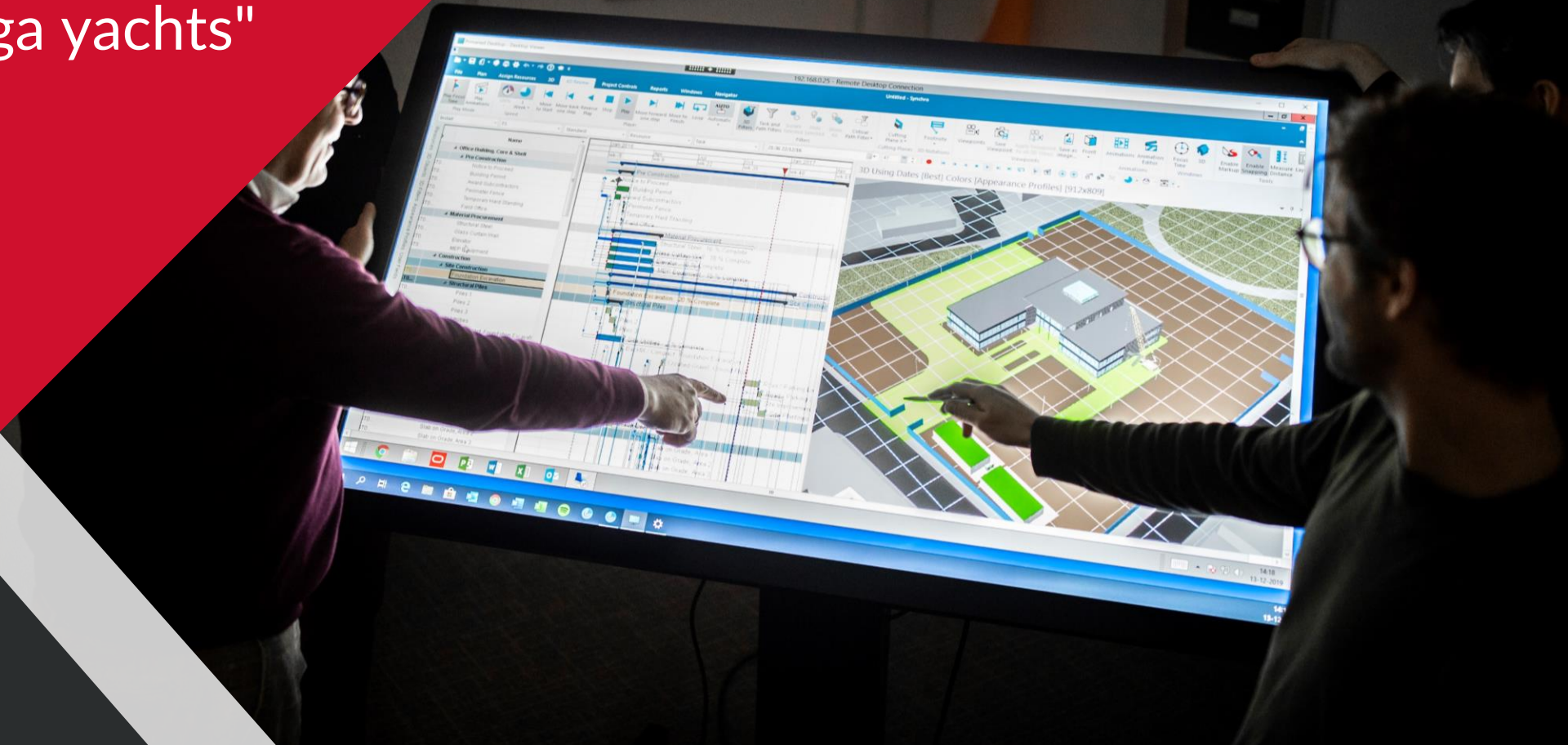


"How risk awareness is mitigating millions of claims and costs when building mega yachts"



The world of Mega Yachts



Anyone here
that owns a
Mega yacht?

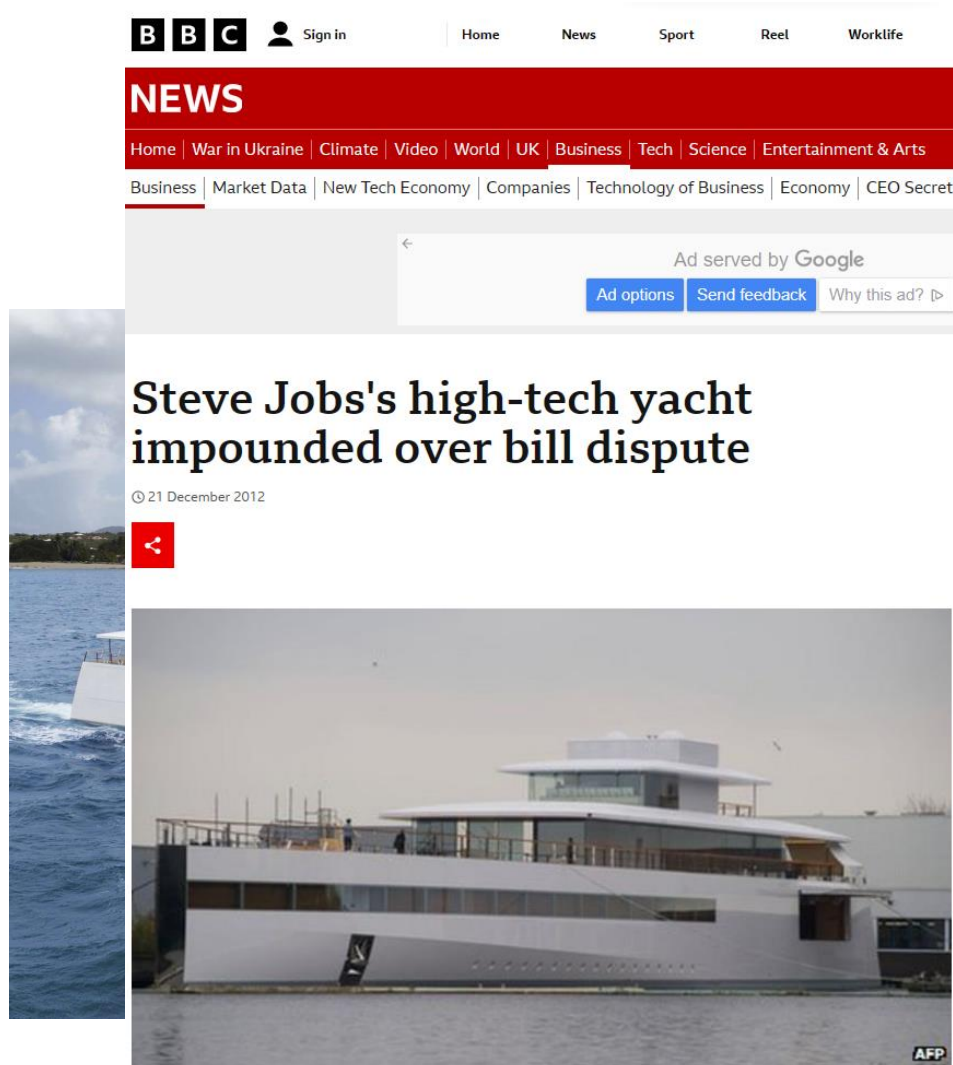
Let's be
friends!



The Dutch Yacht Builders

- Started in many cases in the 19th century as shipbuilders
- After WWII the world changed, to luxury yachts.
- Build for the super rich from mostly North-America and Middle-East (Feadship)

What's the biggest Risk when building a yacht?





**Just build the yacht,
don't care about Risk**

Who is still managing Risk in Excel?

Fukushima Daiichi Summary Table - Units 1-6 (20 March 2011, 21:00 UTC):

LEGEND No Immediate Concern Concern Severe Condition

Unit	1	2	3	4	5	6
Power (MWe/th)	460/1380	784/2381	784/2381	784/2381	784/2381	1100/3293
Type of Reactor	BWR-3	BWR-4	BWR-4	BWR-4	BWR-4	BWR-5
Status at Time of Event	In service - auto shutdown following earthquake			Shut down for outage before earthquake		
Core and Fuel	Damaged			No fuel rods	Cold shutdown	
Containment Integrity	No damage reported	Damage suspected	No information	Outage configuration	No damage expected	
Off-site Power	Substation connected	Power center (in Unit) connected	Not available		Not available	
Diesel Generators	Not available				Two emergency diesel generators powering Units 5 and 6	
Building	Severe damage	Slight damage	Severe damage		No damage reported	
Water Level in Reactor Pressure Vessel	About half of fuel assembly (stable)			Outage configuration	Above fuel	
Pressure of Reactor Pressure Vessel	Stabilised	Unreliable data	Elevated	Outage configuration	Stabilised	Stabilised
Containment Pressure Drywell	Stable	Stable	Elevated	Outage configuration	No information	
Water Injection to Reactor Pressure Vessel	Sea water	Sea water	Sea water	Outage configuration	Freshwater injection in progress	
Water Injection to Containment Vessel	Not available			Not necessary		
Spent Fuel Pool Temperature	No information	Spraying from outside	Spraying from outside	Spraying from outside	Cooling restored	

Dampier Archipelago Risk Assessment Matrix

Risk Level	
Low	Threat is highly unlikely to result in a considerable impact on heritage values or already adequately controlled by existing measures.
Medium	Threat is likely to result in an impact on heritage values but degree of impact is uncertain or requires review under existing legislation.
High	Threat is likely to result in a considerable impact on heritage values and can be controlled within the existing legislation but may require new or altered policy (or) requires new systems or programs to completely control.
Severe	Threat is considerable and will result in a tangible, irreversible, substantial impact on the heritage values (or) requires direct or immediate control measures (or) requires significantly altered policy (or) may require new or altered legislation to control.

Table 1: Risk Control Ratings – assessment of effectiveness

Ranking	Guidance
Weak	Control of risk low or non-existent
Incomplete	Actions have already been established to address/control weaknesses, but not fully implemented OR exposures not controllable but actively monitored
Adequate	Some improvements to controls desirable
Strong	Controls are believed to be operating and highly effective
Over-Regulated	Excessive layers of control are regulating the threat, room for efficiency improvements

		Control Rating →				
		Over-Regulated	Strong	Adequate	Incomplete	Weak
	Industrial development			Industrial development Final Risk = High		
	Emissions		Emissions Final Risk = Low			
	Blasting and vibration			Blasting and vibrations Final Risk = Medium		
	Recreation, tourism and vandalism				Recreation, tourism and vandalism Final Risk = High	
	Lack and/or loss of knowledge, management and engagement					Lack of knowledge management and engagement Final Risk = Severe
		Impact Rating →				
		Insignificant	Minor	Moderate	Major	Critical
Likelihood ↑	Almost certain	Low	Medium	High	Severe	Severe
	Likely	Low	Medium	Medium	High	Severe
	Possible	Low	Low	Medium	High	Severe
	Unlikely	Low	Low	Low	Medium	High
	Rare	Low	Low	Low	Medium	High
	Uncertain	Low	Medium	High	Severe	Severe

Building a mega yacht is a risky job

Especially, when your philosophy is this:

**WE SET THE STANDARD
BY ALWAYS REJECTING
THE STANDARD.**

Impossible is a beautiful word. It forces us to go beyond what we know. To create, to innovate, to keep pushing until the unachievable is achieved. It demands the very best from us...

Safran and the Risk Management Process



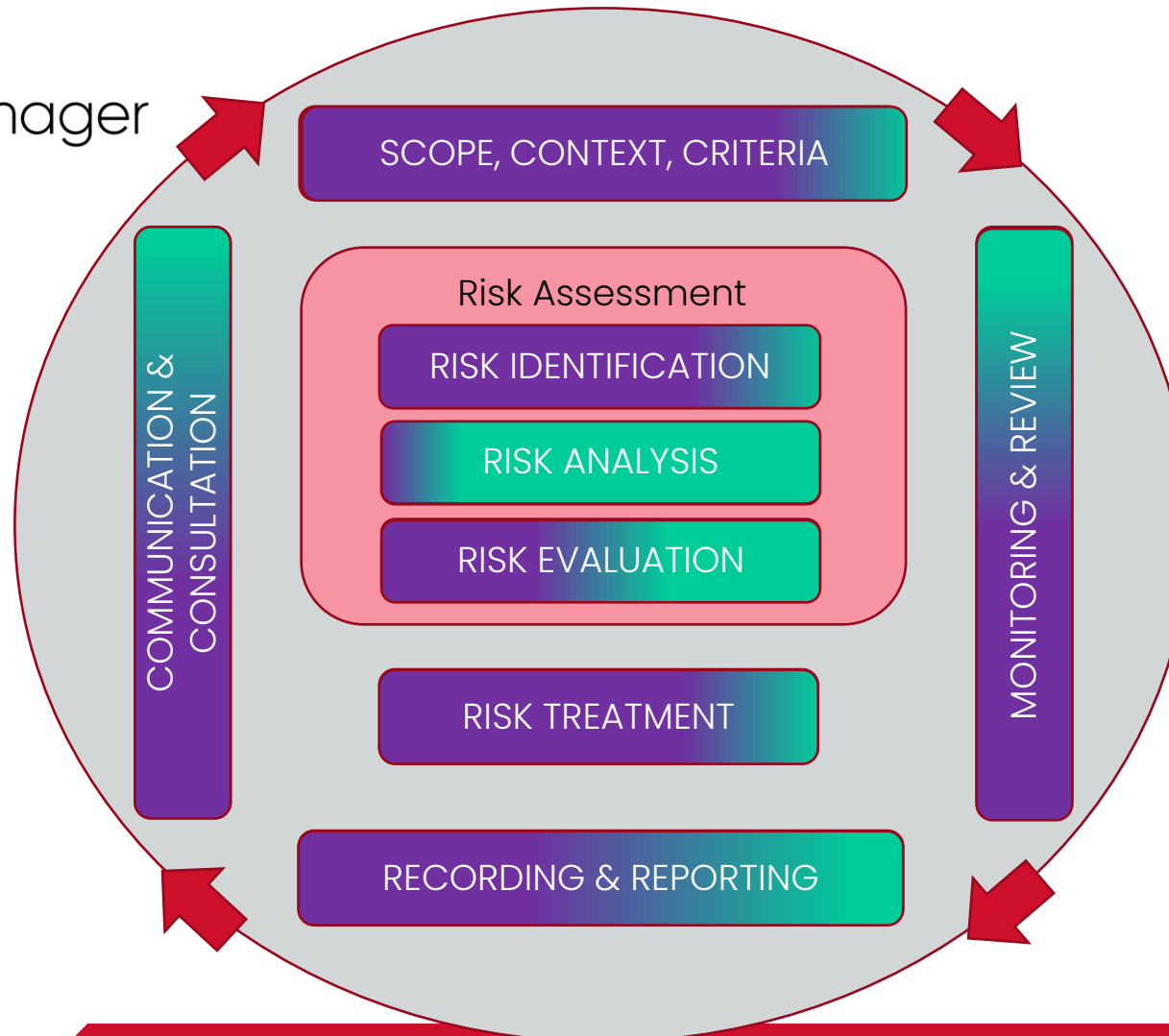
Safran Risk Manager

- Every risk owner
- Every project leader
- Every day



Safran Risk

- Risk professionals
- Advanced cost and schedule modelling capability
- Each reporting period



A Smarter Risk Register: Safran Risk Manager

Safran Risk Manager

BS0: Blue Sky Programme Group

Mark Turner

Risk Register

+ New Risk

Industrial Action - 1139

Substandard suboptimal system or subsystem - 1138

Risk Register (28)

-- View -->

Bowie

Update Risks

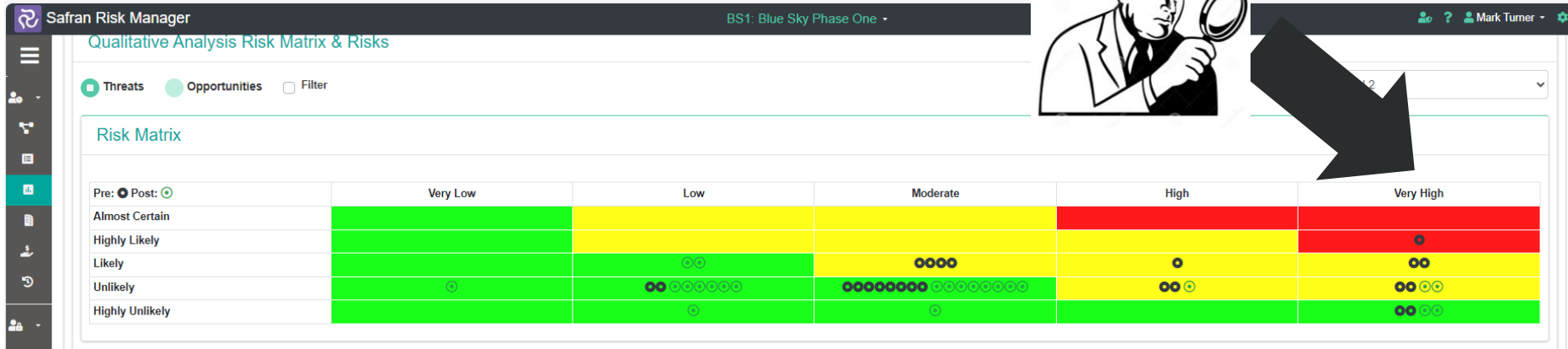
Export to Excel

Search:

		Project	Title	ID	Type	Owner	Status	Source Name	Event	Impacts	Pre Score	Post Score
		BS0: Blue Sky Programme Group	Industrial Action	1139	T	Mark Turner	Approved	<div>supply delivery</div> <div>bad weather</div>	Limitation of resources due to industrial action	<div>\$ increase cost</div> <div>h&S</div>	20	20
		BS0: Blue Sky Programme Group	Substandard / suboptimal system or subsystem	1138	T	Mark Turner	Unapproved	<div>Poor Build Quality</div> <div>Poor Yield</div>	The project is unable to deliver against the contractually stated performance	<div>Modification and correction...</div> <div>Poor Reliability & Performance</div> <div>Safety Implications For U...</div>	20	20
		BS0: Blue Sky Programme Group	RX Development Delays	1007	T	Chris Ritson	Approved	<div>RX Development Delays</div>	Technical delays	<div>Time Impact</div> <div>Labour Cost Impact</div>	15	6

- Displays risk data as a Bowtie within the risk register
- Can show multiple-project data in the same register for easy cross-project and portfolio review

Case Study: Green Is Good!



- Mega yacht company had only used a qualitative matrix
- Management focus had always been on the 'Red' risks
- 'Green' risks were 'Good' so didn't cause a concern!

Case Study: Green Is Good!



- However, when seen quantitatively the 'Low Likelihood, High Impact' green risk on the register had the potential to sink the project!
- Focus shifted to all the 'High Impact' risks – identifying millions of Euros of exposure which had remained unmitigated.



THANK YOU