



Smart Ecomine Hub: Standardization Working Group

Introduction

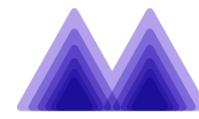
Within task 5.5 of **Mastermine project**, “Clustering with the EU mining R&I community and **Standardization**”, **ITA** oversees the work towards Standardization of the project by monitoring relating Standards and making suggestion to improve.

Schedule

 ITA Instituto Tecnológico de Aragón	Introduction	9:30 - 9:35
 mastermine		9:35 - 9:55
 MINE.IO		9:55 - 10:15
 DINAMINE		10:15 - 10:35
 NETHELIX		10:35 - 10:55
	Questions-Discussion	11:00 – 12:00



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1. *METHODOLOGY*
2. *FIRST ACTIONS*
3. *REGISTRATION IN TECHNICAL COMMITTEES*
4. *ESTABLISHMENT OF A WORKGROUP*
5. *MONITORIZATION OF RELATING STANDARDS. WORKFLOW*
6. *EXAMPLE*
7. *NEXT ACTIONS*

1. Methodology



- Contacting Consortium
- Build panel of Standards
- Studying ISO/TCs
- Registration in TCs
- Reviewing the methodology
- Establishment of a workflow
- Launching the WSI
- **Monitoring Standards**
- **Notifying partners**
- **Making suggestions to improve**

2. First Actions

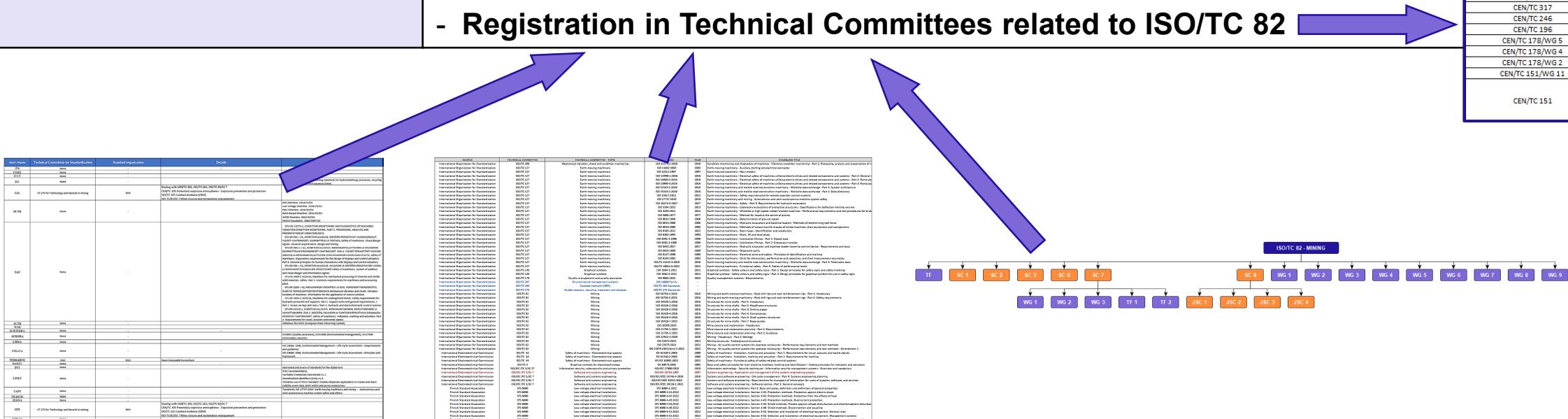
EXPLORATION

Topic of Action	Actions	Lead Partner
MONITORING RELATING STANDARDS AND MAKING SUGGESTION TO IMPROVE	<ul style="list-style-type: none">- Contact Consortium to check their belonging to National and/or European Technical Committees for Standardization concerning MASTERMINE	ITA
	<ul style="list-style-type: none">- Contact Consortium to build the panel with the Standards to be used in every MASTERMINE module	ITA
	<ul style="list-style-type: none">- Collect the Standards to be monitored, at least ISO/TC 82 , and study this Technical Committee	ITA

3. Registration in Technical Committees

PREPARATION

Topic of Action	Actions
MONITORING RELATING STANDARDS AND MAKING SUGGESTION TO IMPROVE	<ul style="list-style-type: none"> - Contact Consortium to check their belonging to National and/or European Technical Committees for Standardization concerning MASTERMINE - Contact Consortium to build the panel with the Standards to be used in every MASTERMINE module - Collect the Standards to be monitored, at least ISO/TC 82 , and study this Technical Committee - Registration in Technical Committees related to ISO/TC 82 



4. Establishment of a Workgroup

PREPARATION

Relate each TC with the reference topic:

TECHNICAL COMMITTEE (TC/SC)	TECHNICAL COMMITTEE	STANDARD	TOPIC
ISO/TC 82/SC 8	Mining - Advanced automated mining systems	ISO/TC 82/SC 8 Standards	Advanced automated mining systems
ISO/TC 82/SC 7	Mining - Mine closure and reclamation management	ISO 20305:2020	Mine closure and reclamation management
ISO/TC 82/SC 7		ISO 20305:2020	Terminology and vocabulary
ISO/TC 82			and equipment
ISO/TC 82			shafts
ISO/TC 82			cabulary
ISO/TC 82			and equipment
ISO/TC 82			shafts
ISO/TC 82			Family of Standards
ISO/TC 82	TECHNICAL COMMITTEE (TC/SC)	TECHNICAL COMMITTEE	TOPIC
	ISO/TC 82/SC 8	Mining - Advanced automated mining systems	Advanced automated mining systems
	ISO/TC 82/SC 7	Mining - Mine closure and reclamation management	Mine closure and reclamation management
	ISO/TC 82	Mining	Terminology and vocabulary
	ISO/TC 345	Specialty metals and minerals	Structure for mine shafts
	ISO/TC 298	Rare earth	Metals and minerals
	ISO/TC 27/SC 5	Coal and coke: Methods of analysis	Metals and minerals
	ISO/TC 27/SC 4	Coal and coke: Sampling	Coal and coke
	ISO/TC 27/SC 3	Coke	Coal and coke
	ISO/TC 27/SC 1	Coal preparation: Terminology and performance	Coal and coke
	ISO/TC 27	Coal and coke	Coal and coke
	ISO/TC 183	Copper, lead, zinc and nickel ores and concentrates	Metals and minerals
	ISO/TC 127/SC 4	Earth-moving machinery - Terminology, commercial nomenclature, classification and ratings	Terminology and vocabulary
	ISO/TC 127/SC 3	Earth-moving machinery - Machine characteristics, electrical and electronic systems, operation and maintenance	Electrical and Electronic Systems of Earth-moving machinery
	ISO/TC 127/SC 2	Earth-moving machinery - Safety, ergonomics and general requirements	Safety - Earth-moving machinery
	ISO/TC 127/SC 1	Earth-moving machinery - Test methods relating to safety and machine performance	Machine performance and specifications
	ISO/TC 127	Earth-moving machinery	Machine performance and specifications
	ISO/TC 263	Coalbed methane (CBM)	Terminology and vocabulary
	CEN/TC 321/WG 6	Explosives and propellants	Electrical and Electronic Systems of Earth-moving machinery
	CEN/TC 321/WG 4	Detonators and relays	Safety - Earth-moving machinery
	CEN/TC 321	Explosives for civil uses	Metals and minerals
	CEN/TC 317	Derivatives from coal pyrolysis	Explosives
	CEN/TC 246	Natural stones	Explosives
Earth-moving machinery	CEN/TC 196	Mining machinery and equipment - Safety	Explosives
Earth-moving machinery	CEN/TC 178/WG 5	Tactile Paving	Earth-moving machinery
Earth-moving machinery	CEN/TC 178/WG 4	Test methods for simulation of ageing of pavers by polishing	Earth-moving machinery
Earth-moving machinery	CEN/TC 178/WG 2	Natural stone products	Earth-moving machinery
Earth-moving machinery	CEN/TC 151/WG 11	Machines and plants for mining and tooling of natural stone - Safety	Machines for mineral processing
Earth-moving machinery	CEN/TC 151	Construction equipment and building material machines - Safety	Machine performance and specifications
Earth-moving machinery			Safety - Earth-moving machinery
Earth-moving machinery			Machines for mineral processing
Earth-moving machinery			Electrical and Electronic Systems of Earth-moving machinery
ISO/TC 127/SC 3			Earth-moving machinery - Machine characteristics, electrical and electronic systems, operation and maintenance
ISO/TC 127/SC 3			Earth-moving machinery - Machine characteristics, electrical and electronic systems, operation and maintenance

4. Establishment of a Workgroup

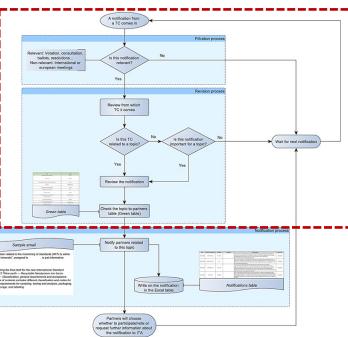
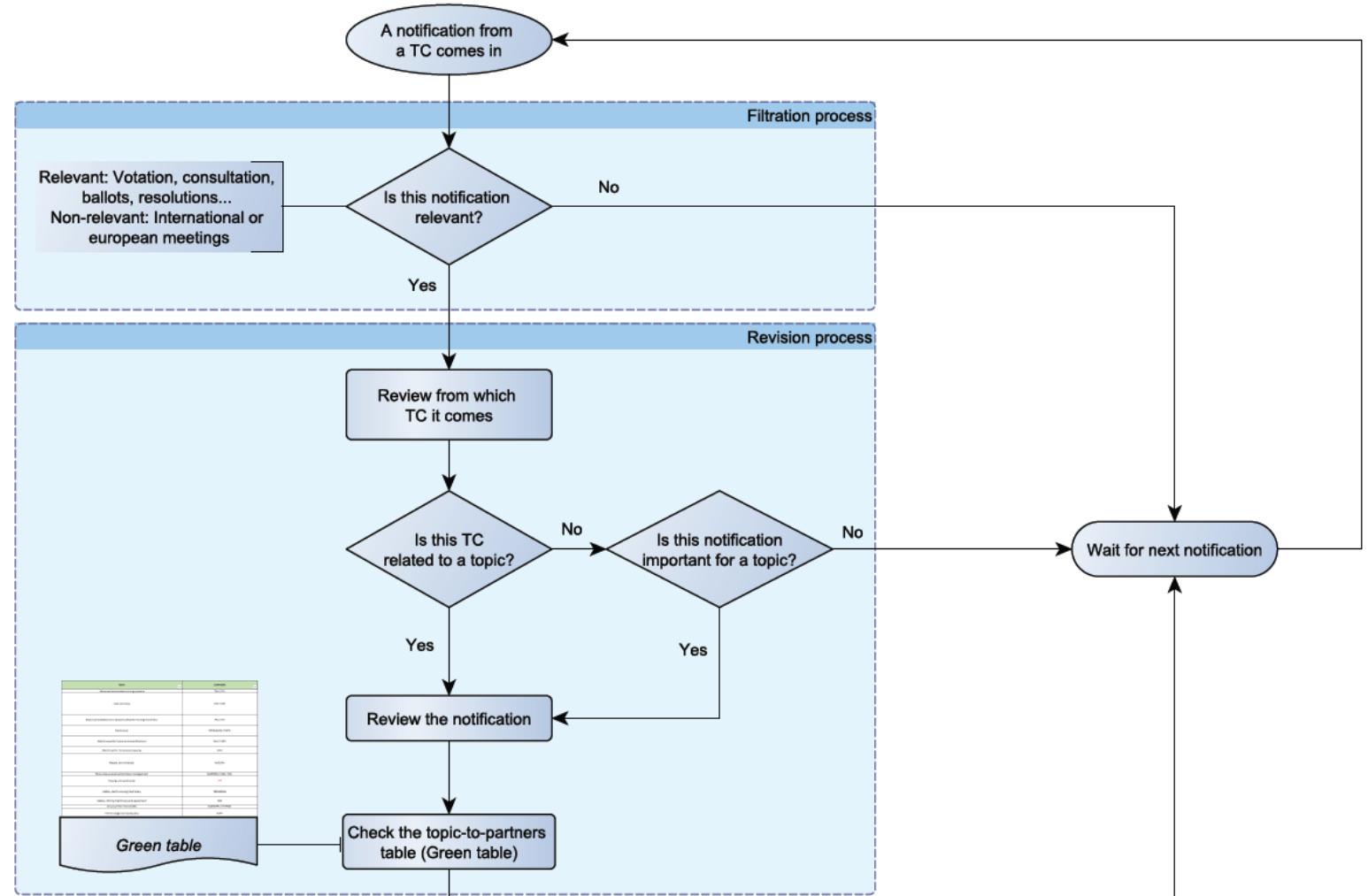
WORKGROUP FOR STANDARDIZATION ISSUES

Relate each reference topic to a partner according to the expertise and “launch the Workgroup”:

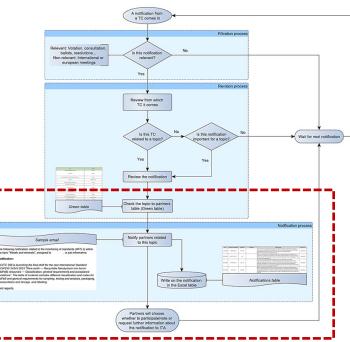
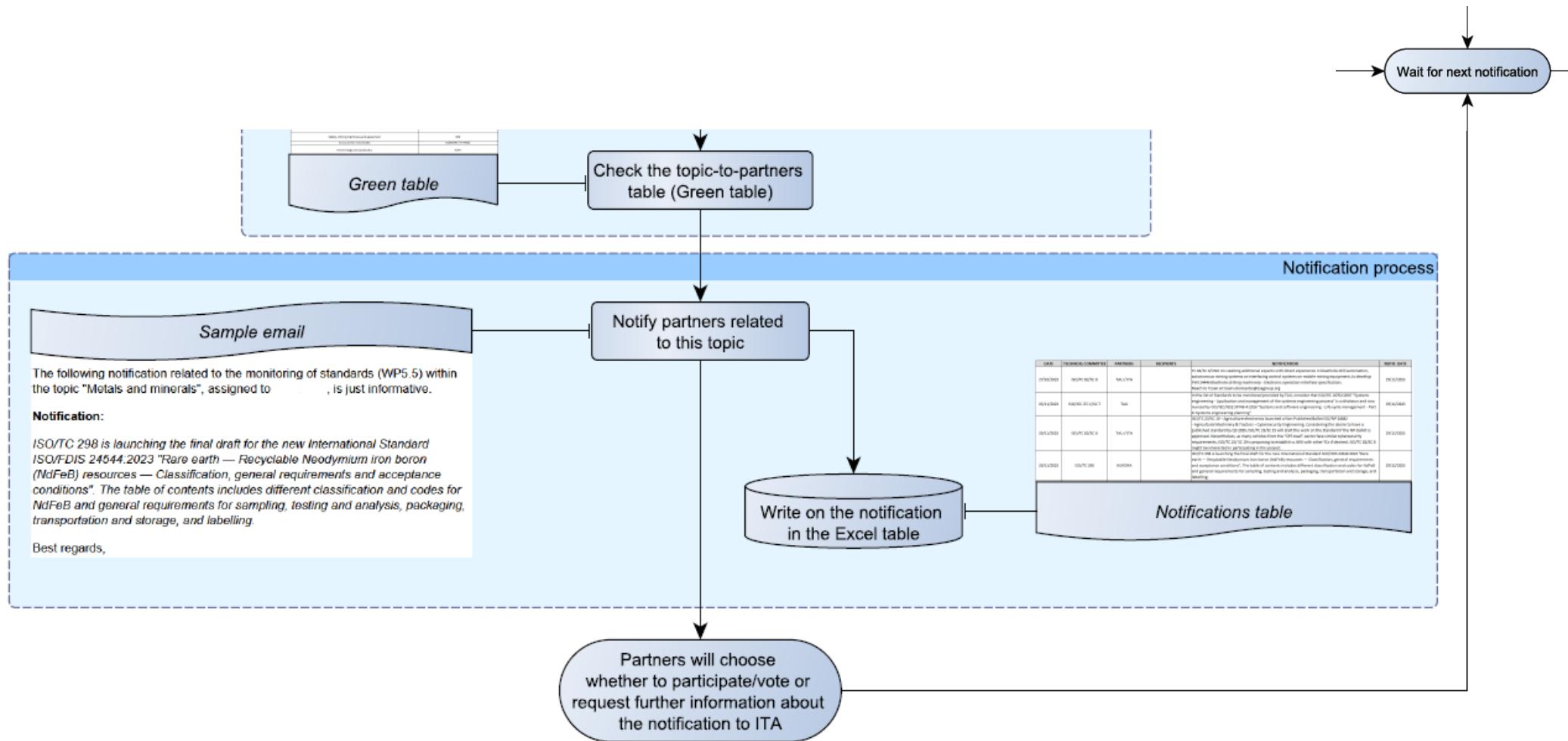
--- Workgroup for standardization issues ---			
TOPIC	PARTNERS	CONTACT	NOTIFY
Advanced automated mining systems	TAU / ITA	mtlazaro@ita.es, imontano@ita.es, jussi.altonen@tuni.fi	
Coal and coke			
Electrical and Electronic Systems of Earth-moving machinery			
Explosives			
Machine performance and specifications			
Machines for mineral processing			
Metals and minerals			
Mine closure and reclamation management			
Paving units and kerbs			
Safety - Earth-moving machinery			
Safety - Mining machinery and equipment			
Structure for mine shafts			
Terminology and vocabulary	AUTH	vpsomiadis@csd.auth.gr, mfoumelis@geo.auth.gr	

CHOOSE CTN/SC/WG →	CEN/TC 151
	ISO/TC 82
	ISO/TC 345
	ISO/TC 298
	ISO/TC 27/SC 5
	ISO/TC 27/SC 4
	ISO/TC 27/SC 3
	ISO/TC 27/SC 1
	ISO/TC 27
	ISO/TC 183
	ISO/TC 127/SC 4
	ISO/TC 127/SC 3

5. Monitorization of relating standards. Workflow



5. Monitorization of relating standards. Workflow



5. Monitorization of relating standards. Workflow

Throughout this year 2025: 19 notifications sent from 140 notifications received
20% of Useful Notifications compared to the previous 6%

Reason: the partners' interests have been adjusted

After sending a notification, we log it on the “notifications table”:

51	21/02/2025	ISO/TC 127/SC 4	AUTH / ITA	Terminology and vocabulary	This notification is related to notification #27 dated 2024-12-17: ISO/CD 7334 "Earth-moving machinery — Vocabulary and taxonomy for automation and autonomy" has been registered for the last stage, Standard under publication (Stage 60.00). As told on notification #27, this ISO Standard will probably be published on Target date, March 17, 2025; limit date June. Nevertheless, as members of this TC, we have access to the French version of this Standard.	10/03/2025
52	25/02/2025	CEN/TC 477	MASTERMINE PROJECT	Sustainable production of mineral and metal raw materials	Considering the requirements in CEN-CENELEC Guide 25 'The concept of partnership with European organizations and other stakeholders' and following the first positive assessment by CCMC, members of CEN/TC 477 have approved the participation of Euromines as liaison to CEN/TC 477 with seven (7) votes in favor, twelve (12) abstentions, and none (0) against.	10/03/2025
53	02/03/2025	ISO/TC 127/SC 2	TERNAMAG / ITA	Safety - Earth-moving machinery; and Autonomy and automation	This notification is related to notification #32 dated 2024-12-5 about ISO/PWI 6135 "Earth-moving machinery - Safety of the intended functionality" is now on stage 10.20, new project ballot initiated. This document will establish general principles for the development and evaluation of the safety of the intended functionality (SOTIF) for earth-moving machinery (EMM) as defined in ISO 6165. This document will be applicable to levels of autonomy and automation from L1 to L5 as defined in ISO/DIS 7334 "Earth-moving machinery — Vocabulary and taxonomy for automation and autonomy" - PENDING OF PUBLICATION (March-June 2025). Therefore, 14 in favour out of 15 members have voted to pass this Preliminary Work Item (PWI) to the next stage, Working Draft (WD) and 100% have decided that Stakeholders consultation is the most important part to draw up this Standard.	10/03/2025
2025	MARCH 2025 SUMMARY: 141 Emails received --> 94 Useful Emails; 19 Notifications sent --> 20% Useful Notifications					
2023-2025	OCTOBER 2023 - MARCH 2025 SUMMARY: 973 Emails received --> 646 Useful Emails; 53 Notifications sent --> 8% Useful Notifications ===== Increase of 6 to 8% (30% more useful notifications)					

6. Example

Checking the “green table”

E-mail received:

Relacionado CEN comités

CEN/TC 151 - Construction equipment and building material machines - Safety

[Ver todos los documentos en línea](#)

para información

N	Documento
0	Votación > Resultado de la votación CEN/TC 151/WG 12 - Future of published standards - Result of voting
0	Votación > Resultado de la votación CEN/TC 151/WG 10 - Future of published standards - Result of voting

--- Workgroup for standardization issues ---			
TOPIC	PARTNERS	CONTACT	NOTIFY
Advanced automated mining systems	TAU / ITA	mtlazaro@ita.es, lmontano@ita.es, jussi.altonen@tuni.fi	
Coal and coke	JSW / GIG	sswaczyna@jsw.pl, mawenglorz@jsw.pl, awrana@gig.eu	
Electrical and Electronic Systems of Earth-moving machinery	TAU / ITA	mtlazaro@ita.es, lmontano@ita.es, jussi.altonen@tuni.fi	▶
Explosives	TERNAMAG / TAPO	gtsoupas@ternamag.com, kgatos@ternamag.com, Markus.partanen@tapojarvi.fi, seppo.ahola@tapojarvi.fi	▶
Machine performance and specifications	TAU / TAPO	jussi.altonen@tuni.fi, Markus.partanen@tapojarvi.fi, seppo.ahola@tapojarvi.fi	▶
Machines for mineral processing	ICCS	andreas.mourelatos@iccs.gr	▶
Metals and minerals	AURORA	kostas.botsialas@aurora-geo.com	
Mine closure and reclamation management	SUBTERRA / GIG / JSW	awrana@gig.eu, sswaczyna@jsw.pl, mawenglorz@jsw.pl, subterra, gvaquero@systra.com	
Paving units and kerbs	???	???	
Safety - Earth-moving machinery	TERNAMAG	gtsoupas@ternamag.com, kgatos@ternamag.com	▶
Safety - Mining machinery and equipment	GIG	awrana@gig.eu	
Structure for mine shafts	SUBTERRA / THARSIS	gvaquero@systra.com, felix.carnero@tharsismining.com, manuel.sevilla@tharsismining.com	
Terminology and vocabulary	AUTH	vpsomiadis@csd.auth.gr, mfoumelis@geo.auth.gr	

CHOOSE
CTN/SC/WG --> CEN/TC 151

6. Example

E-mail received:

Relacionado CEN comités

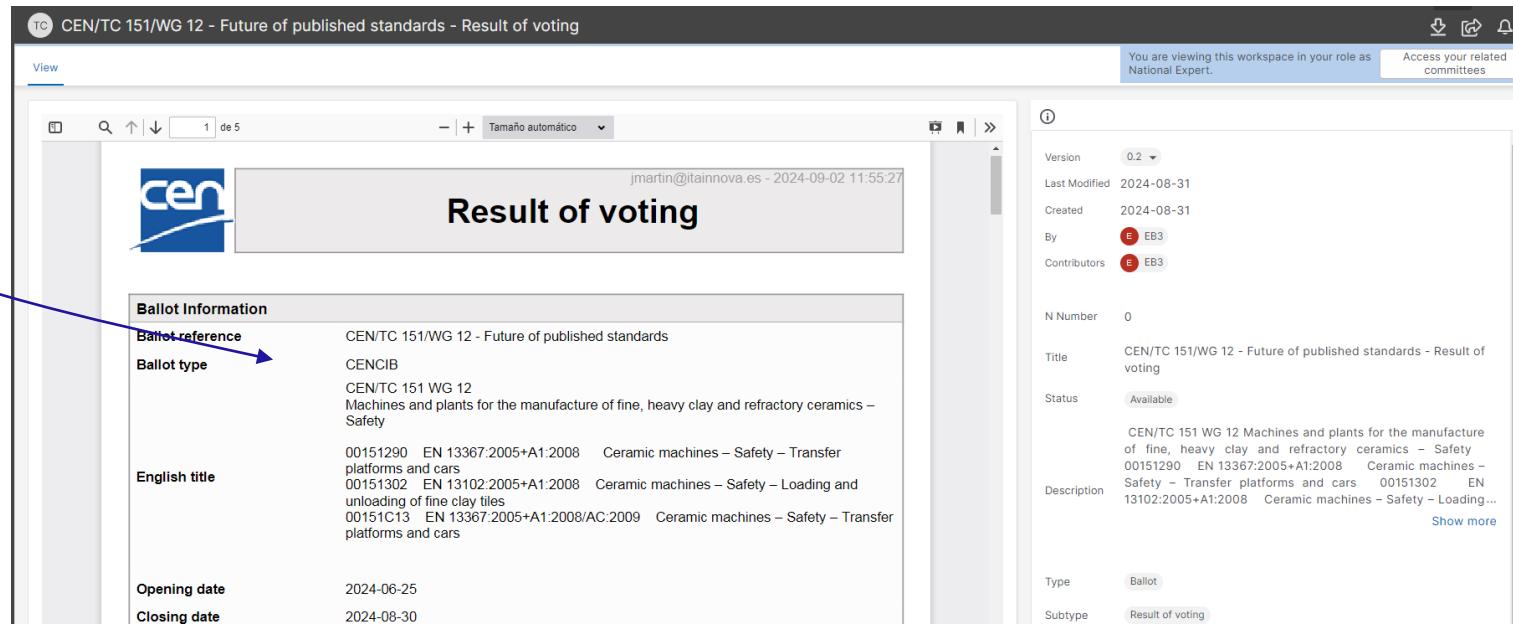
CEN/TC 151 - Construction equipment and building material machines - Safety

[Ver todos los documentos en línea](#)

para información

N	Documento	Proyecto relacionado (si el gestor del comité así lo ha indicado)
0	Votación > Resultado de la votación CEN/TC 151/WG 12 - Future of published standards - Result of voting	Votación: CEN/TC 151/WG 12 - Future of published standards
0	Votación > Resultado de la votación CEN/TC 151/WG 10 - Future of published standards - Result of voting	Votación: CEN/TC 151/WG 10 - Future of published standards

Checking the notification



TC CEN/TC 151/WG 12 - Future of published standards - Result of voting

View

1 de 5

Result of voting

jmartin@itainnova.es - 2024-09-02 11:55:27

Ballot Information

Ballot reference	CEN/TC 151/WG 12 - Future of published standards
Ballot type	CENCIB CEN/TC 151 WG 12 Machines and plants for the manufacture of fine, heavy clay and refractory ceramics – Safety
English title	00151290 EN 13367:2005+A1:2008 Ceramic machines – Safety – Transfer platforms and cars 00151302 EN 13102:2005+A1:2008 Ceramic machines – Safety – Loading and unloading of fine clay tiles 00151C13 EN 13367:2005+A1:2008/AC:2009 Ceramic machines – Safety – Transfer platforms and cars
Opening date	2024-06-25
Closing date	2024-08-30

You are viewing this workspace in your role as National Expert. Access your related committees

Version 0.2

Last Modified 2024-08-31

Created 2024-08-31

By EB3

Contributors EB3

N Number 0

Title CEN/TC 151/WG 12 - Future of published standards - Result of voting

Status Available

Description CEN/TC 151 WG 12 Machines and plants for the manufacture of fine, heavy clay and refractory ceramics – Safety
00151290 EN 13367:2005+A1:2008 Ceramic machines – Safety – Transfer platforms and cars
00151302 EN 13102:2005+A1:2008 Ceramic machines – Safety – Loading and unloading of fine clay tiles
00151C13 EN 13367:2005+A1:2008/AC:2009 Ceramic machines – Safety – Transfer platforms and cars

Show more

Type Ballot

Subtype Result of voting

6. Example

E-mail received:

Relacionado CEN comités

CEN/TC 151 - Construction equipment and building material machines - Safety

[Ver todos los documentos en línea](#)

para información

N	Documento	Proyecto relacionado (si el gestor del comité así lo ha indicado)
0	Votación > Resultado de la votación CEN/TC 151/WG 12 - Future of published standards - Result of voting	Votación: CEN/TC 151/WG 12 - Future of published standards
0	Votación > Resultado de la votación CEN/TC 151/WG 10 - Future of published standards - Result of voting	Votación: CEN/TC 151/WG 10 - Future of published standards

E-mail sent:

Asunto: [MASTERMINE] WP5.5 Standardisation - Notifications

Good morning,

The following notifications related to the monitoring of standards (WP5.5) within the topic "Safety: Earth-moving machinery; and Mining machinery and equipment" are assigned to TERNAMAG / GIG. Sorry this Committee related to your topic has been so diligent lately.

Notification 1:

The next project, EN 12096:1997 "Mechanical vibration - Declaration and verification of vibration emission values", is an important standard in context of the Machinery Directive (EU) 2023/1230 and must therefore be brought up to date. For this reason, a PWI (Preliminary Work Item) has been activated. Due to comments from Systematic Review and new requirements in the (EU) 2023/1230 a revision is needed, though the scope will not change. Topics to be discussed - most of them in Annex B:

- Declaration of new requirement shocks
- Clarification of values for whole body vibration

The stakeholder categories immediately affected by the proposal are: Industry and commerce, SMEs and Labour. The target dates for the below key stages are: 10.99: 2024-09-20; 20.60: 2025-01-17; 30.99: 2025-05-16; 45.99: 2026-07-03.

#	DATE	TECHNICAL COMMITTEE	PARTNERS	TOPIC	RECIPIENTS	NOTIFICATION	NOTIF. DATE	FEEDBACK
26	31/08/2024	CEN/TC 151	TERNAMAG / GIG	Safety: Earth-moving machinery; and Mining machinery and equipment	gtsoupas@ternamag.com, kgatos@ternamag.com, awrana@gig.eu	<p>CEN/TC 151 took the next decision about the future of published standards within WG 10:</p> <p>- Machines and plants for the production of stones, slabs, pipes, prefabricated elements of concrete and calcium-silicate – Safety. Standards EN 12629-4:2001+A1:2010, EN 12629-5-1:2003+A1:2010, EN 12629-5-2:2003+A1:2010, N 12629-5-3:2003+A1:2010, N 12629-5-4:2003+A1:2010, EN 12629-7:2004+A1:2010, EN 12629-8:2002+A1:201</p> <p>The above mentioned standards have been published between 2002 and 2004 and have been updated (only Annex ZA) in 2010. The corresponding working group 10 has been disbanded now for several years and no expertise is available anymore. It must be decided now, whether or not these standards have to undergo the "GAP" analysis in order to check the relevance of the newly improved or modified requirements by the Machinery Product regulation. For that reason, the CEN/TC 151 took the following decision at their last plenary meeting in June:</p> <p>DECISION 1089 taken by CEN/TC 151 on 2024-06-06 Subject: CEN/TC 151/WG 10 – GAP analysis for the EN 12629 series of standards CEN/TC 151 Construction equipment and building material machines – Safety, - decides to launch a CIB for all parts of the standard proposing their withdrawal making it clear that if there are no objections, the withdrawal process will be started. The decision was taken by unanimity. Therefore all member bodies are requested to check carefully, whether or not the standards can be withdrawn. In case, the standards are still being used, the member body/bodies which are using the standard(s) will be requested to perform the GAP analysis together with their stakeholders,</p> <p>The standards will probably NOT be withdrawn due to the fact that the result of the votation was 2-2 (18 abstentions).</p>	02/09/2024	

7. Next Actions

Topic of Action	Actions
MONITORING RELATING STANDARDS AND MAKING SUGGESTION TO IMPROVE	<ul style="list-style-type: none">- Monitoring Standards from ISO/TC 82 and ISO/TC 127 related to the topics of interest- Notifying partners about changes in the Standards related to their topics of interest- <u>When the pilots start, MAKING SUGGESTIONS TO IMPROVE STANDARDS</u>

Thank you for your attention!

Any questions?

