ETSI

Master Tech Standardization
with ETSI

Module 4 – How are standards written?

- Different SDO have different ways to create and approve standards
- All have common themes:
  - transparency
  - openness
  - consensus
  - stakeholder engagement
  - relevance to market needs
  - impartiality
  - effectiveness
  - balance
  - coherence

- Domain experts from industry, SMEs, academia, governmental bodies, users…

- Standards is not really a career, but a path to making your work count

- You get to work with world-leading experts

- Potential to make a real difference to society

- Increasing online meeting attendance, but in-person still works best

- Technical experts who can contribute to writing standards tend to be paid better than those who do not

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- ETSI Work Item - description of a standardization task approved by a Technical Group according to the relevant procedures and adopted by the ETSI members
  - intended deliverable type (EN, ES, TS, EG, TR, SR)
  - technical scope
  - schedule of tasks for its production
  - supporting members (minimum 4)
  - TBs/ISGs/OSGs define and approve new Work Items.
  - ETSI Deliverable - A document produced as the result of an ETSI work item

Normative Documents

- TS - ETSI Technical Specification
  - Short time to market, may be converted later to ES or EN – approved by the Technical group

- ES - ETSI Standard
  - Entire ETSI membership approves

- EN - European Standard
  - Formal output for Standardization at European level
  - Specific to Europe & needs transposition into national standards or required by an EC/EFTA mandate
  - Harmonised Standards are a subset of ENs

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Informative Documents

- TR - ETSI Technical Report
  - Default deliverable when containing only informative elements - approved by the Technical group

- EG - ETSI Guide
  - Guidance on handling technical Standardization activity in whole or major parts of the Technical Organization

- ETSI Special Report
  - General ETSI member or public interest
  - Also, deliverable with dynamic content generated by a software application on the ETSI web site on the basis of database content.
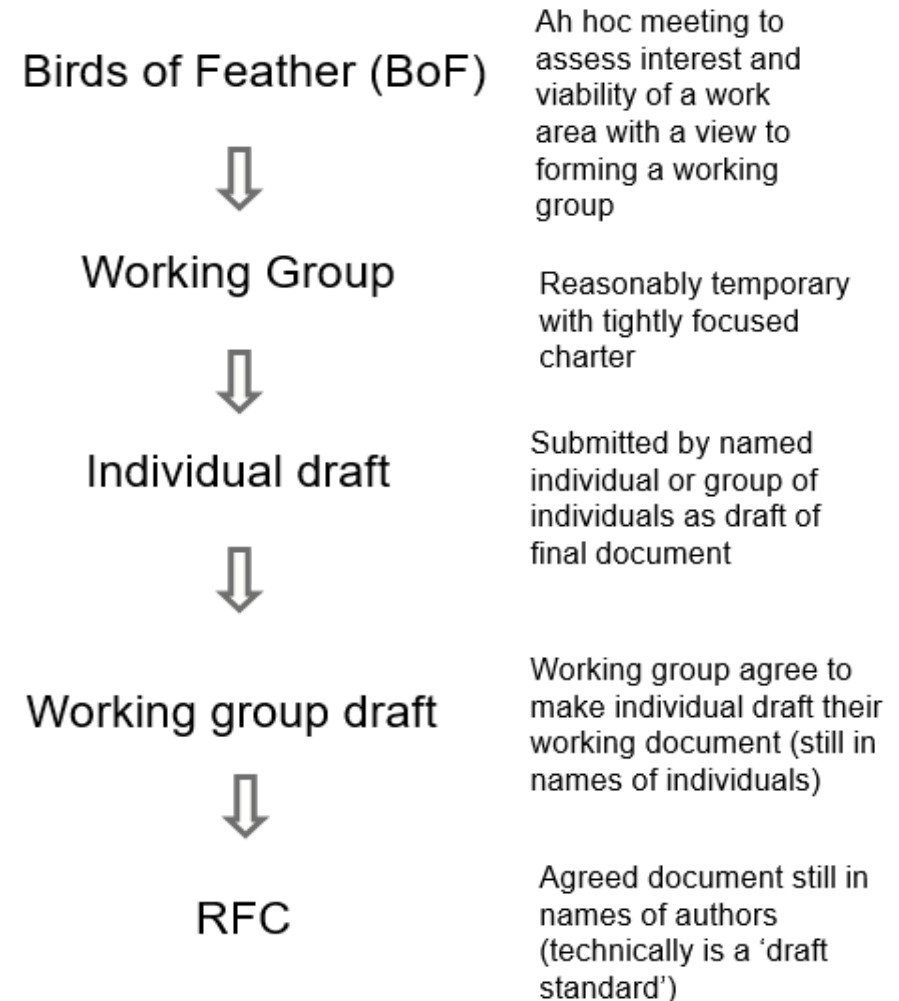
All SDOs try to approve the content of standards by consensus

- *Definition:* A general agreement, characterised by the absence of sustained opposition to substantial issues by any important part of the concerned interest and by a process that involves seeking to take into account the views of all parties concerned and to reconcile any conflicting arguments.
- *Note:* Consensus need not imply unanimity.

- This can be the hardest part for the delegates involved in the drafting and approval of a document.

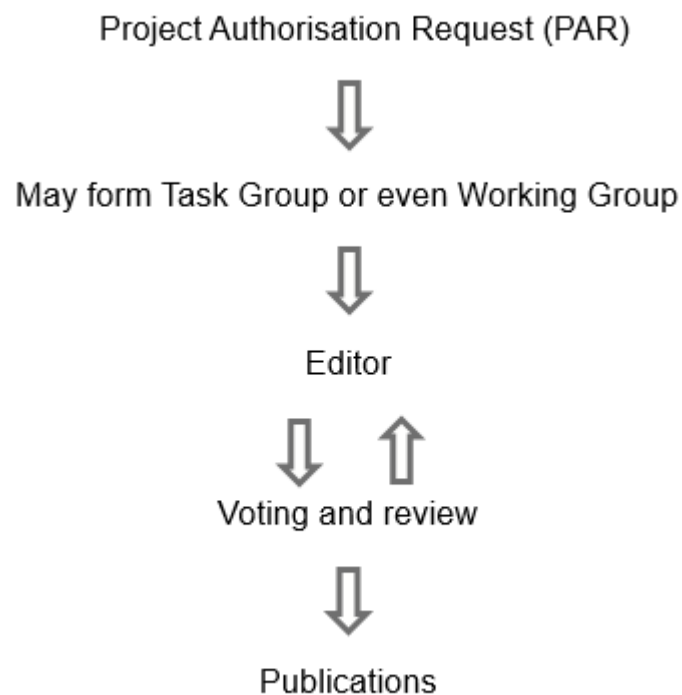- Voting can be used as a last resort – extremely rare.

I E T F®

- Origins are academic funded by US defence

- Now fully independent body

- Global body with US based administration

- Membership is by individual expert

- Agreement is by consensus and 'mood of the room'

- 'Rough consensus and running code'

Birds of Feather (BoF) — Ah hoc meeting to assess interest and viability of a work area with a view to forming a working group

⇩

Working Group — Reasonably temporary with tightly focused charter

⇩

Individual draft — Submitted by named individual or group of individuals as draft of final document

⇩

Working group draft — Working group agree to make individual draft their working document (still in names of individuals)

⇩

RFC — Agreed document still in names of authors (technically is a 'draft standard')

802.1	Bridging and Management
802.3	Ethernet
802.11	Wireless LAN
802.15	Wireless Speciality Network (WSN)
802.16	Broadband Wireless Access
802.18	Radio Regulatory Technical Advisory Group
802.19	Wireless Coexistence
802.24	Vertical Application Technical Advisory Group

Project Authorisation Request (PAR)

⇩

May form Task Group or even Working Group

⇩

Editor

⇩ ⇧

Voting and review

⇩

Publications

PAR is tightly focused and strongly reviewed before agreement

ITU-R SG1	Spectrum Management
ITU-R SG3	Radiowave Propagation
ITU-R SG4	Satellite services
ITU-R SG5	Terrestrial services
ITU-R SG6	Broadcasting service
ITU-R SG7	Science services
ITU-T SG2	Operational aspects
ITU-T SG3	Economic and policy issues
ITU-T SG5	Environment and circular economy
ITU-T SG9	Broadband cable and TV
ITU-T SG11	Protocols and test specifications
ITU-T SG12	Performance, QoS and QoE
ITU-T SG13	Future networks (and cloud)
ITU-T SG15	Transport, access and home
ITU-T SG16	Mulitmedia
ITU-T SG17	Security
ITU-T SG20	IoT, smart cities & communities

Study Period (2022-2024)

⇩

Study Group/Working Group — Reasonably permanent

⇩

Question — Reasonably specific work item but can be treated with flexibility

⇩

Rapporteur — Reports progress on question

⇩

Recommendation — Name reflects lack of legal status – recommendation to member nations
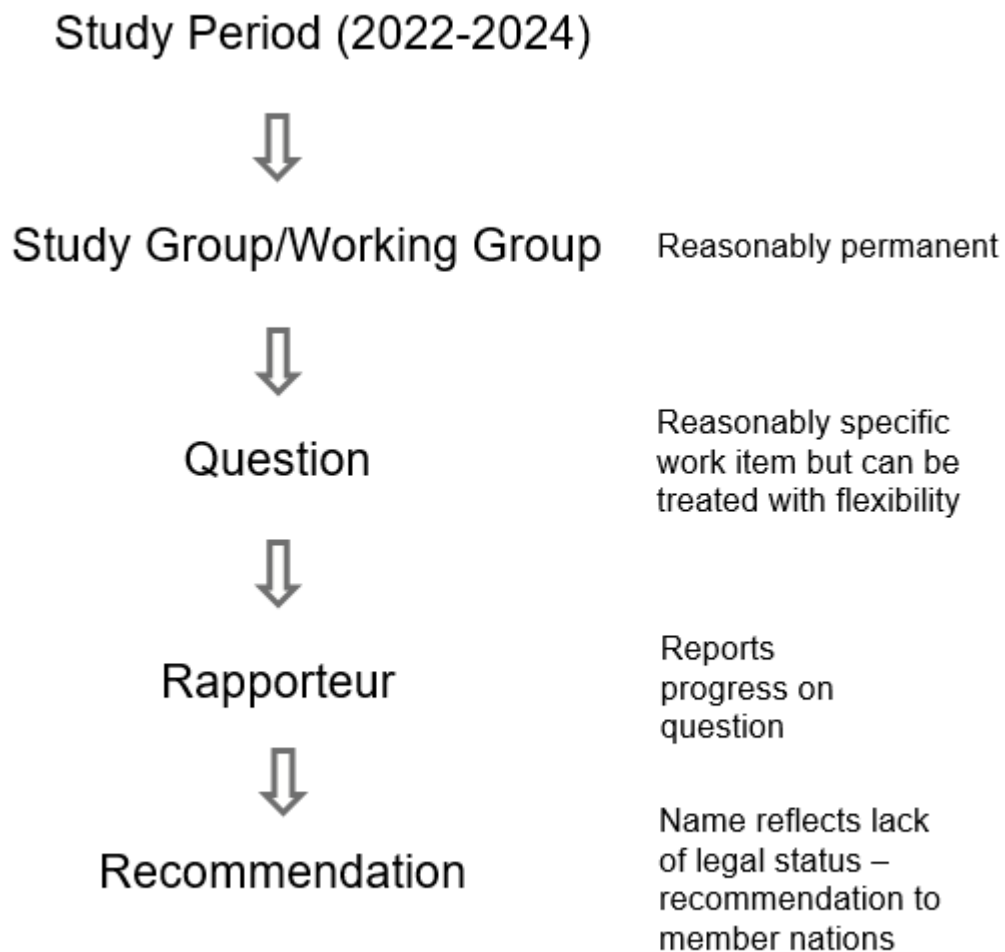
- Standards organizations have rules and processes
- All organizations will help you if you ever end up in a meeting, and your competitors become you friends (well maybe after the meeting ends)
- Of all the skill you will need "consensus" is the hardest – think going out with your friends and choosing a restaurant
- Go find one of the standards games to practice consensus building, they work well with pizza and beer

Thank you for your attention

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