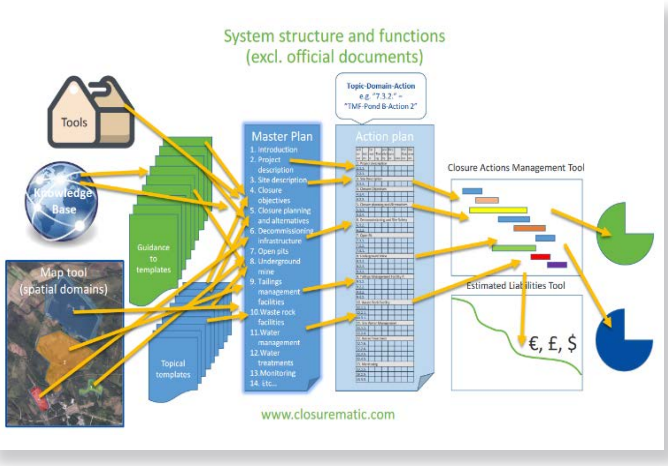


## Are you interested?

No matter what it may be and from which background it is coming from (industry, academia, administration, NGO) – we will have an open ear for you and **your interest** in Closurematic. Please do not hesitate to contact us:

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## Publications

KAUPPILA T., BELLENFANT G., SOLISMAA L. & MITTELSTÄDT P. (2019): Digitalization of continuous mine closure planning and management – an EIT Raw Materials initiative. In AB Fourie & M Tibbett (eds), Proceedings of the 13th International Conference on Mine Closure, Australian Centre for Geomechanics, Perth, pp. 1023-1030.

KAUPPILA T., SOLISMAA L., MITTELSTÄDT P., RÜTERKAMP P., BELLENFANT G., FREZOT O., MONTONEN J., KOIVUMAA J., KÄLLBERG I & LAHTI T. (2019): Closurematic – digital management tool for continuous mine closure. In Conference Transcript 15th MiningForum, Berlin, Germany, pp. 38-40.

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eit RawMaterials
Connecting matters

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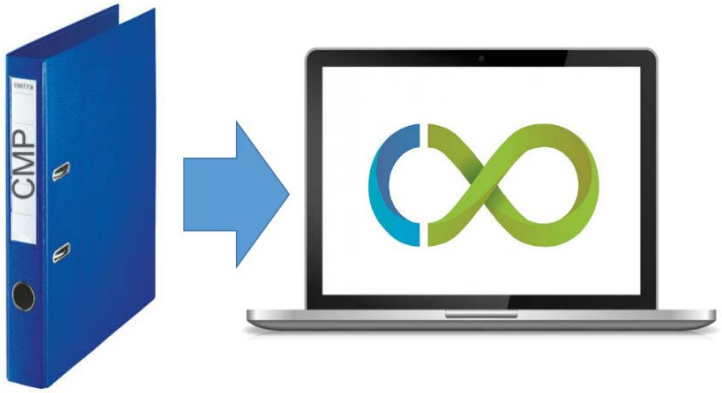
# Closurematic – Management Tool for Continous Mine Closure

**www.closurematic.com**




## About the Project

**CLOSUREMATIC is an advanced digital planning and management tool for continuous mine closure. It is safe and easy to use and based on an up to date body of knowledge.**

For successful closure, internal stake-holders from several branches of the mining operation need to be engaged in the process and kept aware of the aims and progress of closure. Because continuous closure typically entails continuous reduction of unknowns, risks, and (financial) liabilities, there is constant accumulation of data and plans and the whole process needs to be well documented. Such a complex undertaking needs tools that help in managing the process. Conventional Closure Management Plans (CMPs) written on paper should be replaced by a digital system with enhanced capabilities for continuous closure management.

**Lead Partner:** Geological Survey of Finland

**Duration:** 2018 – 2021

**Funding:** Funded by EIT RawMaterials

## Advantages

The CLOSUREMATIC project aims to improve mine closure through digitalization by creating a versatile tool (software) that helps mining projects plan, carry out, manage, monitor, communicate, and document mine closure. We aim to eliminate typical problems in mine closure management such as:

- loss of continuity upon changes in management and ownership,
- difficulties in cost estimation and tracking,
- loss of closure-related data,
- poor coordination of closure actions
- Identifying operations that compromise the goals of closure
- inadequate consultation
- etc.

We aim to **add value to our clients** by raising the procedure of closure planning way above the current industry standards with simpler and faster procedures and having continuity in the long term closure data management

## Detailed Objectives

- Create flexible templates that can be used to assemble and generate CMP for all stages of a mining project (from an early Conceptual Plan to the Final Closure Plan, including Care and Maintenance Plans)
- Generate context sensitive (i.e. linked) technical and procedural supporting information, including social and economic issues, for the templates that the user can utilize when drafting each CMP.
- Offer support for creating official mine closure documents for different jurisdictions.
- Provide tools for stakeholder consultation on mine closure.
- Provide tools for tracking the closure process (e.g. financial liabilities).
- Study the integration of such a system to existing processes at mines to promote widespread adoption of the system in the industry.