

### Proudly presents...

# 3A Project Risk and Opportunity Management

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### The LEGO Group run a significant number of projects ... and need to be able to do that well



- 60-70% novelty share of sales
- 20 novelty projects for any given launch year
- The growth invokes factory building projects in multiple sites – simultaneously
- A portfolio of almost 200 IT projects of all sizes and levels of complexity
- ... and we also have projects for
  - Market expansion
  - Business process improvements
  - Product safety requirements etc.
- A "Process Expert Network" own the process and tools
- AROP developed in close collaboration



### AROP was decided upon to provide explicit improvements

#### Identification

Support a comprehensive risk and opportunity identification by all stakeholders

### Assessment and Prioritization

 Define explicit assessment scales and hence limit biased and rough/intangible High/Medium/Low measures

### **Handling**

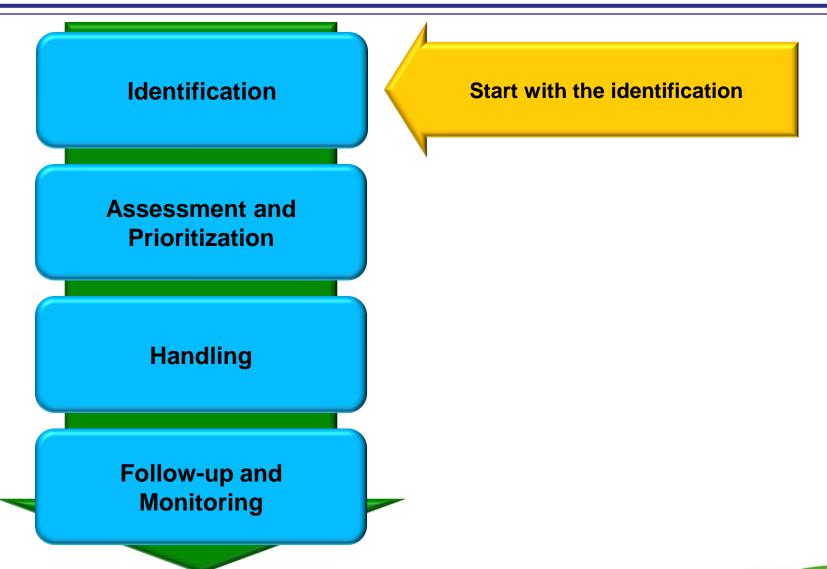
 Define ownership and use explicit combination of Early Warning measurements and active handling

Follow-up and Monitoring

 Automatically generated and predefined standard business case and follow-up reporting

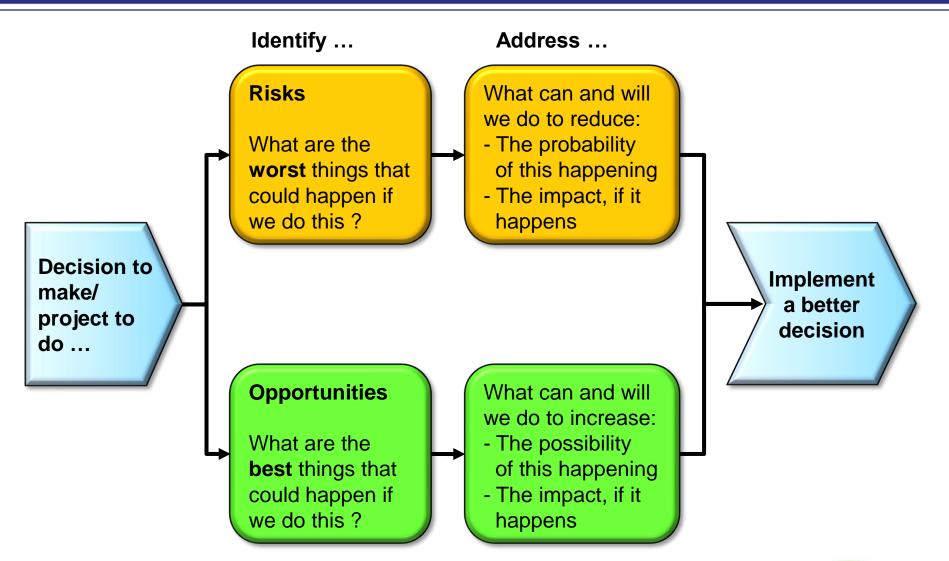


# AROP will help manage project uncertainty – better and is based on a defined process flow

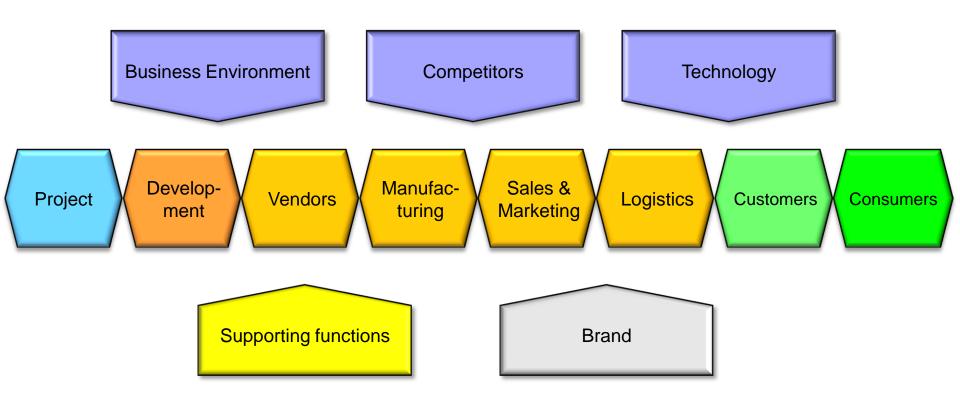




### By failing to prepare, you are preparing to fail Benjamin Franklin



# Addressing risks and opportunities can valuably be done by systematically and coherently addressing each "box"





### Step 1 is the identification of risks and opportunities ...

	e Risk & Opportunit - Moulding Change		1		1 - Risk & 0	Opportunity Identification Updated 12 Sep
Projec					ingeover time by 1 hr in average and 40 mCAD per year. THIS IS ILLUS	
No.	Grouping	Risk or Opportunity	Risk Name	Issue/Description		Owner
101	Hardware	R	Resistance to operating conditions	The equipment will be running temeparture and humidity varia "cope" with real life thermal co	Be very specific about target(s) of the project	
102	Hardware	R	Late delivery	The hardware is a new platform	Tand delivery may be delayed aying run-in and ramp-up processes	JuneS
103	Software	R	Architecture inconsistencies	······································	not match the processes and drive:	
104	Software	R	Vendor bankruptcy	The software is from a single ve impressive	endor, who's financial strength is no	ot Olsson
105	Software	0	Pricing	X	ed conservatively, and we may obta	ain Oleson
106	Hardware	R	mo	115K/0000111111111/	en IT equipment and moulding ly - reducing speed	very important –
107	Process	0	Sin	faster than planned for	conservatively, and may l	assign an owner
108	Proc	R	Changeover complexity	The new changeover prog	and describe the	Andersen
	ou may chose to	<b>O</b> .	Flexibility	The new process proves rea	ason this is a risk	Andersen
	sks and opportur com the outset		Easier software maintenance	The cost and efforts of cors	an opportunity	Olsson



# You now have a strong base for the next steps – as you know what can/will/may impact your project

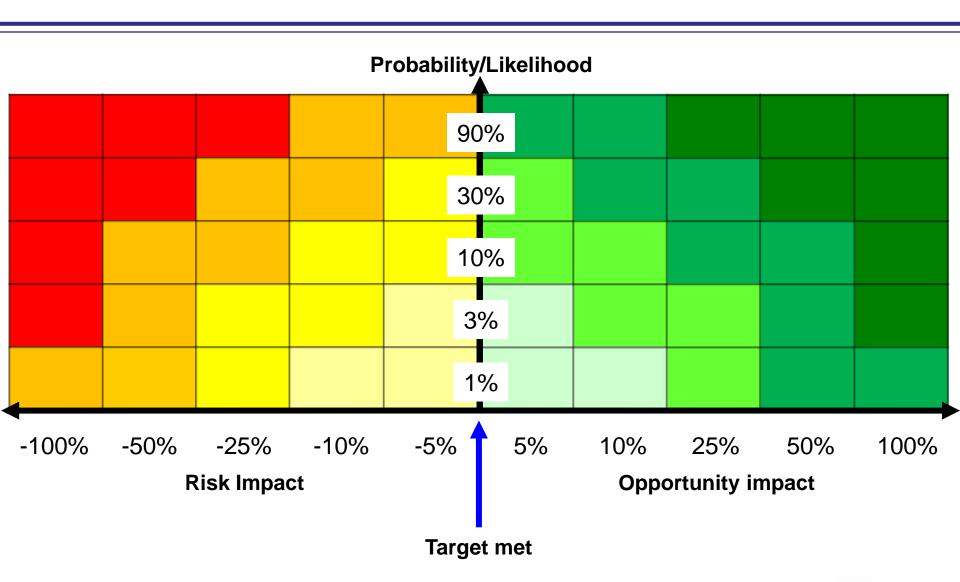
Identification Assessment and **Prioritization Handling** Follow-up and **Monitoring** 

- Involve all stakeholders in identifying the project uncertainties
- Look at opportunities as well as risks
- Look at the entire business system

With the uncertainties described, focus on prioritization



### Introducing a map where we balance risks and opportunities





# Step 2 starts with 2.1, defining scales of impact as not everything is financial and financial impact can be hard to define

Active Risk & Opportun RIMS - Moulding Chang	, ,,					The probability scale		
Grade	Rationale	Very High	High	Medium	Low	<ul><li>"fixed" and compan</li><li>standard.</li></ul>		
Probability/ Likelihood	The very high probability	90%	30%	10%	3%	170		
meaning  Note: This scale is presumed "fixed" for all projects	is defined to be below 100% as 100% is a "sure thing" and not a risk anymore. The below scale is found by dividing by 3 to get to a		This may very well happen, something like once in 3 years or in every 3 <sup>rd</sup> project	This may happen, something like once in 10 years or in every 10 <sup>th</sup> project	This is unlikery happen, somet like once in 30	hing to happen, something		
	1% level.			-	is ALWAYS			
				financi	al impact.	Enter		
Financial Impact	Generally baseline for alignment of other scales	40	mCAD	this defined	and the so	cale is		
Grade	Very High "Definition"	Very High	High	Medium	Low	Very Low		
Financial Impact (DKKm)	Worst case based on zero net impact of project	App. or above 40	App. 20	App. 10	App. 5	App. or below 2		
Downtime / improved uptime	Loss of profits based on operation calculate You MA	Y define addit	tional	2%	1%	0,50%		
Delay / Early ending	0.1.1.1	s your assess	ment	App or above 6	App 3 mon	ths 2 months or less		
Operation officionalis	gains of risks	and opportun		months	. this is	by no means ea		
Operating efficiencies (changeover time)	Based on value or moulded components	1 hr	30 min	15 min		it is VERY valua		
Qualitative IT impact	<del>-</del>	Severe master data	Between VH and M	Systems applic	but	ILIS VLIVI Value		



# Addressing the natural overconfidence we have as human beings ... let's play a game



# Once the scales are set – step 2.2 is actual assessment of the risks and opportunities

			rtunity Planning <sub>3</sub>						2.2 - Ass	
RIMS	S - M	loulding Ch	angeover Efficiency						Updated .	12 Sep
No.	R/O	Group	Name	Issue/Description	Owner	Step 1	(Optional/supporting) Impact rationale	Step 2 Probability	(Optional/supporting) Probability rationale	Priority
101	R	Hardware	Resistance to operating conditions	The equipment will be running 24/7/360 in a moulding hall with some temeparture and humidity variances - and may not be able to do "cope" with real life thermal	Jackson	Н	Based on stress testing of hardware resiliance to thermal conditions	L	The 3% based on the stress testing of equipment	-2
102	R	Hardware	Late delivery	The hardware is a new platform and delivery may be delayed compared to agreed plan - delaying run-in and ramp-up processes	Jones	VL	Delivery not assumed delaed more than one month	L	Even 1 month delay is unlikely based	-4
103	R	Software	Architecture inconsistencies	The system architecture does not match the processes and drives down performance speed based on add-on work-arounds	Peterson	VH	If architecture is inadquate, work-asounds will easily "eat up" the expected improvements	M	Architecture is validated by outside sources, some of whom are cautious	-1
104	R	Software	Vendor bankruptcy	The software is from a single vendor, who's financial strength is not impressive	Olsson	L	May postpone delivery from alternative vendor or internal redo by 3 months	L	Based on external vendor credit rating	-3
105	0	Software	Pricing	The pricing of software is defined conservatively, and we may obtain a reduced price	Olsson	L	Software is 70% of total budget, ap reduction may be 15-20%, i.e. 5	M	Not planned for - but potentially obtainable	3
106	R	Hardware	The connection to moulding equipment does not perform	The connection/data link between IT equipment and moulding machine does not work optimally - reducing speed	Jar	M	Potential speed reduction minutes	Н	Link is newly developed and reference and/or test data are inadequate	-2
107	0	Process	Simplified changeover	The new changeover prodefined conservative faster than plan	Andersen		I <b>then</b> define/assess elihood that this	M	The combination of	1
108	R	Process		ales set – define	Andersen		ns including a d rationale	L	probability and impact automatically	-3
109	0	Process	(i.e. essent the impact	ially decide on) first <b>and</b>	dersen	Н	If process will be applicable to more machines - impact increases	М	provides a priority	2
110	0	Software	describe th	e rationale assessment	sson	L	Maintenance costs are small compared to project spending	M	May very well be, but not considered likely	3
111	R	Other	Definite the	assessificit	mith	Н	Complexity may reduce to only most	L	Not expected based on desktop design of	-2



# Step 3 is "automatic" and providing you with a prioritization of risks and opportunities

									Sort
No.	Group	R/O	Name	Issue/Description	Owner	Impact	Probability	Priority	order
107	Process	0	Simplified changeover	The new changeover process is defined conservatively, and may be faster than planned for	Andersen	VH	М	1	10
103	Software	R	Architecture inconsistencies	The system architecture does not match the processes and drives down performance speed based on add-on work-arounds	Peterson	VH	М	-1	1R
109	Process	0	Flexibility	The new process proves to be more flexible and more widely applicable than expected	Andersen	Н	M	2	20
101	Hardware	R	Resistance to operating conditions	The equipment will be running 24/7/360 in a moulding hall with some temeparture and humidity variances - and may not be able to do "cope" with real life thermal conditions	Jackson	Н		-2	2R
106	Hardware	R	The connection to moulding equipment does not perform	The connection/data link between IT equipment and moulding machine does not work optimally reducing speed	This is sorting su	upport	Н	-2	2R
111	Other	R	Decreased flexibility	The new changeover process drives complexity in planning and reduce capacity flexibility and hence utilization and deliverability	ensuring sequer priorities prior to	ncing of	L	-2	2R
105	Software	0	Pricing	The pricing of software is defined conservatively and we may obtain a reduced price	risks/opportunitie		М	3	30
110	Software	0	Easier software maintenance	The cost and efforts of continuous system maintenance proves smaller than expected	Olsson	L	М	3	30
108	Process	R	Changeover complexity	The new changeover process does not fully match operational processes and time-consuming work-arounds limit benefit	Andersen	L	L	-3	3R
104	Software	R	Vendor bankruptcy	The software is from a single vendor, who's financial strength is not impressive	Olsson	L	L	-3	3R
102	Hardware	R	Late delivery	The hardware is a new platform and delivery may be delayed compared to agreed plan - delaying run-in and ramp-up processes	Jones	VL	L	-4	4R



### AROP will help manage the project uncertainty - better

**Identification** 

Assessment and Prioritization

**Handling** 

Follow-up and Monitoring

- Involve all stakeholders in identifying uncertainties
- Look at opportunities as well as risks
- Look at the entire business system
- Base assessments on coherent and well-defined impact and probability scales
- Consolidate across multiple scales of impact
- Set priorities based on two dimensions

Now, we decide to do something about it



### Step 4 is deciding, who is what about the risks and opportunities ...

	ve Risk & Opportunity Plann					andling
RIM	S - Moulding Changeover Ef	ficiency			Updated .	12 Sep
				Decided/implemented Ha	ndling Approaches/Actions	
No.	Name	Priority	Owner	Early Warning Indicator (Who does what monitoring to enable timely action	Actions (Who is doing what to minimize risks and/or maximize opportunities)	Timing/ Status/ Cadence
101	Resistance to operating conditions	-2	Jackson	Operating thermal conditions continuously monitored and documented	Further stress testing based on 99% extreme thermal conditions	2012
					Task force designated to address issue if it materializes	Done
					Backup equipment ready and available	2012
102	Late delivery -4		Jones	Devery agreement with vendor	Follow-up on delivery	Ongoing
103	Architecture inconsistencies	-1	Peterson		Validate and test architecture	2012
104	Vendor bankruptcy	-3	Olsson	ange of credit rating	Prepare, in extreme cases, to buy out vendor (small company)	2012
105	Pricing	3	Olsson		Negotiate vigurously	2013
106	The connection to moulding equipment does not perform	-2	Jackson	Operatinal monitoring	Pre-installment testing in real-life thermal conditions  Defaute taskforce to address issue	2012
107	Simplified changeover	1		Monitor actual changeover time	to further oll-out application of	
108	Changeover comple		we can	Monitor a implement Monitor a implement done to manage/open risk/opportunity	t is being <sub>ep roll-</sub> optionally	has



# ... where you have a number of generic options, which you can make explicit and tailored to your project

#### Managing risks

- Eliminate ... is there anything we can do to get rid of the risk? This is highly effective if possible – but rarely a true option (if I want to see the world, I need to cross the road).
- Reduce probability ... this is like looking for traffic before crossing the road (it does not reduce the impact, if you are hit anyway, but is does reduce the "chance" of being hit).
- Reduce impact ... this is like wearing a
  helmet on your bicycle (this does not reduce
  the probability that you fall, but it does
  reduce how much you are hurt if you fall).
- Transfer ... this is generically paying someone else to take the risk i.e. buy an insurance. Hedging is also a risk "transfer" mechanism
- Accept ... in the end, there is a level of risk you (have to) chose to accept. If this is still "too high" you need to do more on the above risk mitigation.

#### Managing opportunities

- Create ... is there anything you can do to create an opportunity, which was not considered in the project scoping (but which was now identified as yet another possibility).
- Increase probability ... e.g. test for consumer responses to increase certainty of consumer affinity and "buy-in".
- Increase impact ... e.g. ensuring capacity to deliver even if/when demand exceeds expectations.
- "Buy in" ... this is less common, but is seen
  in the financial markets. Includes applying
  bonus programs/profit sharing etc. The use
  of options may be a used "mechanism".
- Accept ... in the end, there is a level of opportunity you have. If this is still too low, you'll have to do more on the above opportunity instigation.

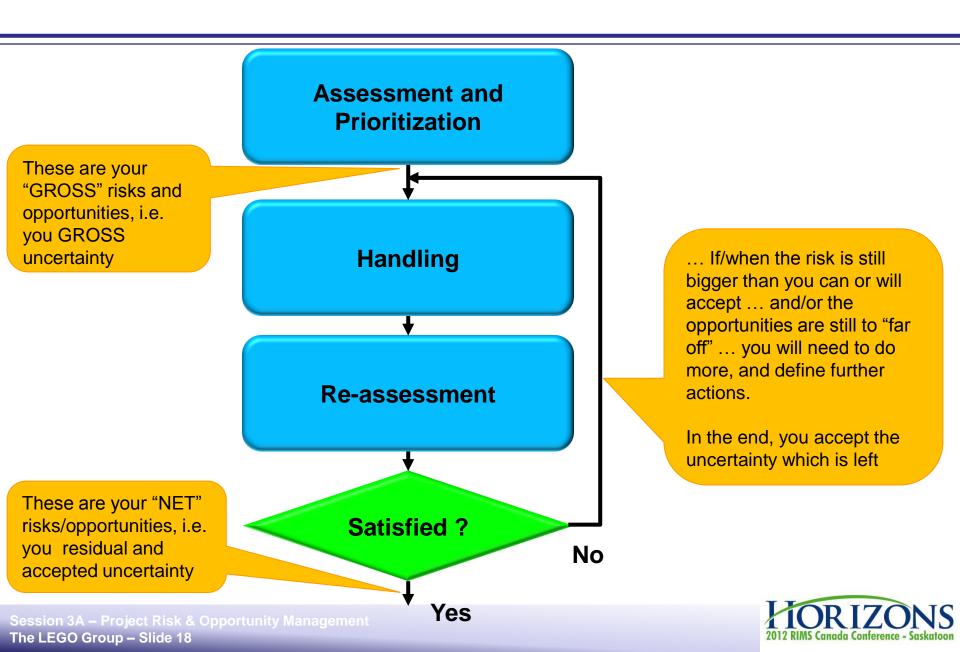


### Step 5 is a re-assessment, where we include the effect of all the things we have do to manage the risks and opportunities

Activ	re Risk & Opportι	ınity Plann	ing₃						5 - Re-as	sessment
RIMS	6 - Moulding Char	ngeover Ef	ficiency						Updated	12 Sep
		Gross Ass	essment (befor	e handling)			plemented Handling	Net Assessm	nent (after deci	ided handling)
					_	Early Warning				
No.	Name	Impact	Probability	Priority	Owner	Indicators	Actions Taken	Impact	Probability	Priority
101	Resistance to operating conditions	н	L	-2	Jackson	Operating thermal conditions continuously monitored and documented	Further stress testing based on 99% extreme thermal conditions  Task force designated to address issue if it materializes  Backup equipment ready and available	L	VL	-4
102	Late delivery	VL	L	-4	Jones	Delivery agreement with vendor	with all the th	•		-4
103	Architecture inconsistencies	VH	М	-1	Peterson		have done – as			-2
104	Vendor bankruptcy	L	L	-3	Olsson	Change of credit rating	Prebuy out vendor (small company)			-4
105	Pricing	L	M	3	Olsson		Negotiate vigurously	Н	Н	1
106	The connection to moulding equipment does not perform	М	Н	-2	Jackson	Operatinal monitoring	Pre-installment testing in real-life thermal conditions  Designate taskforms and the same and the same and the same are sa		L	-3
107	Simplified changeover	VH	М	1	Andersen	Monitor actual changeover time	Prepare to furth application of no			1
108	Changeover complexity	L	L	-3	Andersen	Monitor actual performance on pilot implementation	updated			-3



### This may lead to a series of loops, before we are "content"



### AROP will help manage the project uncertainty - better

### Identification

Assessment and Prioritization

**Handling** 

Follow-up and Monitoring

- Involve all stakeholders in identifying uncertainties
- Look at opportunities as well as risks
- Look at the entire business system
- Base assessments on coherent and defined scales
- Consolidate across multiple scales of impact
- Set priorities based on two dimensions
- Identify and use "early warning" indicators
- Assign risk owners to each risk to ensure action
- Address handling impact and validate if this is enough

Finally – the follow through



# Step 6 is a follow-up, where you for gate/milestone meetings update your risk portfolio based on current status

Acti	ve Risk & Oppo	ortunity Planning₃							6 - Follow-Up
RIM	S - Moulding Cl	nangeover Efficiency							Updated 12 Sep
				Net Ass	essment (after	handling)		Follow-Up D	Data
No.	Group	Name	Owner	Impact	Probability	Priority	Status	Resulting Impact	Comments
101	Hardware	Resistance to operating conditions	Jackson	L	VL	-4	Waiting		
102	Hardware	Late delivery	Jones	VL	L	-4	Resolved	None	Delivery of equipment made on time
103	Software	Architecture inconsistencies	Peterson	Н	L	-2	Waiting		Tests performed with success
104	Software	Vendor bankruptcy	Olsson	L	VL	-4	Active		
105	Software	Pricing	Olsson	Н	Н	1	Resolved	М	We have obtained a saving of 9,4 mCAD
106	Hardware	The connection to moulding equipment does not perform	Jackson	L	L	-3	Waiting		
107	Process	Simplified changeover	Andersen	VLI	Н	1	Waiting		
108	Process	Changeover complexity	Andersen		L	-3	Waiting		
109	Process	Flexibility	Andersen	.1	М	1	Waiting		
110	Software	Easier software maintenance	Olsson	L	Н	2	Waiting		
111	Other			L	L	-3	Waitin		

A risk/opportunity can be either:

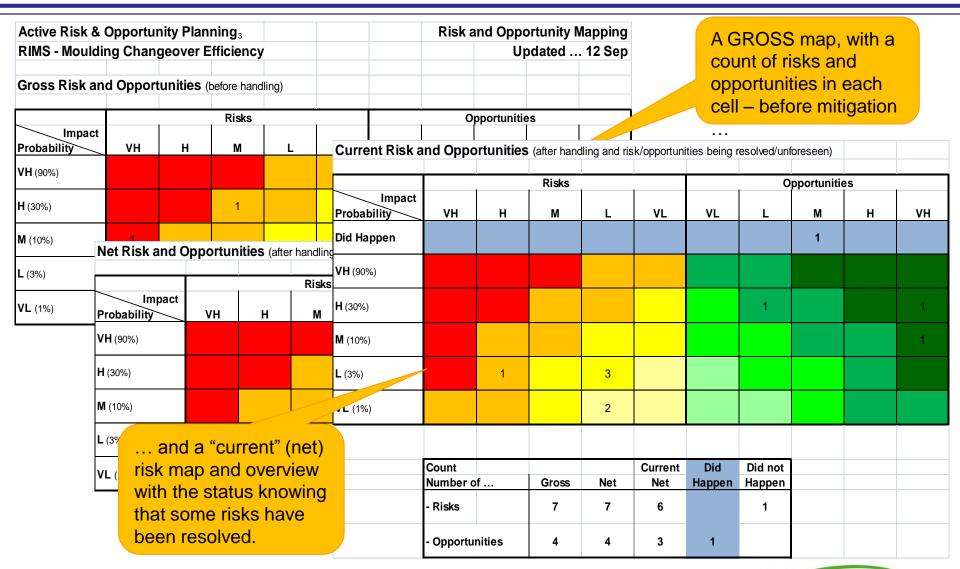
- Waiting, i.e. relevant, but not yet
- Active, i.e. it can happen any day now
- Resolved, i.e. it can no longer happen

If the risk/opportunity is "resolved", we know the outcome ...

... and can show this – plus comment on the status...



# The "Map" sheet provides you with an overview – which you can directly copy/paste into your business case document



# The "overview" sheet provides you with a pivot-table of risks and opportunities, to be copy/pasted into your business case document

Active Risk & Opportunity Planning <sub>3</sub>				Risks & Op	portunities
RIMS - Moulding Changeover Efficiency				Update	d 12 Sep
	Priotit	ization		Priotiti	zation
	Gross	Net		Gross	Net
Group & Risk/Opportunity	Priority	Priority	Owner & Risk/Opportunity	Priority	Priority
⊟Hardware			∃Jackson		
101 - Resistance to operating conditions	-2	-4	101 - Resistance to operating conditions	-2	-4
102 - Late delivery	-4	-4	106 - The connection to moulding equipment does not perform	-2	-3
106 - The connection to moulding equipment does not perform	-2	-3	∃Jones		
■Software			102 - Late delivery	-4	-4
103 - Architecture inconsistencies	-1	-2	⊟ Peterson		
104 - Vendor bankruptcy	-3	-4	103 - Architecture inconsistencies	-1	-2
105 - Pricing	3	1	<b>⊡ Olsson</b>		•
110 - Easier software maintenance	3	2	104 - Vendor bankruptcy	-3	-4
■Process			105 - Pricing	3	1
107 - Simplified changeover	1	1	110 - Easier software maintenance	3	2
108 - Changeover complexity	-3	-3	∃Andersen		
109 - Flexibility	2	1	107 - Simplified changeover	1	1
⊟Other			108 - Changeover complexity	-3	-3
111 - Decreased flexibility	-2	-3	109 - Flexibility	2	1
,	1		<b>■ Smith</b>		
			111 - Decreased flexibility	-2	-3

One survey based on the defined grouping – showing each group and their risks/opportunities as well as gross/net priority ...

... plus a similar overview based on ownership

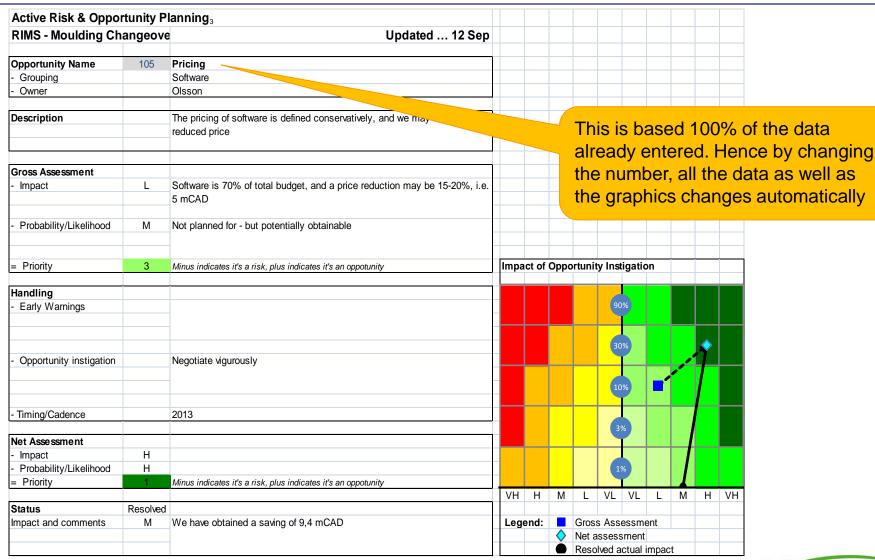


# The "light report" sheet provides a full listing of selected key data for the risk portfolio, and allow e.g. filtering

Active Risk & O	pportunity	<sup>,</sup> Planning₃							Risk	& Opportur	nity Portfoli	io Report
RIMS - Moulding	g Change	over Efficiency									Updated .	12 Sep
	Ris			Gross Ass	essment (befor	e handling)	Decided / In	nplemented Handling	Net Asse	essment (after	handling)	Current
Risk Group	▼ N		Owner	Impact 💌	Probabili	<b>Priority</b>	Indicators	Actions Taken	Impact 💌	Probabili	Priority <u></u>	Status
Hardware	101	Resistance to operating conditions	Jackson	Н	L	-2	Operating thermal conditions continuously monitored and documented	Task force designated to address issue if it materializes  Backup equipment ready and	L	VL	-4	Waiting
								available				
Hardware	106	moulding equipment does	Jackson	M	Н	-2	Operatinal monitoring	Pre-installment testing in real-life thermal conditions	L	L	-3	Waiting
		not perform						Designate taskforce to address issue				
Other	111	Decreased flexibility	Smith	Н	L	-2	Monitor actual performance on pilot implementation	Revise implementation plan  Designate taskforce to re-design process and tools if need be	L	L	-3	Waiting
Process	107	Simplified changeover	Andersen	VH	М	1	Monitor actual changeover time	Prepare to further oll-out application of new process	VH	Н	1	Waiting
Process	108	<u> </u>	Andersen	L	L	-3	Monitor actual performance on pilot implementation		L	L	-3	Waiting
Process	109	Flexibility	Andersen	Н	M	2	Monitor actual performance on pilot implementation	Pre-define next step roll-out based on efficiency criteria	VH	M	1	Waiting
Software	103	Architecture inconsistencies	Peterson	VH	M	-1		Pre-define plan for fast scaling  Validate and test architecture	Н	L	-2	Waiting
Software	104	_	Olsson	L	L	-3	Change of credit rating	Prepare, in extreme cases, to buy out vendor (small company)	L	VL	-4	Active
Software	110	Easier software maintenance	Olsson	L	М	3		Re-negotiate maintenance agreement based on predefined criteria	L	Н	2	Waiting



# ... and the "Report" sheet provide you with a full-page report on any single risk/opportunity - a potential business case appendix



### The SRM team can further support the portfolio reporting by adding Monte Carlo simulation, which is embedded in the tool

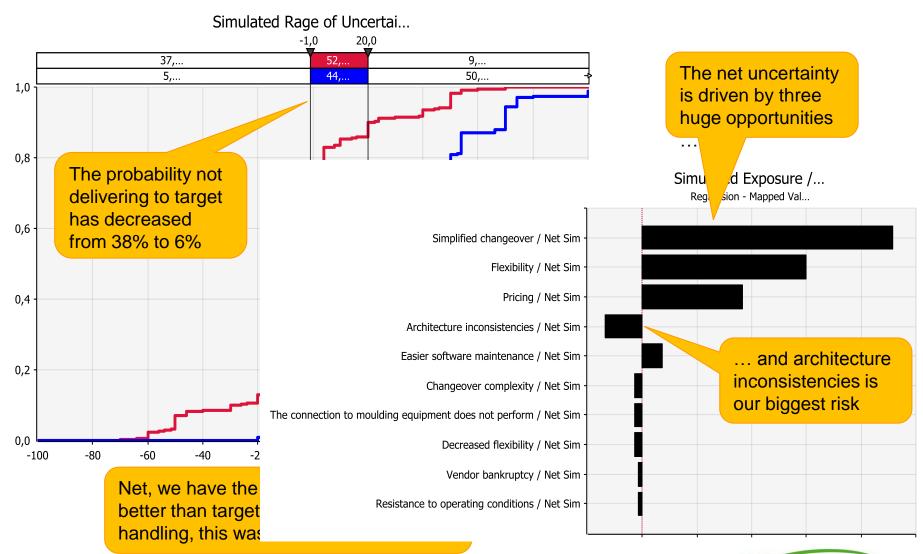
Active	Risk & Oppor	tunity Plai	nning <sub>2</sub>					Monte Carlo Sin	nulation of	Risk Exp	osure
RIMS	- Moulding Cha	angeover	Efficiency						Upd	ated	12 Sep
No	Risk/ Opportunity	Gross Impact	Gross Probability	Net Impact	Net Probability	Status	Actual Impact		Gross Sim	Net Sim	Now Sim
101	-1	20	3%	4	1%	Waiting	0	Resistance to operating conditions	0	0	0
102	-1	1,5	3%	1,5	3%	Resolved	0	Late delivery	0	0	0
103	-1	50	10%	20	3%	Waiting	0	Architecture inconsistencies	0	0	0
104	-1	4	3%	4	1%	Active	0	Vendor bankruptcy	0	0	0
105	1	4	10%	20	30%	Resolved	10	Pricing	0	0	10
106	-1	10	30%	4	3%	Waiting	0	The connection to moulding equipment	-10	0	0
107	1	50	10%	50	30%	Waiting	0	Simplified changeover	0	50	50
108	-1	4	3%	4	3%	Waiting	0	Changeover complexity	0	0	0
109	1	20	10%	50	10%	Waiting	0	Flexibility	0	0	0
110	1	4	10%	4	30%	Waiting	0	Easier software maintenance	0	0	0
198	0	0	0%	0	0%		0	0	0	0	0
199	0	0	0%	0	0%		0	0	0	0	0
200	0	0	0%	0	0%		0	0	0	0	0
								Simu' fotal Exposure	-10	50	60

All impact is "translated" into money ... gross as well as net and current

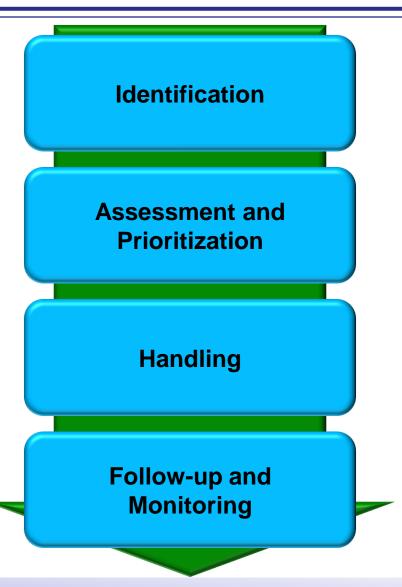
In this particular "scenario" this risk happened The software calculates and saves the result of all the (many) scenarios



### ... which can then be documented as the risk/opportunity profile



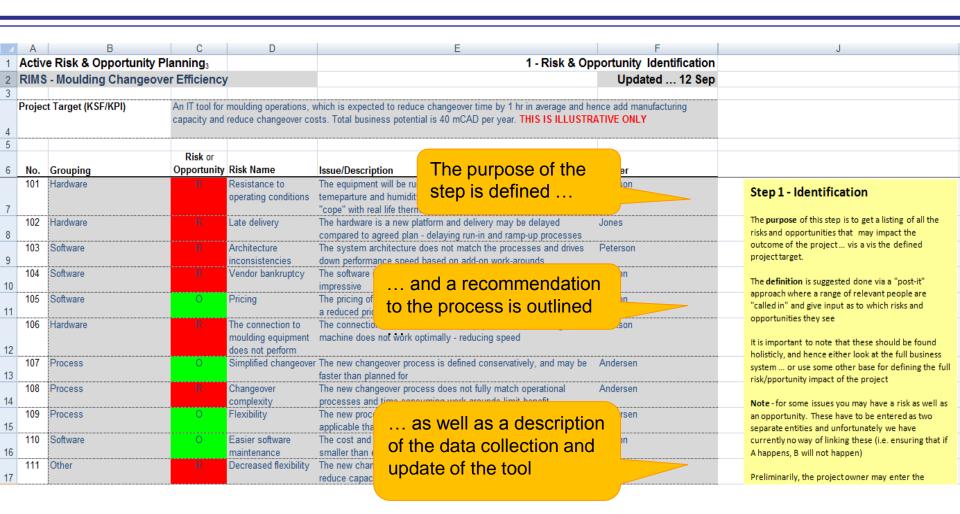
### AROP will help manage the project uncertainty - better



- Involve all stakeholders in identifying uncertainties
- Look at opportunities as well as risks
- Look at the entire business system
- Base assessments on coherent and defined scales
- Consolidate across multiple scales of impact
- Set priorities based on two dimensions
- Identify and use "early warning" indicators
- Assign risk owners to each risk to ensure action
- Address handling impact and validate if this is enough
- Monitor changes as project is progressing
- Standard reporting to the business case as well as project reports
- Enable Monte Carlo simulation "on demand"



# This is a lot to remember – but fear not, the tool includes a "how to..", and each sheet is provided with a supporting text ...





### ... on all of them

	Α		В	С	D				E			J	K			M	7
1			risk & Opportunity Plan	nning			1	- Risk	& Opportunity Id	dentificatio	n		- 1				
-	Pr	4	A	В	С		D E F					Н	1	J	K	L	
3		1 Ac	tive Risk & Opportunity I	Planning					2.1 - Do	efining Sca	les						
⊿	Α	В	С		D		Е		F		G			Н			
1	Act	ive R	isk & Opportunity Plan	nning											2.2 - /	Assessn	nent
1	Α	В	С			D			E	F	G	Н	J	K	L	M	
1	Active Risk & Opportunity Planning			nning					3 - Gro	ss Prioriti	zation						
			lame												_		
3	1 Active Risk & Opportunity Planning			C	D		E			F 4 - Hand	lling	6 H	I	J	ation		
4	2		ect Name	iiig						4-Hallu	iii.ig						
		A	B	С	D	F	F		G	Н		J	M	N O	P		iew of t
5	1 Active Risk & Opportunity Planning										5 - Re-ass	sessment		11			to enabl
_																andi	ing of
7	4	Α	В	С	D	Е	F	G	Н		1	J	K	L	М	N	
8			e Risk & Opportunity Pl	lanning					6	- Follow-U	p						:
	_	Proje	ect Name														0
9	3			Net Asse	essment (after	handling)		Follow-Up	Data		Sort						
10	4	No.	Name	Impact	Probability	Priority	Status	Impact	Comments		order						et
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# This takes us from "damage control" to actively managing uncertainty ... at documented best in class performance







# Enjoy the rest of the 2012 RIMS Canada Conference!

