

#### POSC Caesar Association Australasian Conference (Perth)



#### SAP & ISO15926 – What Does it Mean?

Stephen Crampton Vice President Asia Pacific <u>scrampton@nrx.com</u> +61 410 315 643

October 12th, 2011

## **SAP & ISO15926**

- What does NRX know about SAP?
- What am I going to show you?
- Showing you SAP & ISO15926...
- What exactly did I show you?

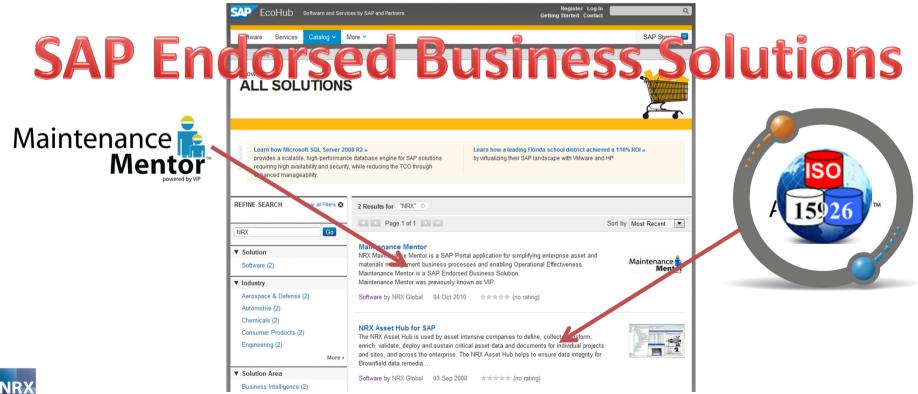




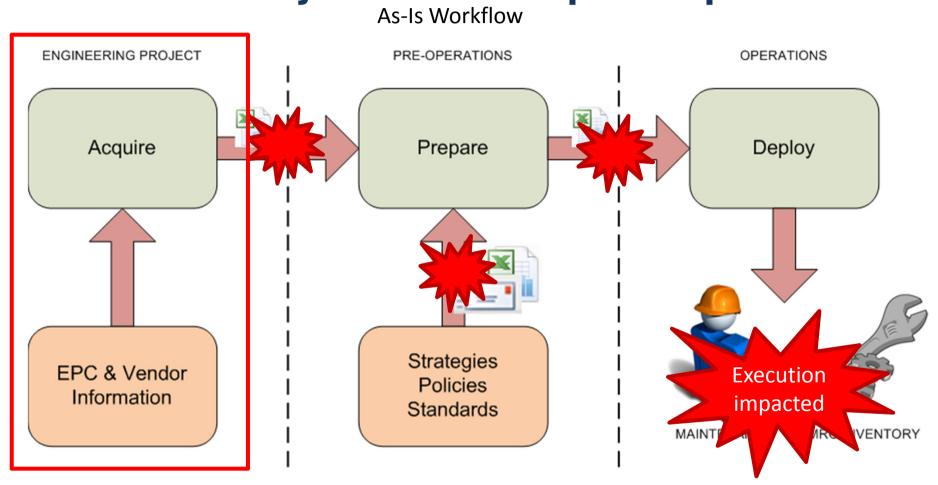
## What do we know about SAP?

Certification Type Endorsed Business Solution | SAP Certified - Powered by SAP NetWeaver

<u>NRX Asset Hub for SAP</u> is the sole SAP EBS for moving data from capital projects into SAP Plant Maintenance



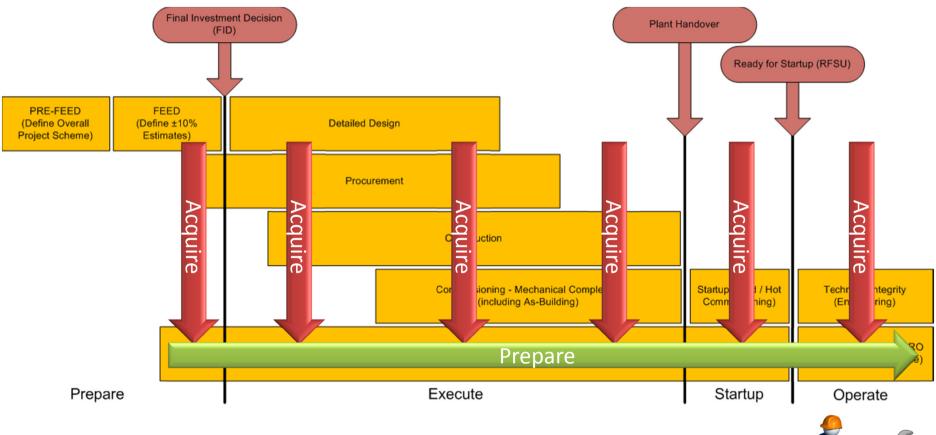
# The Journey from Concept to Operations



**Disconnected Islands of Automation** 

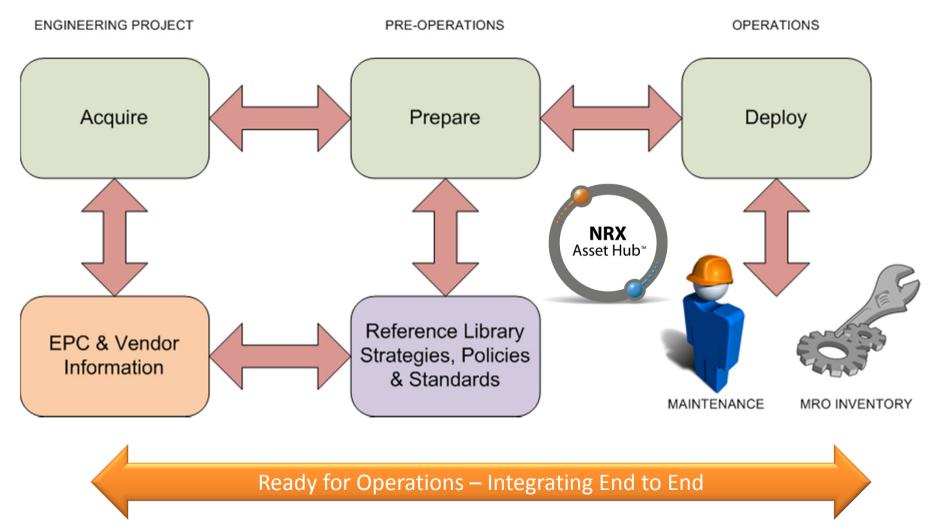


#### **Overlaid with Project Phases**





# **A Better Way - Streamlined Workflow**



## What am I going to show you?







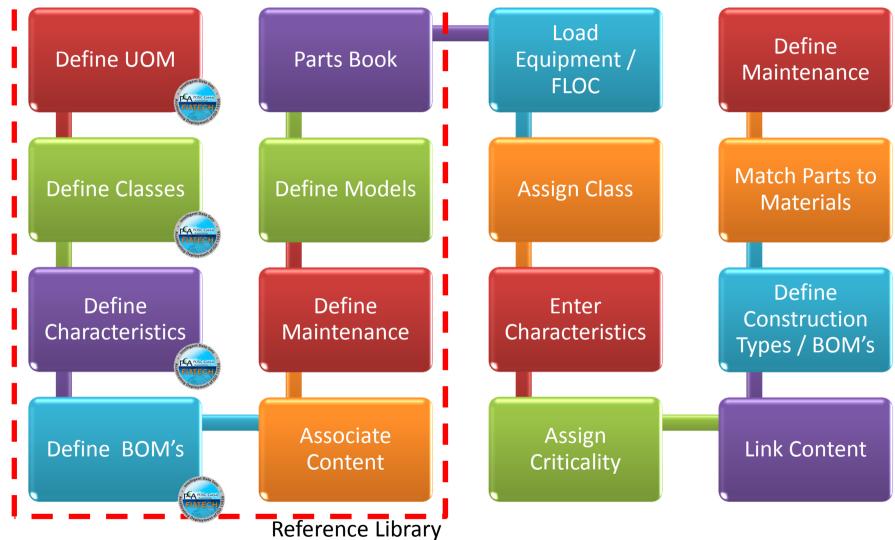


-CENTRIFUGAL PUMP -CLASS\_OF\_ASSEMBLY\_OF\_INDIVIDUAL .CLASS\_OF\_WHOLE -CLASS OF PART -FLOOD LUBRICATOR ⊕-OIL MIST LUBRICATOR .OIL PRESSURE LUBRICATOR -PUMP CASING -CLASS\_OF\_IDENTIFICATION -CLASS\_OF\_INDIRECT\_PROPERTY -PROPERTY\_SPACE .NET POSITIVE SUCTION HEAD AVAILABLE -UPPER LIMIT HEAD WITH RATED IMPELLER DIAMETER ■ UPPER LIMIT NUMBER OF IMPELLERS -UPPER LIMIT POWER CONSUMPTION WITH RATED IMPELLER -CLASS\_OF\_POSSESSOR 

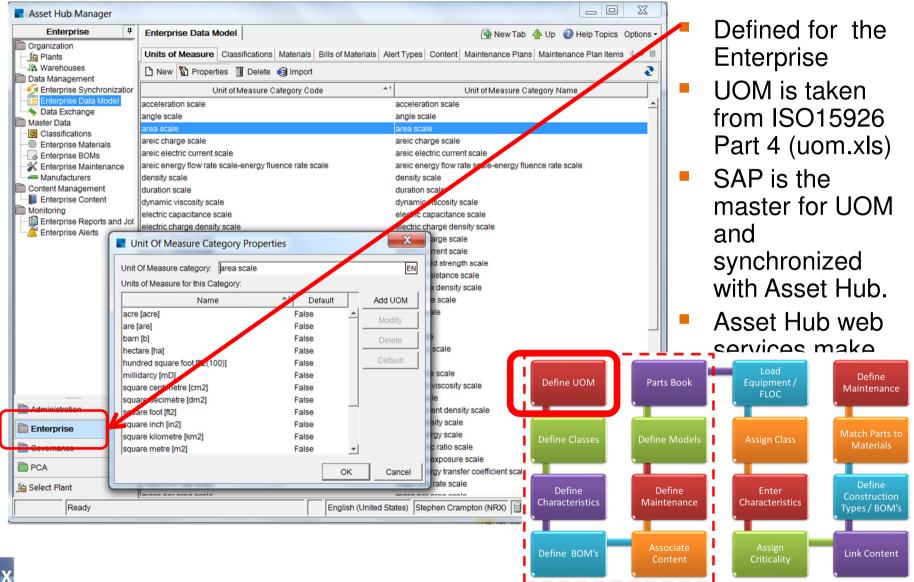
- . DYNAMIC PUMP
- -SUBCLASS



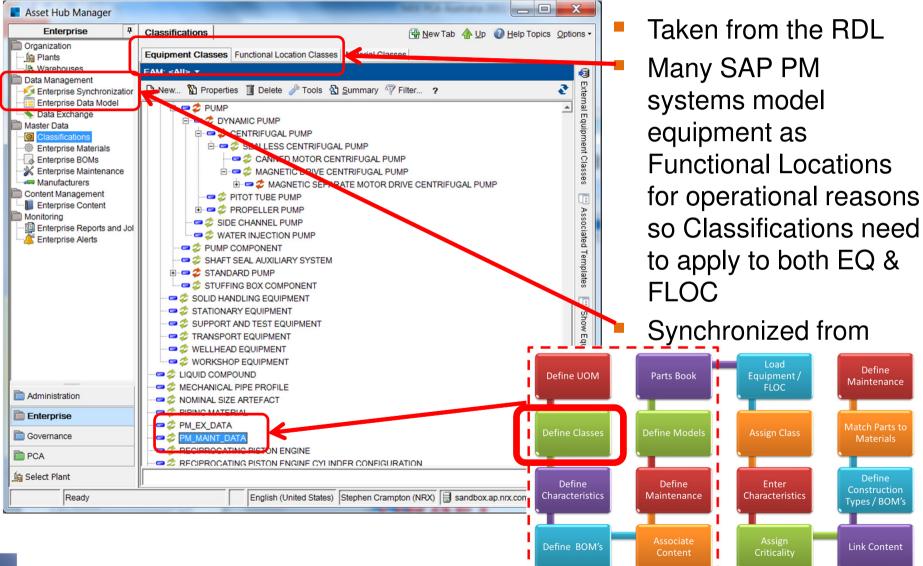
# The process we will step through



#### UOM



## Classifications



Define

Maintenance

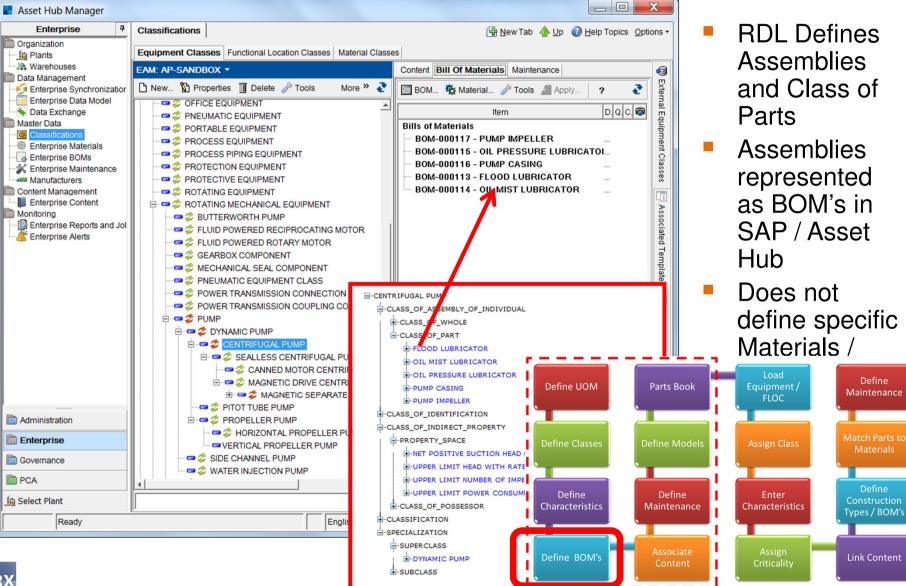
Types / BOM's

Link Content

# **Classifications : RDL Integration**

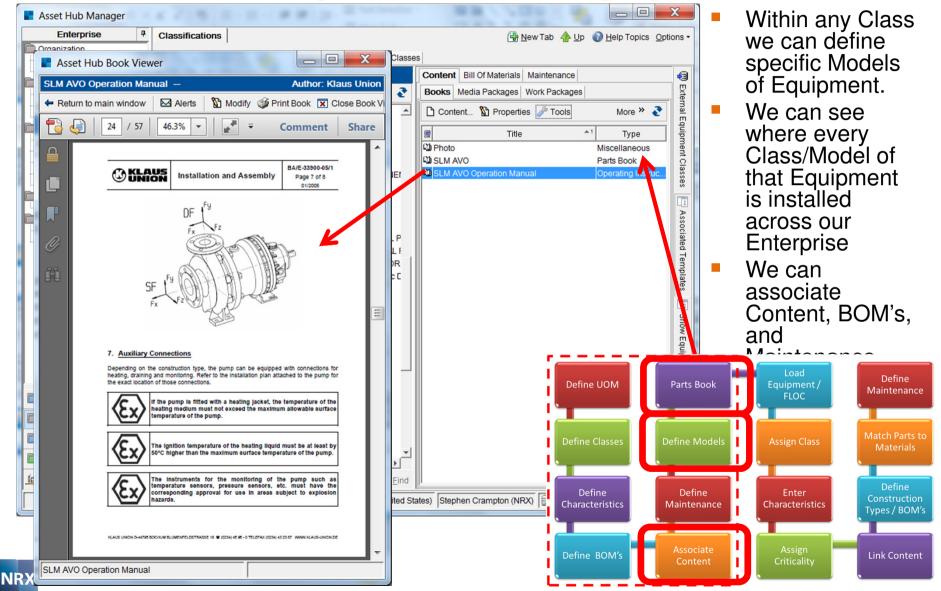
_		X	D					
PGAT		ome Page • Project Page • IDS-ADI Project • POSC Caesar • FIATECH Search RDS/WIP: CENTRIFUGAL PUMP		Equipment/FLOC Class information from RDL Façade				
G	eneral		7	Charact	eristics f	rom		
R	DS/WIP URI	http://rdl.rdlfacade.org/data#R84144178538	V	RDL and inherited from				
La	abel	CENTRIFUGAL PUMP						
De	escription	A dynamic pump utilizing impellers provided with vanes generating centrifugal force to achieve the required pressure head.		SuperClass				
E	ntity Type	http://dm.rdlfacade.org/data#ClassOfInanimatePhysicalObject		RDL searched from				
P	CA Attributes	S		within A	sset Hub	)		
ld	entifier	RDS416834						
D	esignation	CENTRIFUGAL PUMP						
Ci	reation Date	1999.07.01						
	reator	u20683	<u> </u>					
St	tatus	Recorded		Parts Book	Load Equipment /	Define		
•		""			FLOC	Maintenance		
🗢 Back	⇒ Forward 🎯 Print							
		Close Define C	lasses	Define Models	Assign Class	Match Parts to		
		A dynamic pump utilizing impellers provided with vanes generating	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Denne Wouels		Materials		
	Description	centrifugal force to achieve the required pressure head.						
				Define	Enter	Define Construction		
		<u>O</u> K <u>C</u> ancel	eristics	Maintenance	Characteristics	Types / BOM's		
NRX		Can also be used to map to ISO142	BOM's	Associate Content	Assign Criticality	Link Content		
NAA								

## Assemblies / BOM's



Define

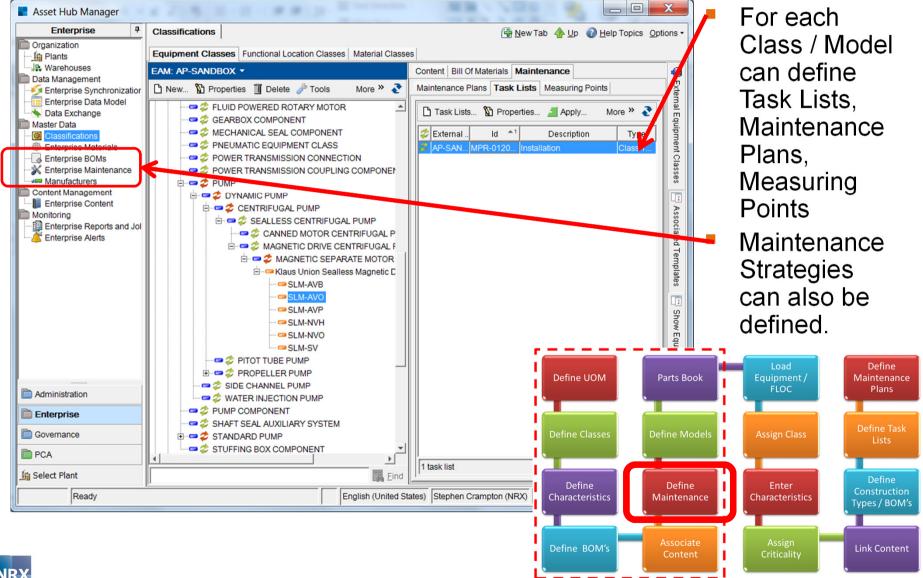
## **Defining Models of Equipment**



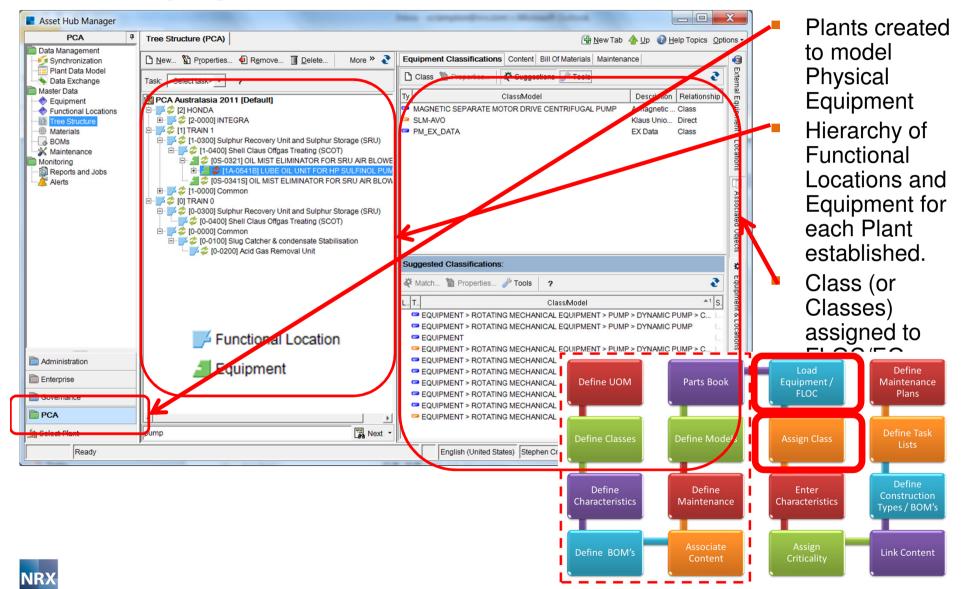
#### **Parts Book**

	Asse	t Hub Boo	k Viewer	-	-						-	
SL	A AV	0 —										Author: Klaus Unior
<b>+</b> j	Retur	n to main wi	ndow Alerts	Modify	🎯 Print Book 🛛 👫 Hi	ide Parts List 🔛 Hide Drawing						X Close Book Viewe
	★ III 100 100 100 100 100 101 </th <th>EM         QTY           1         1           1         1           8         1           9.1         1           4         6           1         1           6.1         1           6.2         1           1.1         1           0         1           5         6           4         2           1.8         1           0.1         1           0.2         1           1.6         1           1.6         1           1.7         1           4.2         2</th> <th>CAT ID PART NO P0113821 P003166 P0004137 P0003168 P0005099 P009745 P0009745 P00090155 P00090155 P00090527 P00090527 P00090527 P00090527 P0099012 P0090912 P0090912 P0090912 P0090912</th> <th>2 PUMP CAS 4 MULTI-STE 2 STAGE SH 4 SIDE CHAI 1 IMPELLER 9 INTERMED 4 INTERMED 4 INTERMED 3 CASING CI 9 SHAFT 6 IMPELLER 3 THRUST B 8 DRAIN PLU 1 GASKE 8 DRAIN PL 8 DRAIN PL 7 GASKET</th> <th>ESCRIPTION SING EP CASING ELL NNEL CASING SUCTION SIDE DIATE LANTERN DIATE FLANGE OVER WHEEL EARING JG GASKET GASKET SASKET</th> <th>ST ST ST</th> <th>ows all Ve rials if ma</th> <th>tched) to</th> <th>sets (&amp; SAP be linked of SAP BOM</th> <th>923.5 927 1918 2 / 918.1 146.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th> <th>Hot-Sp Graphics be deploy SAP GUI accurate Selection</th> <th>ootted that can yed in the for more Material in Work</th>	EM         QTY           1         1           1         1           8         1           9.1         1           4         6           1         1           6.1         1           6.2         1           1.1         1           0         1           5         6           4         2           1.8         1           0.1         1           0.2         1           1.6         1           1.6         1           1.7         1           4.2         2	CAT ID PART NO P0113821 P003166 P0004137 P0003168 P0005099 P009745 P0009745 P00090155 P00090155 P00090527 P00090527 P00090527 P00090527 P0099012 P0090912 P0090912 P0090912 P0090912	2 PUMP CAS 4 MULTI-STE 2 STAGE SH 4 SIDE CHAI 1 IMPELLER 9 INTERMED 4 INTERMED 4 INTERMED 3 CASING CI 9 SHAFT 6 IMPELLER 3 THRUST B 8 DRAIN PLU 1 GASKE 8 DRAIN PL 8 DRAIN PL 7 GASKET	ESCRIPTION SING EP CASING ELL NNEL CASING SUCTION SIDE DIATE LANTERN DIATE FLANGE OVER WHEEL EARING JG GASKET GASKET SASKET	ST ST ST	ows all Ve rials if ma	tched) to	sets (& SAP be linked of SAP BOM	923.5 927 1918 2 / 918.1 146.1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hot-Sp Graphics be deploy SAP GUI accurate Selection	ootted that can yed in the for more Material in Work
	50 10 51 52 52 52 54	42 2 9 5 12 1 5 9 4 7 8 4 7 8 1 9 1 9 4 5		7 GASKET 9 STAGE SH 2 RUB RING 3 DISTANCE 8 BEARING 9 6 BEARING 9 6 BEARING 9	E SLEE BUSH Ven Nur Des (Cc	dor Part mber & cription omplex emblies	2.1 511.2 525.4 545.4 941.1	1 210 55-22 832.1 101 stall X bastelling to and measure				S91.22 Define Maintenance Match Parts to Materials Define Construction Types / BOM's
N	R)	<u>د</u>			Со	mmon)			Define BOM's	Associate Content	Assign Criticality	Link Content

#### Maintenance



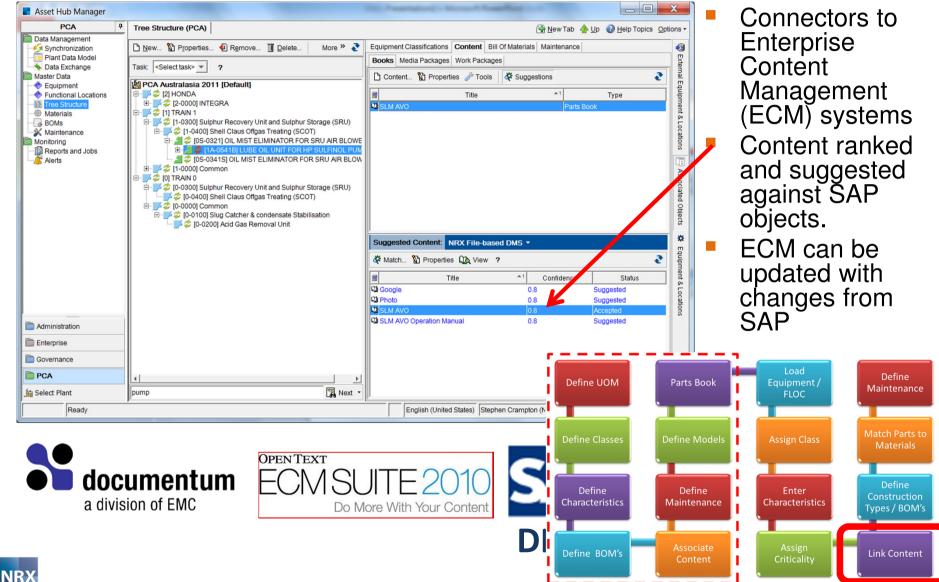
## **Equipment / FLOC's & Classification**



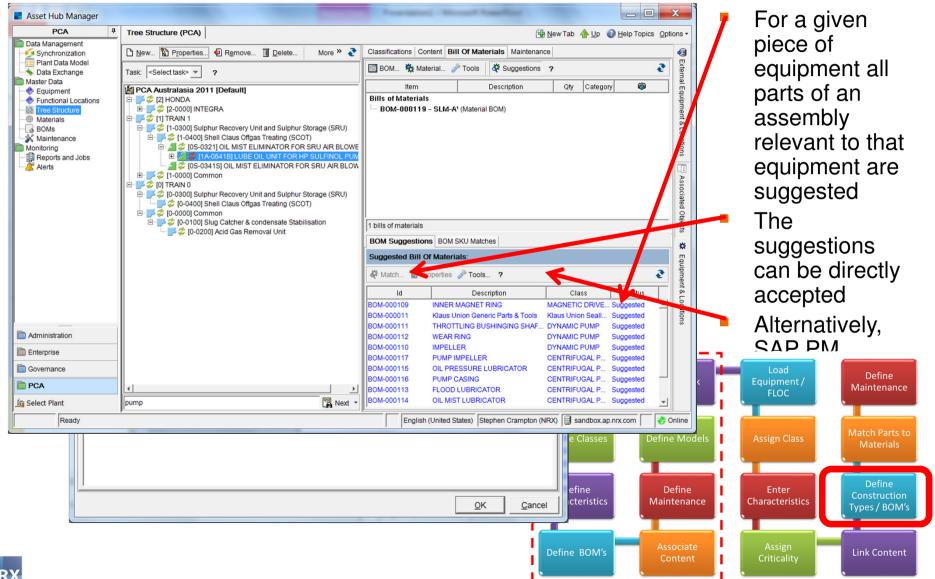
# **Enter Characteristics & Criticality**

	Equipment LUBE OIL UNIT FO General Classification Attributes C EAM Custom Acquisition value: Asset sub number:	ontacts   Status   Work Tasks   History   <pre> </pre> </th <th></th> <th></th> <th colspan="3">Each piece of Equipment or Functional Location has the characteristics for its class available</th>			Each piece of Equipment or Functional Location has the characteristics for its class available				
	Authorization Group:	<pre><not set=""></not></pre>	Select value for "ABC indicato	Name			to be defi		
	Business area:	<not set=""></not>	1	<not set=""> Dept. Shutdown</not>			Character		
	Catalog profile:	<not set=""></not>	2	Potential Prod Loss Has Installed Spare			can be ma	andatory	
	Change Number:	<not set=""></not>	4	No Effect			and have		
	Country of manufacture:	<not set=""></not>	A	Prod. loss involved Reduced prod. loss		-	validation	rules	
	Currency :	<not set=""></not>	c	No effect on prod.			applied		
	Date valid:	<not set=""></not>		-			SAP data dictionary	is	
	*Equipment category:	Equipment Category [E]					synchroniz		
	Gross weight:	<not set=""></not>	_				SAP EAN		
	Individual status of an object:	<not set=""></not>					attributes		
	Inspection Point:	<not set=""></not>					available		
	Inventory Number:	<not set=""></not>	General				Criticality	(ARC	
	Main asset no:	<not set=""></not>	Value		Define UOM	Parts Book	Load Equipment /	Define	
	Maintenance Plant:	PCA	Name		Denne OOM		FLOC	Maintenance	
	Asset Location:	<not set=""></not>		<u>o</u> k					
	Room:	<not set=""></not>			Define Classes	Define Models	Assign Class	Match Parts to Materials	
	Work Center:	<not set=""></not>						Waterials	
								Define	
L					Define Characteristics	Define Maintenance	Enter Characteristics	Construction Types / BOM's	
								lypes/ bowrs	
					Define BOM's	Associate	Assign	Link Content	
					benne bonns	Content	Criticality	Link content	

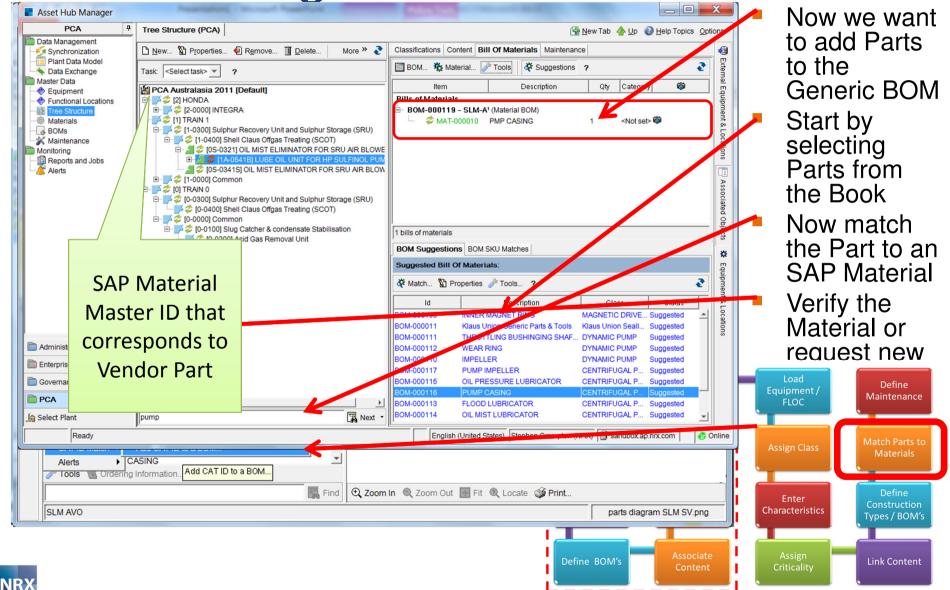
# Linking Content to Equipment/FLOC



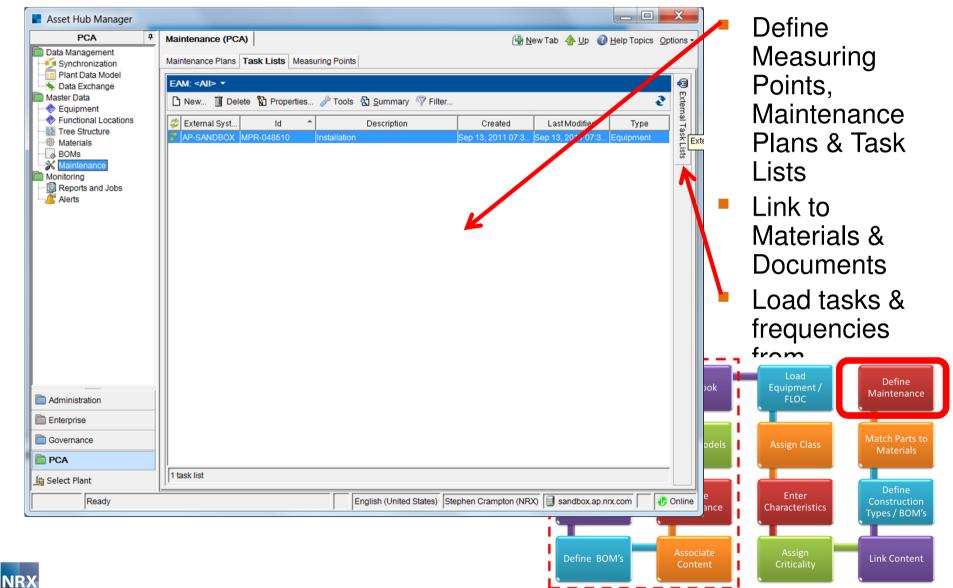
## **Construction Types & BOM's**



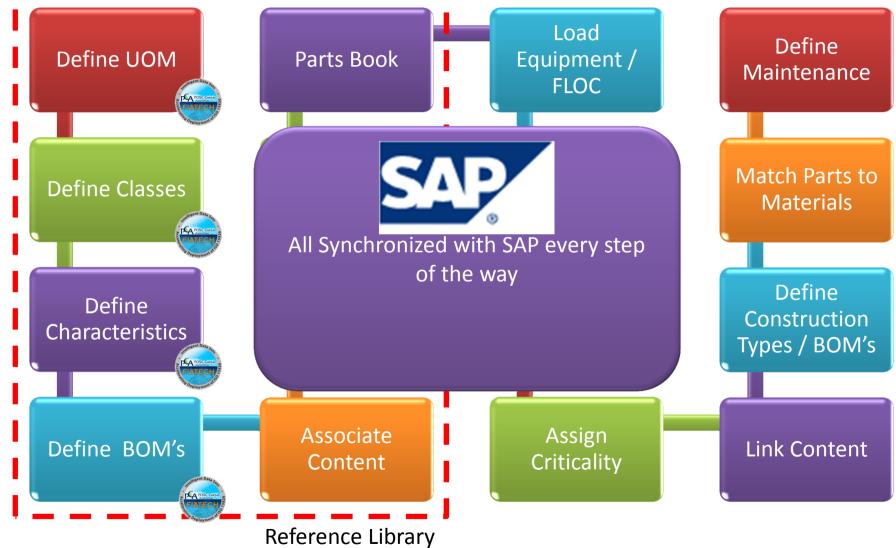
## **Adding Materials to the BOM**



#### **Maintenance**



## The process we stepped through





#### **Contact Information**

Stephen Crampton Vice President Asia Pacific NRX Global Inc.

Phone :+61 410 315 643
Email :scrampton@nrx.com
Web :www.nrx.com