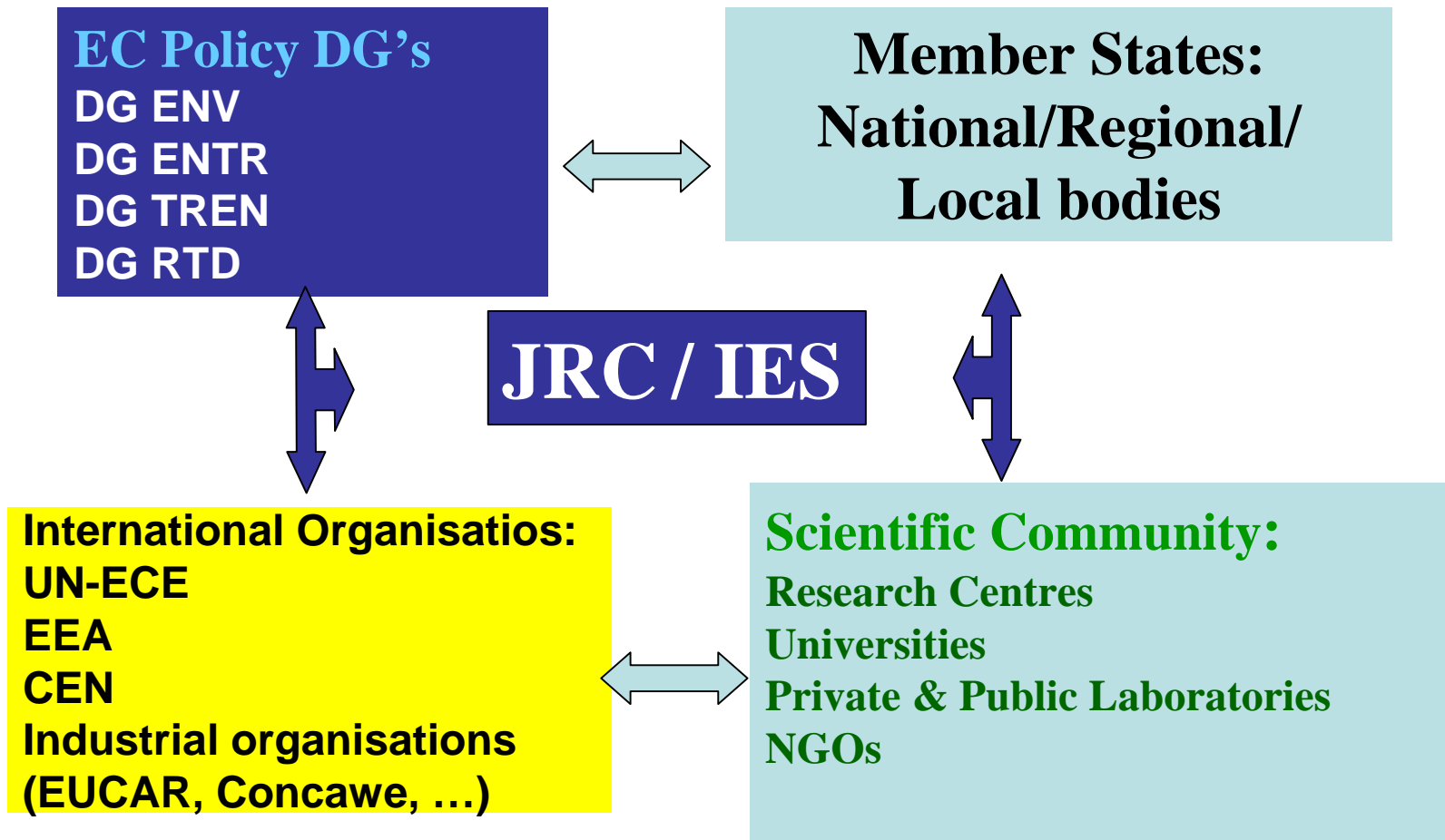




Collaboration within EU

Joint Research Centre





Advanced Conventional & Alternative Vehicles

DG ENTR, DG ENV, DG TREN

Joint Research Centre

Passenger Cars

New Directive
Proposal in 2005

EURO V

Minimum mass for PM
measurement
(AA – DG-ENV)

PMP

Coordinator of international
testing exercise on request of
the UK DETR

H2

ZERO-REGIO
EC H2 platform
UNECE WG on
harmonisation

HCCI

Network of Excellence, resp.
for measurement
technologies

Heavy Duty

New Directive
Proposal in 2008?

EURO VI

Participation in MVEG and
HD working group on PM

PEMS

Coordinator of test
programme in cooperation
with Industry on request of
DG ENTR

PMP

Coordinator of international
HD lab testing exercise on
request of UK DETR

Non-Road

New Directive
2003/26/EC

NRMM

Chair of UNECE working
group for the development of a
Global Technical Regulation
for NRMM on request of DG
ENV, Japan MoE, US-EPA

Motorbikes

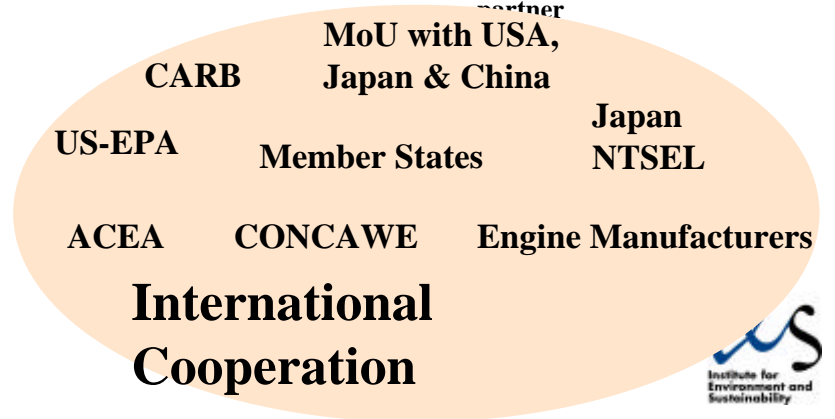
New Directive
2003/77/EC

WMTC

Development of equivalent
emission limits for two test
cycles on request of DG
ENTR and MC Industry

PM & Health

Toxicity from 2-stroke PM
emissions in cooperation
with Swiss and Belgium
partner





Conventional & Alternative Fuels

DG ENTR, DG ENV, DG TREN

Joint Research Centre

Fuel Quality

Directive 2003/17/EC
Review by 2005 (DG ENV)

RVP Waiver

RVP effects on VOC emissions

Metallic

Additives

Effect of metallic additives on environmental performance

Detergents

Evaluate the need of further legislative specifications

10 ppm Sulfur

Assess final date for introduction of 10 ppm sulfur in diesel fuels

Others

Assessment of other fuel parameters

Bio-Fuels

New Directive 2003/30/EC

Bio-Ethanol

Evaporative emissions of bio-ethanol blends, cooperation within EUCAR/CONCAWE MoU

Bio-Diesel

Testing of bio-diesel quality effects on PM emissions, in cooperation with European Bio-Diesel Board

Reformulated Fuels

Emulsions

Effect of diesel/water mixtures on emissions and toxicity of PM on request of Regione Lombardia

Additives

Effect of combustion improver on emissions and toxicity of PM on request of Regione Lombardia

Alternative Fuels

WtW Study

Development of an analytical tool for the overall environmental assessment of alternative fuels and drive trains (including Hydrogen, bio-fuels, LPG etc.) in support to DG TREN





Sustainable Transport: Hydrogen, Hybrid, Electric and Bio-fuel vehicles

Main activities of the JRC:

- ❑ UNECE-GRPE-H2 FCV
 - subgroup on environmental and energetic aspects
- ❑ European H2 and FC Platform
 - Deployment Strategy Panel
 - Project Zero-Regio
- ❑ Basic Research:
 - Hydrogen vehicles: internal combustion (IC), fuel cell (FC)
 - Hybrid vehicles (HEV)
 - Well to Wheel analysis
 - Alternative fuels (bio-diesel, ethanol – gasoline mixtures)





Evolution of Policy framework towards 7th FWP

(in support to DG ENV, DG ENTR, DG TREN, DG SANCO, ...)

Joint Research Centre

