Thermal Modelling

NEW Giatec 360 Feature

GIATEC

WHAT is Thermal Modelling?

1

New feature in Giatec 360

2

Predict the temperature of mass concrete elements

3

Tool to develop a thermal control plan

4

Forecast potential environmental changes and manage concrete workflow

WHY Thermal Modelling

Six Reasons WHY

SHOULD I USE BLANKETS?

We need to determine if temperature controls are required for our mass concrete

TIMING

How long will I require my temperature controls to be in place?

MIX DESIGN CHANGES

Prediction of how the mix design changes will effect the temperature of the concrete

MOCK UPS

With accurate prediction models, expensive concrete trials will not be required

KEEPING COOL

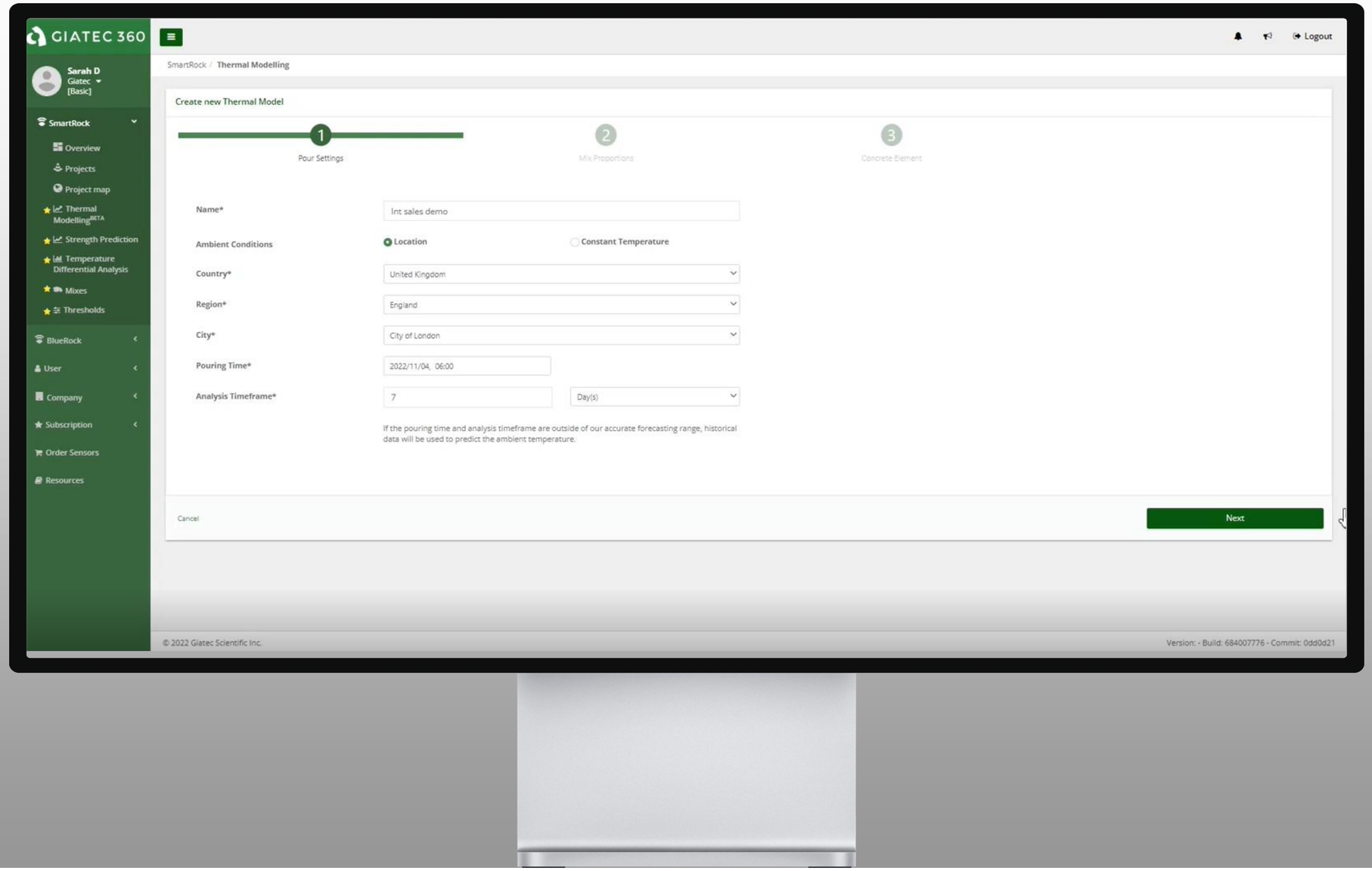
To determine if any cooling is required

COMPLEX ANALYSIS

Current methods are timeous and difficult to be accurate

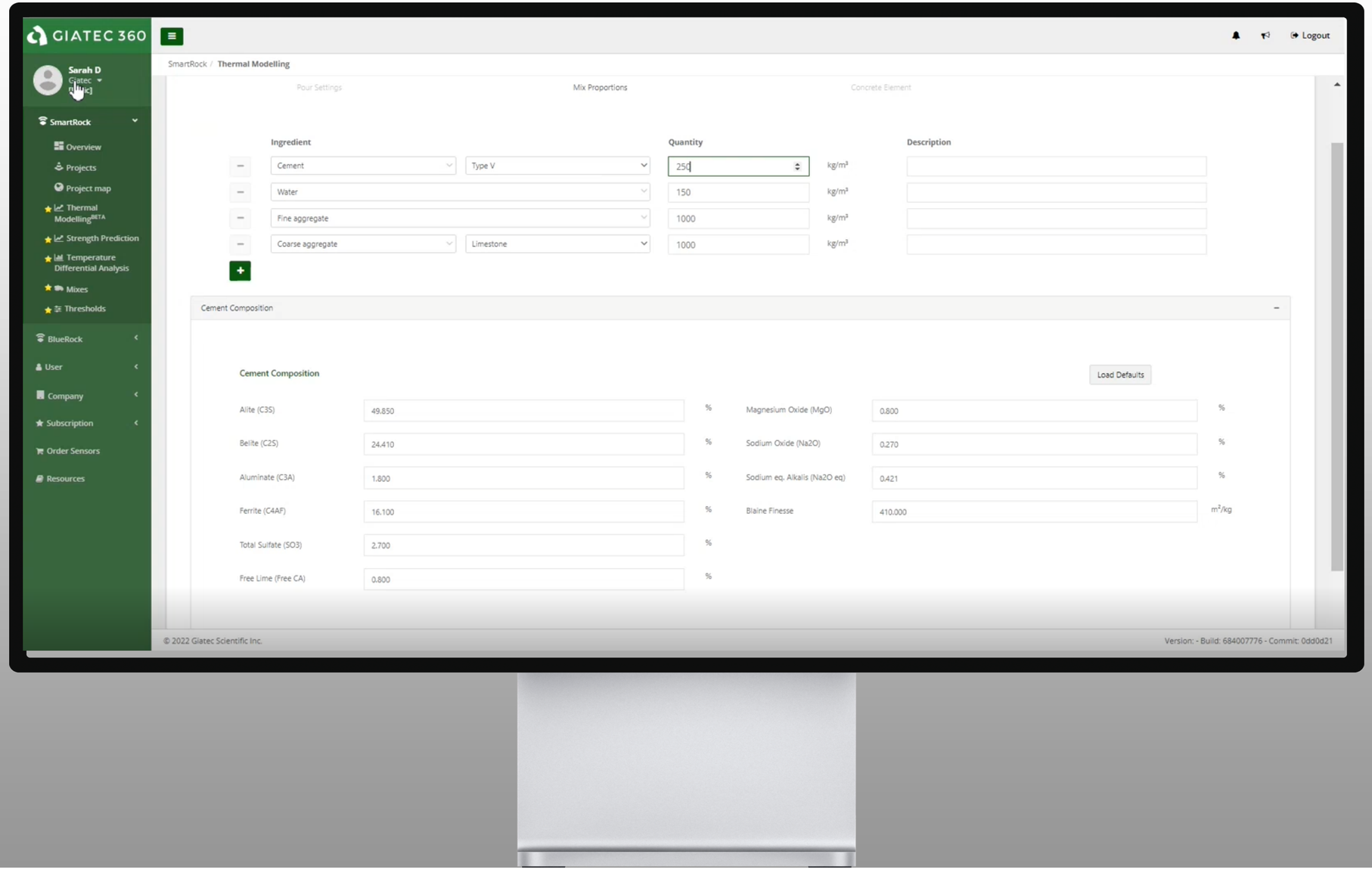
Current methods for Thermal Modelling?

1. Manual excel sheets
2. Field testing
3. Complex numerical modelling
4. Independent software



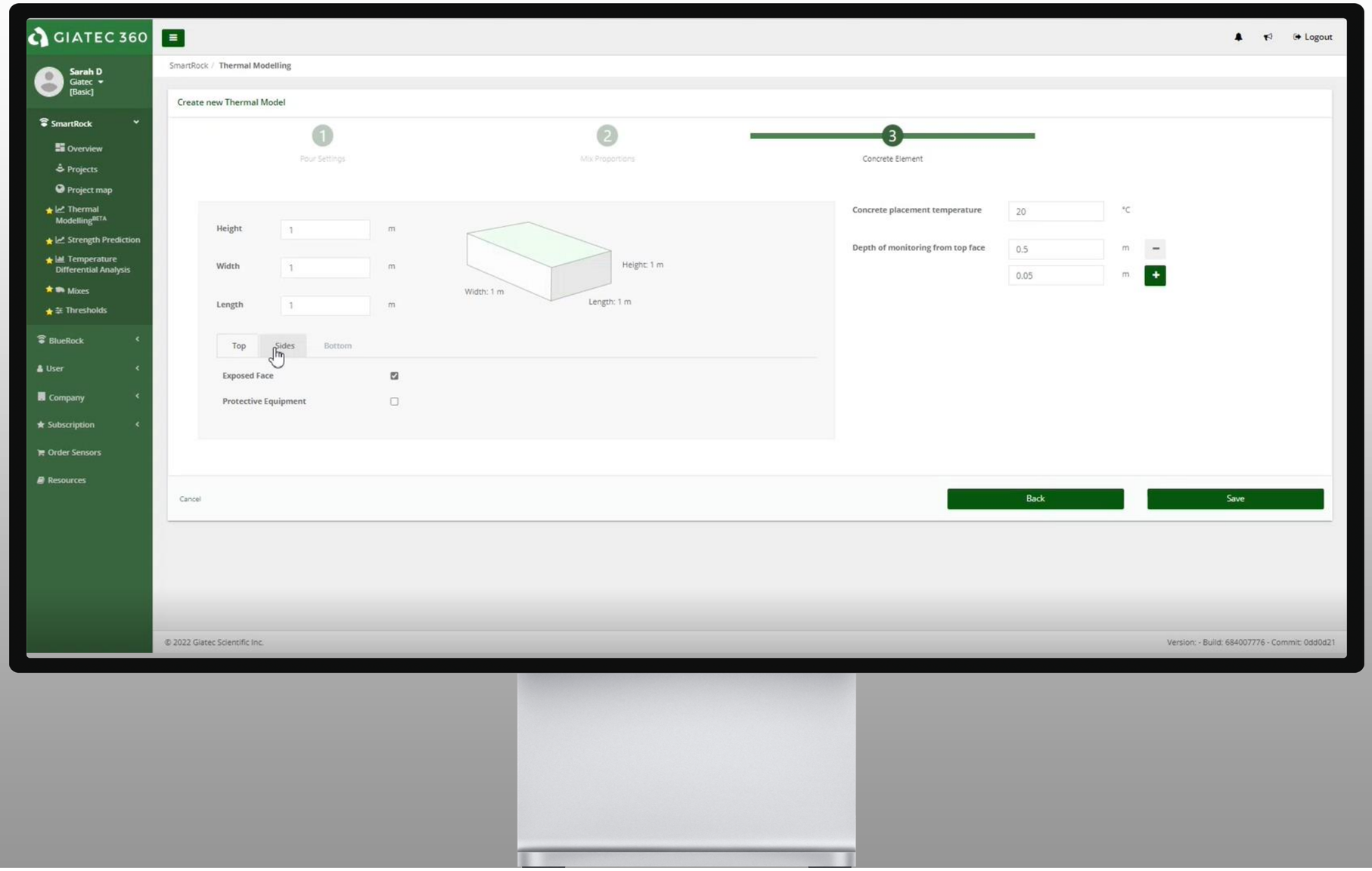
Step 1

Define your pour location and date



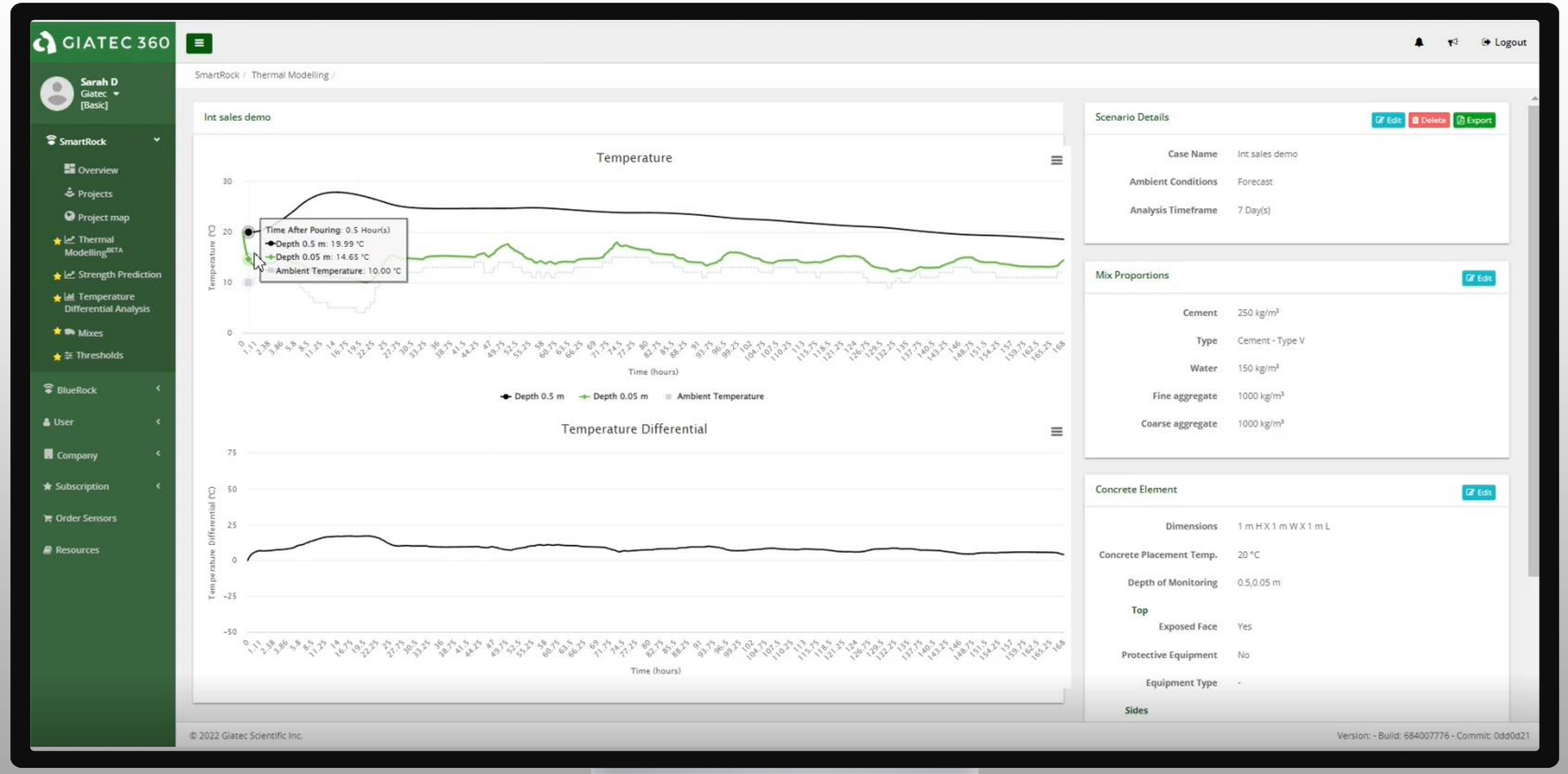
Step 2

Define your mix design



Step 3

Define your concrete element size surface conditions

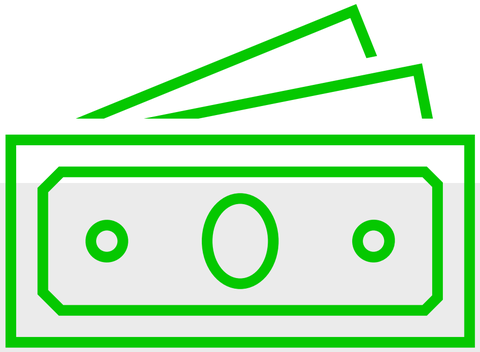


Results

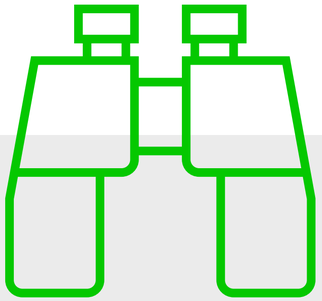
Full prediction model of the concrete temperature

Value Proposition for the customer

OPTIMIZED PLANNING ON CONCRETE POURS



TIME/LABOUR/COST SAVINGS



INSIGHTS INTO CONCRETE TEMPERATURE PERFORMANCE