

Chayenne van Dijk  
NICOLE Secreteriat

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## Proposal for presenting a Case Study at the NICOLE Spring Workshop 2025 in Frankfurt:

### Evaluating the Sustainability of Soil Air Remediation

#### Executive Summary

This proposal outlines a case study documenting a successful transition from active soil air remediation practices to a more sustainable alternative. By strategically assessing our remediation efforts with respect to traditional remediation sustainability KPIs, we identified shortcomings and developed a solution to significantly reduce the environmental footprint of those measures while maintaining compliance with regulatory standards. This case study will detail the methodologies employed, the outcomes achieved, and the lessons learned throughout this process.

#### Proposed Content:

Soil air remediation has been a vital component of our environmental management strategy at the case study site, aimed at mitigating contamination and its spatial spreading in the soil and/or towards groundwater. However, with a growing emphasis on sustainability, we recognized the need to evaluate the long-term viability and environmental impact of these practices. This case study highlights our successful initiative to significantly reduce the soil air remediation efforts and implement an alternative strategy that aligns with our commitment to sustainability.

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The presentation will entail the following information:

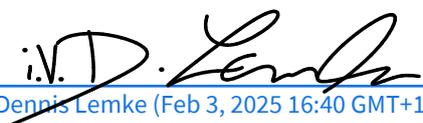
- Background information (geological setting, contaminants, levels of contamination incl. trends, remediation techniques etc.)
- Documentation of the transition process (steps taken, milestones, line of reasoning, drawbacks etc.)
- Detailed sustainability analysis (used literature, outcome, implications)
- Results and conclusion (ex post evaluation, lessons learned)
- Next steps (implications for similar settings)

**Conclusion:**

This case study demonstrates our successful transition from extensive soil air remediation practices to a much more sustainable approach, highlighting our commitment to environmental stewardship and corporate responsibility. The outcomes may also serve as a model for future initiatives.

I look forward to your feedback on this proposal.

Best regards,

  
Dennis Lemke (Feb 3, 2025 16:40 GMT+1)

Dr. Dennis Lemke

**Presentation preference:**

Oral presentation (approx. 15 mins plus time for discussion) within the session "Taking Action".

**Authors Information:**

- 2013 – now: Project Manager / Project Director at Evonik Industries AG
- 2010 – 2013: University of Tübingen (Germany), PhD in Hydrogeology
- 2002 – 2008: University of Hannover (Germany), Diploma in Geosciences