



on average these delays increase the length of a project by 21%.



This means 9.5% of the global output of construction is a cost associated with weather.

빔

What are the biggest pain points?

Difficulty assessing risk at bid stage

Inability to optimize weather sensitive activities in the long term



Trouble reassessing weather risk as the project shifts for other reasons

Losses not covered by contracts or insurance

Planning weather windows for critical activities

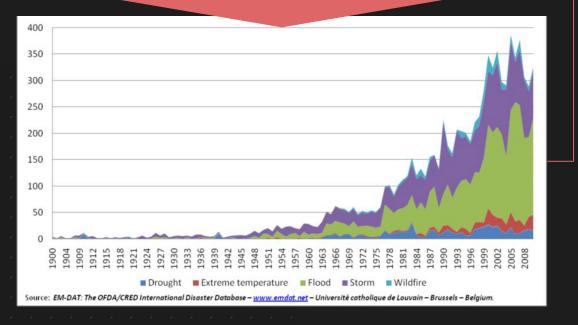
Construction has already faced significant changes

Our analysis compared a project as if conducted in **1990 vs 2020**

	Change +/-
Expected duration of project (Down days)	+8.4%
Standard deviation of project's duration (Volatility)	+9%
Likelihood of project running 200 days late due to weather (Extreme delay)	1450%

These risks are only set to get worse in the future, and the industry isn't prepared.

Extreme weather is escalating due to the climate crisis.



According to the Met Office

Six of the ten wettest years across the UK have occurred since 1998.

The number of days where rainfall totals exceed 95% and 99% of the 1961-1990 average have increased in the last decade.

As have rainfall events exceeding 50 mm.

It's paramount you get adequate support for making the best decisions to avoid mounting delays and cost overruns related to bad weather.

Climate resilience will be as important as Net Zero in the next 3 years.



Are you ready?



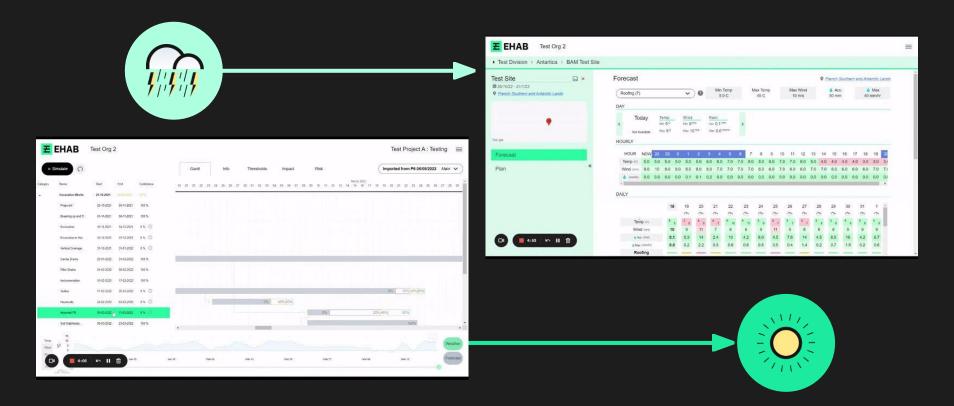


How our model works

1. Build micro-climate

2. Correlate with plan

3. Offer actionable insights



How our model works

1. Build micro-climate

2. Correlate with plan

3. Offer actionable insights

- Get 40-70 years of historical data
- In a specific location 9x9km grid
- Run climate trend analysis so we know what is changing in your location
- Match your plan to our risk matrix, which contains info on how concrete is affected by temperature and cranes are impacted by wind speed
- Use activity codes, UDF fields or smart ai assisted matching

- Run our own bespoke Monte
 Carlo simulation 1000+ times
- Get probability data for impact on every activity and the plan
- Push this data into several dashboard



1 Accurate TRA

Give every project more accurate pricing and risk assessments

2 Accurate QSRA

Give your largest projects state of the art weather analysis

3 Risk Drivers

Identify the key bottlenecks in your project

4 Mitigations

Understand the cost benefit of all weather mitigations, identify hidden savings

5 Short Term Planning

Plan weather windows, avoid cancelled shifts, save time

6 Variance

Analysis

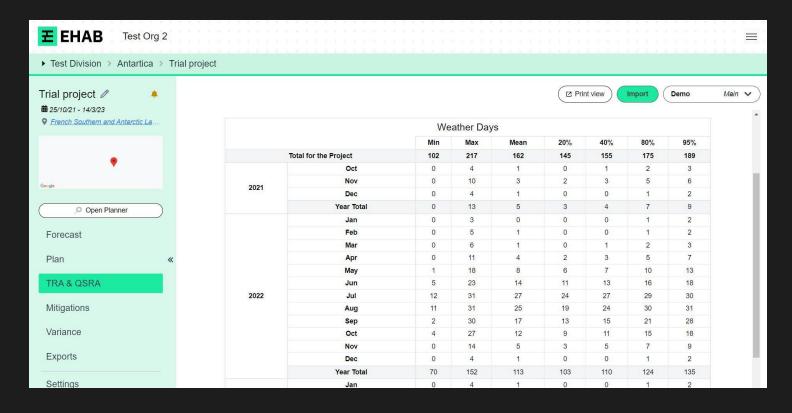
Re-price correctly throughout project and communicate

changes in the baseline

7 Automated Weather Insurance

Protect your margins and manage cashflow

Accurate Time Risk Allowance is Essential for a Profitable Job



Take targeted action

Accurate Time Risk Allowance is Essential for a Profitable Job



Features

- Confidence in your plan metric
- Pie chart displaying main weather impacts
- Heat map highlighting where over the course of your project most risk sits

Baseline your risk

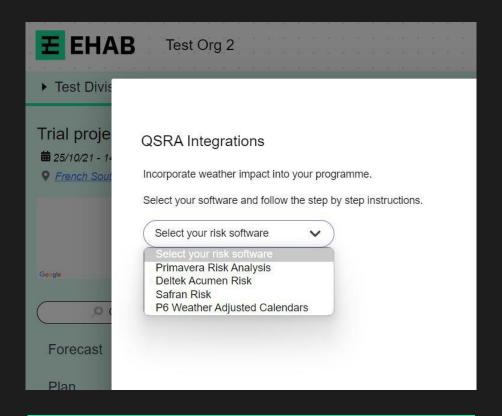
Give every project more accurate pricing and risk assessments

Benefits

- Get a quick, high-level analysis of the robustness of your plan
- Export a baseline report to include in your bid (for smaller projects)
- Know which section of the project to focus mitigations on

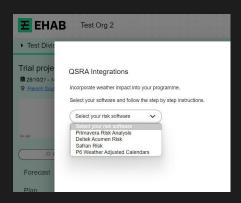
Take targeted action

Ensure the best data for your QSRA process



Get the correct amount of risk in the pot

Ensure the best data for your QSRA process



Features

- Export high quality risk data into your QSRA
- Export to
 - Acumen Risk
 - Primavera Risk Analysis
 - P6 Weather Calendars
 - Nodes & Links (coming soon)
 - Safran (coming soon)

Accurate QSRA

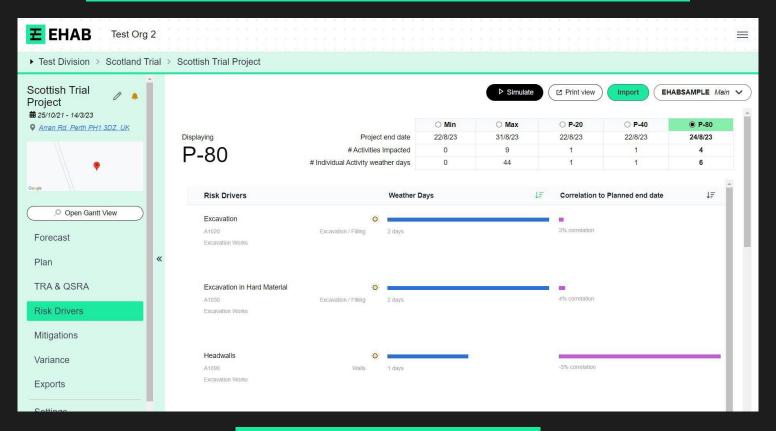
Give your largest projects state of the art weather analysis

Benefits

- Put the correct amount of risk in the risk pot
- Have more money in the pot agreed with your client

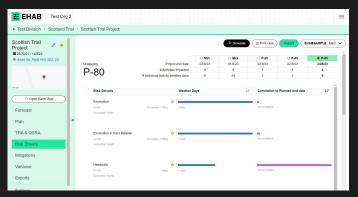
Get the correct amount of risk in the pot

Identify key risk activities with the risk drivers features



Take rapid & focused action

Identify key risk activities with the risk drivers features



Features

- Use our tornado chart to filter activities with the most weather days
- Use the tornado chart to filter activities with the greatest correlation to the end date

Risk Drivers

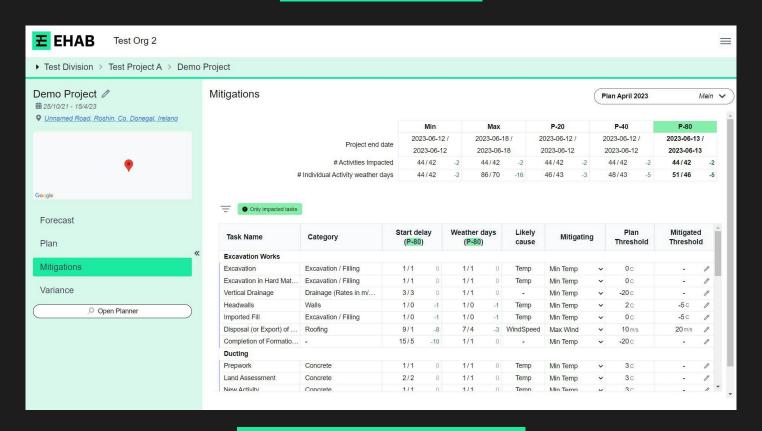
Identify the key bottlenecks in your project

Benefits

- Spot key risks early on
- Leverage the data to create strategies on how to mitigate the risks

Take rapid & focused action

Assess mitigations



Make quantifiable savings

Assess mitigations



Features

- View a list of all activities which are pushing your end data
- Simulate mitigations and see the impact on end date
- See the Min, Max, P-20, P-40 & P-80 results

Mitigations

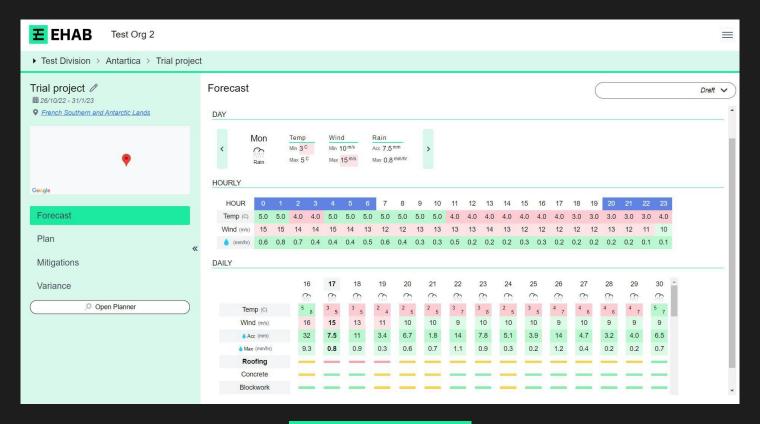
Understand the cost benefit of all weather mitigations, identify hidden savings

Benefits

- Identify the best opportunities for mitigation
- Understand the time benefit on the end date for that mitigation
- Take the best mitigation options to increase float and limit impact on end date
- Use data to backup and justify mitigation options to your client

Make quantifiable savings

Plan weather windows



Avoid downtime

Plan weather windows



Features

- Get hourly data, 15 days out, for your specific location
- Identify weather windows, highlighted in green, for when specific activity types can go ahead
- Receive a daily email to notify you of issues in time for your stand up meeting

Short term planning

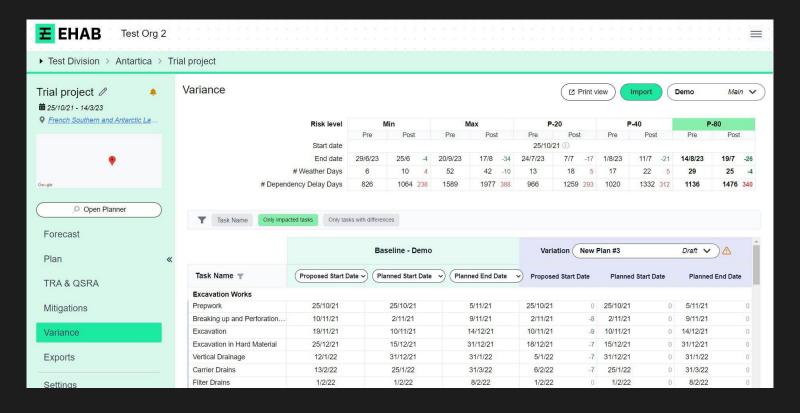
Plan weather windows, avoid cancelled shifts, save time

Benefits

- Have all weather data in one place to save time looking at various sources
- See exactly what time of day activities can take place, helping proactively plan the coming days
- Keep the whole team in the loop with an automated email with key data
- Avoid cancellation fees

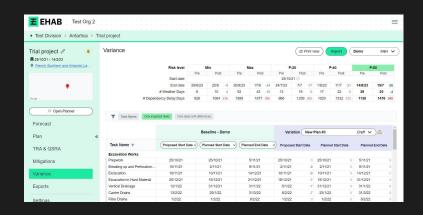
Avoid downtime

Manage change as the project shifts



Gain assurance throughout the project

Manage change as the project shifts



Features

- Compare 2 versions of your plan
- Easily compare change in weather days and in end dates
- See the Min, Max, P-20, P-40 & P-80 results

Variance analysis

Re-price correctly throughout project and communicate changes in the baseline

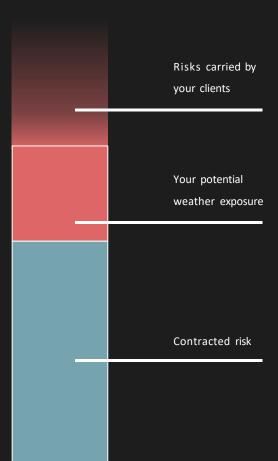
Benefits

- Understand changes to baseline, allowing forward planning of mitigations
- Re-price contract changes accurately to ensure you maintain your margin
- Use data to communicate more effectively with project team
- Use data to identify the best methodologies

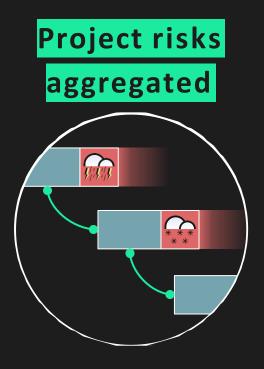
Gain assurance throughout the project

Project risks aggregated * * *

Project risk pot

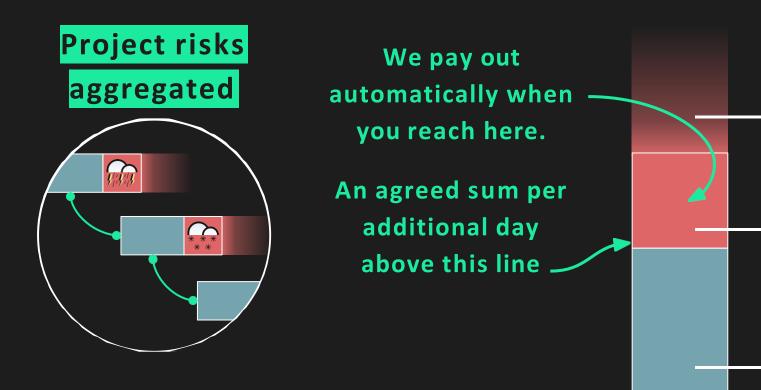


Project risk pot





Project risk pot

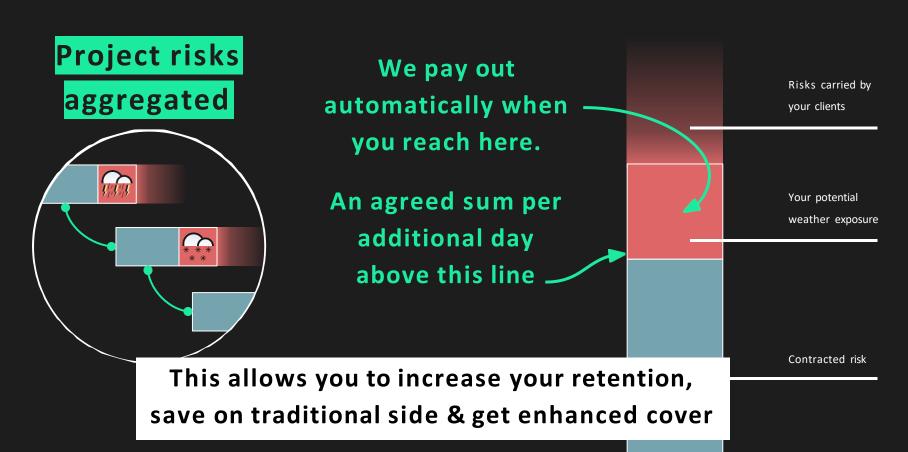


Risks carried by your clients

Your potential weather exposure

Contracted risk

Project risk pot





We can make you a climate resilient contractor

Optimize

your project.

Proactively manage

weather risks.

Consistent approach

to climate risk.

The Result:



Save thousands in avoided down days and improved utilisation



Win more work



Make better risk decisions and reduce project by as much as 16%



Save money on your insurance renewal



Avoid loss from extreme weather

Who are EHAB?

EHAB is a UK based tech company founded on cutting edge research funded by the UK government. Since 2020 they have worked with BAM Nuttall, Ferrovial and other leading contractors on some of the largest infrastructure projects in Europe. These range from HS2, to large road building schemes for National Highways, to complex energy projects with National Grid.

The EHAB mission is to help the construction industry adapt to the climate crisis and make the industry resilient to the incredibly difficult conditions that are already, and will be, thrown its way.















"Agile and fresh partners such as EHAB can objectively examine the way we do things in the industry and work on how to overcome the embedded behaviours and practices that are stifling productivity growth."

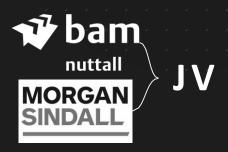
Colin Evison, Head of Innovation, BAM Nuttall

Enhancing Smart Motorways Alliance





Balfour Beatty



Integrating with QSRA

for better long term decision making

Improving weather allocation in contract risk pot

Being used on 96 km of new road schemes across the UK

(1,176 km by project end)



Augmenting Dawlish Warren Sea Defences



Within 3 months during the construction phase

£18,500 saved in avoided cancellation fees & down time



Who we work with

Customers







nationalgrid





Consultant Partners









Insurance Partners











Precision Weather & Risk Assessment Forecasts









Deltek.

Marketplace Partner

Want to work with EHAB to solve weather risk on your next project?

Book a 30 minute demo