

NEW ISO WORKGROUPS, e.g. for LNG Equipment

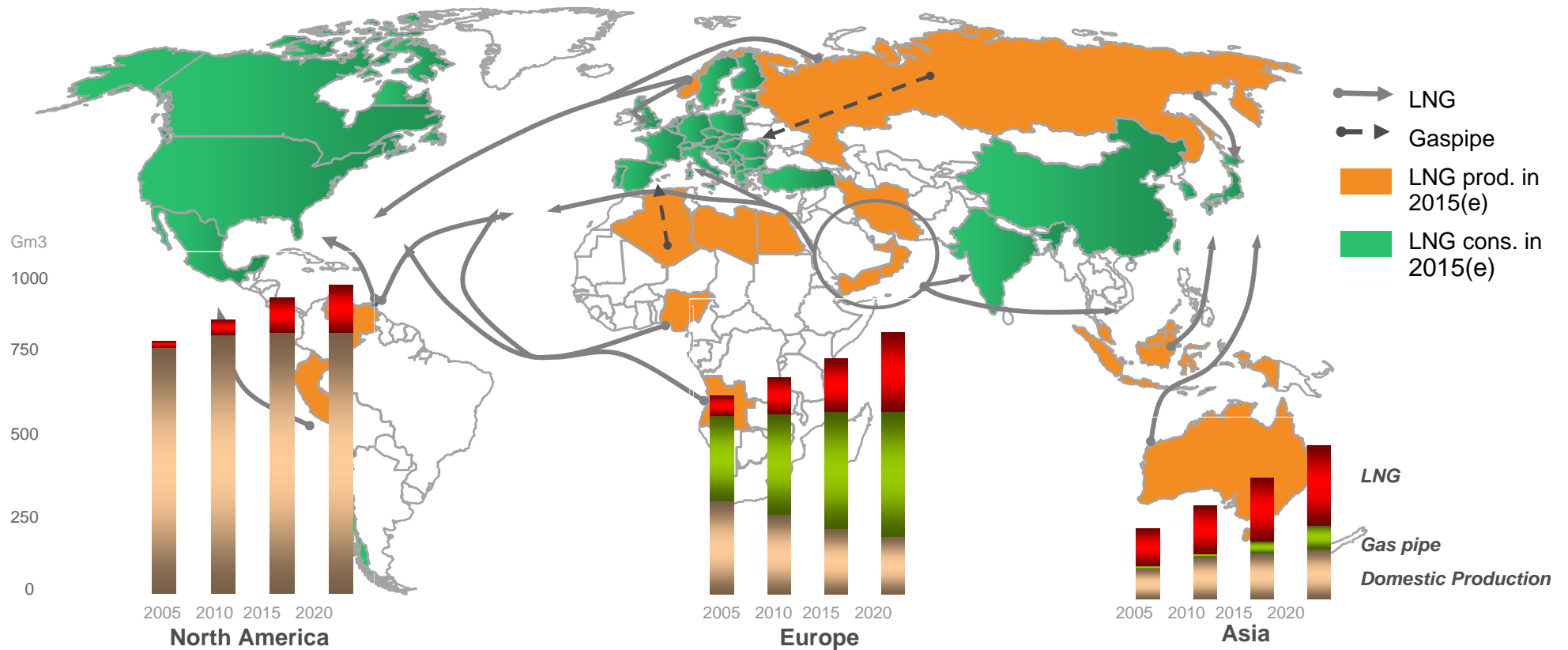
NEW ISO WORKGROUPS

An ISO Technical Committee is not “fixed for life”, but can adapt its structure whenever needed to suit the demand of Standards users.

We are going to see, *as an example*, how a new Working Group, has been decided by ISO/TC 67 in order to deal with LNG Equipment.

Adaptability

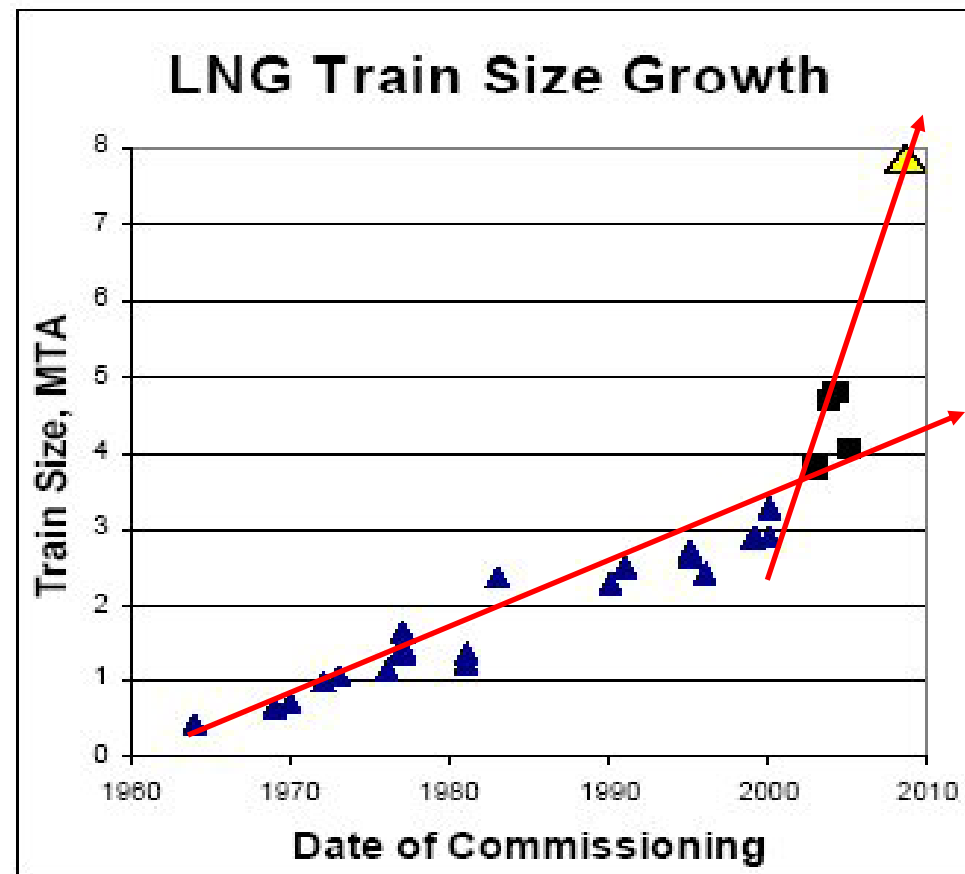
The LNG market will be the most dynamic energy sector in the coming years



- LNG demand in Asia: pulled by China & India
- LNG demand in EU & America: link to flat/declining domestic production

The LNG world : increasing production capacity

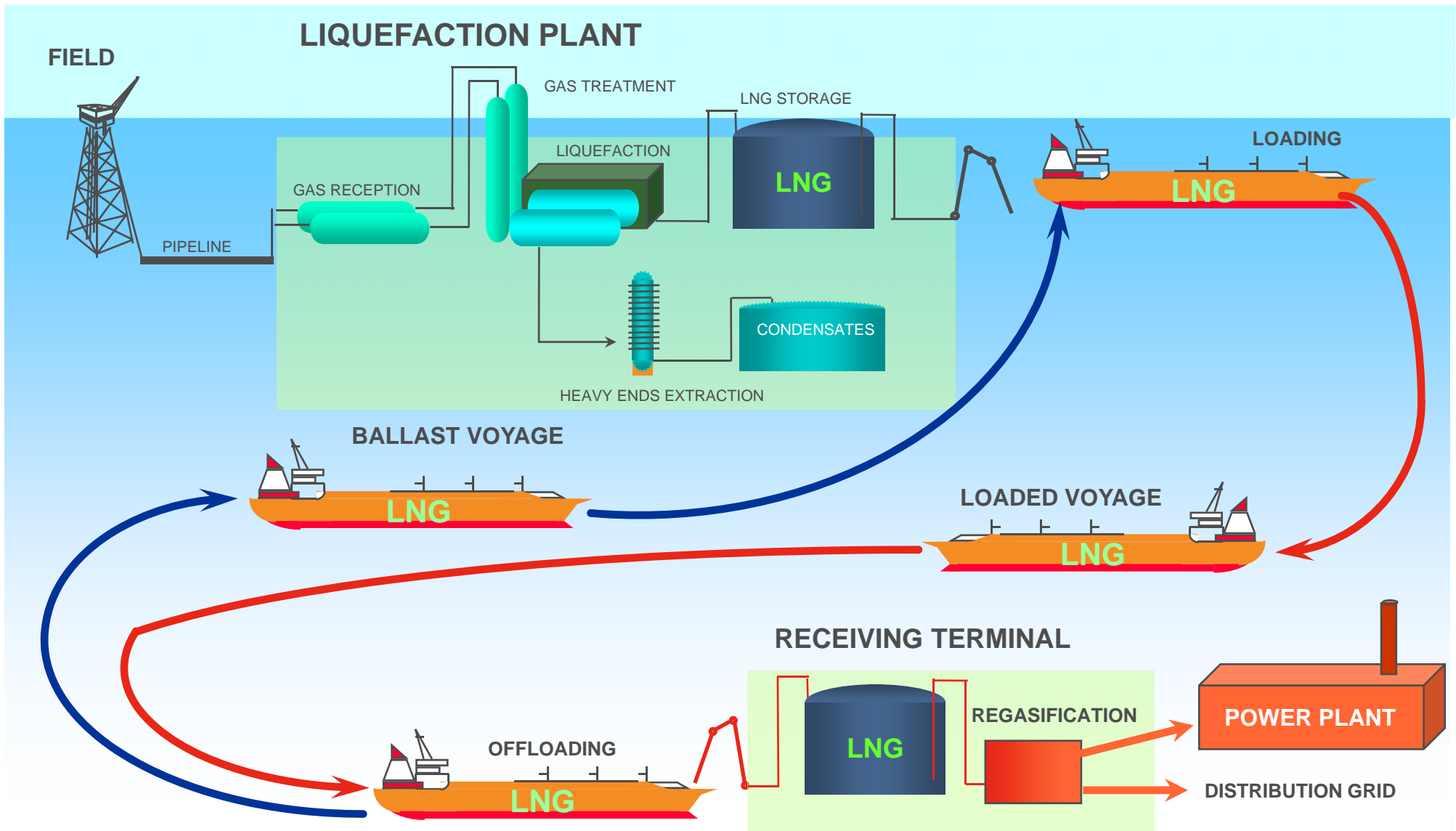
- The strong growing demand leads to numerous new projects, including plant capacities up to 10 - 15 Mtpa



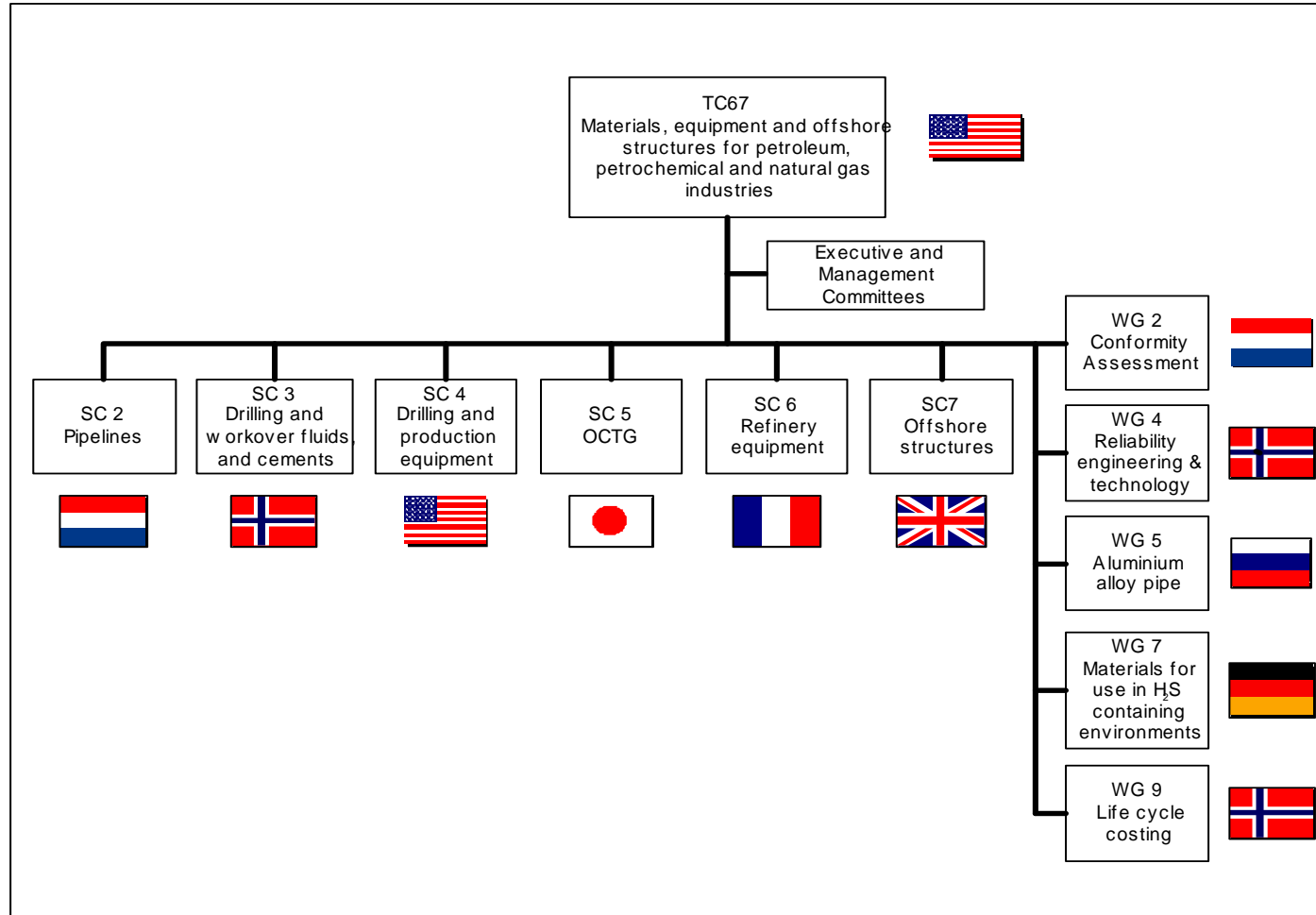
LNG World : Forthcoming challenges

- ▶ Global and flexible market
- ▶ New environments and new concepts
- ▶ New liquefaction processes and cryogenic equipment
- ▶ Larger size of plants
- ▶ Increased safety and security requirements

LNG Chain



ISO/TC 67 in 2004



Investigating the needs

- ▶ The question having been raised by several members, ISO/TC 67 Management Committee decides in February 2005 to “..form a LNG Ad Hoc group to investigate the need for standards in this technology and report back..”.
- ▶ This Ad Hoc group confirms that many different Codes and Standards already exist within the LNG industry :

NFPA, ASME, API (USA) ; JGA (Japan); CSA (Canada); NOM (Mexico);

DIN (Germany); BS,IP (UK); EN (Europe), and others.

- ▶ A “Business Case” is prepared in 2006 and concludes that there is an actual need for global International Standards for the LNG industry. ‘LNG ship to shore interface’ is identified as a possible first New Work Item for the workgroup.

Decision by TC 67

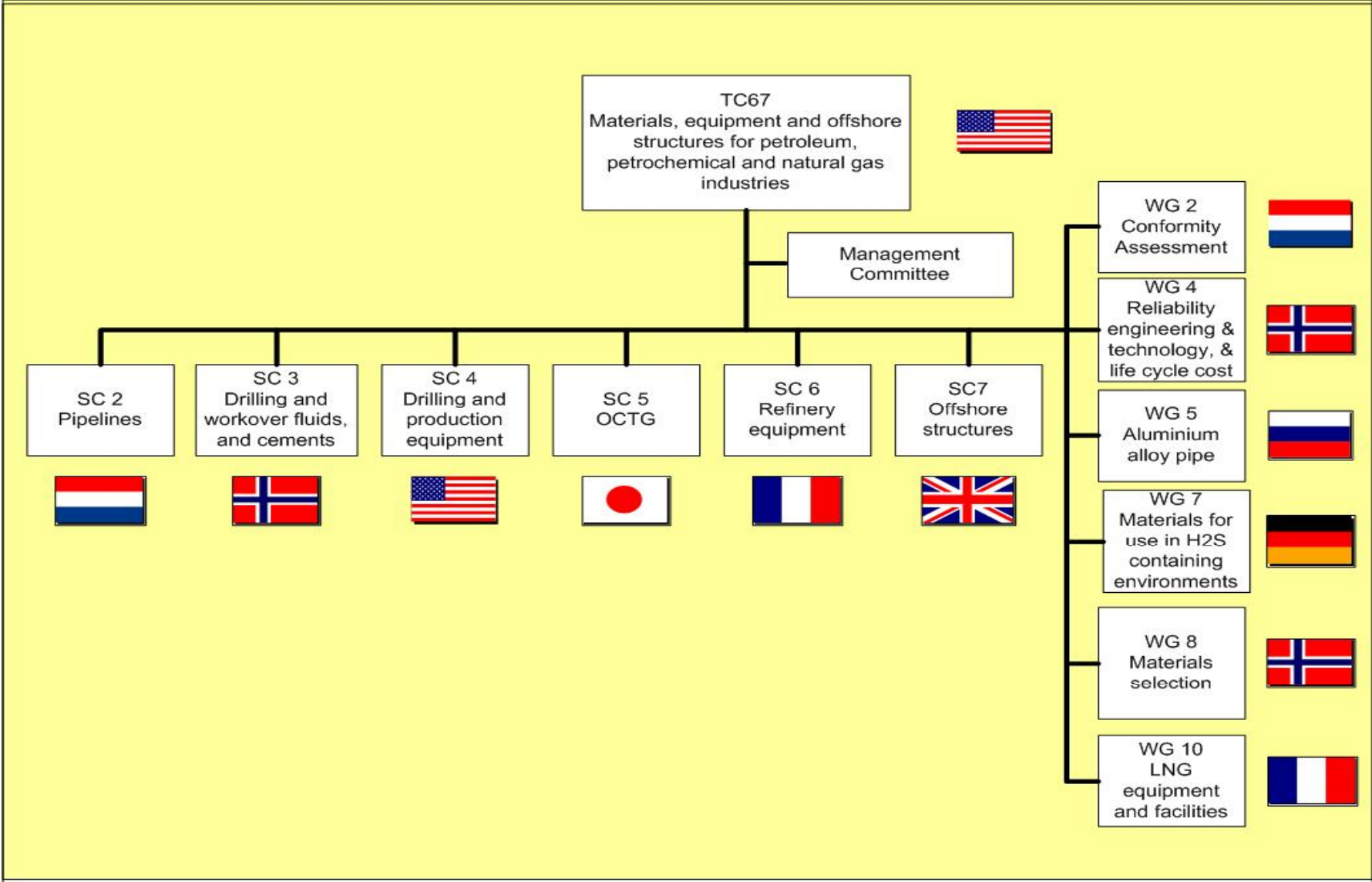
- ▶ Following the conclusions of the Ad Hoc group, ISO/TC 67 plenary decides in September 2006 (resolution 25) :

“.... the formation of Work Group 10, 'LNG installations and equipment', ... asking P-members to name volunteers by end of October, 2006.

This work group's scope will be standardization for installations and equipment for liquefied natural gas, **excluding product or testing.**”

- ▶ It is requested by TC 67 for WG 10 to : “.. develop by 1 June 2007 a proposed work group programme, taking into consideration all current LNG standards. The first meeting of the work group is expected to be held during the first week of December, 2006.”

Present structure of ISO/TC 67



WORK PROGRESS since TC 67 decision

- ▶ Two meetings of WG 10 were held soon afterwards, in December 2006 and April 2007.
- ▶ Due to the large number of participants, a steering committee was established, and a number of Task Groups were initiated, one of them being “LNG ship to shore interface and port operations”.
- ▶ TG 3 deals with risk assessment in the design of onshore LNG installations.
- ▶ TG 4 with materials.
- ▶ Regular meetings are held for WG 10 and TG’s.
- ▶ Recently, a new TG 5 was established for ‘LNG storage tanks’, and a TG 6 may follow on ‘marine transfer systems’.

CONCLUSION

- ▶ **Creating a new working group within the Technical Committee has opened a new field for global standards needed by all segments of the industry.**
- ▶ **Initial outcomes show a very pro-active partnership between the various participants, and confirm this decision was fully justified.**

Thank you for your attention