

AI-powered discovery of silicon sources

Timeline: 05/25 - 07/25
Budget: €10,000

Startup



- Name: VCG.AI
- Founded: 2022
- Tagline: AI-driven circular economy enabler
- Location: Stuttgart, Germany

Industry partner



- Name: K+S AG
- Founded: 10/1889
- Tagline: Salt, potash & magnesium producer
- Headquarter: Kassel, Germany

The problem

Silicon has a positive influence on nutrient availability and drought resistance of plants. However, it remains a challenge to find circular and preferential organic silicon streams that can be used as an value-adding additive to standard K+S fertilizers.

The solution

AI-driven identification and discovery of high-quality, plant-available silicon sources from residual material streams through VCG.AI's value chain generator platform.

Project deliverables

- Development of tailored AI-model for circular silicon sources & data gathering report
- Discovery & prioritisation report for the most relevant circular silicon sources, including data for price estimates, volume, TRLs, technological pathways & geographic distribution
- Onboarding workshop to VCG software, combined with a 1-Month access to VCG software for K+S colleagues
- Feedback workshop & roadmap report



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