



Safran Risk

# Overview



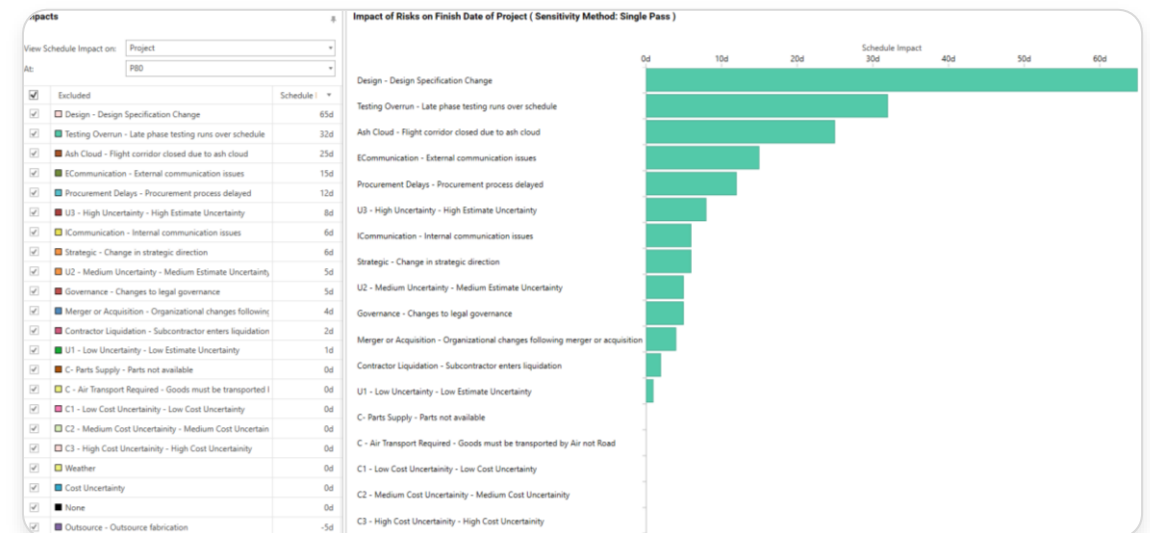
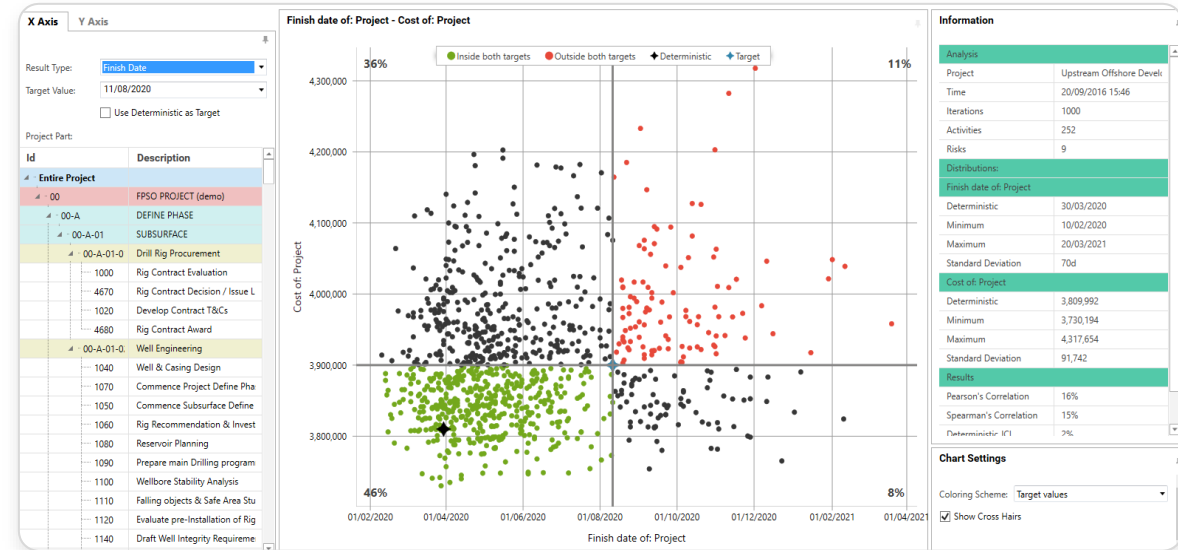
# Safran Risk

## Overview

- Advanced quantitative schedule
- Cost Risk analysis solution
- Real-time simulation

## Key Features

- Combines cost and schedule risk analytics (uncertainty, traditional and calendar)
- Able to risk-manage thousands of activities
- Best-in-class reporting
- Integrates core Safran Project functions
- Full Safran Project available as an upgrade





# Safran Risk – Functional Description

## Overview

Safran Risk is a quantitative schedule and cost risk analysis tool. It has an intuitive interface that guides you through your risk analysis process. It is built on best-practice processes with inputs to the left and reports to the right side. Safran Risk embeds Safran's powerful scheduling engine which lets you take control of your project's uncertainties and increase the probability of delivering on time and cost.

## Schedule

Safran Risk comes equipped with a state-of-the-art scheduling tool. Safran Project is built-in to the schedule interface and has all the capabilities you need to create complex schedules within Safran Risk or import from external software. Risk analysis is an iterative process, and the ability to jump quickly between the scheduling tool and analysis for adjustments is a real time saver. Advanced scheduling reports, baseline and progress functionality is not included by default, but it is possible to unlock with a Safran Project license.

## Cost Risk

Cost risk and schedule risk is normally done in separate tools. Moving the risk analysis between two or more tools is complex and weakens the integrity of the data in the analysis. Safran Risk is unique in that it combines the two in one and the same tool. The benefits of this integrated model are many. Not only is it a huge time saver when you consider that these analyses are recommended to be run several times during the lifecycle of a project. But because the data is kept in the same application and risk model, it is also a great quality assurance of the output of the analysis.

## Schedule Warnings

The Schedule Warnings tab is a functionality that will automatically check your schedule for any inconsistencies or lack of logic. Based on the principles of the 14 pts. Assessment method from the US Defence Contract Management Agency, the Schedule Warnings tab will light up with warnings whenever there is anything you need to address in your schedule. A good quality schedule is important for the output of your risk analysis. The warnings are interactive and will take you directly to the activity in your schedule that needs your attention when you click them.

## Risk Register

Keep track of all your project risks in the risk register. You can add and edit any risks you want to include in your analysis. Set different risk types and probabilities, define the schedule or cost impact and set up pre- and post-mitigated positions. You can also add mitigation costs. The risk register also allows you to define whether risks impact activities independently. There are several distribution types to model your risks with, for example triangle, tri-gen, beta-pert, standard deviation and uniform to mention some.

## Risk Correlations

You can set up complex relationship models between all your project risks in the risk correlation matrix. This module lets you define how risks will affect other risks. For example, when one risk occurs it can positively or negatively affect the probability of another risk occurring.

## Risk Mapping

Mapping your risks to the schedule is easily done in the risk mapping tab. You can group your schedule in any way you like and map across whole groups of activities using filters. For each activity it is possible to customize how the risks associated with it should behave. Real-time distribution calculation shows you an approximation of the combined impact of all the risks you assign to an activity and is a useful tool for risk workshops.

## Analyse

The analysis takes all your data from the schedule, cost and risk mappings and quickly runs several thousands of iterations on your model. In the analyse module you can select what risks to include in your analysis. For each risk you include you have the option to set it to a pre- or post-mitigated state. Set whether you want your analysis to include your risk correlations or not. Finally, you can pick out focus activities and cost elements that can be highlighted easily in your reports.

## Reporting

After the analysis is done Safran Risk provides you with several interactive reports for you to dive in to. Distribution Graph, Risk Drivers, Sensitivity Analysis, Scatter Plot, Distribution Comparison and Critical Path Map all have different focus areas. They cover all you need to provide an accurate picture of the risk level of your project and the probability of delivering on time and cost. The reports can easily be adjusted interactively in real-time to focus on cost, duration or both. In addition, there are several parameters you can customize, edit and tune to your liking for each report to get the most important information in focus. This level of interactivity and real-time updates makes the reports a useful tool for risk workshops where you can get instant feedback from suggestions and discussions visualised on-screen. Reports can easily be printed or copied out to be included in presentations.

## Global Risk

Safran Risk lets you set up global risks that can easily be used for any project you create. This is an excellent way to standardize common risks that you use often across your organization. You can pick and choose from the global risks when you are building your projects risk register.

## Risk Calendar

The risk calendar functionality offers a powerful way to calculate the effect that the weather may impose on your project. Import real time-series of data for given geographical locations and model those risks which result in a variable amount of calendar downtime. Safran Risk is the only tool on the market that allows you to provide this information using real data from weather information databases.

## Import and Export data

Safran Risk supports importing and exporting to and from Microsoft Project (XML) and Primavera P6 (XER). Standard Windows functionality such as copy and paste to and from Excel is also supported. Predefined Excel templates can be created from the application and allows you to easily import your data in the correct format.

# Some of our customers



STATSBYGG



SYKEHUSBYGG



BILFINGER



Hydro

VATTENFALL



NESTE

Statnett



Valmet  
FORWARD

ConocoPhillips

BOLIDEN

AVINOR

ABB



Shaping the future.

arctech

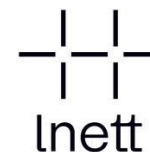


vår energi

equinor



REPSOL



Inett



WorleyParsons  
resources & energy

AkerSolutions™



subsea 7

aibel

KVERNER™

KCA DEUTAG

MEYER TURKU  
SHIPYARD 1787



CAMERON

Navantia

Technip  
take it further.

Archer  
The well company



Safran

APPLY SØRÇO



FOSEN YARD  
MAKES THE FUTURE AT SEA



ODFJELL DRILLING

DEEPOCEAN

A large red and white offshore supply ship, the SUCSEB, is shown at sea. The ship has a complex superstructure with multiple decks, ladders, and cranes. In the background, another ship is visible on the horizon under a cloudy sky.

# Safran Risk

[www.safran.com](http://www.safran.com)