ECOLOGY ERGONOMY ECONOMY EVOLUTION are the manufacturers’ key drivers

Contribution of manufacturers to sustainability

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Trends and drivers

Manufacturers have changed the way they think

• Back to basics (Essentials, crisis effect)
• Ecology, sustainability
• Innovation is less technological and more multi polar
Directives

Machinery and emission Directives:

- We have a road map for reducing emissions levels (Noise Directive 2005/88/EC) and engine (Emission Directive 2004/26/EC)
- 2 speakers will explain these topics:
  Mrs Cosette Dussaugey, CISMA / CECE
  Mr Giorgio Billi, UNACOMA / CECE
Criteria

Ecoconception
Reach
Substances Directives
Fuel quality directive

Recycling
Renewable Directives
Health and safety
CE marks

Greenhouse effects
$CO_2$
Air quality
Climate legislation
Clean air for Europe (AFE)

PRTR
(pollutants release and transfer register)
Protection of water (Directive) and soils

Several markets

INPUT
ROAD MACHINERY
OUTPUT

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Worldwide view – 2015 (forecasts)
Working in the city

- Minimising the working time
- Decreasing the noise level and emissions
- Importance of the machine design
- Notion of discreet work

Mr Karel Goedkoop from RAVO, sweeper manufacturer in NL, has worked a lot on this matter
Recycling, using wastes to build new roads

- We have different targets according to different countries, and equipments are not standard
- Germany / Nederland: 100% of the available RAP is reused
- Southern countries (France, Spain, Italy, Portugal): we are late, but improving very quickly our situation with new targets for 2020
2 speakers will present recycling solutions

- Recycling solutions: typology, cold, hot and warm, in place, in plant
  Mr Jacques Bonvallet, FAYAT
- Batch recycling solution with high recycling ratio
  Mr Christian Jacobi, AMMANN
ECO DESIGN ECO DIRECTIVE 2005/32/EC & 2008/28/EC

• Not a fashion, but a Directive
  Product life cycle
• Mr John Ferraris, from Caterpillar, will give a few examples
What about new engines?

What about road equipment or truck engines?

- Emissions,
- Eco-fuel,
- Hybrid engines
- But also standards (worldwide)

Mr Pierre Guyot will highlight the point of view of a world leader manufacturer, John Deere
Constructors and contractors

- Recycling low energy mixes
  => new equipments are developed
Contractors

• As an example: Mr Alain Romier (FAIRCO) Hot mix plants standards have been modified and fitted with new peripherics

• Maintenance equipment: Mr Michaud (COLAS ) has worked with SECMAIR to develop a new fibersealer machine