



## *WWH-OBD*

Diesel Heavy Duty emission related OBD  
A module within a more generic GTR



## *Original scope and project management*

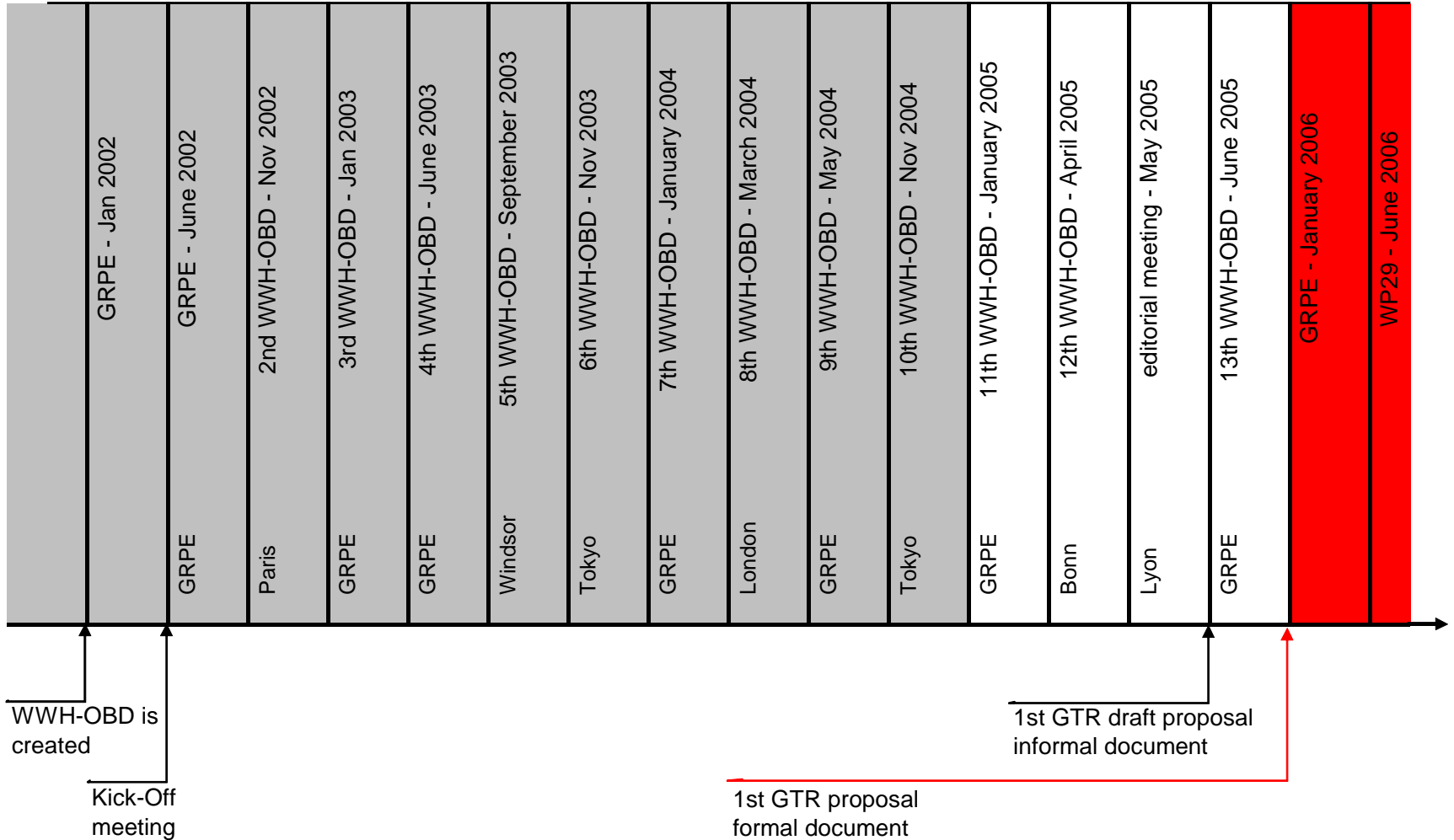
- ✿ ***WP29 decided in November 2001 a GTR will be made, dealing with "On Board emission Diagnostic systems for Heavy duty vehicles and engines".***

*It will concern Diesel fuelled compression ignition engines*

- ✿ GRPE was given the task to draft this GTR
- ✿ A GRPE informal group, named WWH-OBD, has been created for that purpose
  - ✻ Chairman: Mr. NARUSAWA, NTSEL (Japan)
  - ✻ Secretary: Mr. RENAUDIN, OICA/ISO



## time-schedule overview





## *The OBD concept*

### *Diagnosing, Recording, Communicating*

- "On Board Diagnostic system (OBD)" means a system on-board a vehicle or engine which has the capability of
  - detecting malfunctions,
  - indicating their occurrence by means of a malfunction indicator,
  - identifying the likely area of these malfunctions by means of diagnostic elements
  - storing that information in computer memory
  - communicating that information off-board.



## *Further request from AC3*

- ✿ ***AC3 decided in November 2003 the GTR will be structured in such a manner as to enable its future extension to other functions of the vehicle.***

Notes:

- 1- the scope of the task given to GRPE / GRPE WWH-OBD has not been modified (emission related / Heavy Duty Diesel vehicles)
- 2- GRPE has been mandated to propose the requested structure



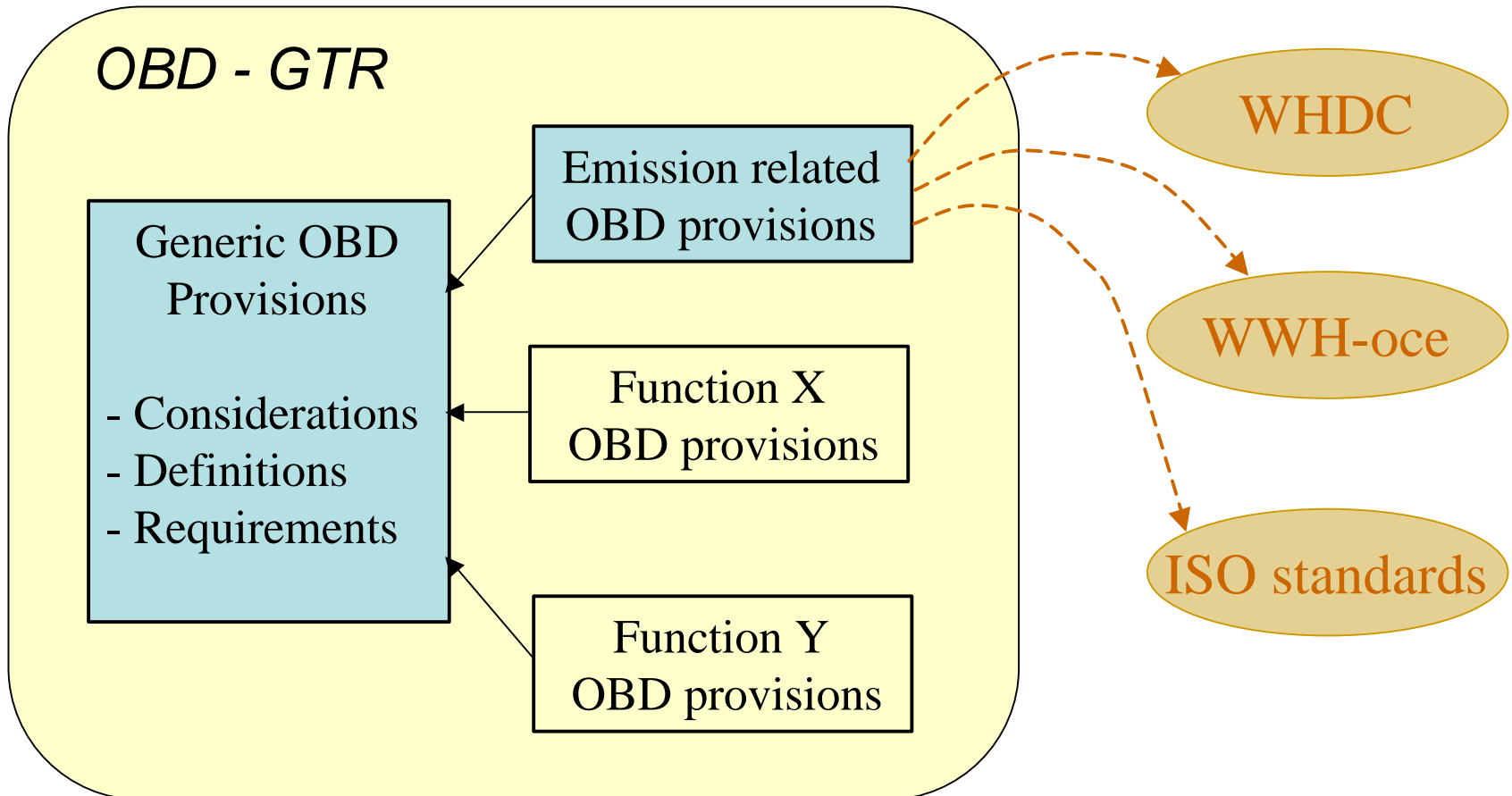
## GTR structure – decisions from GRPE

- ➊ Further to AC3 request, GRPE agreed to the following:
  - ▣ The GTR will consist of:
    - a generic core set of requirements and
    - specific modules.
  - ▣ WWH-OBD will draft both the core part and the emission related module.
  - ▣ GRRF, GRSG, and GRSP need to review the content of the generic core part.
  - ▣ WP29/AC3 will be consulted on the best way to involve the other concerned GRs. In the mean time, they will be kept informed by WWH-OBD.



Other emissions  
related GTRs and  
standards

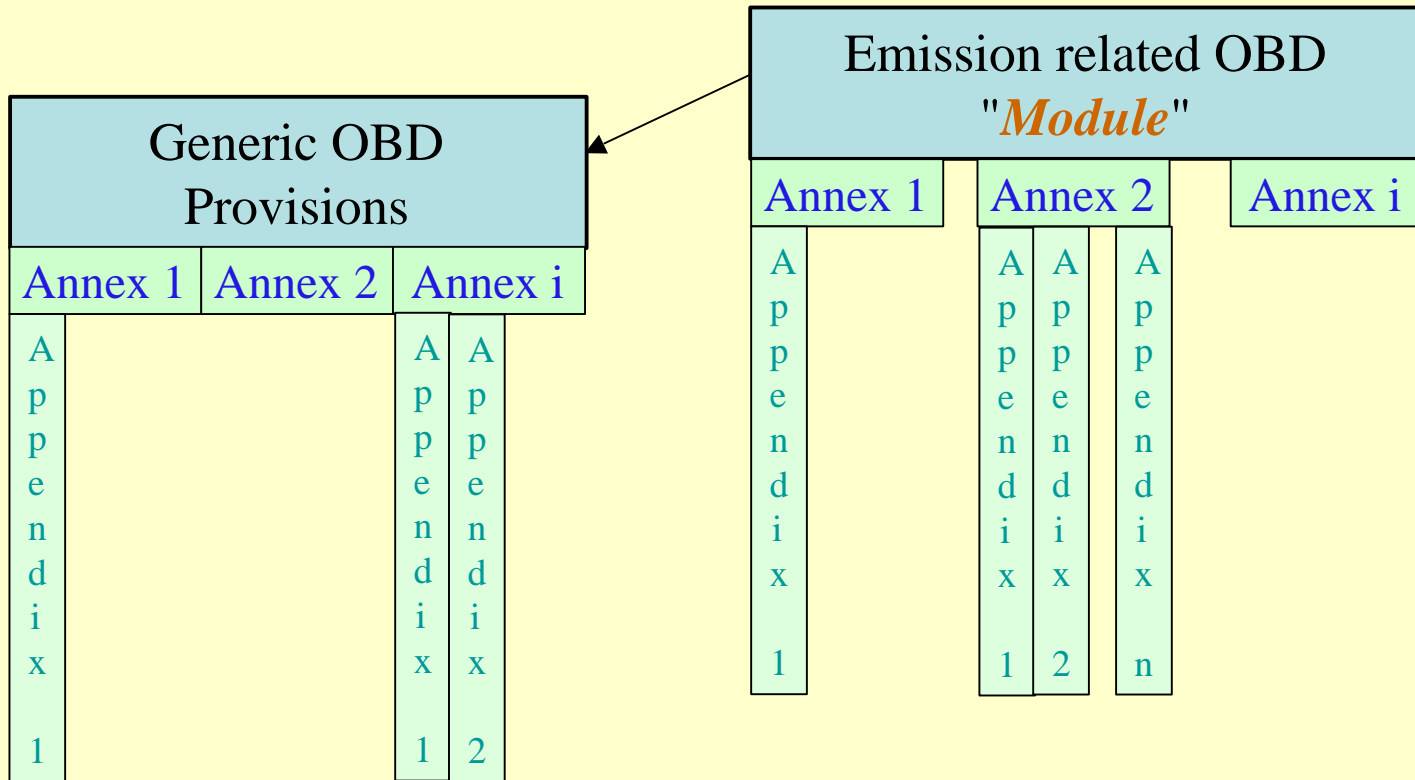
## GTR structure - concept





## GTR structure - editorial

### OBD - GTR







## *Content of the generic part – major elements*

### ● Generic definitions

- OBD
- Types of malfunctions (functional, electrical, rationality, etc...)

### ● Generic requirements

- Indication of a Malfunction (MI)
- Failure classification (structure)
- Storage of OBD information (DTC, freeze-frames, etc...)
- Access to OBD information (com. Protocol, connectors, etc...)
- Electronic security
- Documentation requirements



## *GTR – drafting process*

- Information to GRRF, GRSG and GRSP in spring 2005
- Joint informal meeting to finalise the generic part scheduled on Monday morning, 30 May 2005
  - Delegates of GRRF, GRSG, GRSP to be invited
- Complete draft GTR submitted to GRPE on Thursday, 02 June 2005 as informal document
- Comments of GRPE, GRRF, GRSG, and GRSP on the gtr to be provided by [16]\* September 2005
- GTR submitted to GRPE as formal document in January 2006

*\*note: date to be confirmed on 30 May 2005*