THE PEP PARTNERSHIP ON ECO-DRIVING

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ECODRIVING AND POSITIVE EFFECTS

EcoDriving is a fuel- and energy-efficient forward looking and safe driving style.

- Average decrease in fuel consumption and CO2 emissions by short term up to 30-40%, sustainable long term effect 15-20%
- Reduced noise (less engine noise, lower rpm)
- Reduced accidents risk: up to 40% less accidents
- Lower maintenance costs (e.g. brakes, tyres, gear box, clutch)
- Forward looking relaxed driving style reduces stress
INTERNATIONAL KLIMA AKTIV MOBIL
ECODRIVING CONFERENCE
24-26TH FEBRUARY 2014, VIENNA, CHAMBER OF COMMERCE

Participating THE PEP member States:
Albania, Austria, Belgium, Bosnia and Herzegovina, Czech Republic, France, Georgia, Lithuania, Montenegro, Kazakhstan, Russian Federation, Serbia, Slovakia, Macedonia, Ukraine, Uzbekistan

Program/Content
• klimaaktiv mobil 2020 – a model for success in Austria and an example for Europe
• Kick-off Workshop THE PEP Partnership on EcoDriving
• THE PEP Extended Bureau Meeting
• Practical EcoDriving trainings

Result of the Kick-off Workshop
• Launch of THE PEP Partnership on EcoDriving
THE PEP PARTNERSHIP ON ECODEVING:
PRACTICAL TRAINING
26 FEBRUARY 2014, AUSTRIAN AUTOMOBILE CLUB, TEESDORF

About 40 participants at the training

Testing of electric vehicles

EcoDriving trainer for passenger car drivers at work

EcoDriving training in a bus
THE PEP PARTNERSHIP ON ECODRIVING
ADOPTED AT THE PEP WORKSHOP, 25TH FEBRUARY 2014, VIENNA

Overall Objective
Promote EcoDriving, supported by guidelines and tools for member states

Scope and Purpose
• disseminate knowledge and best practices
• exchange experiences
• test EcoDriving at national and international conferences
• technical twinning programs between partners
• harmonized criteria for certification schemes and training materials
• assessment of EcoDriving effects
WORK PROGRAM AND PROPOSED ACTIVITIES

- formation of THE PEP EcoDriving task force
- identification of program goals and activities
- support national/regional EcoDriving programs, including twinning programs
- compilation and review of existing training materials
- develop training programs for passenger cars and heavy duty vehicles (buses, trucks)
- assessment and guidelines for developing EcoDriving programs
- integration of EcoDriving into national regulations for driver training and education
1ST ECODRIVING TRAINING & WORKSHOP
ALMATY, KAZAKHSTAN

• in cooperation with
  – UNDP Kazakhstan, Ms. Yelena Yerzakovich
  – Almaty Driving School association
  – Almaty Bus company
• delegation of 5 Austrian EcoDriving experts in Almaty in April 2014
• pilot EcoDriving training for 17 driving school teachers and 13 bus drivers of Almaty public bus fleet
1ST ECODRIVING TRAINING & WORKSHOP
ALMATY, KAZAKHSTAN

Concluding workshop chaired by the Vice-Mayor of Almaty with 30 stakeholders from different organizations including Municipality of Almaty, Ministry for Transport of Kazakhstan, UNDP Kazakhstan, Almaty Driving School Association and fleet owners.

<table>
<thead>
<tr>
<th>FUEL CONSUMPTION IN L/100KM</th>
<th>DAEWOO</th>
<th>PERCENTAGE FUEL REDUCTION</th>
<th>HONDA CRV</th>
<th>PERCENTAGE FUEL REDUCTION</th>
<th>SUBARU OUTBACK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Value*</td>
<td>11,4</td>
<td></td>
<td>13,92</td>
<td></td>
<td>n.a.</td>
</tr>
<tr>
<td>Driver 1</td>
<td>8,2</td>
<td>-28%</td>
<td>12,45</td>
<td>-11%</td>
<td>13,92</td>
</tr>
<tr>
<td>Driver 2</td>
<td>8,2</td>
<td>-28%</td>
<td>12,78</td>
<td>-8%</td>
<td>14,25</td>
</tr>
<tr>
<td>Driver 3</td>
<td>8</td>
<td>-30%</td>
<td>13,44</td>
<td>-3%</td>
<td></td>
</tr>
<tr>
<td>Driver 4</td>
<td>10,2</td>
<td>-11%</td>
<td>13,3</td>
<td>-4%</td>
<td></td>
</tr>
<tr>
<td>Driver 5</td>
<td>9,8</td>
<td>-14%</td>
<td>13,3</td>
<td>-4%</td>
<td></td>
</tr>
<tr>
<td>Average</td>
<td>8,9</td>
<td>-22%</td>
<td>13,05</td>
<td>-6%</td>
<td>14,09</td>
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</table>

Concluding Workshop in the Almaty City Hall

Results from the trainings with passenger car: average fuel reduction by 22%!
2ND ECODRIVING TRAINING & WORKSHOP
KALININGRAD, RUSSIA

• in cooperation with
  – Ministry of Transport of Russia, Ms. Rimma Filipova
  – UNDP Russia, Mr. Nikolai Karithoskin
  – DOSAAF and the local bus company Skiba
• delegation of 5 Austrian EcoDriving experts in Kaliningrad in September 2014
• pilot EcoDriving training for 10 driving school teachers and 2 bus drivers from Kaliningrad local bus fleet
Training took place in combination with an international seminar on urban mobility and environment chaired by the Vice-Mayor of Kaliningrad with 40 experts from the City of Kaliningrad, Russian Ministry for Transport, UNDP Russia, Driving School Association, fleet owners and cycling association.

<table>
<thead>
<tr>
<th>Driver</th>
<th>Fuel consumption before training * (l/100km)</th>
<th>Fuel reduction (%)</th>
<th>Fuel consumption after training (l/100km)</th>
<th>Fuel reduction (%)</th>
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</thead>
<tbody>
<tr>
<td>Driver 1</td>
<td>11,1</td>
<td>18</td>
<td>8,4</td>
<td>38</td>
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<tr>
<td>Driver 2</td>
<td>9,8</td>
<td>28</td>
<td>8,8</td>
<td>35</td>
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<tr>
<td>Driver 3</td>
<td>9,7</td>
<td>29</td>
<td>8,1</td>
<td>40</td>
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<tr>
<td>Driver 4</td>
<td>9,4</td>
<td>31</td>
<td>7,8</td>
<td>43</td>
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<tr>
<td>Average</td>
<td>10,0</td>
<td>17</td>
<td>8,3</td>
<td>39</td>
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</tbody>
</table>

Results from the EcoDriving trainings with mini-buses: average fuel reduction by 39%!
LESSONS LEARNED FROM THE ECODRIVING TRAININGS & WORKSHOPS

• the EcoDriving concept (technological information, coaching methods, driving skills and practices) works also in heavy traffic conditions of large metropolitan areas (e.g. Almaty, Kaliningrad)

• EcoDriving in congested traffic situations requires specific know-how and skills of trainers and drivers in order to seize its benefits

• the personal advantages of EcoDriving (e.g. relaxed driving, less stress) are acknowledged by the drivers and are understood by the participants
LESSONS LEARNED FROM THE ECO DRIVING TRAININGS & WORKSHOPS

• **fuel consumption monitoring devices are of crucial importance** for the success of EcoDriving as they deliver the necessary real-time feedback information to the driver.

• **Short-term fuel savings from EcoDriving of 30% to 40% and long term of 15-20%** are realistic for traffic conditions in large metropolitan areas.

• **Stakeholder workshops** are necessary for setting priorities and developing EcoDriving trainings.
FURTHER ACTIVITIES OF THE PEP PARTNERSHIP ON ECODRIVING

- follow up to the special interest expressed by Member States in conducting pilot trainings and workshops in their country
- pilot trainings and starting of national programs can be organized for interested Member States – possibly next trainings in Kazan RF
- compilation of lessons learned from the EcoDriving trainings
- summing up of the specific experience from pilot EcoDriving workshops in THE PEP guidelines
- THE PEP EcoDriving Partnership Review Workshop to take place in Vienna in spring 2015 (planned)
ACTION REQUIRED
THE PEP STEERING COMMITTEE

• Support of THE PEP Partnership on Ecodriving
• Feedback and Agreement on the progress report and timelines
• Feedback and Agreement on the priorities of work
• Motivation of Member States to participate and contribute
• Further facilitation and support by THE PEP Secretariat
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