



Safran Risk

A modern alternative to Oracle Primavera Risk Analysis (OPRA)

September 2020

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(and Principal of Australasian Project Planning)



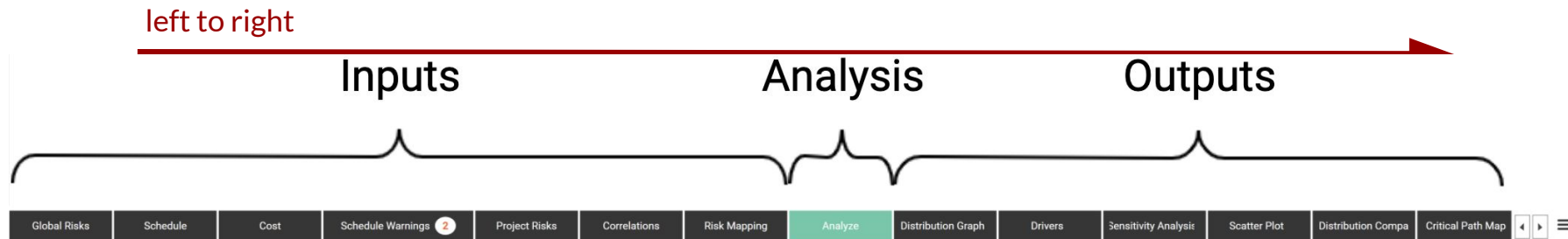
Topics

1. Why Move from OPRA to Safran Risk?
2. Who are Allinno and Safran?
3. Considerations when moving to Safran Risk
4. Demonstration of the Real World advantages of Safran Risk over OPRA
5. Recap
6. Q&A Chat and Live Audio
7. For More Information



Why Move from OPRA to Safran Risk?

- Stable platform with strong enhancement roadmap
- Faster analysis with more collaborative team interactions
- Stay with your basic OPRA process
- Or adopt more insightful techniques such as Risk Drivers*
- Intuitive “left to right” tab navigation to aid user adoption
- Safran command menus mimic P6 to aid user adoption
- Reschedule activities within Safran Risk



*Risk Drivers by David T. Hulett



Who Are Allinno and Safran?



Allinno Pty Ltd is an Australian consultancy, who is the Australian and New Zealand representative for



Safran Risk™

Allinno is fascinated by technological innovation and the enabling power it has for organisations to transform their ways. Our heritage is helping large enterprises gain better outcomes from information technology. Our clients include:



Safran Risk™

For more more than two decades, Europe based Safran has been developing project controls software with a commitment to continuous improvement and solving real world needs.

Safran Risk, developed by members from the original Primavera Risk Analysis team, is the modern choice for savvy Risk Analysis.



Considerations when moving to Safran Risk

- getting started

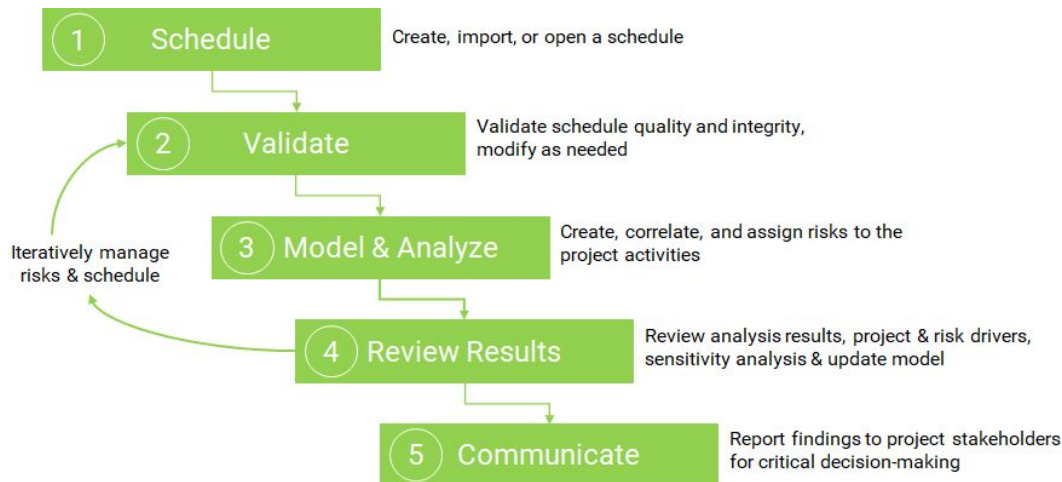
To get ready to move off OPRA consider:

- Objectives of risk analysis, eg. ad-hoc, all pre-contract or full project life cycle
- The causes of uncertainty on a project, rather than the outcomes
- Data sources and how you can utilise these

Replicating OPRA is possible, and is a good starting point for gaining the benefits of Safran Risk.

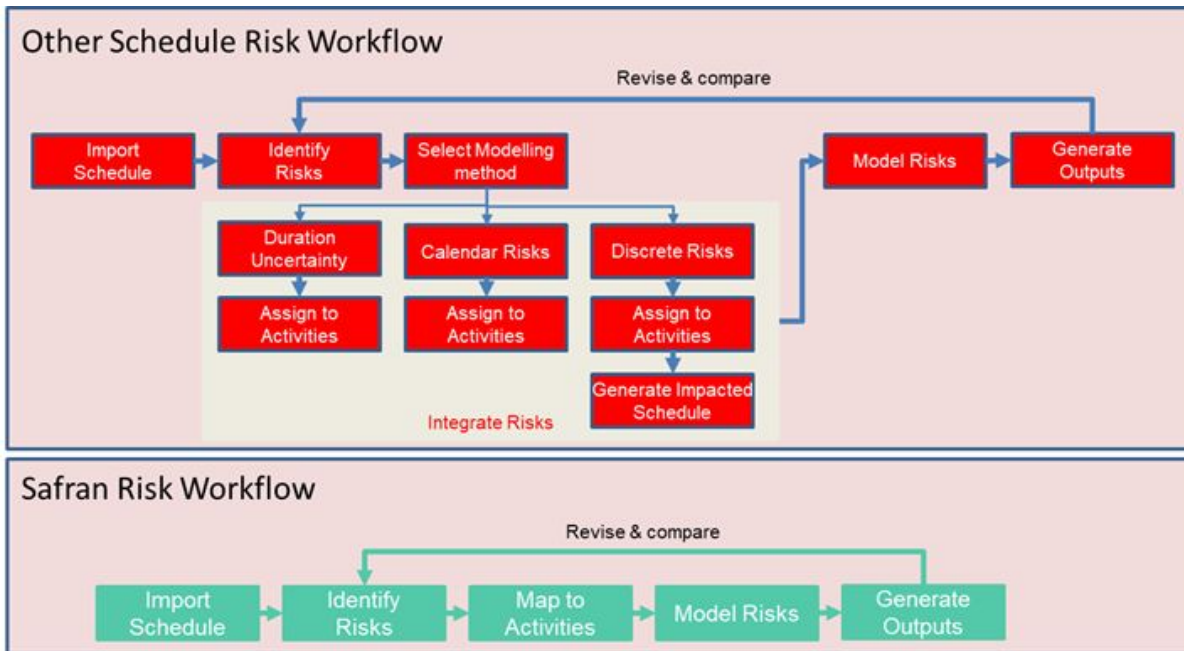


Safran Risk Process



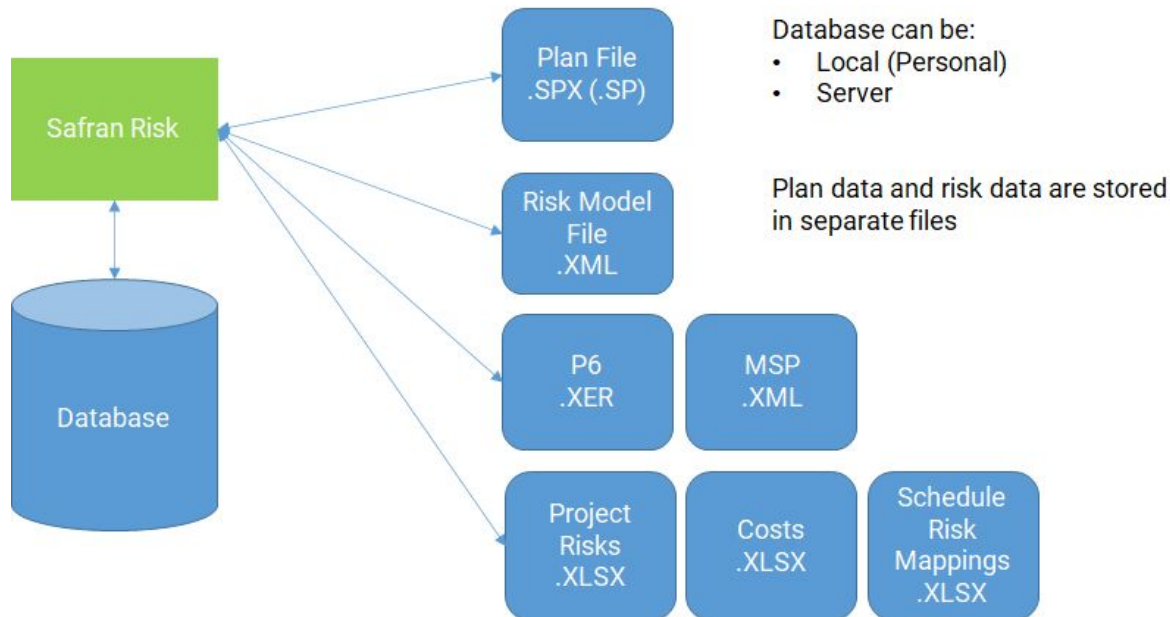


Safran Risk Workflow





Safran Risk Data



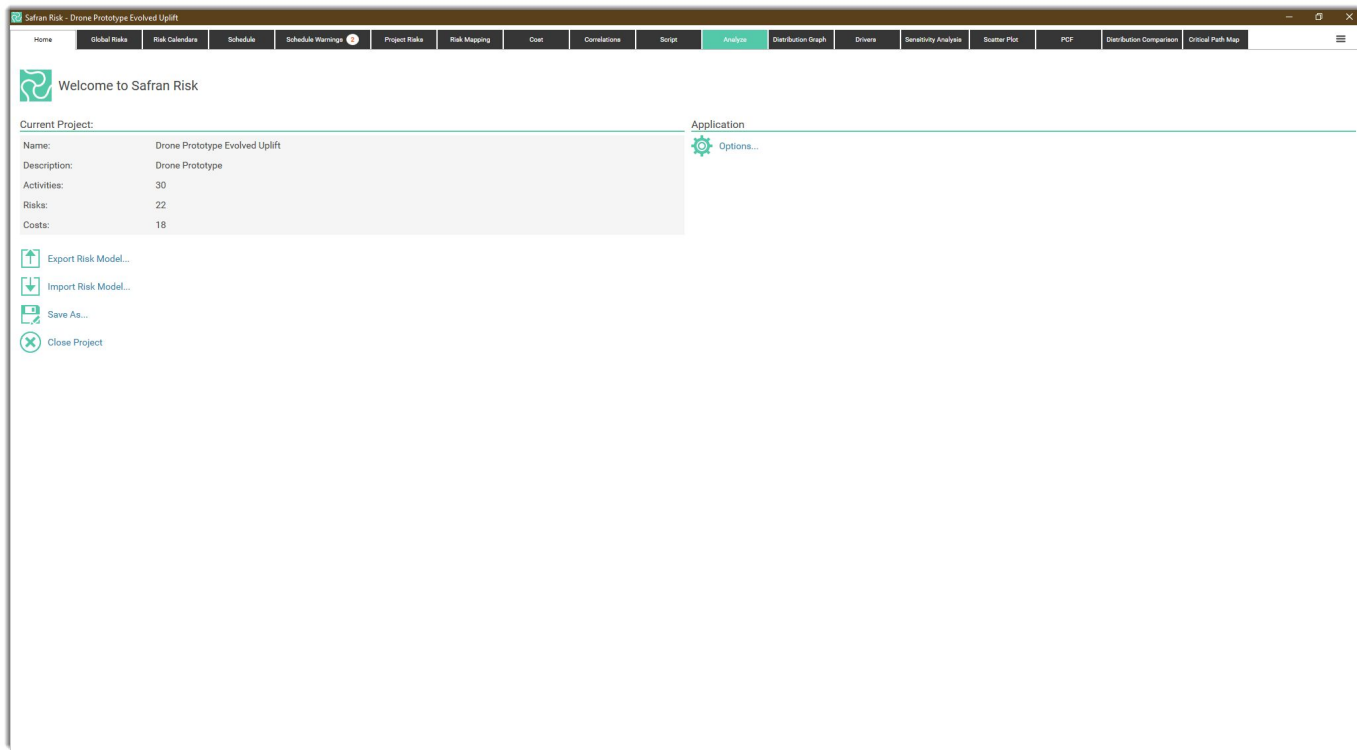


Demo of the advantages of Safran Risk

- Intuitive “left to right” tab navigation to aid user adoption
- Dynamic schedule quality assessments
- Scheduling capabilities familiar to OPRA and P6 users
- Modify and reschedule projects within Safran Risk
- Single risk driver register capturing all inputs
- Faster analysis with more collaborative team interactions
- Adopt more insightful techniques and produce high quality outputs
- OPRA issues about speed, bugs and “user friendliness” removed



Demo Home Tab





Demo Global Risks

Safran Risk - Drone Prototype Evolved Uplift

Home Global Risks Risk Calendar Schedule Schedule Warnings Project Risk Risk Mapping Cost Correlations Script Analyse Distribution Graph Drivers Sensitivity Analysis Scatter Plot PDF Distribution Comparison Critical Path Map

New Global Risk Delete Global Risk Copy Paste Import Export

Id	Description	Risk Type	Probability	Color
Ash Cloud	Flight corridor closed due to ash cloud	Standard	5%	Orange
Contractor Liquidation	Subcontractor enters liquidation	Standard	18%	Pink
Design	Design specification change	Standard	50%	Green
ECommunication	External communication issues	Standard	40%	Dark Green
Governance	Changes to legal governance	Standard	20%	Red
High Uncertainty	High Uncertainty	Standard	100%	Red
ICommunication	Internal communication issues	Standard	15%	Red
Low Uncertainty	Low Uncertainty	Standard	100%	Yellow
Medium Uncertainty	Medium Uncertainty	Standard	100%	Yellow
Merger or Acquisition	Organizational changes following merger or acquisition	Standard	10%	Blue
Poor Flying Conditions	Unable to test due to poor weather conditions	Calendar	100%	Blue
Procurement Delays	Procurement process delayed	Standard	35%	Blue
Strategic	Change in strategic direction	Standard	25%	Orange

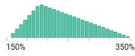
Impacts of Ash Cloud

☐ Impact activities independently

Pre-Mitigated Position

☒ Schedule Impact

Type: Relative Distribution: Triangle Min: 150% Likely: 200% Max: 350%



☐ Cost Impact

Post-Mitigated Position

☐ Action

Post-Mitigated Probability: 5%

☐ Schedule Impact

☐ Cost Impact

Mappings

Notes

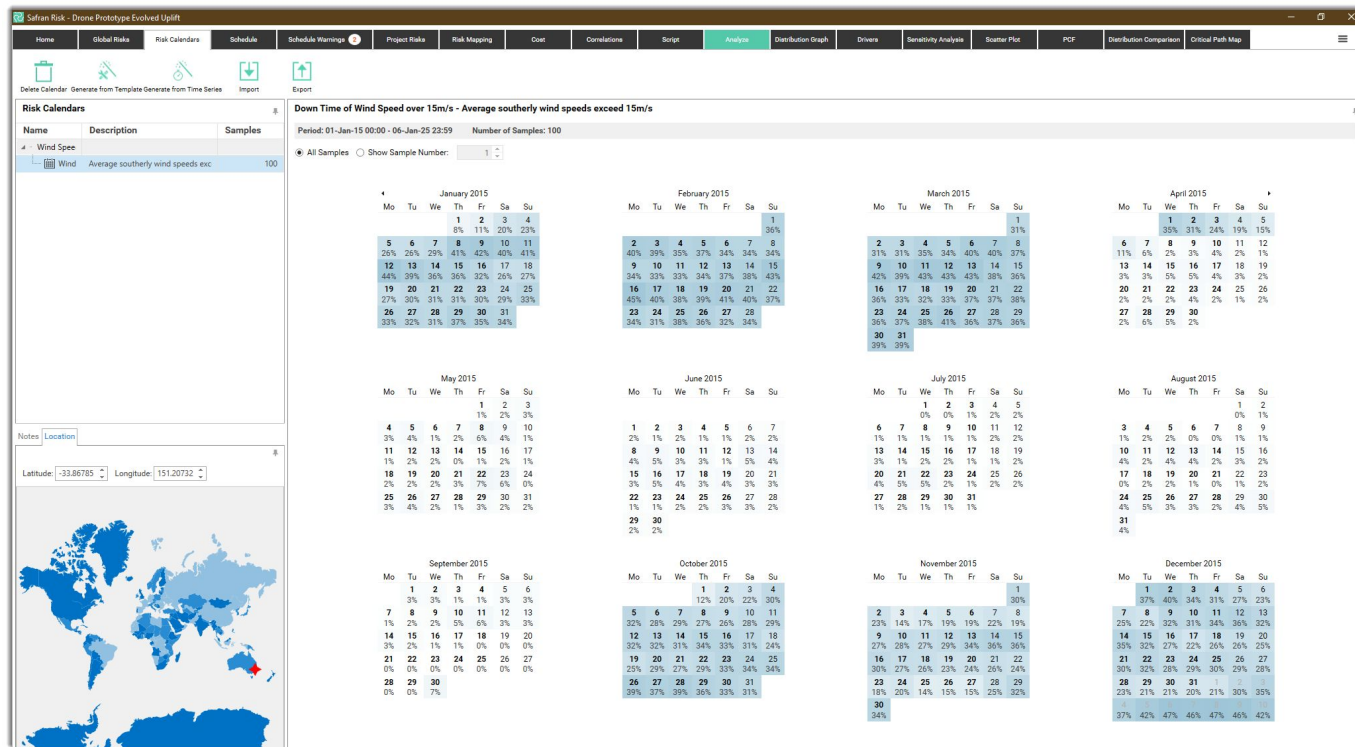


Demo Risk Calendars

September 2020 - Move from OPRA to

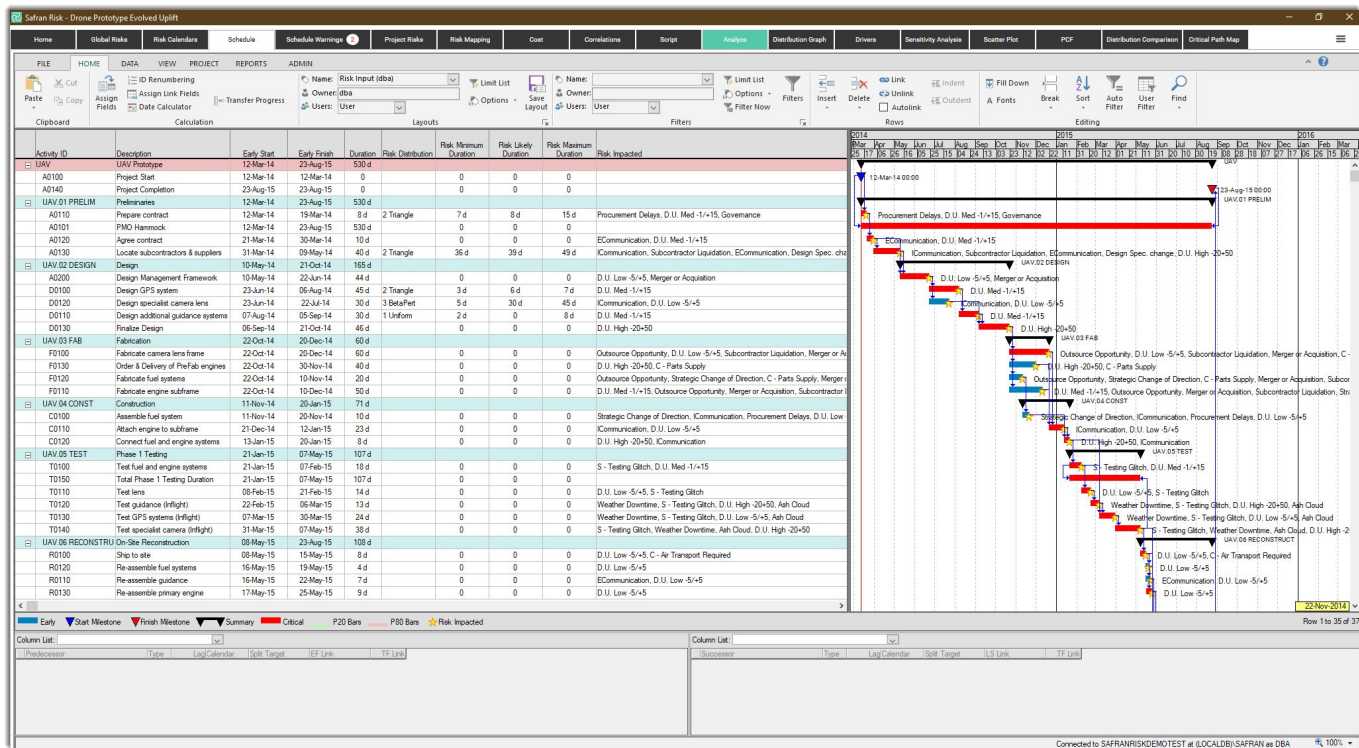


Prepared by
ALLINNO PTY LTD





Demo Schedule Tab





Demo Schedule Warnings

Safran Risk - Drone Prototype Evolved Uplift

Home Global Risk Risk Calendar Schedule Schedule Warnings Project Risk Risk Mapping Cost Correlations Script Analyse Distribution Graph Drivers Sensitivity Analysis Scanner Plot PCF Options

Open Items Accepted Items All Items Export

Schedule Warnings

Activity ID	Description	Warning	Accept	Notes
Constraints (1 item)				
A0100	Project Start	Constrained activity with Must Start On constraint	<input checked="" type="checkbox"/>	
Lags (2 items)				
A0110	Prepare contract	Lag exceeds acceptable. Activity duration is 8d, and lag duration is 1d	<input type="checkbox"/>	
R0100	Ship to site	Lag exceeds acceptable. Activity duration is 8d, and lag duration is 1d	<input type="checkbox"/>	
Relationships (1 item)				
A0100	Project Start	Open-ended activity with No Predecessors	<input checked="" type="checkbox"/>	N/A - Every plan expected to have one of these

Constraints To Check

- As Late As Possible ☒
- Finish On ☒
- Finish On Or After ☒
- Finish On Or Before ☒
- Must Finish On ☒
- Must Start On ☒
- Start On ☒
- Start On Or After ☒
- Start On Or Before ☒

Lags To Check

- Accepted percentage 10 ☐
- Lags on zero duration ☐
- Lags over accepted... ☒
- Negative Lags ☒

Relationships To Check

- No Predecessors ☒
- Start Has No Predecessors ☒
- No Successors ☒
- Finish Has No Successors ☒
- Progress Out Of Sequence ☒
- Start To Finish Link ☒



Demo Project Risks

Safran Risk - Drone Prototype Evolved Uplift

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Filter New Project Risk Delete Project Risk Global Risks: [x] Include in Project Copy Paste Excel

Project Risks

ID	Description	Risk Type	Probability	Color
Ash Cloud	Flight corridor closed due to ash cloud	Standard	40%	Brown
C - Air Transport Required	Goods must be transported by Air not Road	Standard	30%	Yellow
C - Parts Supply	Parts not available from preferred supplier	Standard	15%	Orange
C - Testing Glitch E	Reactive fix needed during testing beyond expected calibrations	Standard	37%	Purple
C.U. High Cost Uncertainty	High Cost Uncertainty	Standard	100%	Pink
C.U. Low Cost Uncertainty	Low Cost Uncertainty	Standard	100%	Magenta
C.U. Med Cost Uncertainty	Medium Cost Uncertainty	Standard	100%	Light Green
D.U. High -20+50	High Uncertainty	Estimate Uncertainty	100%	Dark Red
D.U. Low -5/+5	Low Uncertainty	Estimate Uncertainty	100%	Green
D.U. Med -1/+15	Medium Uncertainty	Estimate Uncertainty	100%	Orange
Design Spec. change	Design specification change	Standard	50%	Blue
ECommunication	External communication issues	Standard	40%	Dark Green
Governance	Changes to legal governance	Standard	20%	Red
ICommunication	Internal communication issues	Standard	70%	Yellow
Merger or Acquisition	Organizational changes following merger or acquisition	Standard	10%	Dark Blue
Outsource Opportunity	Outsource fabrication to larger provider	Standard	10%	Purple
Procurement Delays	Procurement process delayed	Standard	35%	Teal
S - Testing Glitch	Reactive fix needed during testing beyond expected calibrations	Standard	37%	Teal
Strategic Change of Direction	Change in strategic direction	Standard	25%	Light Blue
Subcontractor Liquidation	Subcontractor enters liquidation	Standard	5%	Pink
TestRisk	COVID Lost Production	Estimate Uncertainty	100%	Yellow
Weather Downtime	Wind Speed Over 15m/s (33mph)	Calendar	100%	Yellow

Impacts of Design Spec. change

☐ Impact activities independently

Pre-Mitigated Position

☒ Schedule Impact

Type: Absolute Distribution: Triangle Min: 8d Likely: 10d Max: 15d
Days Hours

☒ Cost Impact

Type: Absolute Distribution: Triangle Min: 80 Likely: 100 Max: 150
80 150

Post-Mitigated Position

☒ Action ☒ Alternate position based on Action

Probability of Execution: 50% Probability of Success: 80%

Effects on Model

Amount	Activity	Cost Element	Description
2d	D0130 - Finalize Des		Key Stakeholder Optioneering Presentation
5,000		Proposed Mitigation	Book Venue for Optioneering Presentation

Add Duration Add Cost Remove

Post Mitigated Probability: 10%

☒ Schedule Impact

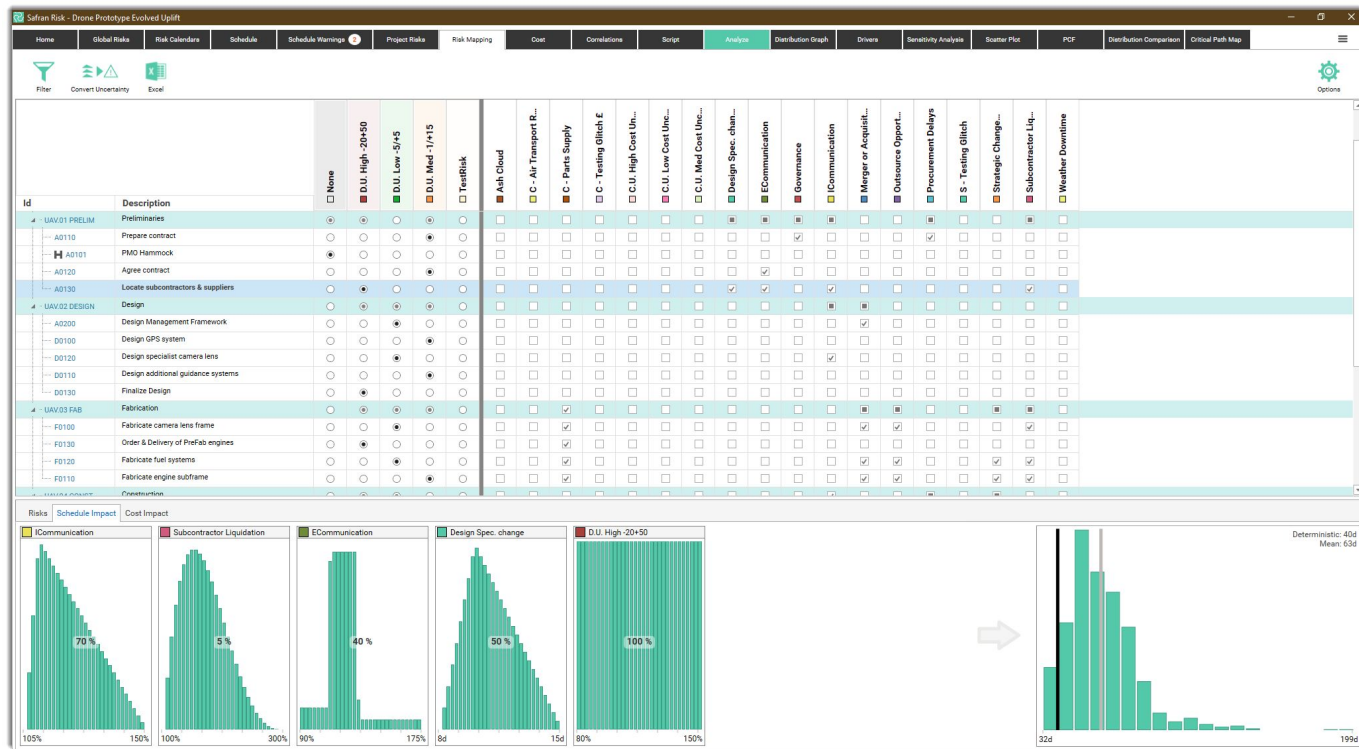
Type: Absolute Distribution: Triangle Min: 4d Likely: 5d Max: 8d
Days Hours

☒ Cost Impact

Type: Relative Distribution: Triangle Min: 80% Likely: 100% Max: 120%
80% 120%

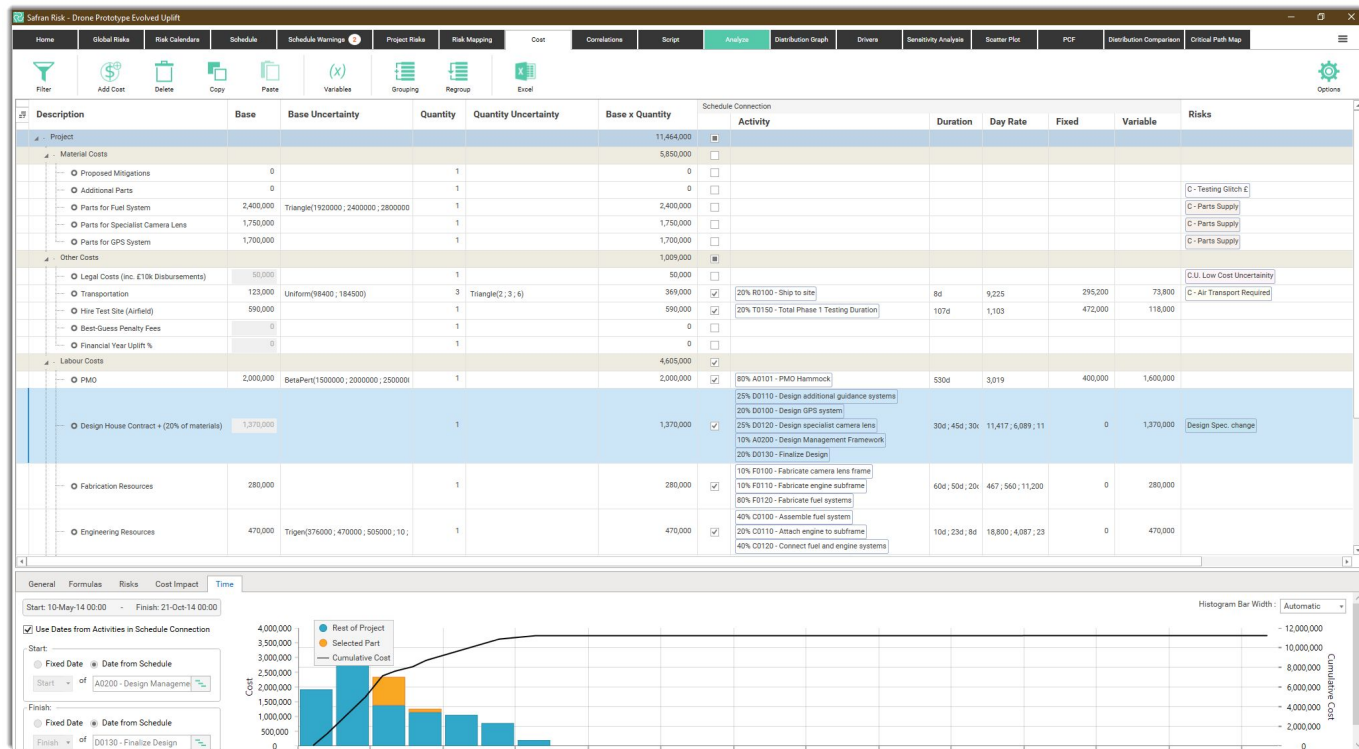


Demo Risk Mapping





Demo Cost





Demo

Correlation





Demo Script

Safran Risk - Drone Prototype Evolved Uplift

Home Global Risks Risk Calendar Schedule Schedule Warnings Project Risks Risk Mapping Cost Correlations Script **Analyze** Distribution Graph Drivers Sensitivity Analysis Scatter Plot PDF Distribution Comparison Critical Path Map

Function: Indent Options

```
1 //function BeforeScheduleAnalysis()
2 {
3   //If(RiskEvent(Merger or Acquisition).Occurred)
4   {
5     // If Risk occurs then other risk also occurs
6     // RiskEvent(Communication).Occurred = true;
7   }
8 }
9
10
11 }
```



Demo Analyse

Safran Risk - Drone Prototype Evolved Uplift

Home Global Risk Risk Calendar Schedule Schedule Warnings Project Risk Risk Mapping Cost Correlations Script Analyse Distribution Graph Drivers Sensitivity Analysis Scatter Plot PDF Distribution Comparison Critical Path Map

Run Analysis Filter

Included Risks

	Mitigation	Id	Description
	Pre Post		
<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	Ash Cloud	Flight corridor closed due to ash cloud
<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	C - Air Transport Require	Goods must be transported by Air not Road
<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	C - Parts Supply	Parts not available from preferred supplier
<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	C - Testing Glitch E	Reactive fix needed during testing beyond expected ca
<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	C.U. High Cost Uncertain	High Cost Uncertainty
<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	C.U. Low Cost Uncertain	Low Cost Uncertainty
<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	C.U. Med Cost Uncertain	Medium Cost Uncertainty
<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	D.U. High -20+50	High Uncertainty
<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	D.U. Low -5/+5	Low Uncertainty
<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	D.U. Med -1/+15	Medium Uncertainty
<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	Design Spec. change	Design specification change
<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	ECommunication	External communication issues
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<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	Procurement Delays	Procurement process delayed
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<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	Subcontractor Liquidatio	Subcontractor enters liquidation
<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	TestRisk	COVID Lost Production
<input checked="" type="checkbox"/>	<input checked="" type="radio"/> <input type="radio"/>	Weather Downtime	Wind Speed Over 15m/s (33mph)

Analysis Options

Iterations

☐ Stop at Convergence

☒ Seed

☐ Use Latin Hypercube Sampling

☒ Include Correlations

☐ Resource level after each iteration

☐ Step through

Run Analysis

Focus Activities

Select	Remove	Description
<input type="checkbox"/>	<input type="checkbox"/>	F0100 Fabricate camera lens frame
<input type="checkbox"/>	<input type="checkbox"/>	D0100 Design GPS system
<input type="checkbox"/>	<input type="checkbox"/>	A0140 Project Completion
<input type="checkbox"/>	<input type="checkbox"/>	D0130 Finalize Design
<input type="checkbox"/>	<input type="checkbox"/>	T0150 Total Phase 1 Testing Duration

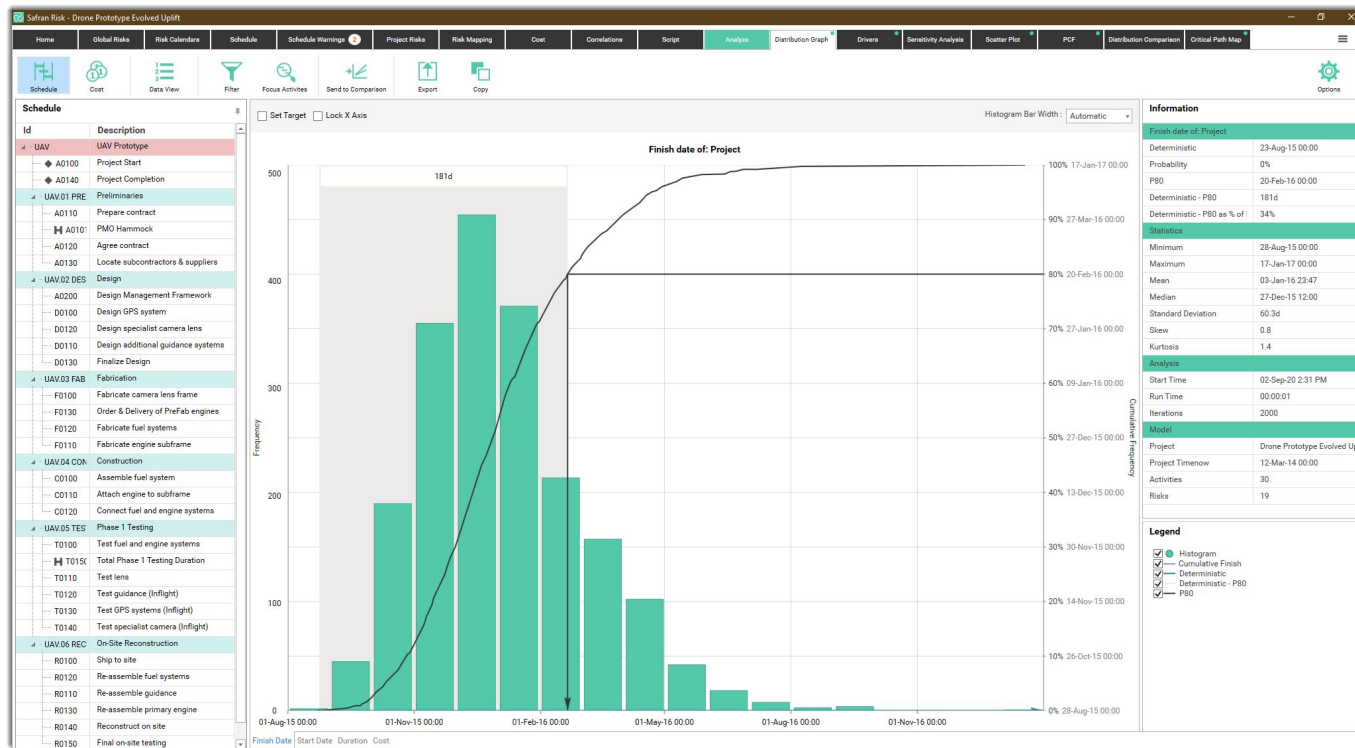
Focus Costs

Select	Remove	Description
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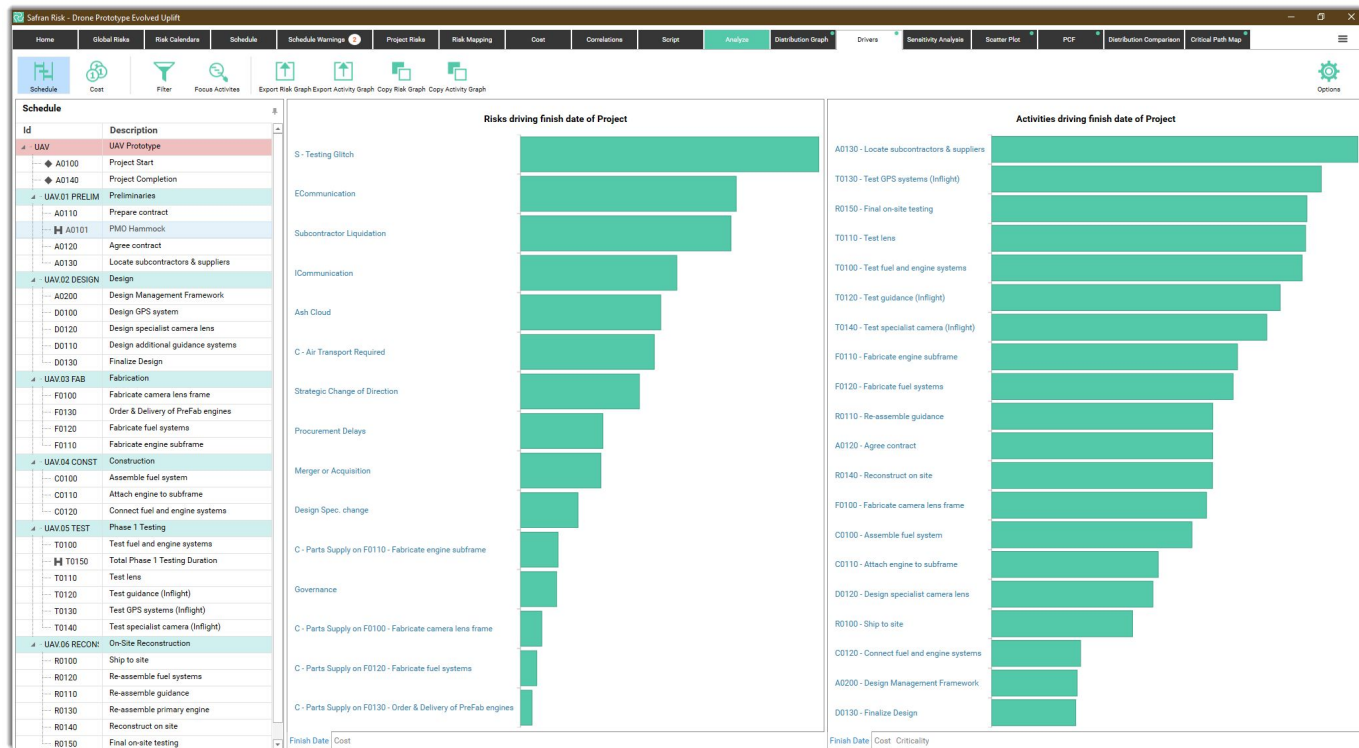
Safran RiskTM

Demo Distribution Graph



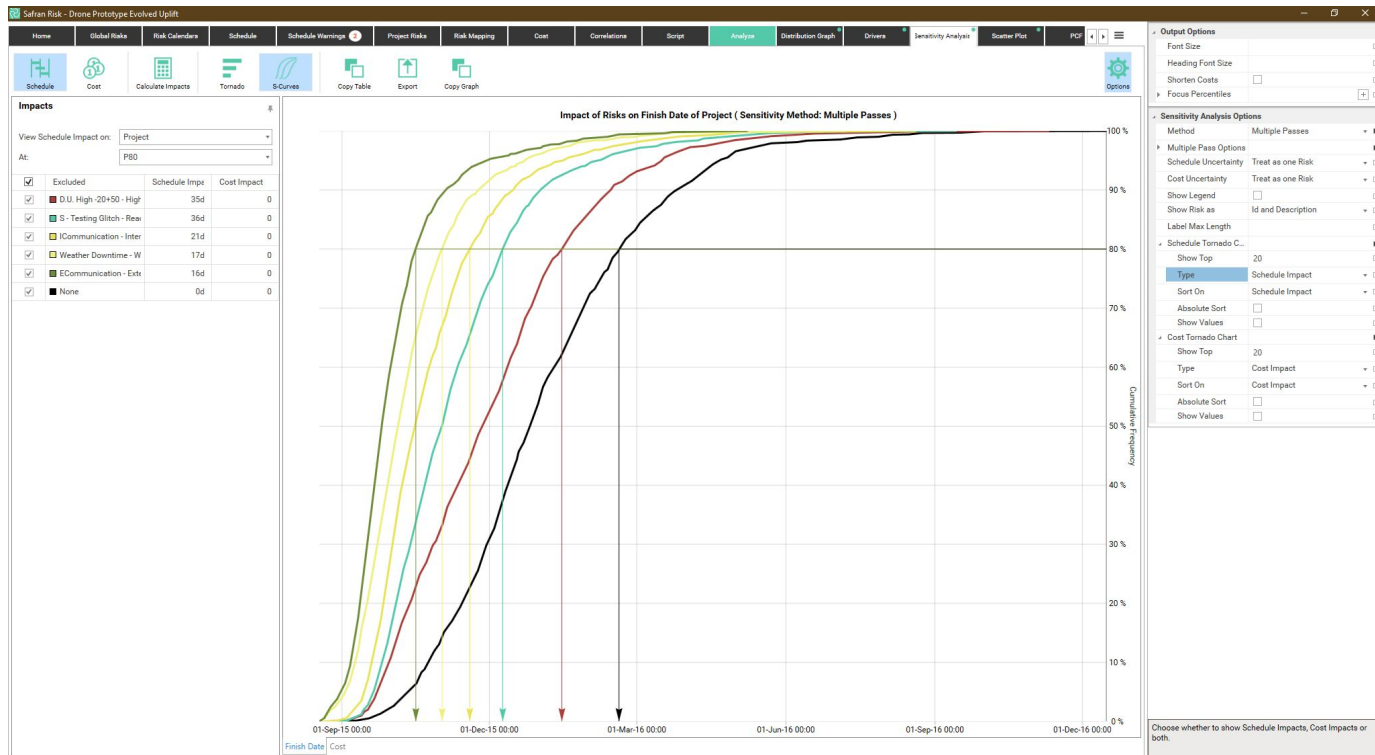


Demo Drivers



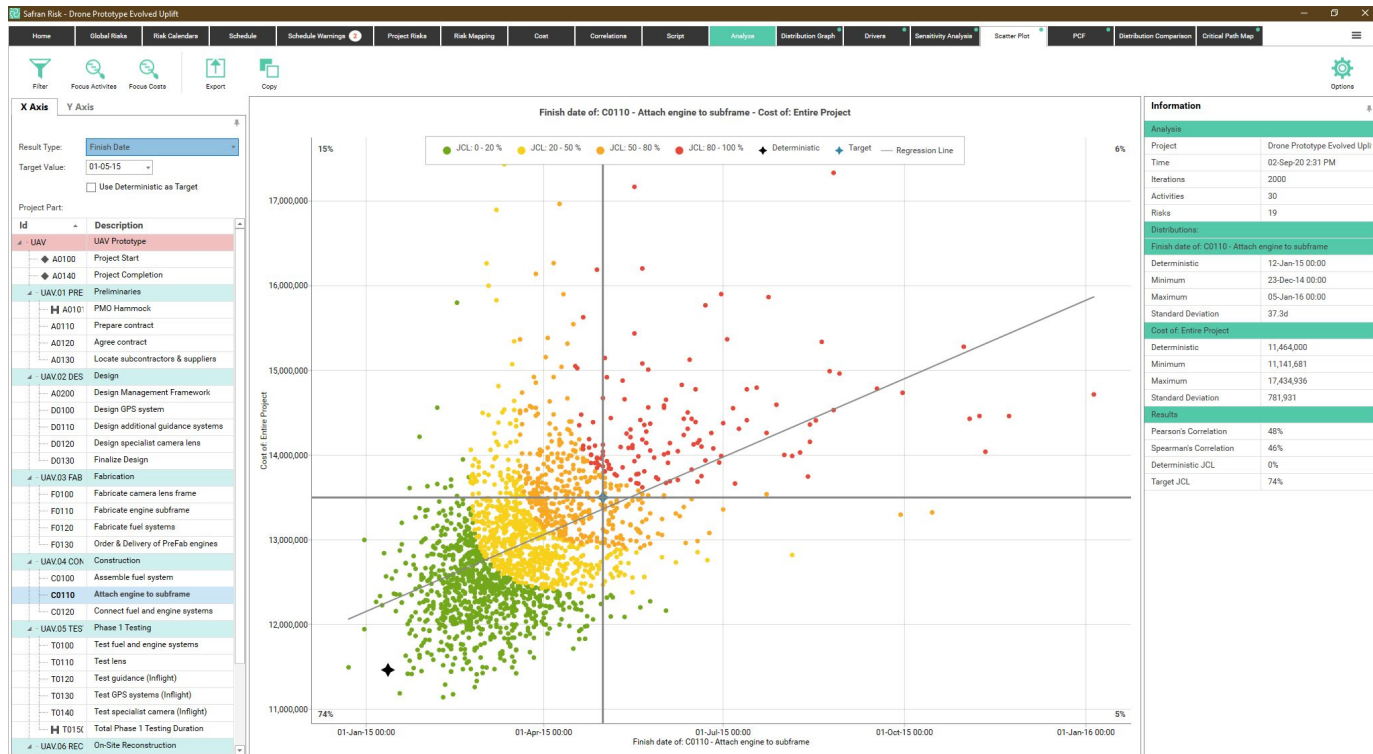


Demo Sensitivity Analysis



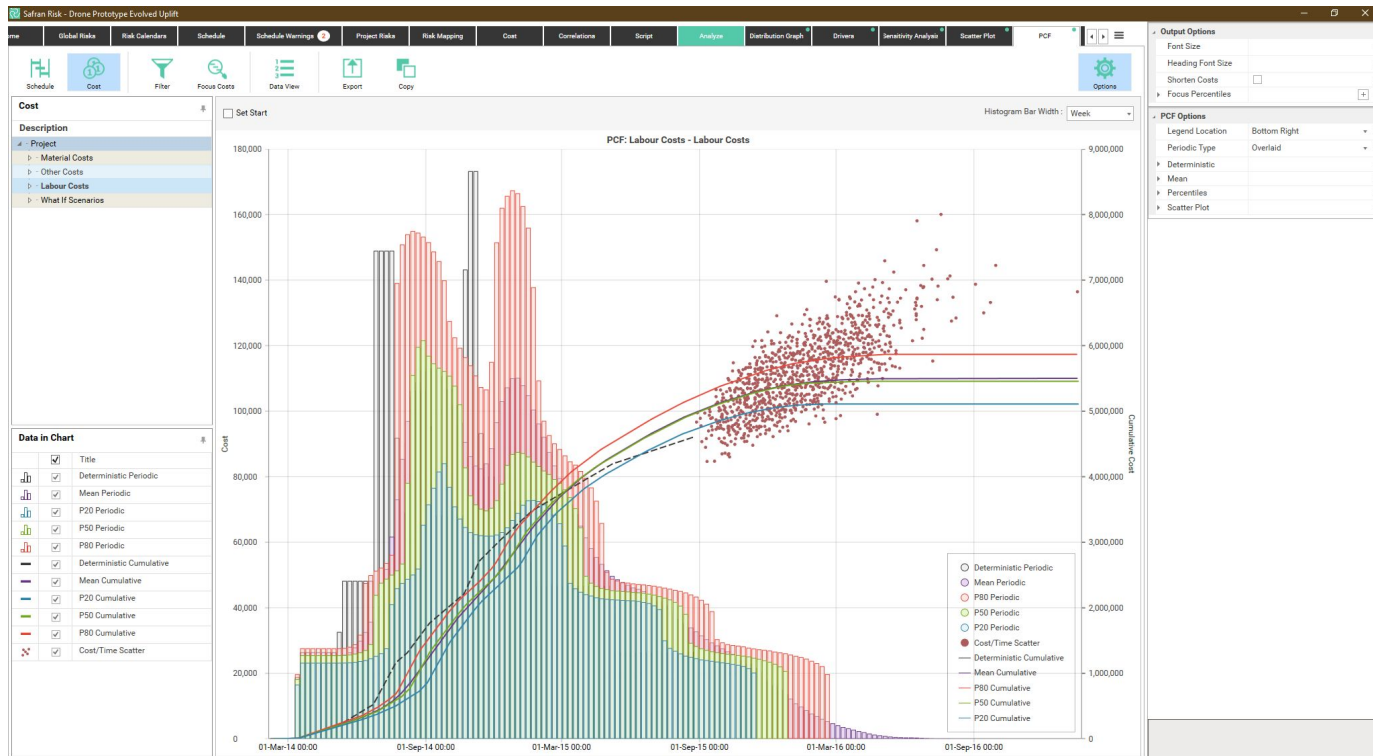


Demo Scatter Plot



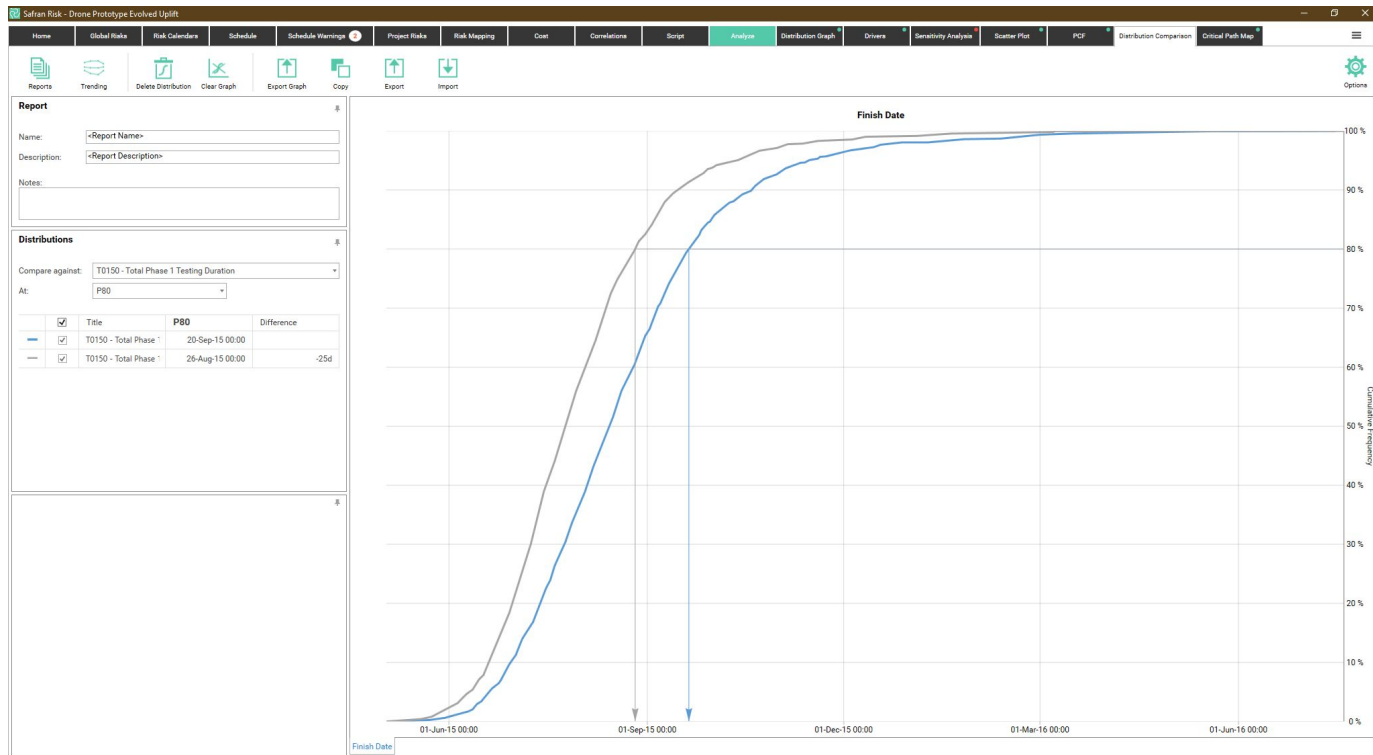


Demo Probabilistic Cash Flow



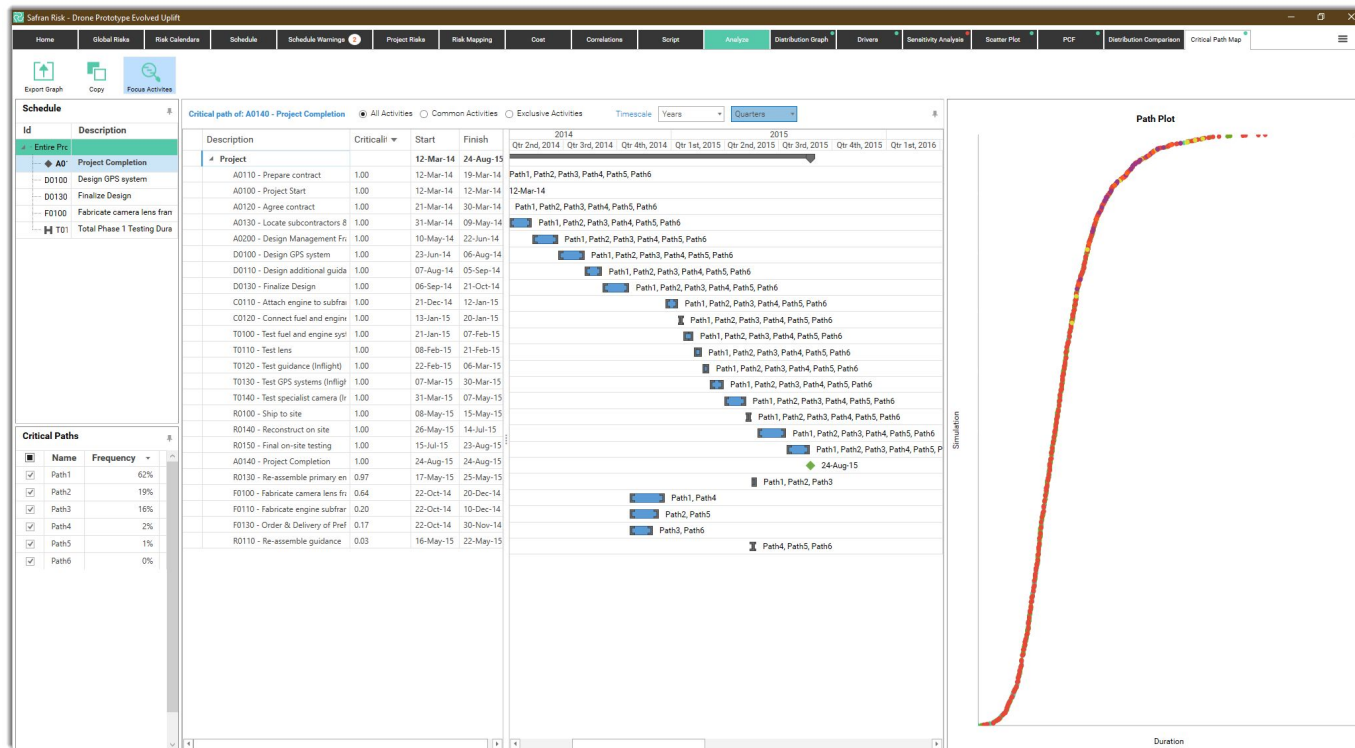


Demo Distribution Comparison





Demo Critical Path Map





Considerations when moving to Safran Risk

- investment and assistance

All prices ex GST

Single user Safran Risk perpetual license	\$8,950 one time fee
Technical support is via allinno.zendesk.com	20% of license per annum
Optional: Expert Practitioner support is via allinno.zendesk.com	\$4,880 for 20 hours of drawdown valid for 1 year
Optional: Single user Cost Risk add on to Safran Risk	\$1,690 one time fee
Technical support is via allinno.zendesk.com	20% of license per annum



Why Move from OPRA to Safran Risk - Recap

Risk Analysis Maturity Journeymap¹¹

Level 5: Advanced Integrated Cost-Schedule Risk Analysis

Level 4: Modern Quantitative Schedule Risk Analysis

Level 3: Basic Quantitative Risk Analysis

Level 2: Qualitative Risk Analysis

Level 1: Basic Risk Awareness

Level 0: Unware of Cost or Schedule Risk

- Easy transition from OPRA
- Greatly reduced turnaround time for analysis
- Lends itself to easy and broad based user adoption
- Greater levels of collaborative engagement with project teams which leads to real time maturing of the analysis
- Strong ongoing support and continual product development
- Overall greater confidence in the risk analysis outputs



Q&A

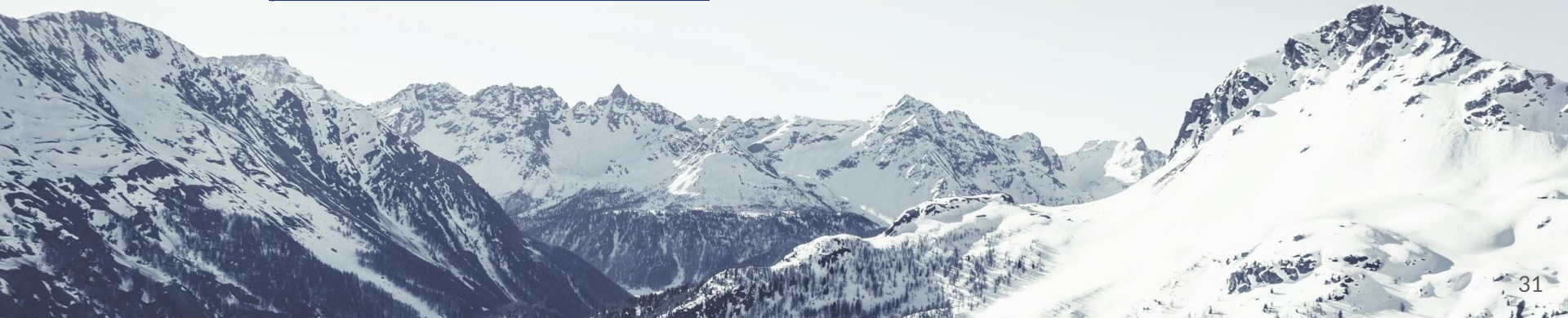
Q's posted to Chat and live audio.



For more information:

Visit the “Migrating from OPRA to Safran Risk” [knowledge portal](#)

Contact peter.iredale@allinno.com.au mob: 0409 912 325





Santosh's Top Picks from the OPRA to Safran Risk Knowledge Portal:

1. **Jumpstarting Your Upgrade From OPRA to Safran Risk Webinar video with Ian Nicholson**
2. **Why Move from Pertmaster to Safran Risk Video with Rusty Johnson, CTO Pertmaster**

While on the Safran website also download this ebook:

[Journey Map to Project Risk Analysis by Dr David Hulett](#)