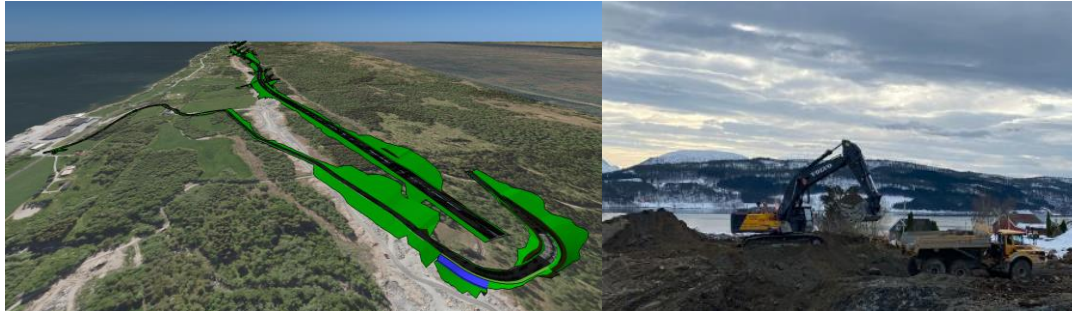# Infrakit Insights for Better Built Environment

1. Introduction

Infrakit is a SaaS solution that simplifies the construction of civil projects including roads, railways, and other infrastructure. Infrakit helps projects finish faster and more efficiently by providing easy access to all related data stored in the cloud.

Infrakit also has Analytics environment with ability to aggregate various other data sources:

Infrakit Insights is a brand-new web app designed to provide valuable insights for platform users. It empowers infrastructure professionals to concentrate on essential project data, whether it's about ESG (environmental/social/governance) performance, speeding up project timelines, or addressing specific challenges at construction sites.

2. Project goals

- **Research and onboarding phase**: Documentation of desired insights based on customer feedback. The team has a chance to participate in UX studies with Infrakit UX lead, but this is not a must.
- **Setting up the environment**: New microservice running in the AWS connected to existing time series backend fetching the data for producing the Insights.
- **Development of the UI**: Interactive client app for insights visualization
- TDD approach and automated tests are considered a bonus
- Additionally, enrich the insights with 3rd party integrations, like OpenAI

3. Technologies

- Git, Jira, AWS, Kafka, Flutter, Java/Python (recommended, can suggest other)
- The team will be supported by senior/architect level engineers all the way

4. Requirements for the students

- Students who are keen on learning how to apply data analysis to real-world SaaS products in practice.
- Outcome is extendable depending on the team's skill level. One could prefer focusing on connecting construction site data to AI, while another team could want to focus more on implementing the product with higher quality.
- The end-product is about a research project for the company, so making bold moves is allowed.

5. Legal Issues

- Intellectual Property Rights (IPR): (A) All IPRs to all Results will be transferred.
- Confidentiality: (A) The client will share some confidential information with the students.

6. Client
SaaS company operating in Keilaniemi:

- Hannu Varjoranta (Lead Software Engineer) Ex-Spotify data pipelines
- Sarah Meronen, UX lead (10+ years),
- Visa Hokkanen, VP of Product (20+ years)
- Sakari Maaranen, VP of Engineering (20+years) – The process
- Office space available for weekly meetings and for example for pair coding and asking support from Team Infrakit.
- Goals achieved can be celebrated in our cozy rooftop office.

- Bring your hardware, Mac, or PC, doesn't matter. We provide access to the required software and offer Coke & Snacks.

Client representative(s)

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