



Limestone quarry located on the outskirts of Skövde, Sweden

Tackling Greenwashing: from data to impacts in Swedish quarries

In light of the urgent calls to action ahead of COP26¹, reliable environmental data is needed to prevent greenwashing and record genuine improvements. Can real-time production data help improve transparency for a vital industry in society?

Where you sit right now, you are surrounded by aggregates (sand & gravel) – in the bricks, concrete and asphalt that make up most of our infrastructure, aggregates are the main component. Today, 90% of that aggregate in Sweden is produced in quarries from crushed rock. Developing digital infrastructure for aggregates is an enabler towards optimization of plant performance, which could also be utilized for environmental performance.

Huge amounts of data is collected daily on production conditions in quarries, much of which is going unused. In this project, you will work directly with an operational quarry to develop a solution that can process and transform this data to reflect environmental performance in a relevant and relatable way. Your solution could help companies achieve improvement goals, optimize production from an environmental perspective, and affirm production matches any public figures published on their environmental impact.

Litteraturförslag:

Papadopoulou, P., Peñaloza, D., Asbjörnsson, G., Hulthén, E., Evertsson, M., 2021. Development of a Pre-Verified EPD Tool with Process Simulation Capabilities for the Aggregates Industry. Sustainability 13, 9492.. doi:10.3390/su13179492

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Kan det dubbleras?

Ja

¹26th global climate summit for the signatories of the UN's Framework Convention on Climate Change