

ISO Reference Data in database format

PCA Member Meeting

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Standards as Databases

Applicability of the database approach

If a standard consists of a “**collection of items**”,
e.g.

- graphical symbols
- terms and definitions
- sets of property-value pairs
- data dictionaries of all types
- classification systems
- codes (for various types of objects)
- etc.

Database as master source, or representation

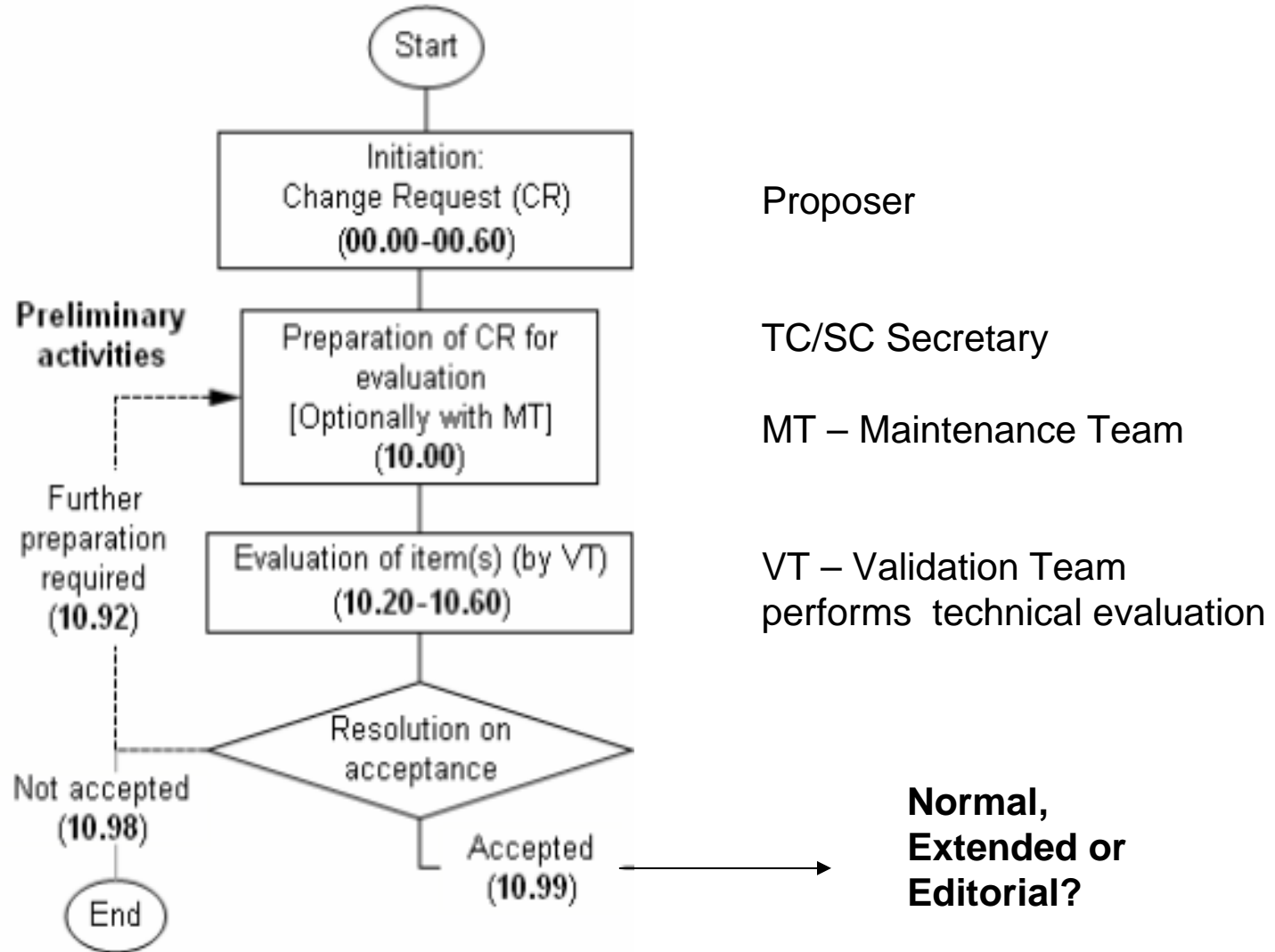
Objectives

- **Shorter development times:** Faster revisions and extensions of existing standards
- Standardized content in the form of reference data must increasingly be **usable by computer applications**
- Content is visible beyond individual documents or committees and even during development → **Increase of consistency**
- Provision of machine-accessible reference data needed in business applications may become an **important business area for standards bodies** in the future

ISO Procedure for “ Maintenance and development of standards in database format”

- New options – initiated by Change Request
 - Maintenance/withdrawal of some of the content:
→ **Normal database procedure** [internal to committee] - Duration: 3 – 6 months
 - New Work Items/major changes to content →
Extended database procedure [follows “traditional” ISO process]
- Change Requests can be subdivided or consolidated as appropriate

Processing a Change Request



Proposer

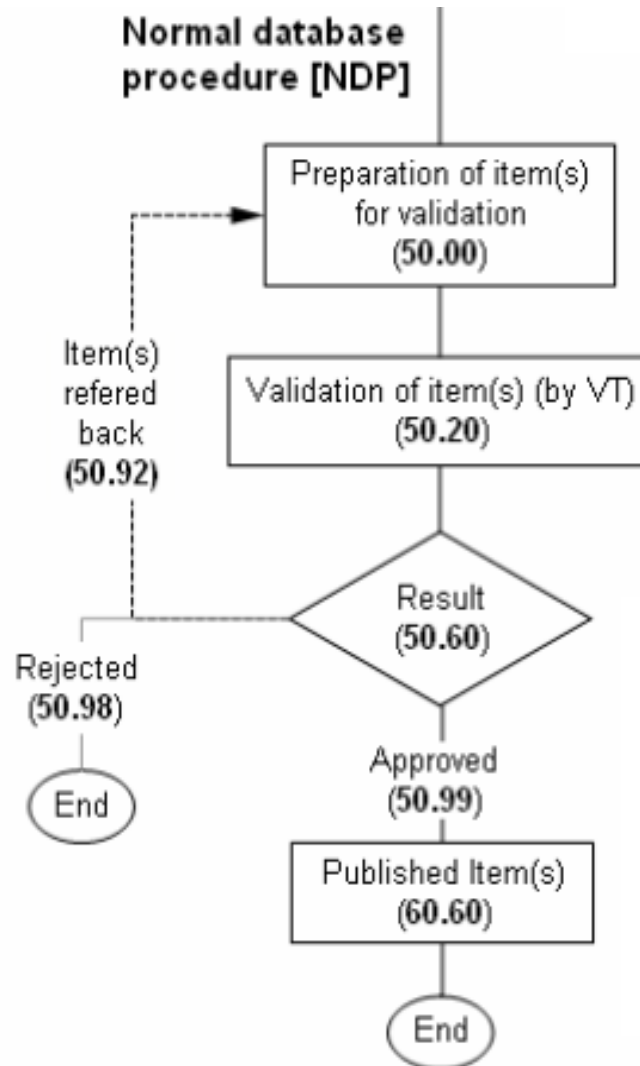
TC/SC Secretary

MT – Maintenance Team

VT – Validation Team
performs technical evaluation

**Normal,
Extended or
Editorial?**

The normal database procedure



The Maintenance Team

- A group of experts that may be set up by a parent committee following the rules in the ISO/IEC Directives for the establishment of Working Groups
- A MT may be called upon by the TC/SC secretary to provide expertise in the preparation of change requests or items for evaluation or validation

The Validation Team

- A permanent, “executive”, group of individuals appointed by and acting as delegates on behalf of their National Bodies, A-liaison organizations and committee-internal liaisons to **validate proposed items** and **vote for their release** as part of a database standard
- All P-members, A-liaison organizations and committee-internal liaisons can appoint one member to the team.
 - minimum of 5 P-members
 - P-member representatives have the right to vote
 - A-liaisons and committee-internal liaison representatives may submit comments
- Deputies should be appointed to avoid delays
- Duration of appointment and any supporting network of experts at national level to be established by nominating bodies
- Managed by TC/SC secretariat

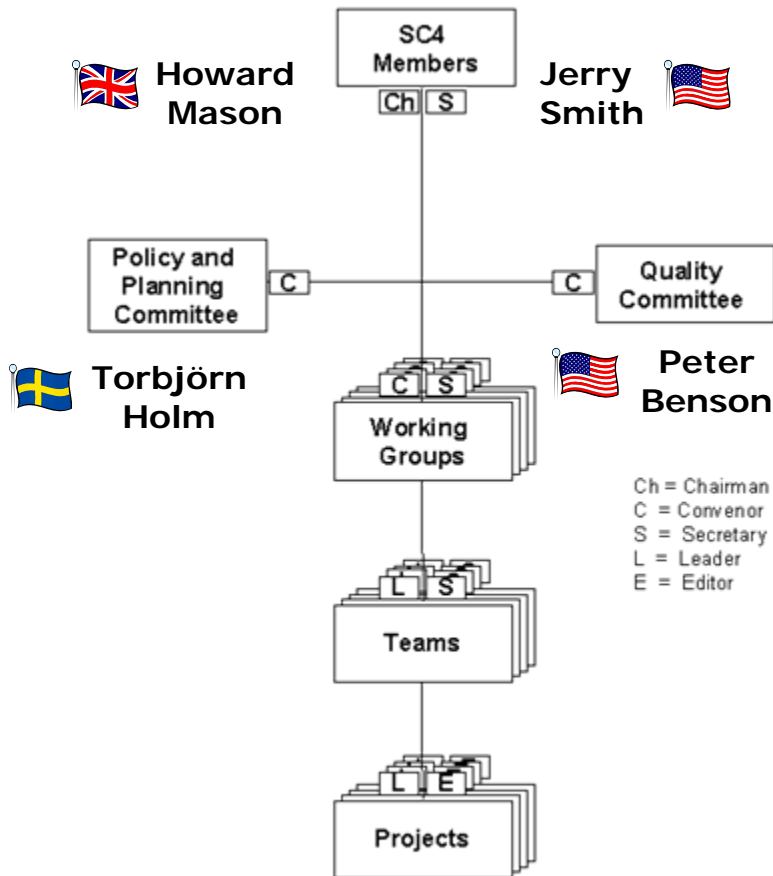


Figure 2 - The Organization of SC4

•WG2 - Parts Library (PLIB)
(Nikolaus Ondracek)



•WG3 - Product Modeling
(Gerald Radack)



•JWG8 - Industrial Manufact.
Manag. Data
(J.J. Michel)



•WG11 – Implementation Methods,
and Conformance Methods
(Dave Loffredo)



•WG12 – Common resources
(Keith Hunten)

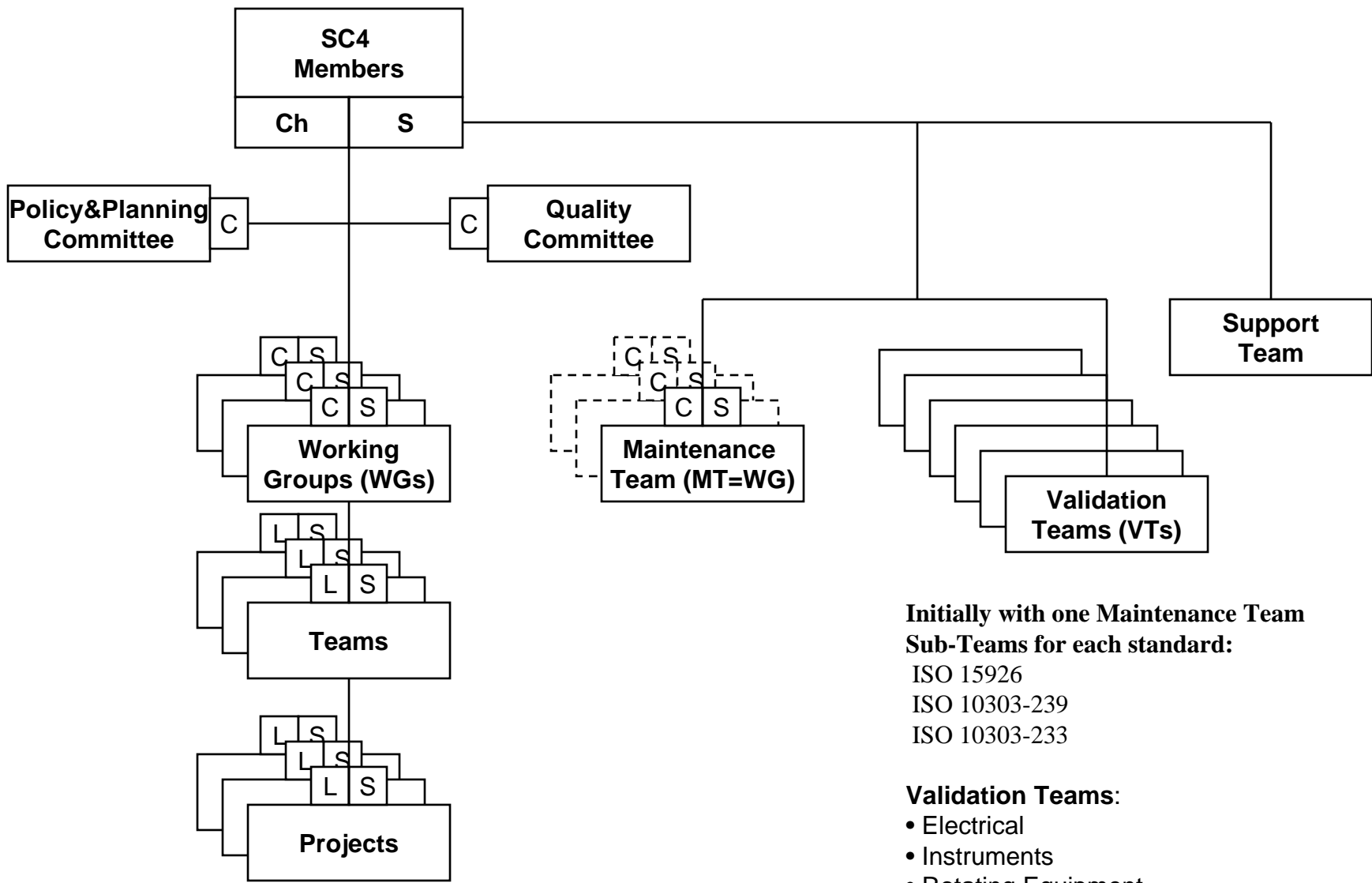


•WG13 – Industrial Data Quality
(Tim King)





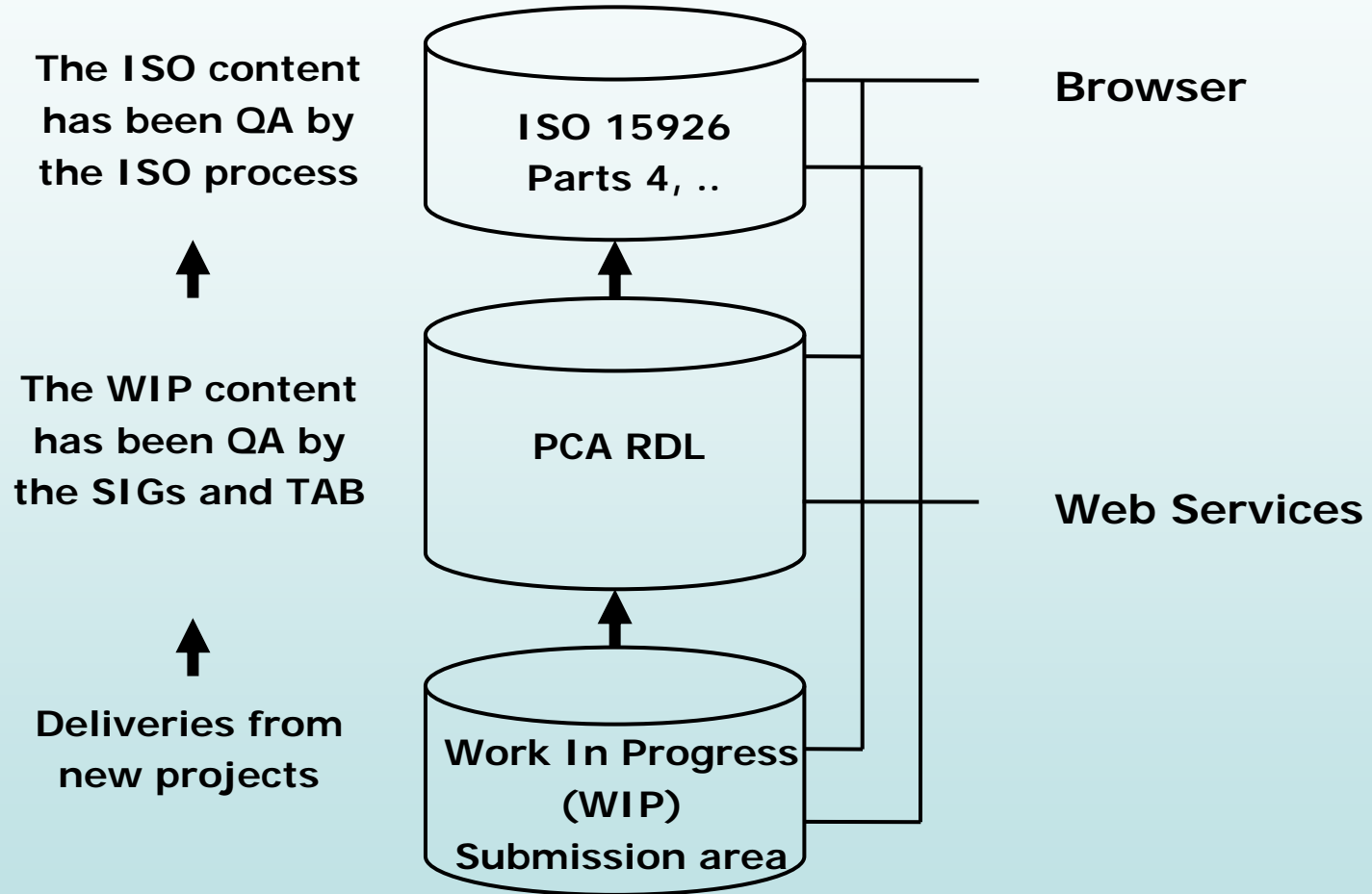
ISO TC 184/SC4 Organization- Proposal



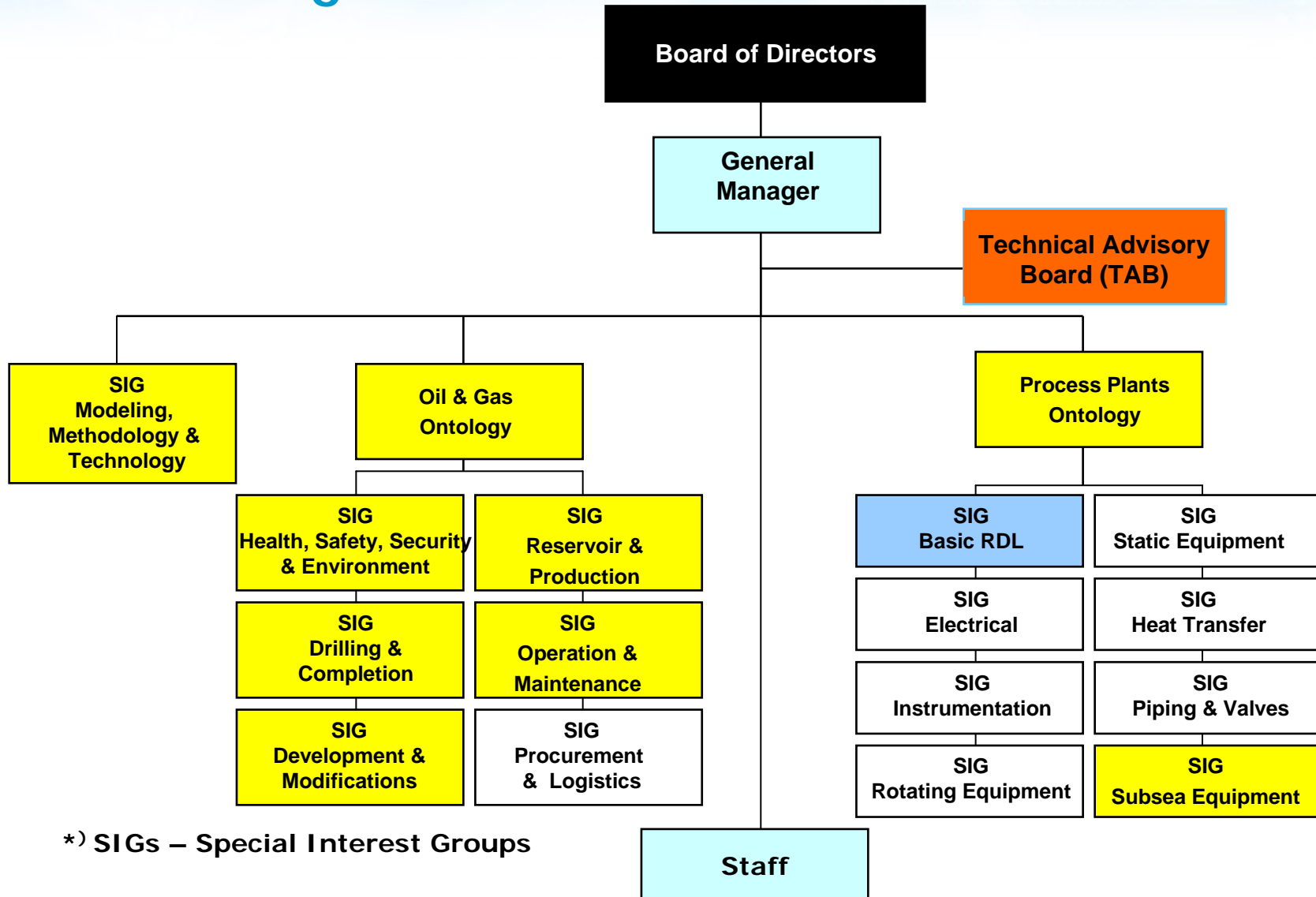
Initially with one Maintenance Team Sub-Teams for each standard:
 ISO 15926
 ISO 10303-239
 ISO 10303-233

- Validation Teams:**
- Electrical
 - Instruments
 - Rotating Equipment
 - Etc.

Maintenance and Enhancement of the RDL



PCA's Organization



*) SIGs – Special Interest Groups

Summary

- ISO has established the procedure for standards as databases
- PCA and FIATECH have developed the Reference Data Services for development and maintenance of Reference Data
- The procedures for development and maintenance of ISO/TC 184/SC 4 Reference Data will go out for ballot soon
- ISO 15926 Reference Data is ready for use and enhancement