

Agenda

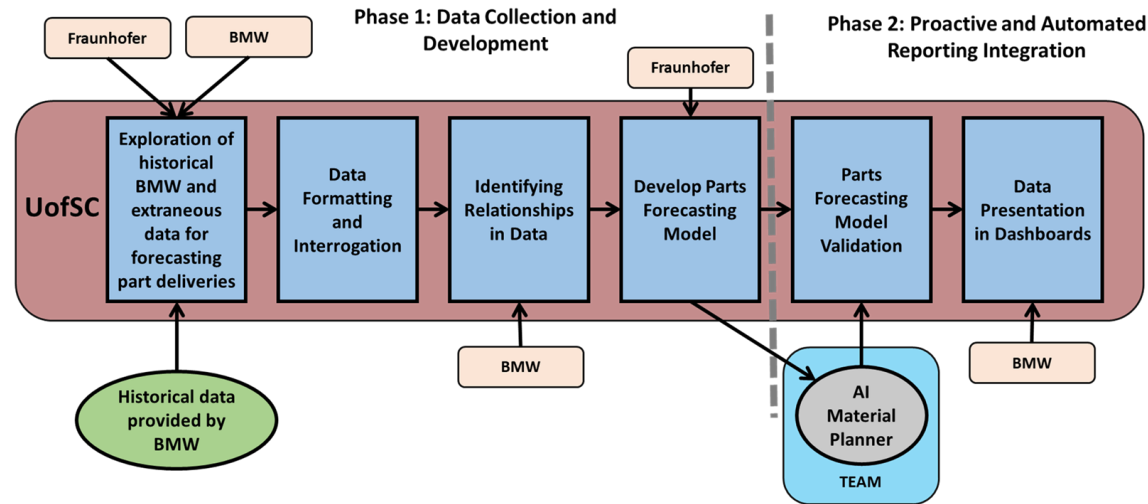
- 1. Announcements and Review of Action Items (5 min)**
- 2. UofSC Update (10 min)**
- 3. Fraunhofer Update (5 min)**
- 4. BMW Update / Questions / Next Steps(10 min)**
 - 1. Interviews**

Review Action Items

Topic	Responsible	Due Date	Comment
Map Tasks to timeline	Rhea	08/16/2021	
Prepare Questions for Interviews	All	08/06/2021	
Finalize Interview logistics	Leads	08/06/2021	
Send Entity Relationship Diagram Feedback	All	08/12/2021	
Send Dashboard Feedback	All	08/12/2021	

UofSC Team - Status Update for 08/09/2021

UofSC Roadmap



Current Task: Data Exploration

- Understand headers (*in progress*)
- Get information on quality, ordering times, transportation, etc. (*in progress*)
- Identify poor areas/gaps in data
- Make timeline of orders
- Define states (early, tardy, too late)
- Calculate numbers for tangible and intangible criteria*
- Create supplier ranking
- Integrate findings into deliverable document

Deliverable: key figures from historical data, rich/poor areas, supplier ranking

Progress Made Last Week

- Continuing to review the Zgrve and 130 reports and working to understand the header definitions
 - Identifying relationships in the data
 - Revised relationship diagram
- Brainstorming questions for Interviews
- Reviewing Documentation files
- Brainstorming capabilities for Dashboards and Visualizations

Plans for this week

- Continuing to review the Zgrve and 130 reports and documentation files to get a better understanding of the process
- Study Material Master User Manual documentation
- Identify important fields for Material Planning
- Produce a list of questions for Interviews
- Provide feedback and recommendations for tasks related to dashboards and visualizations
- Prepare data dictionary to create database Improve relationship diagram

Dashboards – Initial Concept

AI Material Planner Dashboard UI - View Parts

Parts Information

AI Material Planner Dashboard

Part #	Attribute 1	Attribute 2	--	--	Attribute N

1 View Parts Critical Parts Part Search Regression Test 4

AI Material Planner Dashboard UI - Edit Parts

Parts Information (Edit Mode)

AI Material Planner Dashboard

Attribute 1	Attribute 2		--	--	Attribute N

Edit Parts Save Parts Save As New Parts

AI Material Planner Dashboard UI - Evaluate Parts

Parts Information

AI Material Planner Dashboard

Recommendations from AI Material Planner Assistant

Part #	Attribute 1	Attribute 2	--	--	Attribute N
Part 1					

???

Cancel

AI Material Planner Dashboard UI - Evaluate Parts

Parts Information

AI Material Planner Dashboard


Recommendations from AI Material Planner Assistant

Attribute 1	Attribute 2		--	--	Attribute N
Part 1					
Part 2					
..					
Part N					

???

11 Evaluate Parts 14


UofSC's Concept



Program Name
Version

Username

Part / Summation



Prognostic Health Status

Test	1234567890	Ipsum	Health Status	Notation

Material Planner Suggestions

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Quis ipsum suspendisse ultrices gravida. Risus commodo viverra maecenas accumsan lacus vel facilisis.

Material Planner Response

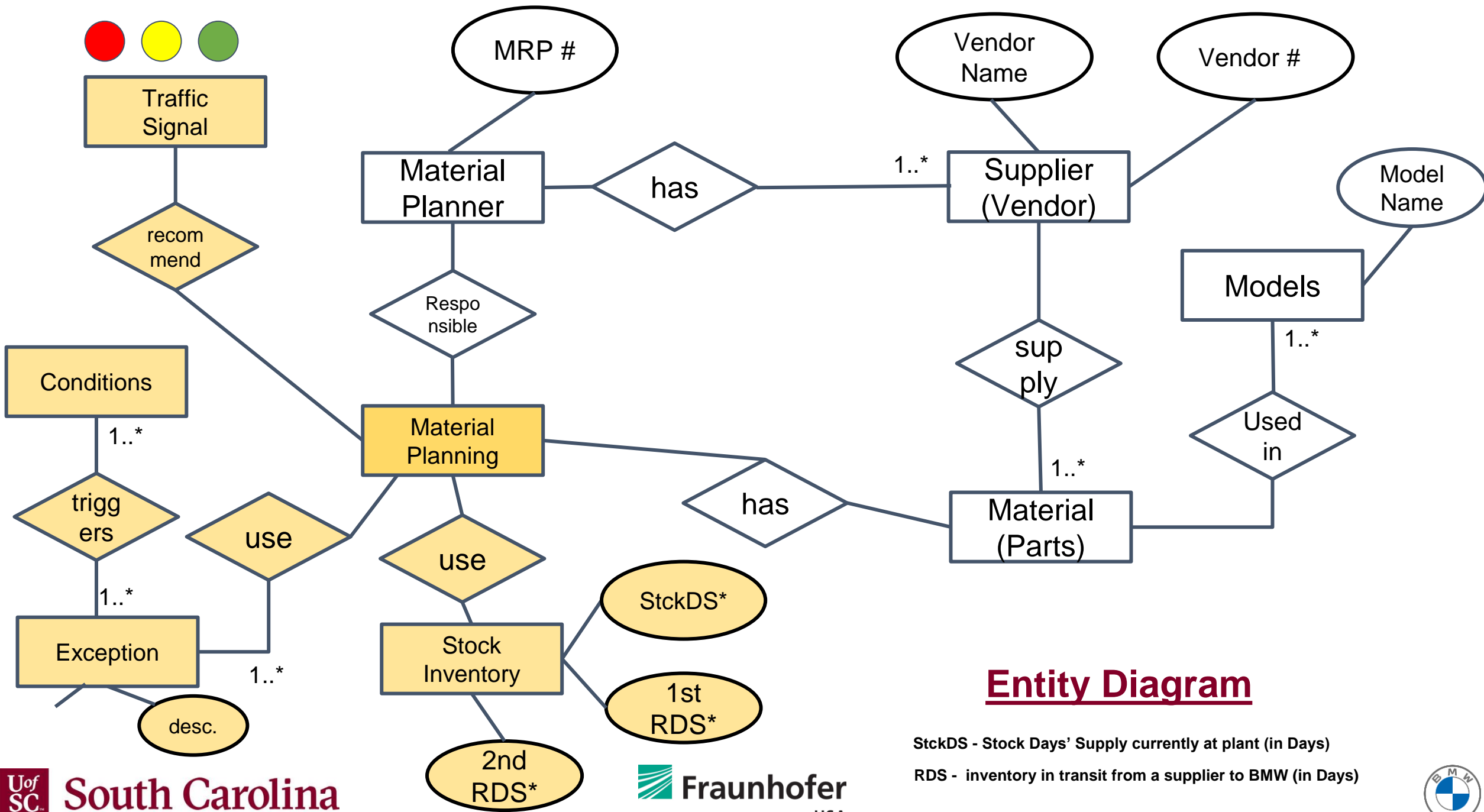
Do you agree with the Material Planner's assessment and would you like to make its recommended change?

Reject

Agree

Comments and Ideas for Discussion

- Dashboard should show probability if a supplier being late considering previous shipment was late and by how much (Markov)
 - Long run (average) and conditional probabilities
- Dashboard should show cost incurred if a shipment is early/late
- Dashboard should be customizable for the user and have different widgets associated with different pieces of information
 - Managers will have access to see if certain widgets are not being used
- User will have the option to reject a suggestion and explain why a suggestions in being rejected
 - Managers will have access to reading this feedback.
- User must learn from the system as much as the system from the user



Entity Diagram

StckDS - Stock Days' Supply currently at plant (in Days)

RDS - inventory in transit from a supplier to BMW (in Days)

MPA Weekly Update 08/09 - Fraunhofer

Summary of last week:

- Acquired a significant amount of knowledge during the two technical meeting last week, about the material planner's work ('Material Planner Training meetings')

Plans for this week:

- Document concepts/rules from last week's meetings
 - Begin to document rule sets from the Training and Interview sessions that the Trainer and Interviewees can validate.
- Prepare/plan interviews

Concerns/Comments:

- None

Next Steps

- **Review rulesets (created by Fraunhofer) next Monday**
- **Once team is in agreement of the rulesets, Josh will reach out to set up the interviews**
- **Will have one more meeting with Shawn to prepare for the interviews**
- **Reoccurring data availability (cdh)**

Questions

1. **What is the current approach at BMW to perform material planning (other than stckDS, Exception message)?**
2. **How would a material planner like to receive a recommendations from Material Planner Assistant?**
 - **What will be a format of recommendations from Material Planner?**
 - **Are Colored Alerts sufficient for material planner?**
3. **Would it be possible to access historical exceptions datasets (along with material data) to analyze the frequency/occurrences of them? They may help us to analyze the frequently occur exceptions and root cause of them?**
4. **Is there any criticality level (or weight) associated with exception? For instance, it may be possible that some exceptions require more attention than other exceptions?**