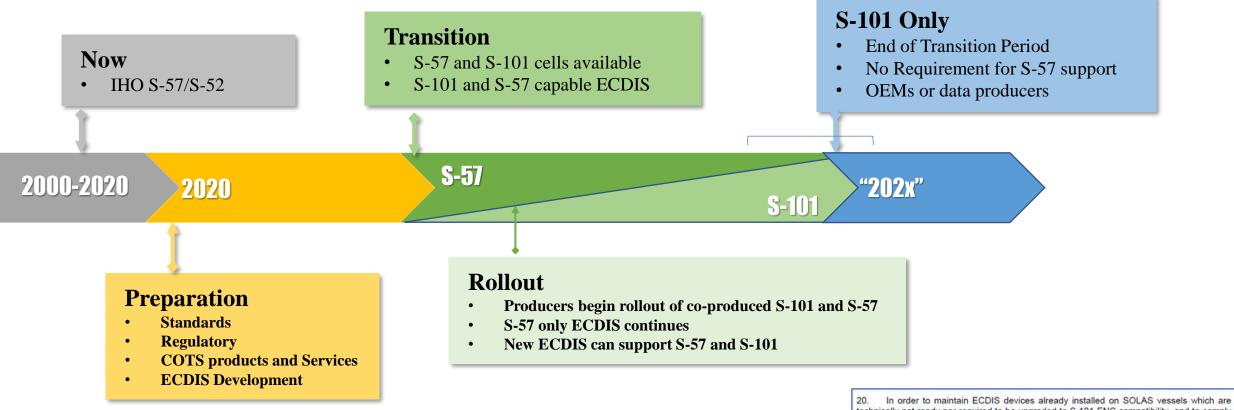
# Dual –fuel ECDIS

**Definition Of Capabilities** 



#### Timeline



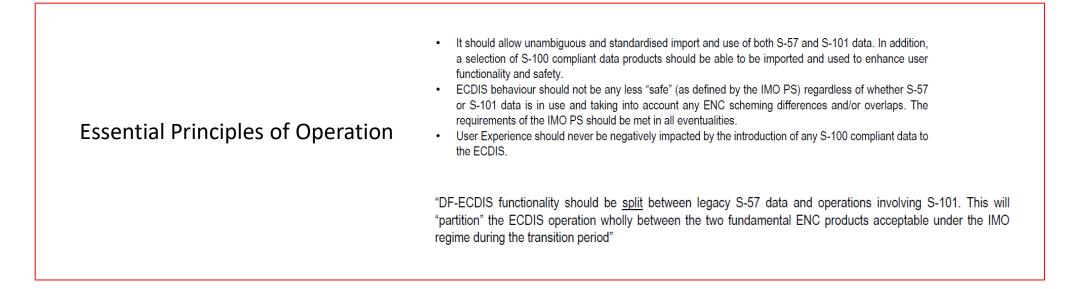
technically not ready nor required to be upgraded to S-101 ENC compatibility, and to comply with the applicable IMO regulations pertaining to existing navigation equipment, identical coverage will be provided for S-57 ENCs and S-101 ENCs for a transition period until there is no significant number of legacy systems in the field and all ECDIS in operation have become S-101 compatible. This situation is expected near the end of the decade, but will be continuously monitored to enable a decision to be made by the responsible IMO body.

21. As a consequence, new ECDIS systems to be brought into the market at the time when S-101 ENC coverage starts (2024) will have to be capable to process both transfer standard formats: S-57 ENCs and S-101 ENCs.

22. Safety of navigation will be maintained by cartographic content of both S-57 and S-101 standards. From the user's perspective, presentation of cartographic and functional features to meet the IMO mandated content in a mixed environment of S-57 ENCs and S-101 ENCs in one ECDIS device will be seamless and presented under the identical presentation regime for charted features and navigational objects.

### S-100WG discussion summary

- S-100WG has discussed the concept of dual-fuel ECDIS (DF-ECDIS)
- Papers at S-100WG5 proposed "...its operation, data handling and user experience can be made consistent and logical in accordance with the current, relevant standards"
- The task at hand is to define "identical presentation regime" and "seamless operation" in concrete terms



## Summary

- Initial workshops have not identified any major issues with the rollout plan. There will certainly be challenges though.
- It is clear that defining the operation of Dual-Fuel ECDIS will require considerable effort from stakeholders across the ECDIS ecosystem and coordination between standards, regulatory and production efforts.
- S-100WG and ENCWG has commenced these activities and efforts in industry are also under way.
- Efforts will focus on
  - Better definition of "identical presentation regime" Portrayal Sub-WG
  - "Seamless Operation" of DF-ECDIS (S-100WG and others)
  - ENC Data Production ENC "Conversion" sub-WG (and others)

### HSSC is asked to

- Note the contents of this paper as a summary of the current situation in regard to Dual-Fuel ECDIS (DF-ECDIS) during the transition period.
- Note the importance of close interworking between the data producer community, industry bodies supporting data production and the broader IEC/IMO community in defining this important transition phase at a working level.
- Agree to the principles of a DF-ECDIS as outlined in the paper
- Consider drafting a governance document that formalizes the guiding principles of DF-ECDIS or incorporate them into the S100 Strategic Implementation Plan.

