



## CESNI work programme 2022-2024

### Caption

Strategic Guidelines (A, B, C)

#### **Bold means problem analysis**

Priority I means ongoing or to be started in the first half of the mandate.

Priority II means to be started in the second half of the 3-year mandate, generally as soon as the working group has finalised the proposals for topics of priority I.

Priority III means no action foreseen, to be evaluated after 2 years.

Priority P as “Permanent” means that the particular action is to be performed continuously. The action in question has no start or endpoint.

## Part “Technical requirements”

Code	Task of the CESNI work programme	Priority	Key working documents / Problem analysis
<p>A) CESNI shall prepare and adopt standards in the field of technical requirements for vessels, actively promoting:</p> <ul style="list-style-type: none"> <li>- the regular revision of ES-TRIN to maintain and guarantee the high level of safety in inland navigation and to follow the technical evolution,</li> <li>- new technologies and innovation, including the use of relevant alternative fuels, batteries and electric propulsion systems, supporting the transition towards zero-emission for the fleet,</li> <li>- the digitalisation of inland navigation, including automated vessels, digital documents as well as navigation and information equipment,</li> <li>- electronic tools for recording and exchanging information on vessels,</li> <li>- an international labelling system,</li> <li>- the review and further simplification of the transitional provisions for the existing fleet.</li> </ul>			
PT-1	<p>To draft requirements for the use of alternative fuels on inland navigation vessels, with the support of the temporary working group CESNI/PT/FC</p> <p>Timeline: 1) storage of methanol, 2) storage of hydrogen (liquified and gaseous), 3) methanol in internal combustion engines, 4) storage and use of compressed natural gas, 5) other alternative fuels</p>	I	<p><b>CESNI/PT (21) 43 – Com. FR</b>  <b>CESNI/PT (21) 44 – Com. DE</b></p>
PT-2	<p>To review requirements for electric propulsion systems (Chapter 11) in the light of the experience gained and finalise the corresponding transitional provisions</p>	I	<p>CESNI/PT (20) 91 corr – Com. DC  CESNI/PT (21) 19 – Com. DE/FR/NL/Secr.  CESNI/PT (21) 19 add 1 – Com. Secr.  <b>CESNI/PT (21) 42 – Com. NL</b></p>

PT-3	To update requirements for navigation and information equipment	P	<b>CESNI/PT (21) 44 – Com. DE</b> CESNI/PT (21) 76 = CESNI/TI (21) 63 – Com. Secr.
PT-4	To define minimum requirements and / or recommendations applicable to the technical design of the track guidance assistant for inland navigation (TGAIN)	II	<b>CESNI/PT (21) 68 – Com. CCNR</b>
PT-5	To draft requirements and recommendations relating to centres for the remote control and supervision of inland navigation vessels	III	<b>CESNI/PT (21) 67 – Com. CCNR</b>
PT-6	To draft a new model of inland navigation vessel certificate and the corresponding ESI instruction	I	CESNI/PT (20) 46 rev. 1 – Com. Secr. CESNI/PT (20) 101 – Com. NL
PT-7	To review and simplify the transitional provisions for existing vessels, with the support of a temporary working group	I	<b>CESNI/PT (20) 34 – Com. BE</b> CESNI/PT (20) 62 – Com. DE CESNI/PT (20) 65 – Com. NL CESNI/PT (20) 60 – Com. Secr. CESNI/PT (21) 14 rev. 1 – Com. from the Group of volunteers
PT-8	To review requirements for filling connections (drinking water and lubricating oil)	I	<b>CESNI/PT (21) 41 - IWTP</b>
PT-9	To review requirements for newly built cargo vessels of less than 55m	II	RV/G (20)m 14, item 4 <b>CESNI/PT (21) 47 – Com. FR</b>
PT-10	To review requirements for waste water collection and disposal facilities, especially: <ul style="list-style-type: none"> <li>- the revision of the transitional provisions for the passenger vessels (Article 19.14)</li> <li>- the inclusion of ammonium as possible new parameter for the type-approval of sewage treatment plants (Article 18.01 and Annex 7)</li> <li>- the inclusion of Coliform index as possible new parameter for the type-approval of sewage treatment plants (Article 18.01)</li> <li>- the facilitation of the implementation of the requirements for sewage treatment plants (Chapter 18 and Annex 7).</li> </ul>	I	CESNI/PT (21) 12 – Com. NL CESNI (20) 25s rev. 1, item 4.3 <b>CESNI/PT (21) 27 – Com. AT</b> <b>CESNI/PT (21) 44 – Com. DE</b> <b>CESNI/PT (21) 33 – Com. Secr. DC</b> CESNI/PT (21) 77 – Com. NL

PT-11	To finalise the requirements for electronic equipment and systems	I	CESNI/PT (21) 31 – Com. Secr. CESNI/PT (21) 32 – Com. Secr.
PT-12	To review stability requirements, in particular weight verification and stability experiment on renewal of the inland navigation vessel certificate	II	<b>CESNI/PT (17) 53 – Com. AT</b> <b>CESNI/PT (18) 45 – Com. FR</b> CESNI/PT (21) 37 – Com GERC (item 2 c)
PT-13	To examine the alternative to the motor parameter protocol (MPP) (Annex 6)	I	<b>CESNI/PT (21) 44 – Com. DE</b>
PT-23	To draft a standard relating to a methodology for measuring and calculating emissions from inland navigation vessels as well as defining emission classes	II	<b>CESNI (23) 17 – Com. CCNR</b>

<p>B) CESNI shall support proper implementation of standards in the field of vessel technical requirements, including:</p> <ul style="list-style-type: none"> <li>- maintenance of quality standards and guidelines,</li> <li>- preparation of explanatory notices for the major standards or amendments,</li> <li>- deliberation on the uniform interpretation and application of the standards, including guidance for inspection bodies,</li> <li>- cooperation with international standardisation bodies,</li> <li>- facilitation of innovation by reducing administrative burden in implementation,</li> <li>- deliberation on derogations and equivalences of technical requirements for a specific craft,</li> <li>- technical guidance regarding on-shore power supply to inland vessels for ports, operators and administrations.</li> </ul>			
PT-14	To deliberate on derogations and equivalences of technical standards for specific craft	P	-
PT-15	To deliberate on the uniform interpretation and application of the standards as well as maintain quality standards, <b>instructions and FAQ</b>	P	<b>CESNI/PT (21) 44 – Com. DE</b> (examples of completion of vessel certificate with regard to the recent amendment of Chapter 4 and revision of the ESI) CESNI/PT (20)m 95, item 4.2
PT-16	To prepare explanatory notices for the major standards or amendments	P	-
PT-17	To prepare and organise the next joint meeting of the inspection bodies (as well as address remaining issues from the meeting in Vienna in 2018)	P	CESNI/PT (18)m 41 CESNI/PT (21) 44 – Com. DE (Question DE3)
PT-18	To update the lists of approved authorities, firms, installations and equipment in the field of technical requirements for inland navigation vessels (listes.cesni.eu)	P	-
PT-19	To follow the implementation of the requirements for the use of lithium-ion batteries on inland navigation vessels	III	CESNI/PT (20)m 24, item 3.11 <b>CESNI/PT (21) 46 rev. 1 – Com. FR</b>
<p>C) On priority topics regarding safe and sustainable inland navigation, and other areas of inland navigation, CESNI shall provide advice and analysis in the field of vessel technical requirements, in particular for:</p> <ul style="list-style-type: none"> <li>- the deployment of new technologies and alternative fuels,</li> <li>- the European Hull Database (EHDB),</li> <li>- the reduction of the environmental impact of inland navigation (air, noise, vibrations, and water pollutions, as well as greenhouse gases),</li> <li>- the prevention of damages and collisions,</li> <li>- accident data with a view to improving technical requirements and preventing further accidents, in close cooperation with CESNI/QP.</li> </ul>			
PT-20	To give advice and support for the development and implementation of the European Hull Database (EHDB), including possible adaptations of ES-TRIN	III	

PT-21	To make a gap analysis of ES-TRIN to support automated navigation	III	<b>CESNI/PT (21) 73</b> – Com. BE
PT-22	To examine the follow-up of the research work on human factors root causes of accidents in inland navigation: Human Machine Interface and wheelhouse design	II	CESNI/PT (21)m 22, item 3.3 CESNI/PT (20) 102 – Com. IVR/EBU/ESO/NL

## Part “Professional qualifications”

Code	Task of the CESNI work programme	Priority	Working documents
<p>A) CESNI shall <b>prepare and adopt standards</b> in the field of professional qualifications, actively promoting:</p> <ul style="list-style-type: none"> <li>- the regular revision of ES-QIN to maintain and guarantee the high level of safety in inland navigation and to follow the technical evolution,</li> <li>- the development of competence-based standards for               <ul style="list-style-type: none"> <li>o entrepreneurs, in particular for digitalisation and greening,</li> <li>o working with new and innovative technologies including the use of relevant alternative fuels, batteries and electric propulsion systems,</li> <li>o working with increasingly digitalised vessels, included automated vessels,</li> <li>o eco-navigation,</li> <li>o modern training tools, including remote learning,</li> </ul> </li> <li>- the establishment of modern manning requirements,</li> <li>- electronic tools for recording and exchanging information on crew.</li> </ul>			
QP-1	Update of ES-QIN with a view to regular revisions of ES-TRIN, ES-RIS and other regulations (e.g. in the field of cyber security, regulations from EU, IMO etc., technical standards from ISO, CEN)	P	ES-QIN 2019
QP-2	Draft standards for competence of entrepreneurs in inland navigation including green and digital skills as input for update of Directive 87/540 <sup>1</sup> after fitness check and evaluation, based on the competence-based approach developed by CESNI/QP	II	CESNI/QP (21) 33 – Com. Secr. CESNI/QP (21) 60 – Com. Secr. <b>CESNI/QP (21) 88 – Com. Secr.</b>
QP-3	Draft competence standards for new and innovative technologies including the use of relevant alternative fuels, batteries and electric propulsion systems	I	<b>CESNI/QP (21) 87 – Com. Secr.</b>
QP-4	Evaluation of research results for practical examination if need be, for new and innovative technologies including the use of relevant alternative fuels, batteries and electric propulsion systems	III	<b>CESNI/QP (21) 89 rev. 1 – Com. Secr.</b>
QP-5	New standards on simulators for new competences related to alternative energies (including LNG)	II	CESNI/QP (21) 53 – Com. NL <b>CESNI/QP (21) 90 rev. 1 – Com. Secr.</b>
QP-6	Update of competence standards and draft standards for (practical) examination for operators, OL and ML crew members as well as draft standards for simulator approval for automated vessel operation (including e.g. remote vessel operation)	III	<b>CESNI/QP (21) 69 = CESNI/PT (21) 67 = CESNI/TI (21) 53 – Com. CCNR</b>
QP-7	Update of competence standards, draft standards for (practical) examination and draft standards on simulators for the use of the track guidance assistant for inland navigation (TGAIN)	II	<b>CESNI/QP (21) 70 = CESNI/PT (21) 68 = CESNI/TI (21) 54 – Com. CCNR</b>
QP-8	Provide input for standards for eco-efficient navigation	I	<b>CESNI/QP (21) 91 – Com. Secr.</b> CESNI/QP (21) 05 rev. 2 – Com. Secr.

<sup>1</sup> Council Directive of 9 November 1987 on access to the occupation of carrier of goods by waterway in national and international transport and on the mutual recognition of diplomas, certificates and other evidence of formal qualifications for this occupation (87/540/EEC) (OJ L 322, 12.11.1987, p. 20).

			CESNI/QP (21) 42 – Com. ETF
QP-9	Development of definition of workload and development of methodology of task allocation on the basis of defined workload, e.g. workload estimation and task allocation	I	<b>CESNI/QP (21) 83 rev. 1 – Com. Secr.</b> <i>TASCS final report (CESNI/QP (19) 15), Draft roadmap for future manning regulations (CESNI/QP (21) 82)</i>
QP-10	Development of an approach to flexibility in manning requirements	I	<b>CESNI/QP (21) 86 rev. 1 – Com. Secr.</b> <i>TASCS final report (CESNI/QP (19) 15), Draft roadmap for future manning regulations (CESNI/QP (21) 82)</i>
QP-11	Draft standard for minimum requirements/tables (based on the task allocation)	I	<b>CESNI/QP (21) 51 – Com. Secr.</b>
QP-12	Draft standards for functional specifications of electronic tools for recording and exchanging information on crew	I	<b>CESNI/QP (21) 71 rev. 1 – Com. Secr.</b>
QP-13	Draft standards for technical specifications of electronic tools for recording and exchanging information on crew	II	<b>CESNI/QP (21) 71 rev. 1 – Com. Secr.</b>
QP-14	Conformance manual for testing the applications / system towards functional and technical specifications with specific consideration for data protection	III	<b>CESNI/QP (21) 71 rev. 1 – Com. Secr.</b>
QP-15	Conformance tests of developed application/Standards for type approval	III	<b>CESNI/QP (21) 71 rev. 1 – Com. Secr.</b>



<p>B) CESNI shall <b>support proper implementation of standards</b> in the field of professional qualifications, including:</p> <ul style="list-style-type: none"> <li>- maintenance of quality standards and guidelines,</li> <li>- preparation of explanatory notices for the major standards or amendments,</li> <li>- deliberation on the uniform interpretation and application of the standards.</li> </ul>			
QP-16	Maintenance of model exams OL and ML	II	<p>Model exams:  CESNI/QP (21) 20 – Com. Secr.  CESNI/QP (21) 21 rev. 1 – Com. Secr.  <b>CESNI/QP (21) 74 – Com. Secr.</b></p>
QP-17	Maintenance of guidance documents and standards outside ES-QIN e.g. practical examination on OL, basic safety training for deckhands, standard phrases, medical certificates, good practice in administration of certificates etc.	II	<b>CESNI/QP (21) 74 – Com. Secr.</b>
QP-18	Collection of good practices with regard to a European sectoral covenant and consultant	II	CESNI/QP (21) 42 – Com. ETF <b>CESNI/QP (21) 76 rev. 1 – Com. ETF</b>
QP-19	Setting up and support for a European Database of multiple-choice questions for the management level (ML)	I	<b>CESNI/QP (21) 73 – Com. Secr.</b>
QP-20	Meeting of exam commissions and trainers in approved training programmes (every 3 years)	P	CESNI/QP (21)a 66 – Com. Secr. <b>CESNI/QP (21) 79 – Com. Secr.</b>
QP-21	Collection of good practices for the use of lesson material to implement ES-QIN	II	<b>CESNI/QP (21) 85 rev. 1 – Com. MAH</b>
QP-22	Collection of good practices for the (digital) use of European training record book	II	<b>CESNI/QP (21) 80 rev. 1 – Com. CERONAV</b>
QP-23	Explanatory notices for important new standards and guidance documents and for major amendments of such documents	P	
QP-24	Interpretation of ES-QIN (e.g. via FAQs) and exchange on uniform application of standards and guidance documents	P	

C) On priority topics regarding safe and sustainable inland navigation, and other areas of inland navigation, CESNI shall **provide advice and analysis** in the field of professional qualifications, in particular for:

- the European Crew Database (ECDB),
- concepts for refresher classes for crew members in the areas of digitalisation and greening of the fleet.

QP-25	Advice for ECDB: Support the evolution of the ECDB by collecting user experiences / feedback and by feeding it in a structured way into the improvement of the ECDB	I	<b>CESNI/TI (21) 51 – Com. Secr.</b>
QP-26	Advice for refresher classes	III	<b>CESNI/QP (21) 92 – Com. Secr.</b>

## Part “Information technologies”

	Task of the CESNI work programme	Priority	Regulation / Standards
<p>A) CESNI shall prepare and adopt standards in the field of information technologies, actively promoting:</p> <ul style="list-style-type: none"> <li>- the regular revision of ES-RIS to maintain and guarantee the high level of safety in inland navigation, to follow the technical evolution and to facilitate the integration of IWT in the logistic chains and dematerialisation of transport documents,</li> <li>- the digitalisation of IWT, including automated vessels, taking into account e.g. cybersecurity and data protection aspects,</li> <li>- electronic tools for recording and exchanging information on crew and vessels.</li> </ul>			
TI-1	Revision of the inland ECDIS parts of ES-RIS, taking into account – if available – the new S401 standard	II	<b>CESNI/TI (21) 37 – Com. Chair CESNI/TI/IECDIS</b>
TI-2	Prepare the integration in ES-RIS of validation checks for the inland Electronic Navigational Charts	I	<b>CESNI/TI (21) 37 – Com. Chair CESNI/TI/IECDIS</b>
TI-3	Prepare an analysis of the current modes of inland ECDIS and propose, if relevant, to develop in ES-RIS a new mode “information plus”	I	<b>CESNI/TI (21) 37 – Com. Chair CESNI/TI/IECDIS</b>
TI-4	Prepare the integration of the visualization of AIS Aids to navigation (AIS AtoN) and AIS application-specific messages (ASM) into the inland ECDIS part of ES-RIS	I	<b>CESNI/TI (21) 37 – Com. Chair CESNI/TI/IECDIS</b>
TI-5	Prepare a revision of the ERI part of ES-RIS	II	<b>CESNI/TI (21) 40 – Com. Chair CESNI/TI/ERI</b>
TI-6	Preliminary draft for an ERI Test Standard (focused on ERINOT message)	I	<b>CESNI/TI (21) 40 – Com. Chair CESNI/TI/ERI</b>
TI-7	Draft a proposal for a transition from EDIFACT to XML in the ERI part of ES-RIS	I	<b>CESNI/TI (21) 40 – Com. Chair CESNI/TI/ERI</b>
TI-8	Draft amendments to the Part VTT and test Standard for Inland AIS of ES-RIS	II	<b>CESNI/TI (21) 43 – Com. Chair CESNI/TI/VTT</b>

TI-09	Draft a proposal for a test standard for AIS Application Specific Messages (ASM)	I	<b>CESNI/TI (21) 43 – Com. Chair CESNI/TI/VTT</b>
TI-10	Draft a proposal for a test standard for AIS Aids to Navigation Report Messages (AIS AtoN)	I	<b>CESNI/TI (21) 43 – Com. Chair CESNI/TI/VTT</b>
TI-11	Prepare a revision of the NtS part of ES-RIS	II	<b>CESNI/TI (21) 44 – Com. Chair CESNI/TI/NtS</b>
TI-12	Draft a proposal to update the NtS XSD and Web Service Specification	I	<b>CESNI/TI (21) 44 – Com. Chair CESNI/TI/NtS</b>
TI-13	Draft a proposal to update the NtS Encoding Guide	I	<b>CESNI/TI (21) 44 – Com. Chair CESNI/TI/NtS</b>
TI-14	Draft a proposal to update the NtS Reference Tables	I	<b>CESNI/TI (21) 44 – Com. Chair CESNI/TI/NtS</b>
TI-15	Prepare technical specifications for data for navigation and voyage planning	I	<b>CESNI/TI (21) 34 – Com. EC (DG MOVE)</b>
TI-16	Possible requirements and recommendations relating to centres for the remote control and supervision of vessels (technical aspects, matters relating to communication and the professional qualifications of personnel)	III	<b>CESNI/TI (21) 53 = CESNI/PT (21) 67 – Com. CCNR</b>
TI-17	Definition of minimum requirements / recommendations applicable to the technical design of the track guidance assistant for inland navigation (TGAIN), to the training of TGAIN users, and to equipment connected to the TGAIN	II	<b>CESNI/TI (21) 54 = CESNI/PT (21) 68 – Com. CCNR</b>

B) CESNI shall support proper implementation of standards in the field of RIS and other fields of information technologies, including:

- maintenance of quality standards and guidelines,
- preparation of explanatory notices for the major standards or amendments,
- deliberation on the uniform interpretation and application of the standards,
- the maintenance of the quality of the data in databases of particular importance for IWT,
- collection of information on the implementation of RIS.

TI-18	Update the AIS installation guidelines following the evolution of ES-TRIN Annex 5	II	<b>CESNI/TI (21) 43 – Com. Chair CESNI/TI/VTT</b>
TI-19	Examine the opportunity to draft guidelines on ASM and AIS AtoN	I	<b>CESNI/TI (21) 43 – Com. Chair CESNI/TI/VTT</b>
TI-20	Maintenance of quality standards, in particular for terminology and normative references, including their publication and communication	P	<b>CESNI/TI (21) 46 corr.1 – Com. Secr.</b>
TI-21	Develop harmonised procedures for managing and maintaining the quality of the (reference) data required by standards in inland navigation and their management through IT systems of particular importance for inland navigation	II	<b>CESNI/TI (21) 47 - Com. EC (DG MOVE)</b>
TI-22	Based on a preliminary examination of the GDPR develop guidelines for the effective implementation of personal data protection measures in conjunction with data exchange standards for IWT in Europe	I	<b>CESNI/TI (21) 55 – Com. Secr.</b>

C) On priority topics regarding safe and sustainable inland navigation, and other areas of inland navigation, CESNI shall provide advice and analysis in the field of information technology, in particular for:

- the European Reference Data Management System (ERDMS),
- initiatives on digital tools in inland navigation and gradual introduction of electronic documents,
- the update of the technical frameworks for RIS.

TI-23	Analyse the impact of new technical developments on the VTT part of ES-RIS	III	<b>CESNI/TI (21) 43 – Com. Chair CESNI/TI/VTT</b>
TI-24	Prepare a draft for a good practice guide for Cybersecurity onboard ships and in inland ports	I	<b>CESNI/TI (21) 64 – Com. IWT Platform</b>
TI-25	Provide advice and analysis on the possible revision of the RIS guidelines as defined by Commission Regulation (EC) no. 414/2007 on the basis of the RIS Guidelines (edition 5.0) developed by PIANC)	II	<b>CESNI/TI (21) 49 – Com. Secr.</b>
TI-26	Provide advice and analysis to support policy initiatives on digital tools in inland navigation	P	<b>CESNI/TI (21) 51 – Com. Secr.</b>
TI-27	Promoting the further integration of inland navigation into the logistics chains by identifying and implementing requirements for interfaces between RIS systems and systems of those involved in the processes	I	<b>CESNI/TI (19) 18 = CESNI (19) 50 – Com. Secr. CESNI/TI (21) 50 – Com. Secr</b>
TI-28	In close cooperation with the working groups CESNI/PT and CESNI/QP, collect the best practices related to the introduction of electronic documents (including organisation of a dedicated workshop), provide analysis and give recommendations on the gradual implementation of electronic documents in the inland navigation sector	I	<b>CESNI/TI (19) 18 = CESNI (19) 50 – Com. Secr.</b>
TI-29	Analysis of ES-RIS to identify obstacles and required additions to enable the development of safe automated navigation.	III	<b>CESNI/TI (21) 62 – Com. BE</b>
TI-30	Impact assessment of eFTI on the ERI part of ES-RIS	I	<b>CESNI/TI (21) 35 – Com. Chair CESNI/TI/ERI</b>

### Part “General matters”

Code	Task of the CESNI work programme	Priority
AG-1	Possible revision of the CESNI Rules of Procedure <i>(Regarding the Rules of Procedure: Any proposed revision would need to be submitted to the CCNR.)</i>	P
AG-2	Follow-through and contribution to the Committee’s communication activities, with a view to ensuring the effective distribution of information on the CESNI’s activities and strengthening the level of acceptability and appropriation of the standards	P
AG-3	Collection of feedback and recommendations on innovative projects in inland navigation and requirements with regard to associated standards, to be used in preparing the CESNI’s future work programme beyond 2021	P
AG-4	Definition of a harmonised methodology for accident data collection in Europe	P

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