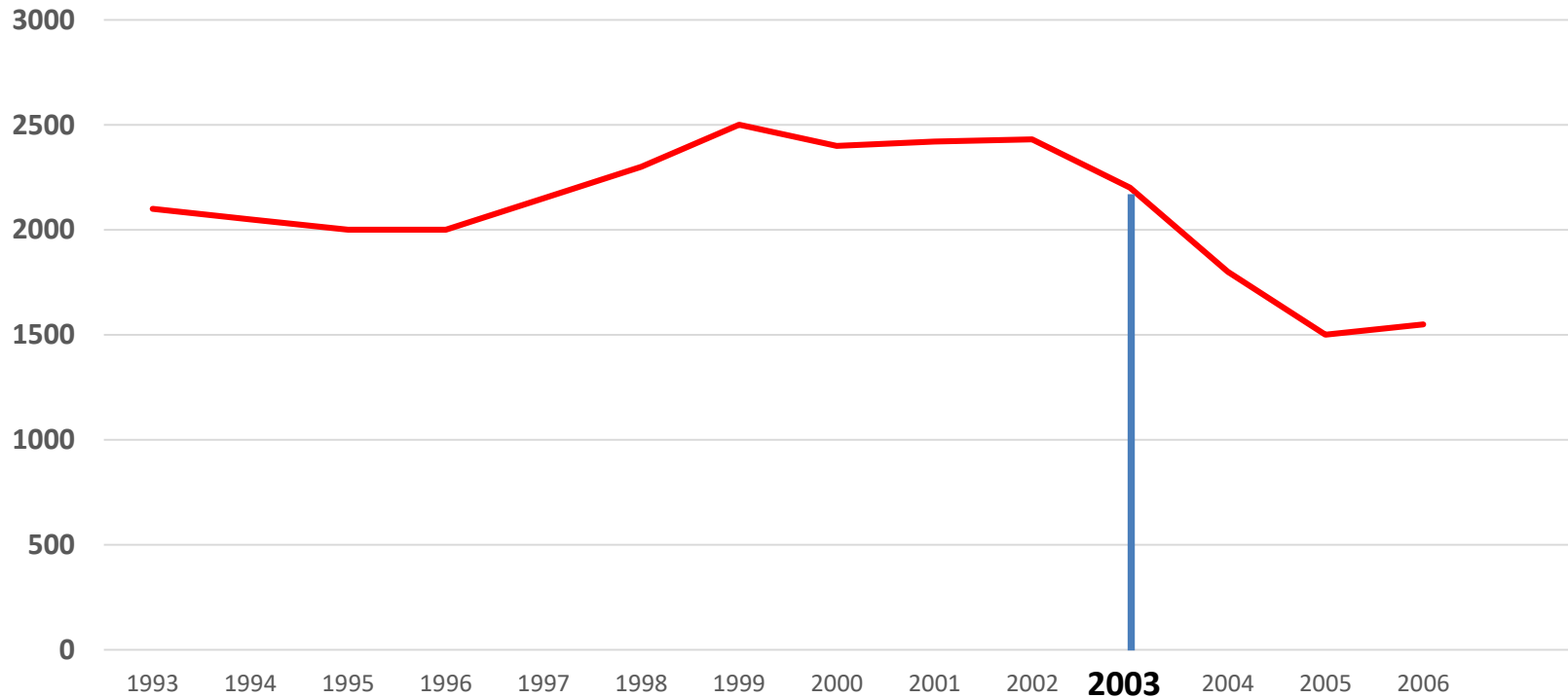
Track Training – Goals

- Training should teach participants knowledge and skills regarding driving safety
- Enhanced awareness of own and cars limitations as well as of defensive driving
- Training of anticipation of potential risks and dangers



EGDL Reduces Road Accidents

18 year old drivers involved in accidents with personal injury,
1993-2006



EGDL Reduces Road Accidents II

- The first evaluation after introducing EGDL 2005 showed a reduction of accidents in the age group of 18 and 19 four times that of all other age groups. (Bartl & Esberger, 2006).
<http://www.alles-fuehrerschein.at/dokumente/Mehrphasenwirksamkeitsanalyse%2012%202005.pdf>
- The second evaluation published by Gatscha & Brandstätter (2007, 2008 and 2008a) show 28,3% less accidents for novice drivers aged 18 after introduction of EGDL in comparison with the three years prior to the EGDL. In the second year of driving the reduction was even 29%.
- Long Term accident statistics: The reduction of accidents involving injuries in the age group 17 to 24 is double of all other age groups since introduction of EGDL. Source:
<http://www.oeamtc.at/portal/mehrphasen-fuehrerschein-als-erfolg+2500+1394433>



Compulsory Training for Professional Drivers

- Special trainings for
 - Tank truck drivers
 - Coach drivers
 - Fire brigade drivers
 - Personal security chauffeurs
 - Special forces

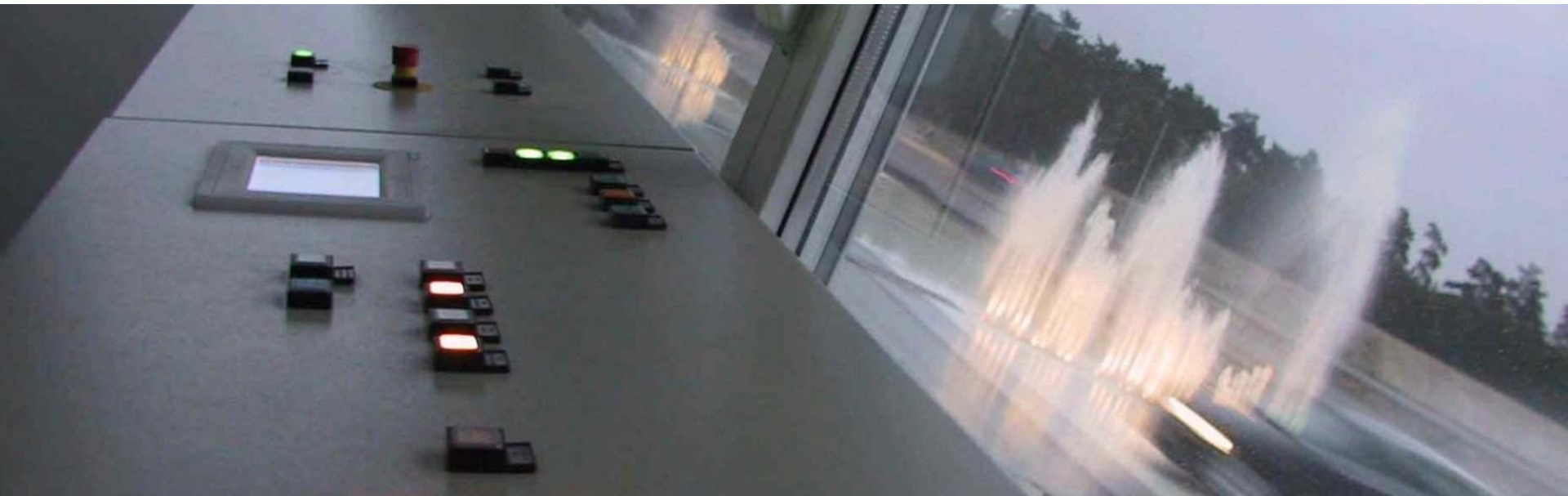




Tools for Effective Driver Trainings

- For the purpose educated trainers
- For the purpose desinged driving tracks
- Low friction road surfaces (resin coating)
- Obstacles (water obstacles)
- Externally introduced sudden direction changes (dynamic plates)







Technische Hydraulikgeräte GmbH

www.technischehydraulik.at

Equipped by Technische Hydraulik

More than 80 road safety education centres in Europe and the USA

- DEKRA Lausitzring - Germany
- Ferrari Maranello - Italy
- Ballocco - Italy
- ATP-Germany
- BOSCH Boxberg – Germany
- BMW Teststrecke Miramas Frankreich



Equipment

- Irrigation systems
- Low friction surface
- Steering pads
- Aqua planning simulation
- Water obstacles
- Dynamic plates



Irrigation Systems

- Using water in a closed cycle
- Seamless adjustment levels of water film on track surface
- One system serving all track modules
- Using underground tanks and submersible pumps



Low Friction Surfaces

- Irrigation Systems using water in a closed cycle
- Resin coated surface





Aqua Planning Simulation



Water Obstacles

- Using water from the closed loop
- Simulating sudden dangers
- Provoking immediate reaction
- No risk of damaging cars





EVOLUTION DESIGN

SW 462 BL

Dynamic Plates

- For regular cars
- For trucks
- For motor bikes









- Technische Hydraulik offers expertise and assistance in recruiting professional trainers.
- Technische Hydraulik designs tracks for road safety education and supplies hydraulic and electronic equipment.
- Technische Hydraulik supplies software to operate the technical installations.
- Driving Camp educates professional trainers.
- Driving Camp provides Soft Ware to organise and operate drivers education such as booking and invoicing.



Thank you for your attention



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