



Agenda for the 2nd Virtual SUMEX Clustering Workshop 29 September 2021

*Sustainability outside the box: lessons from natural resource projects, architecture and E-learning
Featuring graphic illustrator: Sophia Halamoda*

This is the 2nd and last Clustering Workshop for the SUMEX project. The 1st featured ERA-MIN projects, a discussion between affiliates of the European Federation of Geologists and Horizon 2020 projects. Good industry practices were the focus and the themes were two of SUMEX's core areas: environmental and social impact assessment plus health and safety.

This second workshop is more exploratory in nature, venturing beyond the conventional view of what sustainability in the extractives industry means by looking at different industries and disciplines. The challenges the extractives industry of today faces are increasingly broad in scope and bringing different views and voices to the discourse is crucial to address these challenges.

Beyond knowledge exchange and networking, the aim of the webinar is to challenge the current thinking around sustainability of the extractives industry by looking at good practices through three different non-extractive lenses.

- The first lens is regional identity and transformation and looks at mining in conjunction with other natural resource projects, particularly the responsibility companies and policy-makers have to ensure consistently better company practices on the company side and good land use planning and natural resource governance on the authority side.
- The second lens looks at the concept of 'territory', specifically a social housing development in Portugal, and how architecture and land use planning can contribute positively to natural and humanized landscapes.
- The third lens engages participants on the topic "moving from data to knowledge management" through E-learning honing in on 1) what is important and should be emphasised, 2) what are the technical and process aspects of learning including how to motivate people, and 3) how to garner the attention of decision-makers?

Extractives projects are not homogenous and, consistent with the composition of SUMEX's partners, both aggregate and metal projects are in focus. Again, this is the last of two clustering workshops for the SUMEX project and addresses its remaining three core areas: 1) land use 2) permitting and policy integration and 3) reporting.



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Wednesday, 29 September

Session 1: Contemplating ‘territory’ – lessons from natural resource and architecture projects

Time: 10.00-11.30 CET

- Moderator: Katharina Gugerell, (University of Natural Resources and Life Sciences, Vienna)
- Respondent: Pedro Guilherme (University of Évora)
- Projects:

- **REGINA:** Leena Suopajärvi (University of Lapland)

The aim of the REGINA (Regional Innovation in the Nordic Arctic) project, funded by the EU as part of the Northern Periphery and Arctic Programme, is to reduce the vulnerability and increase the preparedness of small remote communities in the Nordic Arctic and Scotland facing either the development or withdrawal of large-scale, resource-based industries. An innovative model for developing Local Smart Specialisation Strategies (LS3) was created to support local authorities, and it was tested and implemented by each of the five municipalities in the project group. REGINA also created guidance and support tools for other municipalities facing similar types of development challenges.

- **BuSK** – Mikko Jokinen (LUKE – Natural Resources Institute Finland)

BuSK (Building Shared Knowledge), funded by The Northern Periphery and Arctic 2014-2020 Programme, has developed planning tools that enhance the use of participatory techniques. Livelihoods in the region are largely dependent on natural resources and land, and issues around land use often are contested by various stakeholder interests, BuSK combines science- and experience-based knowledge that assists decision makers with land use planning and natural resource governance.

- **Malagueira, Património de Todos, Subsídios para a sua classificação:** Pedro Guilherme (University of Évora)

Included on the recent national indicative list of UNESCO World Heritage sites, the housing development of Malagueira, designed by the Portuguese architect Álvaro Siza Vieira, is distinct because it successfully addresses difficult land use issues many large scale projects are forced to grapple with: the growing urbanization of rural areas, the construction of a new neighbourhood in coexistence with an old city, and the then new phenomena of popular participation during Portugal’s revolutionary period (1970s). Malagueira’s recent tentative listing spurred a project led by the University of Evora to identify, recognise and systematise the values associated with tangible and intangible cultural heritage and to promote MALAGUEIRA.PT as a new brand that integrates cultural, architectural, historical, social and scientific values.

Discussion topics: *How can looking at the concept of territory help companies gain social acceptance when they enter a new ‘territory’? What have companies learned from the REGINA project? Have authorities moved forward in reconciling and possibly aligning land use, participation and the permitting system addressed in BuSK? How can the more holistic view of the Malagueira project inform the future of planning and permitting extractives projects?*



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Session 2: E-learning

Time: 13.00-14.30 CET

- Moderator: Andreas Endl (Wirtschaftsuniversität Wien)
- Discussant: Patrick Nadoll (EIT Raw Materials)
- Projects:
 - **DigiEcoQuarry:** Lorena Viladés Santos (ANEFA – National Association of Aggregate Manufacturers and Entrepreneurs)
DigiEcoQuarry, having just started in June 2021, takes a coordinated approach towards construction materials management to achieve the goal of reducing EU external supply dependency while also using resources more efficiently. For their E-learning activities, DigiEcoQuarry will develop a Capacity Building Program that provides knowledge and tools for practitioners in the following areas: video tutorials on how to use the platform for company owners, technical staff and site workers, one Massive Online Open Course (MOOC) on digitalisation in the aggregates industry and three training sessions on the use of the platform (video conferences).
 - **HiTech AlkCarb:** Kate Smith (Camborne School of Mines, University of Exeter)
HiTech AlkCarb finished in 2020 and was funded under the Horizon 2020 Research and Innovation programme to develop new geomodels and sustainable exploration methods for alkaline igneous rocks and carbonatites. In January 2020, HiTech AlkCarb launched its Technology Metals for a Green Future MOOC, which teaches how critical raw materials are found and used and allows users to explore their role in contributing to a more sustainable future. The project focuses on technology metals, which are those needed for the green transition including rare earths, tantalum, niobium, tin, tungsten, lithium.
 - **RM@Schools:** Armida Torreggiani (RM@Schools)
RM@Schools 4.0 emerges from RM@Schools 3.0, the WSL (Wider Societal Learning) Flagship programme of EIT RawMaterials and is running parallel with RM@Schools-ESEE, dedicated to the ESEE (East and Southeast Europe) region. It is supporting the RawMaterials Academy's efforts towards young students (11-19 years old) across Europe to promote a wide dissemination action on raw materials-related themes in schools and society through strategic European partnerships among research, university, school and industry. RM@Schools has created a significant amount of content and toolkits for schools and promotes a large range of actions towards society in order to promote sustainability and circular economy strategies.

Discussion Topics: *How do you build and maintain a community of practitioners? What motivates people to participate in E-learning activities? How do you distil the information needed? What do you see as the gaps in E-learning that SUMEX could or should fulfil?*



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