

Agenda – day 1

Time	Duration	Session	Session Lead
9:00 AM	00:20	Welcome	Patrick Coulter
9:20 AM	00:15	Agenda review / minutes from last meeting	Dan Williams
9:35 AM	01:00	Software update / demonstration	Dan Williams
10:35 AM	00:15	Coffee break	
10:50 AM	00:30	Member update 1	PSA
11:20 AM	01:00	Technical session 1 - Simulation	Pete Chems
12:20 PM	01:00	Lunch	
1:20 PM	00:25	State of Industry Report	Dan Williams
1:45 PM	00:30	Member update 2	Honeywell
2:15 PM	01:00	Technical session 2 - Data and Knowledge management	Dan Williams
3:15 PM	00:15	Coffee break	
3:30 PM	00:30	Member update 3	GM
4:00 PM	01:00	Technical session 3 - PLM integration	Arthur Fairfull
5:00 PM		Adjourn	
7:00 PM		Consortium Dinner - Walton Hall, Directors' Suite	

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Technical Session 1 – Simulation

Pete Chems



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Agenda vote

	Data management	Automating workflows	T4	5
	Materials approval	Approval workflows	T4	5
	Materials engineering	Capturing knowledge and expertise	T2	4
⇒	Simulation	Data provision for simulation	T1	4
	Selection & specification	Materials selection / recommendation tools	T5	4
	IT infrastructure	Global synchronization	T2	3
	Data management	Collection of legacy data	T2	3
⇒	Simulation	Shared exporter development within AutoMatIC	Tech proj review	3
	Selection & specification	PLM integration	T3	3
	IT infrastructure	Data security	T2	2
	Data model	Standard schema for adhesives/lubricants	Tech proj review	2
	Data model	Standard schema for fabric materials	Tech proj review	2
	Data management	Collection of future data	T2	2
	Data management	Standardization of data	T2	2
	Selection & specification	CAD integration	T3	2
	IT infrastructure	Logging user activity	Software update	1
	Data model	Standard schemas for wear/tribology		1
	Data model	Standard schema for lightweight alloys	Tech proj review	1
	Materials approval	Using GRANTA MI across the supply chain		1
⇒	other	Material data extraction from CAE model and comparison with database		1
			T1	

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In this session

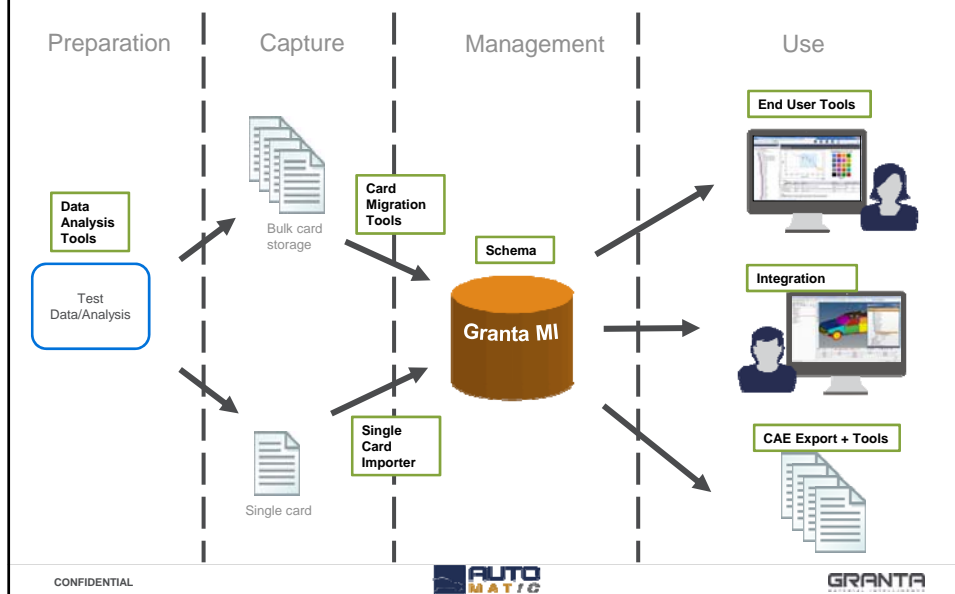
Area	Discussion topic	Session	Totals	GM	KSPG	PSA	JLR	HNY
1.6	Simulation	Data provision for simulation	T1	4	X	x		X
1.7	Simulation	Shared exporter development within AutoMatIC	T1	3	X		x	X
	other	Material data extraction from CAE model and comparison with database	T1	1		x		

- Round table:
 - Why did you vote for these items?
 - How can AutoMatIC help?
 - What are the challenges in these areas?

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Areas of Simulation Solution



Preparation of data

- Prioritised list of requirements for data analysis tools generated by this group
- Granta currently developing toolkits for integration with Matlab and Python
 - Sample apps will be available for Matlab toolkit
 - Custom tools can then be developed either in-house or through a services engagement with Granta
 - Functionality to be delivered in December 2015

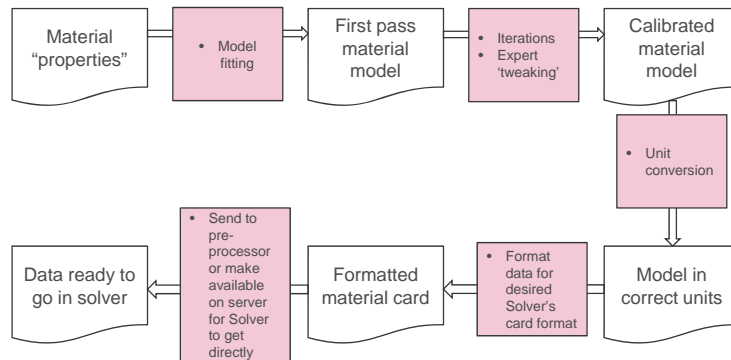
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AUTO MATIC

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Management of data

- Feedback from previous meeting was that either model ready data or pre-formatted cards should be stored
- On-the-fly calculations from properties not appropriate



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Use of data

- Simulation data managed in Granta MI can currently be consumed through:
 - End user tools
 - Viewer
 - Explore
 - Direct integration with Pre-processors
 - Hypermesh
 - Ansys Workbench
 - Abaqus/CAE
 - Single dataset or bulk export
 - Through viewer
 - Automated through external processes
 - End users interact with data directly in pre-processor
- What additional requirements exist?
- Where should our focus be in this area?

End User Tools



Integration



CAE Export + Tools



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In this session

Area	Discussion topic	Session	Totals	GM	KSPG	PSA	JLR	HNY
16	Simulation	Data provision for simulation	T1	4	X	x	x	X
17	Simulation	Shared exporter development within AutoMatIC	T1	3	X		x	X
	other	<i>Material data extraction from CAE model and comparison with database</i>	T1	1		x		

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