

Project Controls Expo UK - 13th November 2019
Emirates Arsenal Stadium, London

ACCESSIBLE AND EASY RISK PROCESSES

ECP

KIEFFER Eric
Technical Director, ECP

 **Project Controls**
EXPO
London, UK


on
assystem

ABOUT THE SPEAKER

Eric KIEFFER – Technical Director

Technical Director at ECP, An ASSYSTEM Group subsidiary company, Project Control expert acting in various industries such as nuclear, defense and transportation for the last 15 years.

Currently leading the knowledge/expertise department within ECP to support the business development.

For years, operational expertise oriented, involved in particular working groups for innovation, to develop and participate in new project management methodologies and practices; such as Project Management via Artificial Intelligence (AI).

ECP, EXPERTS IN PROJECT MANAGEMENT

Expert in Project Management, ECP provides consulting, support and auditing services to investors, operators, engineers, OEM... for a wide array of complex projects in France and International.

Through continuous efforts, ECP earned a well-established reputation of professionalism, and proposes a range of services as well as innovative, integrated and adapted solutions.

With 600 consultants, a sustained growth and a diversified sector positioning, ECP established itself as a leader in providing expertise in project management.



600 p

A large and qualified workforce (80% engineers)



€ 50m

A sustained growth, with a solid financial foundation



n°1

Number one partner in project management for the nuclear sector

OUR EXPERTISE

ECP continuously **expand** its field of expertise in every sector of project management, and integrates the latest innovations (4D planning, data science, agile management, critical chain...).



Project Management

- Cost controls and estimates
- Planning
- Risk management
- Earned value management



System engineering support

- Function analysis
- Value management
- Performance, interfaces, and configuration management



Contract management

- Contract drafting and management
- Claims management
- Procurement



Quality / compliance

- Quality monitoring and management
- Safety/Security/Environmental requirements integration
- Document management

EXPERTS IN PROJECT MANAGEMENT INFORMATION SOFTWARES

Expert in Project Management, ECP provides consulting, support and auditing services to investors, operators, engineers, OEM... for a wide array of complex projects in France and International.

Through its subsidiaries*, ECP proposes range of services as well as innovative, integrated and adapted solutions (POC, industrialization, deployment, TMA).

With 100 consultants, a sustained growth and a diversified sector positioning, ECP established itself as a leader in PPM activities.



A large and qualified workforce

100 p

Part of the market leader



Partnerships

*



ORACLE®

Planisware
Get innovation to market

Microsoft

ca A Broadcom Company
technologies

ENGINEER ENERGY & DIGITAL TRANSFORMATIONS

ECP is now 100% affiliated with Assystem, a leader on the engineering market.

As an independent legal entity and brand, **ECP expands its activities autonomously.**

Assystem assists governments, owners, contractors and OEM to develop, deliver and operate critical and complex infrastructures.

PROJECT MANAGEMENT

- Project Management Office (PMO)
- Contract & supply chain management
- Construction management
- Commissioning

ENGINEERING

- Consulting
- Siting & Permitting
- Design

DIGITAL & PERFORMANCE

- Industrial control systems
- Industrial digitalization
- Digital engineering

SECURITY & SAFETY

- Cybersecurity
- Site protection
- Functional safety



€ 550m
revenue



Over
5000
employees

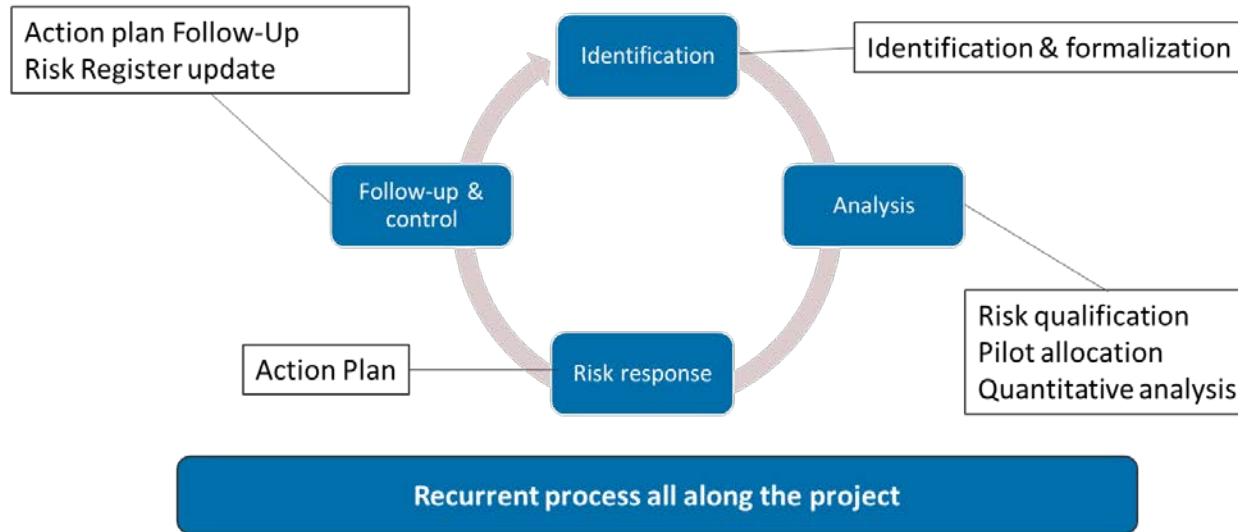


3rd
nuclear engineering
company in the world

Risk management Expertise

INTRODUCTION

Risk management is key to improve our ability to succeed a project !



Simple process



Many stakeholders



Complex communication

RISK MANAGEMENT ADHERENCE



Risk Management process mixed with non fundamental management processes

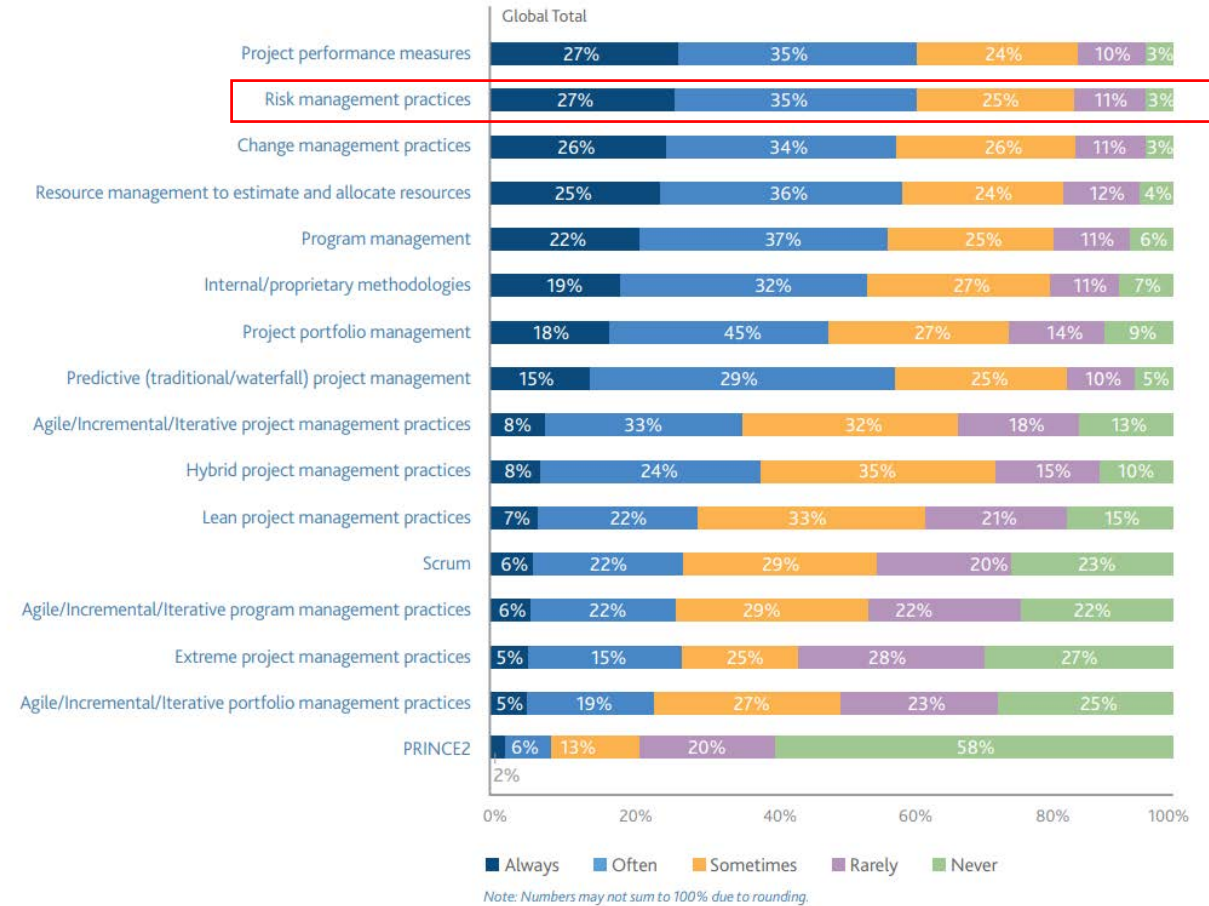


Projects applying Risk Management only

➔ Lack of understanding of the added value of Risk Management

➔ Collective unconscious: Risks management is used to calculate risk reserves

Q: How often does your organization use each of the following?



CURRENT RISK MANAGEMENT STATUS

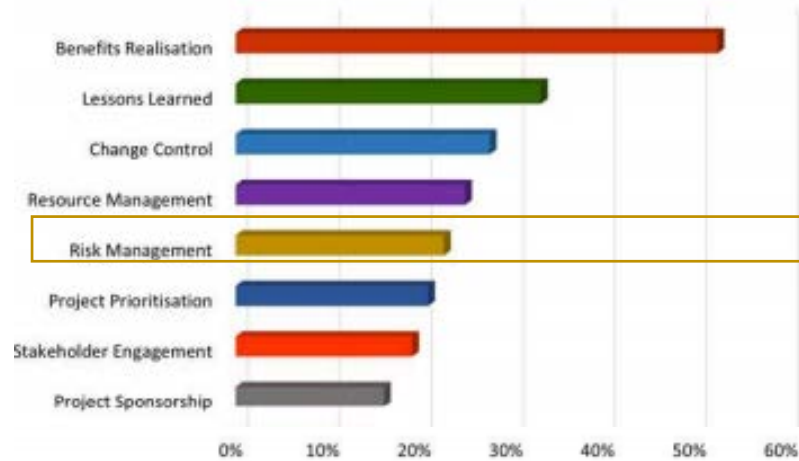
Risk management is polluted by too many tools and communication channels



- Formalization issues
- Not friendly user
- Not structured to communicate simply
- Lack of understanding of statistics
- Model Representativeness not ensured
- Too many interfaces/tools

CURRENT RISK MANAGEMENT STATUS

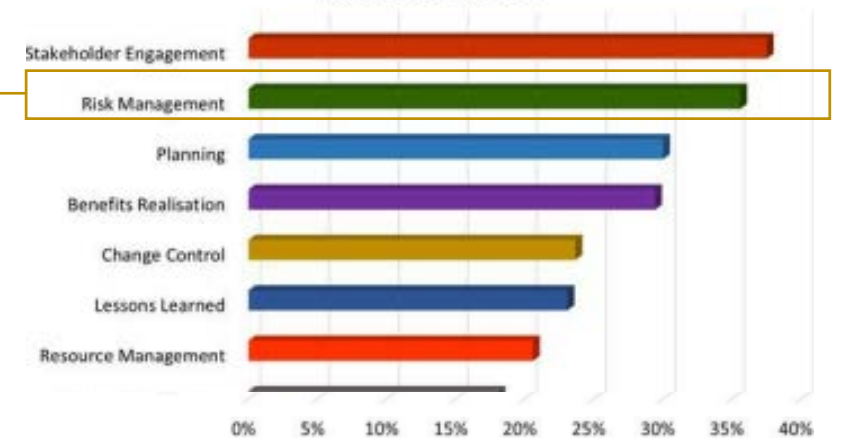
MOST DIFFICULT PM PROCESSES TO EMBED RANKED IN ORDER OF FREQUENCY OF SELECTION



"I'm going to focus more on project risk management"



WHICH PM PROCESSES WHEN APPLIED WELL ADD THE MOST VALUE



PMI Survey extract

Why do we continue to manage risks without integrated workflows?

TO CREATE THE NEED



A seed is sown

- Short meetings (30' max)
 - Usually in a face-to-face meetings
- Focus on horizon
 - Systematic returns to contract scope
 - Uncertainties Vs Risk Vs work difficulties
- Helicopter view oriented
- No use of register and tools

STAKEHOLDER ORIENTED

- Support in formalizing mitigation plans
 - Operational support in animating the risk thinking within project
 - Communication focused on priorities
- Alternatives oriented = PLAN B strategy
- Anticipation & proactivity
- Support in change management



TO MASTER THE NEED

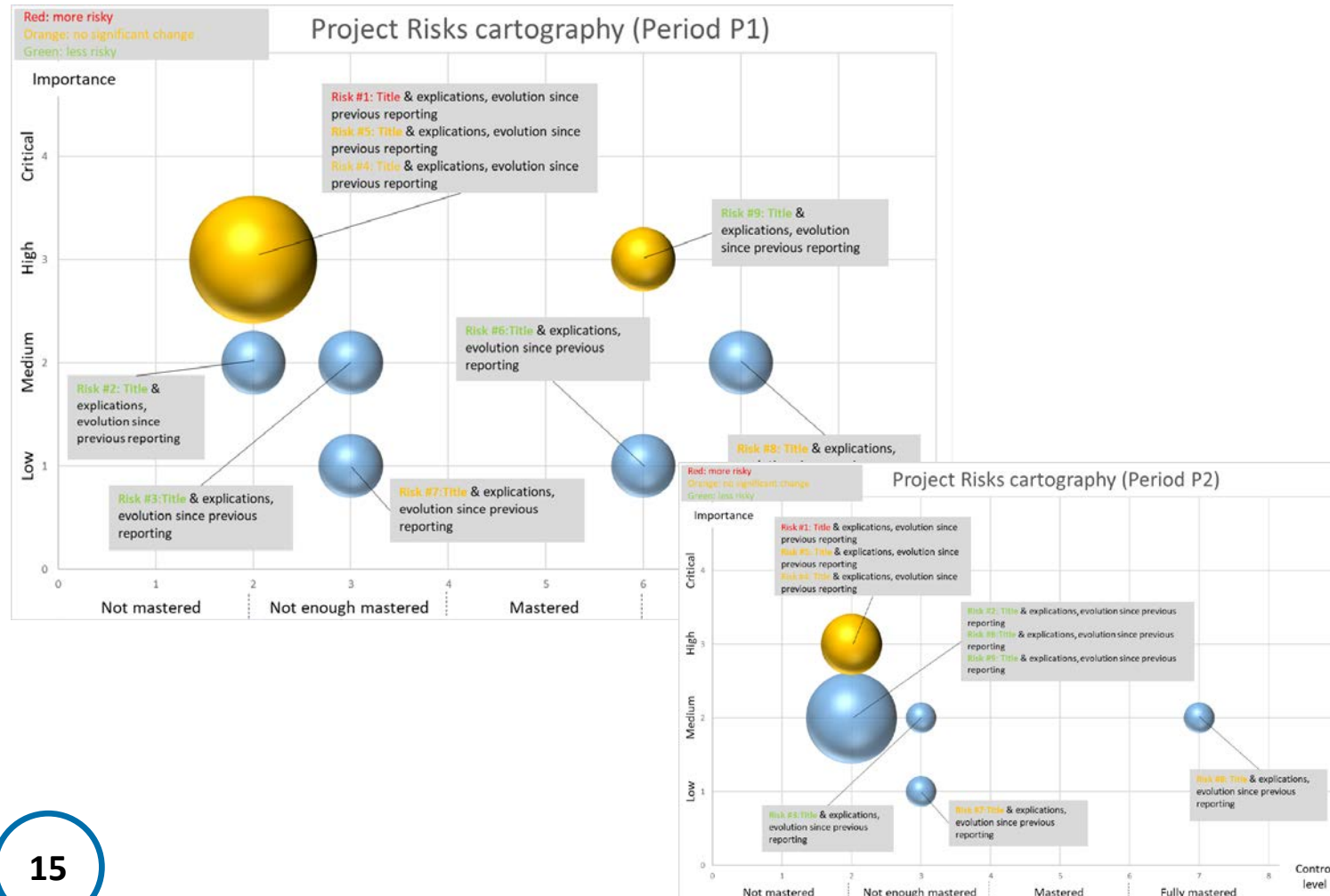


An ecosystem maintained

- Time slots booked by the stakeholders
 - To take time to think
 - To take time to build scenarios
 - Continuous questions based on the project lessons learned
 - Specific workshops organized to address critical topics
- Focus on communication & exchanges

→ Focus on critical transversal topics – dedicated workshops

TO COMMUNICATE ON RISKS



- Focused on exchanges
- Focused on risks only
- Focused on trends
- Not focused on €
- No statistics, No Excel List
- One sheet – One hour

SYNTHESIS

Project, Project, Project...

- 1 — To be focused on the project needs
- 2 — Risk management shall support the project
- 3 — Tools remains tools, we should work on aggregated soft as we have on other PM fields





www.ecpcorporate.com

Move to more



www.assystem.com



*Risk based decision making
– why make it harder than it needs to be?*

Richard Wood
Eric Kieffer

Safran Software Solutions; CEO
Technical Director; Euro Controle Projet

Why this Topic?

Risk is a scary topic

It's not my job!

It's the Risk Manager that worries about that stuff

But...

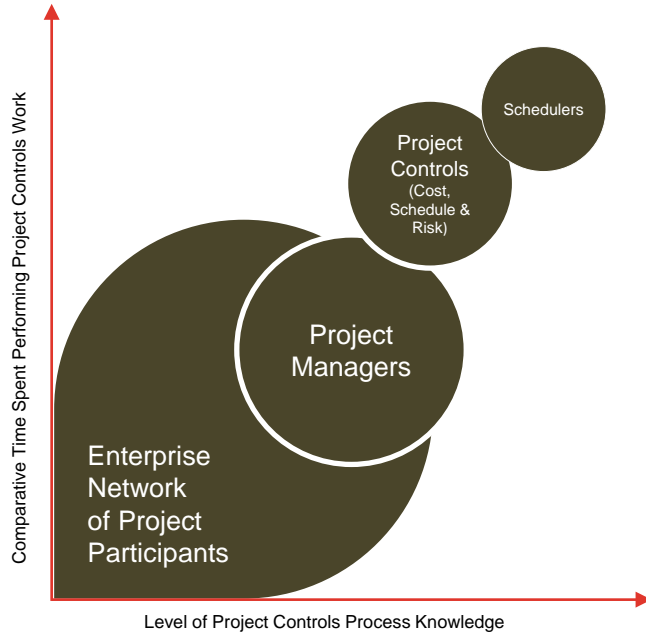
It's about opportunities as well

It should be available for everyone

It's can be easy to manage risks – not scary.

And Software vendors just make it worse!

One Unified Approach for all



	Project Participants	Project Managers	Project Controls	Schedulers
Safran Risk Manager	✓	✓	✓	✓
Safran Risk		✓	✓	
Safran Project		✓	✓	✓
Web Progressing	✓	✓		
Web Reporting	✓	✓		
Safran Planner			✓	✓

Introducing Eric...

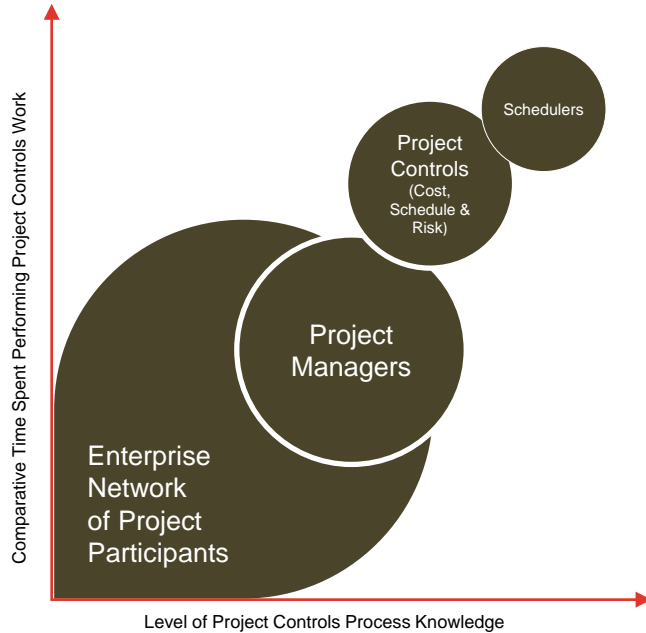
Technical Director for ECP (Euro Controle Projet)



Eric KIEFFER is Project Control expert acting in various industries such as nuclear, defense and transportation for the last 15 years. He is currently leading the knowledge/expertise department within ECP to accompany the business development.

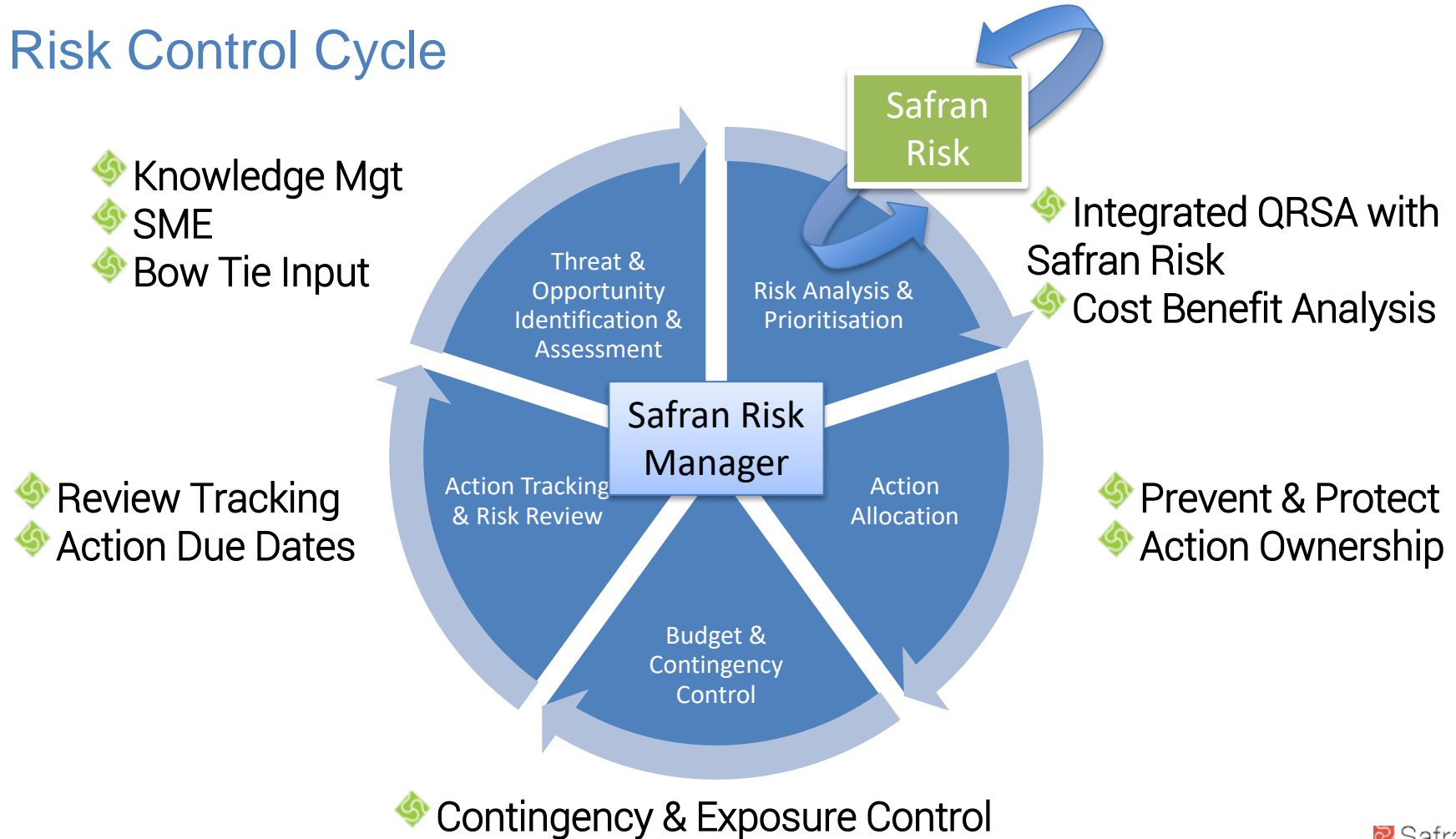
For some years, he has built an industrial network based on the operational expertise, innovation, and participation of specialized working groups; the last one being focused on uniting AI with Project Management.

One Unified Approach for all



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Safran Planner			✓	✓

Risk Control Cycle



Risk Manager:

Control Over Risks & Opportunities

THREATS, OPPORTUNITIES & ISSUES CONTROL IN ONE WEB BASED APPLICATION

- Beautiful web interface for PC Tablet or Smart Device
- Security and control built in

BENEFIT FROM INTERNAL KNOWLEDGE

- Maximize existing project knowledge
- Benefit from subject matter expert connections

MONITOR AT PROJECT & PORTFOLIO LEVEL

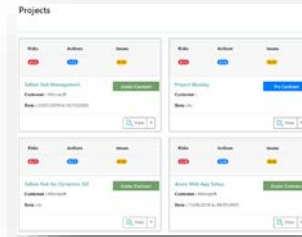
- Dashboards display key data at a glance
- Monte Carlo analysis for basic cost and time control
- Cost Benefit analysis to priorities action expenditure

MULTIPLE SOURCE AND IMPACT BOW TIE RISK DATA CAPTURE

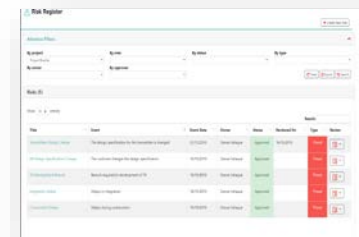
- Detailed assessment of costs time and user defined 'other' over multiple categories
- Capture preventative and protective actions

CALCULATE AND MONITOR CONTINGENCY AGAINST EXPOSURE

- Burn down profiles of anticipated risk exposure
- Assess contingency requirements based on probabilistic models



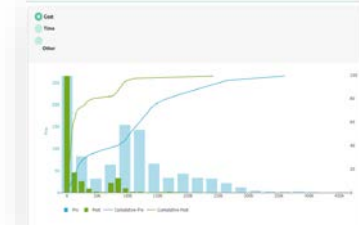
Project & Portfolio Control



Risk Register Details At A Glance



Risk Impact Pre & Post Comparison



Monte Carlo Cost & Time Results

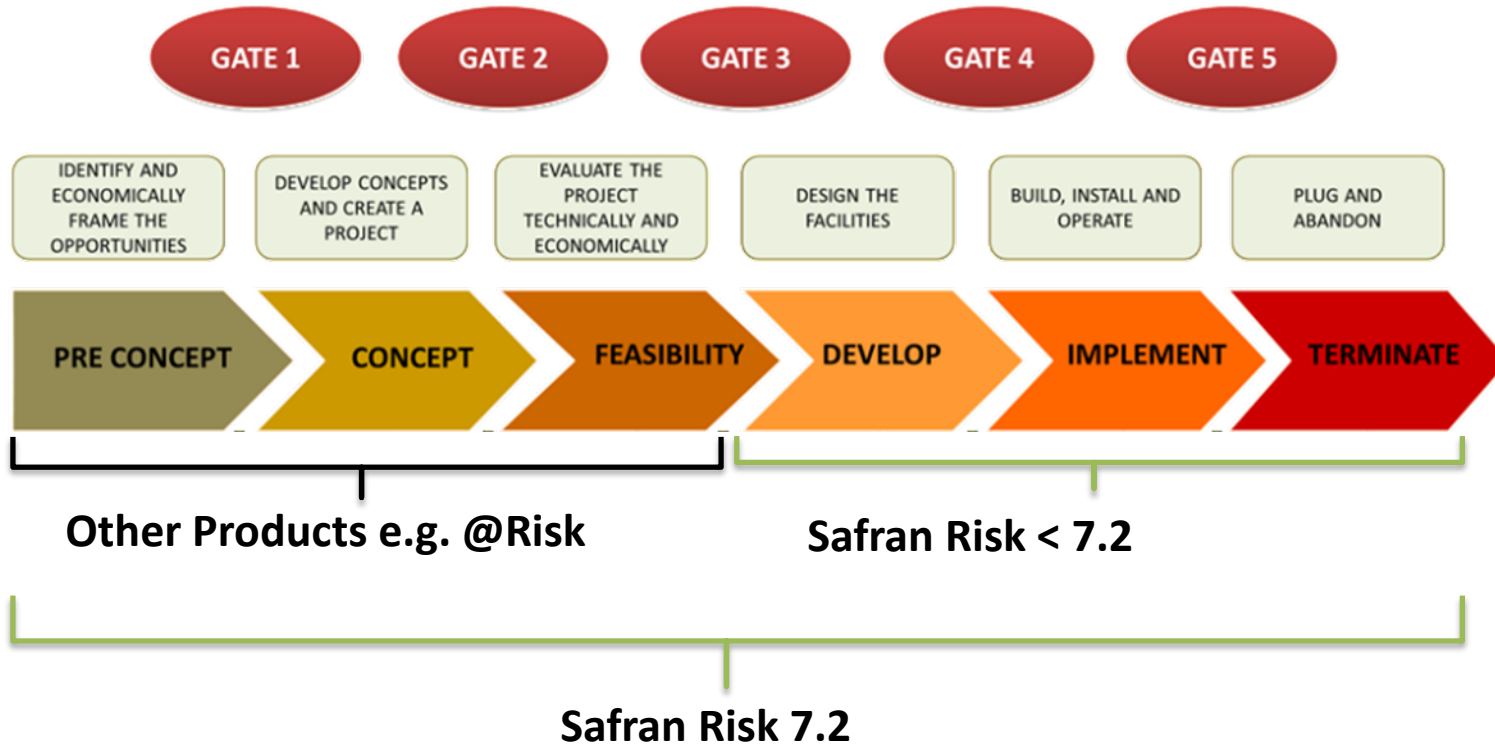


Bow Tie Data Entry



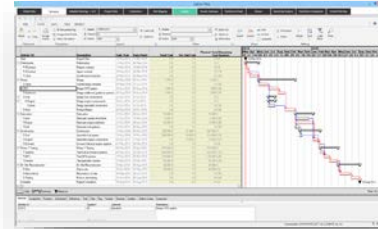
Cost Benefit Analysis

Safran Risk: *The Importance of Integrating Cost & Schedule*



Safran Risk: Solution Advantages

- ◆ **BUILT-IN SCHEDULING ENGINE**
 - Iterative "review/ analyze" process with all the power of Safran Project
- ◆ **COST AND SCHEDULE RISK COMBINED**
- ◆ **INTUITIVE AND PROCESS-LED USER INTERFACE**
 - Embedded best-practice process flows
 - Inputs on the left of "analyze", outputs on the right
- ◆ **RISK MAPPING**
- ◆ **RISK-READINESS SCHEDULE CHECK**
 - Ensures higher quality plans resulting in higher quality risk analysis
- ◆ **BEST-IN-CLASS REPORTING**
 - Sensitivity Analysis showing schedule and cost impacts
 - Project finish histograms
 - Tornado charts
- ◆ **COMPREHENSIVE RISK CORRELATIONS**



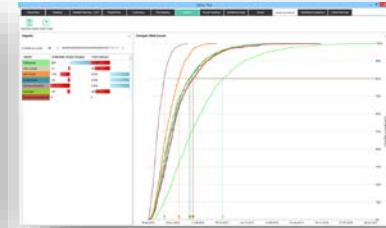
Fully integrated scheduler



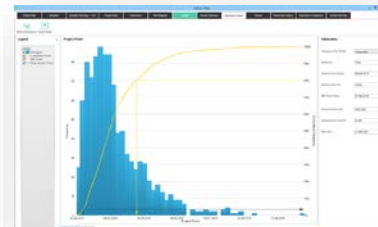
Risk-readiness schedule check



Comprehensive risk correlations



Risk reporting – Sensitivities



Risk reporting – Project finish



Risk reporting - Drivers

One Unified Approach to Risk for all

One Software platform supports a common Risk culture
Opportunities can be maximised not wasted

And not all Software vendors make it worse!



Questions?

