



N° 175 – July & August 2026

**"Just because there's tarnish on the copper, doesn't mean
there's not a shine beneath"**

Laurence Yep

EUROPEAN METALS HEALTH, ENVIRONMENT & CHEMICALS NEWS

What the HEC?!

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Dear All,

Here we are: our first 'What the HEC!' edition.

It comes after a long series of Chemicals Management- and REACH News releases, originally designed as a 'quick communication tool' to complement the update emails on REACH learnings, which progressively transmuted into overviews of 'what happened in the ECHA, Commission and European Metals forums last month', and also introduced the now unavoidable 'visibility' touch. Where has your staff been, what have we been doing? What did we face and experience? (note that the latter fits in nicely with the 'what the HEC/heck!' expression?)

The chemicals department was renamed over the summer to make it more obvious what its activities entail. Health – Environment – Chemicals: the selected words aim at referring to protection, legislation, knowledge, objectives, ...

Consequently, the name of this newsletter has changed as well.

However, the challenge for its contributors remains the same!

Among others: summarising the key elements of an issue the reader needs to be informed about; highlighting in a paragraph what may require monitoring or actions; describing today and anticipating tomorrow; identifying concerns or to the contrary, supporting or celebrating the work done by the sector; playing with the tone and length of the text, to trigger and maintain the reader's interest; being exhaustive without becoming boring.

Undoubtedly, this encounters variable successes!

And remaining at that level, it is a continuous test to find and compile the most appropriate words. A timing challenge too.

Even if Ailsa reminds us during the third week of the month about the deadline to provide our contributions; inevitably, we send them in at the last second, completely forgetting last month's resolution to be in time to have the time.

And I see eyes squinting towards the AI...

Because indeed, one could wonder whether reflecting and choosing 'manually' one's words still serves any purpose in the age of automatic language production? Would it not be resources- and time saving to generate the content and simply refine it?

Maybe...

But we will most probably lose further capacity in the longer term.

In the current context, where we see that debates have the potential to become heated on virtually every subject, that interpretations and agendas polarise the outcomes, the choice of the words we use is crucial.

And hence, training to search for the right expression is not a waste of time or effort.

Striving to attain Boileau's maxim "What is well conceived is clearly expressed" is more than ever relevant.

And more than ever it is important to (continue) exercising.

Within and outside chemicals management work.

As we must also continue to rack our brains when trying to find the right words to offer comfort, to write a farewell speech, to offer friendly advice, and to console.

Hence a big thank you to all the contributors of these 175 -and more to come- editions of the newsletter but also an admission of my (guilty) pleasure in watching them reflect on their writing, trying to unravel it (and sometimes, I imagine, cursing me 😊).

Violaine Verougstraete

COMMISSION & COUNCIL

CARACAL-58: no revelations on REACH

The 58th edition of CARACAL took place in hybrid format on 1-2 July and was attended in-person by European Metals. Ahead of the meeting, many stakeholders had hoped to gain further clarity on the future of the REACH Revision, however, the Commission was not in a position to share any information beyond the messages that were already conveyed during the ENV council meeting on 25 June.

Discussions at CARACAL touched upon talc, which remains an interesting file for the wider Poorly-Soluble Low Toxicity (PSLT) debate, including possible future work on particles and consideration of an expert group within ECHA. On strontium salts, industry presented additional bioelution data supporting differences in the bioavailability of the Sr ion and indicated that further information will be submitted. Other topics included the future More than one Constituent (MoCs) subgroup and plant extracts, the Chemicals Omnibus and the revised implementation timelines under the six-month "stop-the-clock" mechanism, ECHA's consultation on reprotoxicity and dose-setting advice, and a new enforcement initiative targeting suspected non-compliance with harmonised classifications under CLP. An interesting discussion also took place on potential inconsistencies between REACH Article 33 requirements and future Digital Product Passport requirements under the Ecodesign for Sustainable Products Regulation (ESPR), while the Commission also presented an updated Restrictions Roadmap and rolling list, which we will continue to monitor closely.

The full report and relevant documents were shared with the CARACAL Taskforce and HEC Steering Committee (more information: [Sophia Verbrugghe](#)).

EUROPEAN METALS HEALTH, ENVIRONMENT & CHEMICALS

European Metals and HEC: starting activities

The department provided a status update on the chemicals management activities and policy priorities listed in EM's 2026 strategic plan during the General Assembly held on the 1st of July. This was complemented by the identification of strategic trends -and associated expertise needs- that will potentially impact on the license to operate and market access of our sector in the coming years. For example: e.g., the use by authorities of restrictions and emission limits as favorite risk management measures across environmental and products legislation requires increasing skills on socio-economic impact assessment in addition to risk assessment and risk management ones. Legislation and authorities ask us to address/represent the value chain, not only its upper part, thus requiring tighter links in the supply chain. Solving permitting issues will demand coordinated actions -at EU and local level- to identify and invest time with the right interlocutors to simplify and support us. We also announced the upcoming change in the name of our department, made to make more obvious that the focus of our activities lies on environment, health and chemicals!

This General Assembly was also the opportunity to thank Evangelos Mytilineos (Metlen) for his 4-year EM Presidency and to welcome our new President Inge Hofkens, Chief Operations Officer Multimetal Recycling at Aurubis AG.

Still early July, the team took a day to reflect more in depth about the first semester's actions, the last Taskforces and Steering Committee discussions and how to best organise the work and challenges for the second part of 2026, including on communication.

On the latter, most probably by the next edition, the EM website should reflect the new name and the responsibilities of the HEC-ies. The famous and updated 'spaghetti slide' should also be displayed with a short explanation on the HEC welcoming page (more information: [Violaine Verougstraete](#)).

HUMAN HEALTH

Taskforce meeting: 6 July

The call started with a status of the bioelution work as there was some positive news to provide. Although the drafting of an OECD Guidance Note was stopped, the work done with EURL ECVAM, DG ENV and OECD resulted in a robust protocol that is available on the JRC ECVAM website. Work on a possible standardisation of the protocol by CEN & ASTM has started.

This was followed by a summary of the key outcomes of the 16-17 June ECHA Endocrine Disruptor (ED) Workshop for ED Human Health, with the identification of possible actions.

The key features of the [Commission Roadmap on phasing out animal testing](#) were presented, highlighting that the integration of non-animal information will require not only change in the methods but also revisions to some of the legislation governing chemical safety assessments or guidance. The transition to a new scientific framework seen as an opportunity to harmonise assessments across sectors also ‘consistent with the ‘One Substance, One Assessment (OSOA) approach.

Still in the New Approach Methodologies (NAM) world, ECHA has set up the Collaborative Platform on Alternatives to Animal Testing (CP-AAT) to strengthen its cooperation with Member States and stakeholders. During the first meeting on 11-12 June, an agreement was met on the mandate of this platform and a 2-year workplan was discussed. Experts were requested in follow-up to confirm their interest in contributing to specific work streams (the regulatory adoption of *in silico* methods (QSARs) for acute oral toxicity, harmonised approaches for the regulatory use of *in vitro* toxicokinetic parameters, application of omics technologies for hazard identification and grouping or nanomaterials).

A question was raised regarding metal substances used as additives and if this was sufficiently covered in the REACH dossiers, in the Drinking Water Directive and Food Contact Materials. And finally, the participants discussed the possibility of a HeTAP revival (that ran from 2014 to 2025). HeTAP’s objective is to jointly address some of the multi-metallic specific human health issues on the regulatory agenda, to enable a common approach and understanding, and to improve the consistency of industry responses. The modalities were for international, independent human health experts + industry to discuss the science underpinning issues of common interest and concern. A proposal will be presented to the Science Forum on 21 September.

The draft minutes of the meeting were circulated to the Taskforce on 8 July (more information: [Violaine Verougstraete](#) and [Ailsa Lee](#)).

INDUSTRIAL EMISSIONS

Non-Ferrous Metal (NFM) BREF

As part of the HEC Week 2026 (21-23 September), European Metals will host a dedicated NFM BrW (NFM BREF Workshop) on 23 September, from 13:30 to 16:00, immediately following the Regulatory Forum lunch break.

The workshop will provide members with an overview of the upcoming NFM BREF review, including its expected timeline, the review process and the key regulatory and technical issues likely to shape discussions over the coming years. Participants will also be introduced to the work programme developed with Seeds, receive insights and lessons learned from the ongoing Iron & Steel BREFs, and discuss recent developments on PFAS and their potential relevance for the NFM sector. The session will conclude with the presentation of the future NFM BREF subgroup, which will coordinate industry’s engagement throughout the review process.

Landfills (LAN) BREF

On Friday 31 July 2026, EU-BRITE informed the Technical Working Group (TWG) members that the second draft questionnaire of the LAN BREF is available for review and feedback.

The questionnaire has undergone improvements based on the comments received. The main modifications include:

- i. incorporation of questions derived from the knowledge gained at the workshop on diffuse methane emissions held in June this year,
- ii. for pollutants: inclusion of specific chemical compounds rather than ‘families of chemicals’, as suggested by the TWG,
- iii. inclusion of notes and definitions to aid understanding of various concepts,
- iv. inclusion of a sheet for odour emissions.

The European Metals Secretariat shared with the LAN BREF subgroup a preliminary analysis of the questionnaire.

Next steps:

- LAN BREF subgroup members are invited to send the Secretariat any additional suggestions by the deadline [Friday 11 September 2026](#).
- The European Metals Secretariat will collect all members’ feedback. This information will be aggregated to represent the NFM sector’s position and be submitted to EU-BRITE by [30 September 2026](#).

Iron and Steel Production (IS) BREF

The review of the Iron and Steel (IS) Production BREF officially began with the activation of the TWG in March 2026. As part of this ongoing work, EU-BRITE conducted both a general and a chemical frontloading survey to gather all

relevant information. All contributions from TWG members will help EU-BRITE in drafting the Background Paper (BP), which will serve as the main supporting document for the Kick-off Meeting (KoM).

Regarding the chemical frontloading, EU-BRITE is organising an informal online exchange on **11 September 2026** to discuss stakeholders feedback on ECHA's list of substances of interest for the IS BREF review, and any proposed additions. The session aims to better understand the use and fate of hazardous substances in production processes, ultimately allowing the TWG to narrow down the list of substances relevant to the IS BREF review.

Next steps:

- European Metals Secretariat will follow the informal online exchange on chemicals.
- The KoM is tentatively scheduled to take place in Seville towards the end of 2026 in a hybrid format. Two date ranges have currently been reserved (30/11/2026 to 4/12/2026, and 14/12/2026 to 18/12/2026). European Metals Secretariat will attend the KoM as observer

(more information: [Andrea Pellini](#) or [Eleonora Tosi](#)).

WATER

Technical guidance document (TGD) on Environmental Quality Standards (EQS) derivation: review

The group of experts' (which includes EM representatives) work has been initiated by ECHA (now responsible for the technical work for the implementation and prioritisation process of the Water Framework Directive) early July. The purpose of this group is to assist with the review of the TGD on EQS derivation (TGD 27). The first consultation round, open until 19 August, focused on initial comments on the guidance document as a whole, what should be amended, added or taken out. Over the summer, we collaborated with the Water TF and the ARCHE team to draft our comments, which we submitted to the Consultation. These covered important topics for us, such as accounting for background and essentiality, updating the bioavailability model sections and Species Sensitivity Distribution (SSD) models to be consistent with scientific updates, the importance of keeping assessment factors grounded in reality, and retaining the option of AF = 1. We also expressed caution regarding the consideration of antimicrobial resistance, endocrine disruption and mixture effects when setting environmental quality standards, in response to some of the comments already published by the Member States on these topics, which were not particularly encouraging. All comments can be found in the Water TF emails. ECHA will now analyse these comments and organise the first subgroup meeting online on 6 and 7 October 2026 (more information: [Lara Van de Merckt](#)).

DRINKING WATER DIRECTIVE

Revamping the EM subgroup & ECHA Workshop: coming up

From September onwards, we will be launching an updated EM Drinking Water Directive subgroup (DWD SG).

If you are interested in joining us for this adventure, please send us an email.

As a reminder, the DWD implementation and the EU Positive List (EUPL) process concern materials that come into contact with drinking water. The new EU conformity system is important if you sell starting compositions for use in manufacturing products and/or products that will come into contact with drinking water (e.g., pipes, taps, water tanks, etc.). Therefore, members that are companies selling such starting compositions/products, as well as metals consortia (toxicity/ecotoxicity data is required for this process) and other metals associations (if interested) should be involved. The first meeting of the updated group will take place on 8 September.

In addition, if relevant to you, please note that there is an [upcoming ECHA Stakeholder Workshop](#), taking place in Helsinki (hybrid) on the 21/22 October, for which the deadline for registration **has been extended until the 9th of September**.

We can only motivate you to register for in person participation, as ECHA is foreseeing one-to-one meetings to help you with your specific questions/dossiers and are very much willing to help. Please note that this will be one of the last opportunities for you to exchange with them as freely on your specific cases, the interactions will be much more restricted once the application process starts in January 2027. Please register/share this information with your relevant members (more information: [Federica Iaccino](#) and [Lara Van de Merckt](#)).

BATTERIES

ECaBaM: preparations ongoing

Preparations for the next and fifth ECaBaM workshop (taking place in Brussels on 9-10 November) are continuing in parallel with ECHA's targeted consultation foreseen for Q4 2026. Bringing together the same stakeholder

audience involved in the consultation process, the workshop will provide a key platform for discussion and exchange on the draft report being prepared by ECHA for submission to the European Commission by the end of the year (more information: [Andrea Pellini](#) and [Violaine Verougstraete](#)).

CLASSIFICATION

Meeting with Commission on the Li classification: further ideas?

On 23 July, representatives from ILiA, Rio Tinto, Albemarle, Novandino and European Metals participated in a call with DG GROW and DG ENV to discuss the situation of the 3 Li entries included in the 24th ATP, which at that date had still not been sent for scrutiny to the Parliament and the Council. This call was set up in follow-up of high-level discussions some companies had with Commission cabinets on the possible mitigation of the negative consequences of the classification and its subsequent suite of risk management measures on the establishment of a Li value chain in the EU. This was the opportunity to inform the Commission about the meta-analysis study being carried out by the UK UCL, reexamining the developmental data, which should become available in autumn. The discussion was open, exploring different avenues to alleviate uncertainty but also with a warning from DG ENV that prolonging or delaying decisions on classifications does not necessarily contribute to industry's credibility. Reference was made to one of the conclusions of the French RMOA, i.e., that Candidate Listing could help with the collection of data on exposures and uses, with the suggestion to further beef up the Registration Dossier with data. However, the situation of Li is rather unique, as the number of existing sites is very limited in the EU and the context of the discussions are projects, investments and permitting to start with. Where all participants agreed is that a strategy is needed to show the goodwill of industry to manage uncontrolled risk concerns whilst keeping the EU attractive for investments (more information: Roland Chavasse, Francesco Gattiglio and [Violaine Verougstraete](#)).

TOOLS

Bioelution: stories

The publication tracing the history of the gastric bioelution protocol, describing its evolution and the supporting studies is now publicly available via <https://pubmed.ncbi.nlm.nih.gov/42010952/>. The story reflects many years of hard (and often frustrating) work by a group of committed industry and regulatory scientists and the progress made. But the end of a story may be the beginning of a new one: we remain committed and optimistic about making it work, exploring other standardisation routes! (more information: Adriana Oller, Kate Heim and [Violaine Verougstraete](#)).

MERAG: publication of the updated classification fact sheet and toolkit in October!

The MERAG framework was developed in 2005-2007 through collaboration between industry, scientific experts, and regulators, facilitated by ICMM and European Metals (formerly 'Eurometaux'), with technical input from ARCHE Consulting. The MERAG fact sheet on classification consolidated the available scientific evidence and established consistent approaches for the environmental classification of metals and metal compounds. Since then, scientific advances and regulatory experience have driven further development of this framework, particularly to address complex metal-containing materials. In parallel, the Metals Classification Tool (MeClas) was developed to operationalise this guidance and support transparent, consistent, and efficient classification workflows. Hence a project was launched in 2025 to update the original fact sheet -compiling the most recent science- and adding a supportive toolkit designed to assist practitioners in the practical application of the principles set out in the fact sheet. Publication by ICMM is scheduled for mid-October (more information: Danielle Morrison (ICMM), Dagobert Heijerick and [Violaine Verougstraete](#)).

THE SUSTAINABILITY CORNER

Product Environmental Footprint (PEF)-Lifecycle Assessment (LCA) Taskforce: LCA Platform meeting

On 9th July, Sophia opened the very well-attended first **LCA Platform meeting** of the PEF-LCA Taskforce, which was set up, upon members' request, to cover the 4th point of the extended Taskforce's mandate to "Provide a platform of exchange on wider LCA developments". Three dedicated LCA meetings per year will be scheduled to ensure dedicated time for these wider aspects, outside of the more specific PEF-related issues that are dealt with in the other meetings.

For this first edition, Mark Mistry (Nickel Institute) presented the ongoing developments at ICMM, Mark's presentation reflected issues that are both of relevance for commodities, but also companies due to the importance of developing accurate mining and metal specific lifecycle assessment methods and tools, as they are different from other industries and require their own approaches.

Next, Maxime Lambert (EPMF) presented the LCA Matrix that was developed by ARCHE in 2025, together with EPMF, the Nickel Institute, IZA, ICA Europe and Ecomatters. The Matrix aims to show EU policies where EF/LCA is referenced with a current scope of 20 policies. As a dynamic tool, the matrix needs regular updates to match the current evolution in policies. Currently an Excel, discussion is ongoing to set it up in the form of a user-friendly webpage. Additional interested members in contributing to the project were invited to contact Maxime for a follow-up.

More details are available in the meeting minutes, which were shared with the Taskforce and are available upon request.

The meeting ended with participants selecting priority topics: "How to ensure data is of sufficient quality and how to address existing gaps" and "Use and demand for LCA in regulatory and in commercial contexts" for the next meeting set to take place on 19 November (more information: [Sophia Verbrughe](#) and [Laura Fazio Bellacchio](#)).

Corporate Sustainability Due Diligence Directive Guidelines: *our answer to the consultation*

European Metals has recently submitted its response to the EU Commission Public Consultation on the upcoming guidelines for the Corporate Sustainability Due Diligence Directive (CS3D). Together with its answer to the Commission questionnaire, European Metals has also sent the updated Position Paper on the CS3D Guidelines. This follows European Metals' effort to advocate for an ethical and responsible critical raw materials supply chain.

European Metals Recommendations

European Metals calls for clear, explanatory guidelines that follow internationally recognised standards and principles included in UN Guiding Principles and the OECD framework. Specifically, the key recommendations are the following:

- **Harmonisation & Alignment** – The Commission should ensure the greatest possible harmonisation in the Member States' transposition of the Directive in their national law. Guidelines should also ensure alignment between the CS3D and other EU pieces of legislation to create a consistent due diligence framework.
- **Voluntary Sustainability Standards** – The guidelines should recognise the role of voluntary sustainability and due diligence standards that are widely used by the non-ferrous metals sector.
- **Risk-based approach** – Guidelines should preserve a meaningful risk-based approach in line with existing international frameworks, taking into account that companies are responsible for determining and prioritising actual and potential adverse impacts in their value chains following their own reasonable assessment.
- **Information gathering** – Companies need practical expectations regarding documentation, verification and evidence required to support due diligence decisions. Therefore, guidelines should clarify how to assess the quality and reliability of the data that companies receive and what level of evidence is proportionate before requesting additional information from business partners.
- **National regulatory limitations effects** – Guidelines should provide clear explanations on how companies should act in case of third countries' regulatory limitations. Some regulatory developments in key sourcing jurisdictions can restrict supply chain data collection and verification activities (i.e. China's Provisions on the Security of Industrial and Supply Chains).
- **Stakeholders' engagement expectation** - Guidelines should preserve a meaningful stakeholders' engagement that respects business relationships. Stakeholders' engagement should be conducted in a way that is appropriate to the company's role and relationship with the relevant business partner, rather than disrupting existing contractual or commercial relationships.

Next Steps: European Metals will continue its engagement with relevant Commission representatives advocating the key messages included in the updated position paper.

The guidelines will be published in two batches: the first set will be published by 26 July 2027, and a second by 26 July 2028 (more information: [Carmine Carinci](#) and [Laura Fazio Bellacchio](#)).

OUTREACH

OECD

Meeting with OECD: *constructive discussion on chemicals management*

EPMF (vice-chair BIAC chemicals) and European Metals had a meeting with the OECD EHS staff to discuss the current context and upcoming trends on chemicals management, exchanging insights on the EU and the global debates and reflecting on how to best communicate and support further cooperative projects on environmental and risk management concepts. The learnings will be presented to the HEC Steering Committee on 16 September (more information: France capon and [Violaine Verougstraete](#)).

COMMUNICATION

Metals Academy: *looking towards a next edition in 2027*

The Organising Committee -that welcomed a new member, Heinrich Pecina from WKO- met on 26 August to reflect on the 6th edition of the Metals Academy, which will take place in May 2027.

The main themes of next year's programme were discussed and will be worked on to establish a (first) draft agenda. Whilst waiting for its completion, a first explicative e-mail, along with the possibility to pre-register will be sent to all European Metals members and previous participants to gauge the level of interest.

We much look forward to preparing and organising this next edition and hope we can count on our members' support and attendance (more information: [Violaine Verougstraete](#) and [Ailsa Lee](#)).

GENERAL INFORMATION & ACRONYMS

Follow the logo and check out our Metals Gateway website.



This website is a one stop information source for regulators & risk assessors dealing with metals/metal compounds and is tailored to the specific needs of the [metals](#) industry sector.

A continuously updated list of acronyms is available under the [Reach Metals Gateway](#) (RMG).

CALENDAR

**Please find below a list of the meetings already planned for 2026
(ECHA, Commission & European Metals).**

For meetings at European Metals: most of our meetings will now be held as hybrid meetings, and **our members will be informed ahead of the meetings** (links to join will be sent ahead of the meetings).

- 07-11/09: RAC-78 Plenary
 - 08/09: EM DWD subgroup
 - 14-18/09: SEAC-72
 - 15/09: RAC-78 (II optional - remote)
 - 16/09: Health, Environment & Chemicals (HEC) Steering Committee
 - 17-18/09: RAC-78 DWD WG
 - 21-23/09: Health, Environment & Chemicals (HEC) Autumn Week
 - 21(PM)-22(AM): Science Forum
 - 22 (PM)-23 (AM): Regulatory Forum
 - 23/09 (AM): BreW (NFM BREF) Workshop
 - ~~05-07/10: RAC-79 AfA WG~~ **Cancelled**
 - 05-09/10: MSC-95 – TENT
 - 08/10: Risk Management Taskforce
 - 21-22/10: ECHA DWD STO Workshop
 - 26-28/10: RAC-79 CLH WG
 - 09-10/11: RAC-79 DWD WG
 - 09-10/11: ECaBaM 5 Workshop
 - 16-17/11: RAC-79 REST WG
 - 19/11: LCA-Platform
 - 17-20/11: SEAC-73
 - 24-25/11: SEAC-73
 - 30/11-04/12: RAC-79 Plenary
 - 01/12: Water Taskforce
 - 08/12: RAC-79 (II optional - remote)
 - 07-11/12: MSC-96 – TENT
 - 08/12: EM DWD Application Training Workshop & EM DWD subgroup
 - 10/12 (PM): Health, Environment & Chemicals (HEC) Steering Committee
 - 16/12(PM): Risk Management Taskforce
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BACK TO WORK GAME

Reflecting on Vio's editorial 😊

Please use these key words for our industry, to fill in the crossword puzzle on page 11

Across	Down
4 Something bad that might happen	1 A system for naming and organising things into groups that share similarities
5 Those who might want to buy something	2 Help and advice on how to do something
7 The act of obeying a rule	3 A chemical element or a mixture of such elements
10 Able to continue over a period of time	6 A piece of planned work/activity
12 Materials in which objects are wrapped	7 The process of dividing into groups according to type
14 Any basic substance that is used in or produced by a reaction involving changes to atoms or molecules	8 A system of holes in the ground from which substances are removed
16 Long & thin Italian pasta	9 A useful or valuable possession
19 Air, water and land in/on which we live	11 H ₂ O
21 Something that helps you do a particular activity	13 Body free from illness
22 The right to use something	15 A device that produces electricity to provide power
23 The system of trade and industry by which the wealth of a country is made	16 The study of the structure and behaviour of the physical world
	17 The act of taking water into the body
	18 The companies involved in the process of producing goods for sale
	19 Belonging or relating to Europe
	20 A mention of something



Across: 4: Risk / 5: Market / 7: Compliance / 10: Sustainable / 12: Packaging / 14: Chemicals / 16: Spaghetti / 19: Environment / 21: Tool / 22: Access / 23: Economy
Down: 1: Taxonomy / 2: Guidance / 3: Metals / 6: Project / 7: Classification / 8: Mine / 9: Resource / 11: Water / 13: Health / 15: Battery / 16: Science / 17: The action of taking liquid into the body / 18: Industry / 19: European /