



# TRAINER

**Energy Efficiency Days Tours, France** 

Friday 25<sup>th</sup> September 2009

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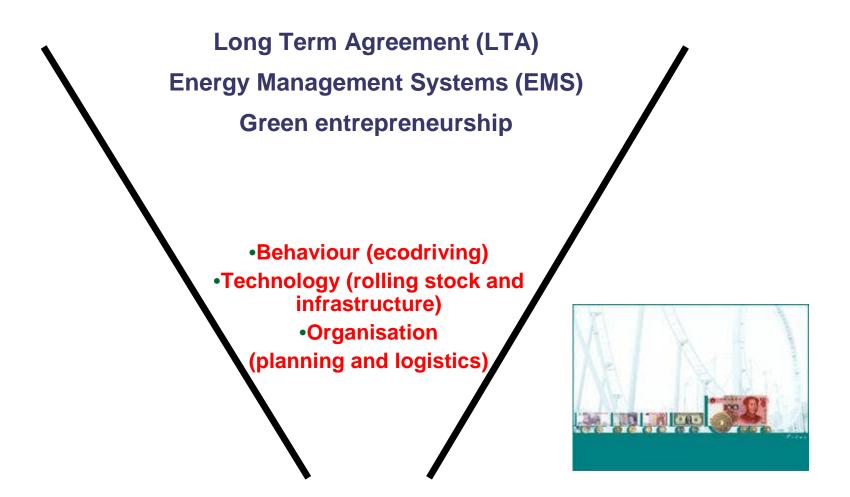
### Project (1)

- TRAINER
  - ☐ TRAining programmes to Increase Energy-efficiency by Railways
- EU project
  - ☐ Intelligent Energy Europe
- Running period
  - ☐ 2<sup>nd</sup> Nov 2006-1<sup>st</sup> Nov 2009
- Collaboration
  - □ FP6 Railenergy (<u>www.railenergy.org</u>)
  - ☐ UIC
- www.iee-trainer.eu





### Project (2)





#### **Partners**

- SenterNovem (coordinator)
- Centre for Renewable Energy Sources (CRES)
- Ente per le Nuove Tecnologie l'Energia e l'Ambiente (ENEA)
- Solvera Lynx
- VVCR Europe b.v. (VVCR)
- ✓ Nederlandse Spoorwegen (NS)(3,000)
- ✓ OSE Hellenic (600)
- ✓ Slovenske Zeleznice (1,200)
- **✓ Trenitalia** (14,850)
- ✓ Zeleznicná Spolocnost Cargo Slovakia (ZSSK CARGO)(1,800)

**Netherlands** 

Greece

Italy Slovenia Netherlands

Netherlands Greece Slovenia Italy

**Slovakia** 

Total 21,450 train drivers



#### Components (1)

- 1. Inventory of good practices
- 2. Demonstration tours on site
  - ☐ Oct 2007: NS + DB
  - □ March 2008: ÖBB, Slovenske Zeleznice + ZSSK Cargo
- 3. Development backbone
  - □ Basis for national training programmes
- 4. Development national training programmes
  - □ Netherlands, Slovenia, Slovakia, Greece + Italy



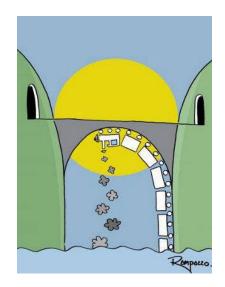




#### Components (2)

- 5. Implementation national training programmes
  - **□** 5-25% savings
  - **□** Subsequent presentations
    - Slovenske Zeleznice/ Mr Bojan Dremelj
    - ZSSK Cargo/ Mr Branislav Krigovsky
  - **☐** TRAINER workshop
- 6. Evaluation and exchange of national experiences, knowledge and know-how



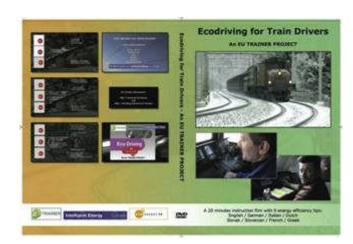




#### Components (3)

- 7. 'Universal' manual
  - ☐ Train drivers, station and cleaning staff, management
  - ☐ Energy efficient driving, train operation and maintenance
  - □ DVD (including instruction film)
  - **□** Internet
- 8. Instruction film
  - Management + train drivers
  - ☐ First performance at end of presentation
  - □ DVD
  - **□** Internet



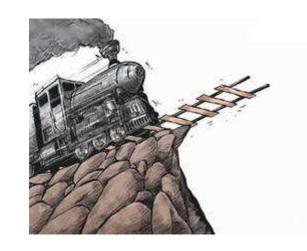




#### **Behaviour**

- Challenge
- Training programmes
  - □ Theory
  - ☐ Practice: on track, simulator
- Supporting tools
  - **□** GEKKO
  - **□** Routelint
  - ☐ Rail pocket (PDA)
  - UZI card
- Combination has added value







#### **Opposition**

- Punctuality and safety
- 'It's all known and done'
- 'Why should I care'
- Learner drivers vs. experienced drivers
- Train driver distraction
- 'Them'
  - ☐ Dispatchers, infrastructure managers
- The other 'them'
  - □ Trade unions
- Marginal energy saving potential
- Lack of support from managers
- Theory is not practice





#### **Points of interest**

- National, cultural and 'company cultural' specifics
- Freight and passenger
  - ☐ Partly differing approaches and topics
- Tone of voice
  - □ Addressing the professional
- Deploying 'comrades', train-the-trainer
- Try out
  - ☐ Check on acceptance and interests
- Environmental interest not to be underestimated
- Varying training approaches
  - ☐ Workshops, lectures, in cabin, on simulator, etc.
- Internal and external communication





### **Monitoring**

- Data from
  - ☐ Trained train drivers: 21,450
  - **□** Other data partners
  - **□** Devices trains
  - **□** Good practices
  - ☐ UIC data
  - ☐ Hits and downloads instruction film + universal manual
- Between 0.5 and 1.0 Mton CO<sub>2</sub> emission reduction in 2012





#### Workshop

- Hereafter
- How to implement ecodriving in your railway company?
  - ☐ Didactics and points of interest/ Paul Offerman, VVCR
  - ☐ The why and how at NS/ Jan Hoogakker, NS
  - ☐ The experiences of TRAINER railway companies/ Luigi Contestabile, Trenitalia





#### **Contact details**

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**Enjoy the TRAINER film!**