
International Codes & Standards

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Introduction

- International Regulations (Codes)
- International Standards
- Where we are and where we might be going

Distinction Regulations / Standards

- **Regulations:**

- Are compelling
- Usually laws or based on them, made or initiated by political bodies
- Objective frequently protection of workers of the public from dangers

- **Standards:**

- No legal requirement
- Support the free exchange of goods and services
- Made by the interested parties

EIHP2 – H2 Regulations & Standards for Road Vehicles

Approval of Road Vehicles

- Vehicle manufacturer's in both Europe and the USA must meet legal requirements before a vehicle can be approved and registered for use.
- Vehicle manufacturer's need uniform legal requirements throughout the world to speed development and reduce costs.

	<u>Approval procedures</u>	<u>Legal Requirements</u>	<u>Goal for Future Legal Requirements</u>
Europe:	Type Approval	ECE Regulations or EC Directives or	Global Technical Regulations
USA:	Self-Certification	FMVSS	

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graph LR; A["ECE Regulations or EC Directives or"] --> B["Global Technical Regulations"]; C["FMVSS"] --> B;
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Two Pathways to Present a Proposal for a Regulation

UN-ECE

REGULATIONS

Secretary General of the UN

Economic Commission for Europe
Inland Transport Committee
ITC

Working Party 29 (WP29)
New Vehicles Construction

GRPE
Groupe de Rapporteurs de
Pollution et des Emissions

EC

DIRECTIVES

EU Council and EU Parliament

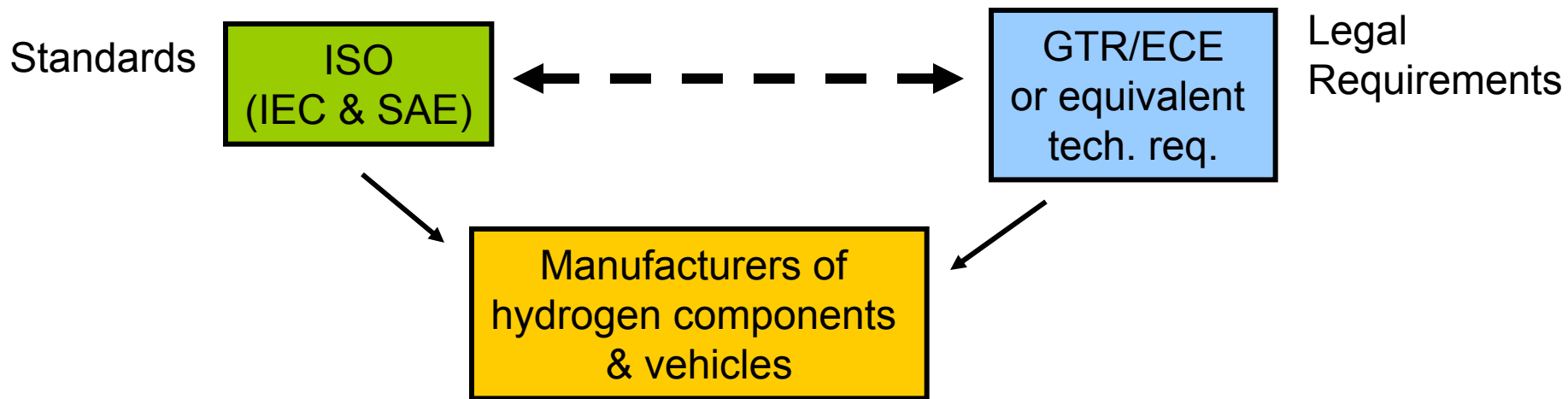
European Commission

Motor Vehicle Working Group

MVEG
Motor Vehicle Emission Group

EIHP2 – H2 Regulations & Standards for Road Vehicles

Desirable Future Scenario for Regulations & Standards



- Legal requirements should be created only where necessary
- No standards should be created for subjects where legal requirements are necessary
- Standards are necessary for communication between industries
- Standards are not required for the whole vehicle
 - What would be the benefit of such standards?
 - Why should such standards be created only for hydrogen vehicles?

International and European Standards

	General	Electrical	Other
World	ISO	IEC	...
Interface	Vienna Agreement		...
EU	CEN	CENELEC	...

Questions for the U.S.

- Should the U.S. engage in the GTRs process before it develops a consensus on hydrogen and fuel cell codes and standards?
- Does the current international system reflect the relative importance of markets being served?
- Would GTRs require new regulatory mechanisms to be set up in the U.S.?
- Should GTRs be used to harmonize existing requirements or create new ones?

Possible Futures

- Never agree on GTRs and let ISO and IEC write standards and the ECE continue to do European requirements
- Have the GTR process dominate with or without defined roles for ISO and IEC
- Develop a GTRs but have trading blocks harmonize the GTRs rather than countries
- Global relevancy where national standards are reconciled in large part based on market size
- Development of a new initiative or agreement
- No international agreements