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**Study into Six Sectors
Covered by Eight
'Old Approach' Directives**

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Summary of Presentation

- 1) Approach to Study
- 2) Options under Consideration
- 3) Sector by Sector
 - Overview
 - Requirements/standards
 - Market value
 - Comments on Options
- 4) Summary

Approach to Study

- Desk-based data review
- Consultations with a range of stakeholders including manufacturers, suppliers, users and authorities
- Determination of current status, markets and technological developments (seven Directives are >30 years old & one >20 years old)
- Consideration of options

Options for the Future

Option	Sub-Option
1. Do-Nothing – Maintain Current Framework	1A: Old Directive(s) only
	1B: Old Directive(s) + National/International
	1C: Old Directive(s) + National (not International)
	1D: No restrictions
2. Repeal Old Approach Directive(s)	2A: National/International
	2B: National (not International)
	2C: No restrictions
3. Extend MID	3A: Prescribe for some Tasks
	3B: No restrictions

Cold Water Meters

- Directive 75/33/EEC covers ‘mechanical meters’ only
- Meters for Clean Cold Water in MID (99% of market)
- Non-clean water meters for abstraction, irrigation, power plants, discharges, etc.
- No specific standards but some national requirements

Cold Water Meters - 2

- Non-clean water meters are: larger, (generally) less accurate, selected for specific purposes
- Price may be €400 (cf €30 for a domestic meter) >>> €4m per annum
- No reliance on OA Directive
- No barriers identified

Options for Cold Water Meters

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Alcohol Meters/Tables

- Directives 75/765/EEC covers traditional glass instruments only (76/766/EEC refers to tables)
- ISO standards & OIML R44
- Regulation 2676/90 prescribes methods for strength of wines including electronic densimetry and refractometry (& Regulation 2870/2000 for spirits)
- Prices from a few euros (home), €20-€40 calibrated, >€1500 electronic

Alcohol Meters/Tables - 2

- Traditional glass instruments still widely used by industry (cheap and accurate)
- Market may be $50,000 \times \text{€}40 = \text{€}2\text{m}$ (plus €4-6m for other instruments)
- Little reliance on OA Directive
- No barriers identified but appears to be reliance on national requirements
- But moves towards limiting mercury in measuring instruments (Dir 2007/51/EC)

Options for Alcohol Meters

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	1C: Old Directive(s) + National (not International)
	1D: No restrictions (some uses)
2. Repeal Old Approach Directive(s)	2A: National/International
	2B: National (not International)
	2C: No restrictions (some uses)
3. Extend MID	3A: Prescribe for some Tasks
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Weights

- Directives 71/317/EEC and 74/148/EEC cover medium and above medium accuracy weights
- BUT near-universal use of OIML R 111 (2004) in Europe (different in China & US)
- Market €30m

Options for Weights

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Tyre Pressure Gauges

- Directive 86/217/EEC covers mechanical gauges on pressurised air delivery lines for inflating motor-vehicle tyres (i.e. excludes modern pre-set orange/yellow boxes)
- EN 12645:1998 also used as a basis for national requirements –but no restrictions in some countries
- Several EU manufacturers but market shrinking

Tyre Pressure Gauges - 2

- 230 million cars (30 million others) in the EU running on pneumatic tyres
- Numerous petrol stations and garages
- Estimate €3m (for €100 gauges) plus €70m (for €1000 pre-set boxes)

Options for Tyre Pressure Gauges

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Standard Mass of Grain

- Directive 71/347/EEC covers bulk density of grain. Based on 20 litre EU & national standard instruments
- In practice much more use of one litre ISO 7971-2 (1995) instruments (@ €2000 – required by Regulation 824/2000) and modern electronic analysers (@ €5000).

Standard Mass of Grain - 2

- Total market may be €0.6m ISO 7971 + €3.5m for analysers
- ISO 7971 being revised (by CEN TC 338) – some concern over coherence of national standards

Options for Standard Mass of Grain

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Calibration of Ships Tanks

- Directive 71/349/EEC covers (re)calibration of ships' tanks for inland waterway vessels and coasters (BUT undefined)
- Major players Germany, the Netherlands and Belgium (short)
- Directive still used in the Netherlands and Germany (?)
- Elsewhere, reliance on API/ISO for oil tankers

Calibration of Ships Tanks - 2

- Total market may be €0.75 million
- Nowadays – use computer drawings plus laser measurements
- Simpler now due to use of double-hulls
- Re-calibration not generally required

Options for Calibration of Ships Tanks

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Summary

- In all cases, Option 2 (repeal) would make little change from Option 1 (do nothing) in practical terms
- In most cases, there may be benefits in extending MID to cover new developments (Option 3) but costs may outweigh benefits

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THE END

Thank you for Listening