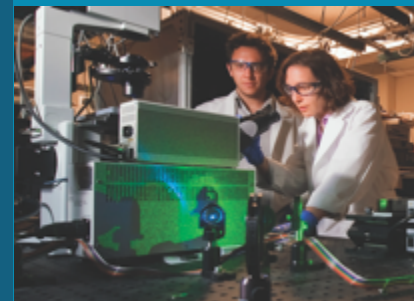




# EMIT Consortium Member Presentation

## Autumn 2018



PRESENTED BY

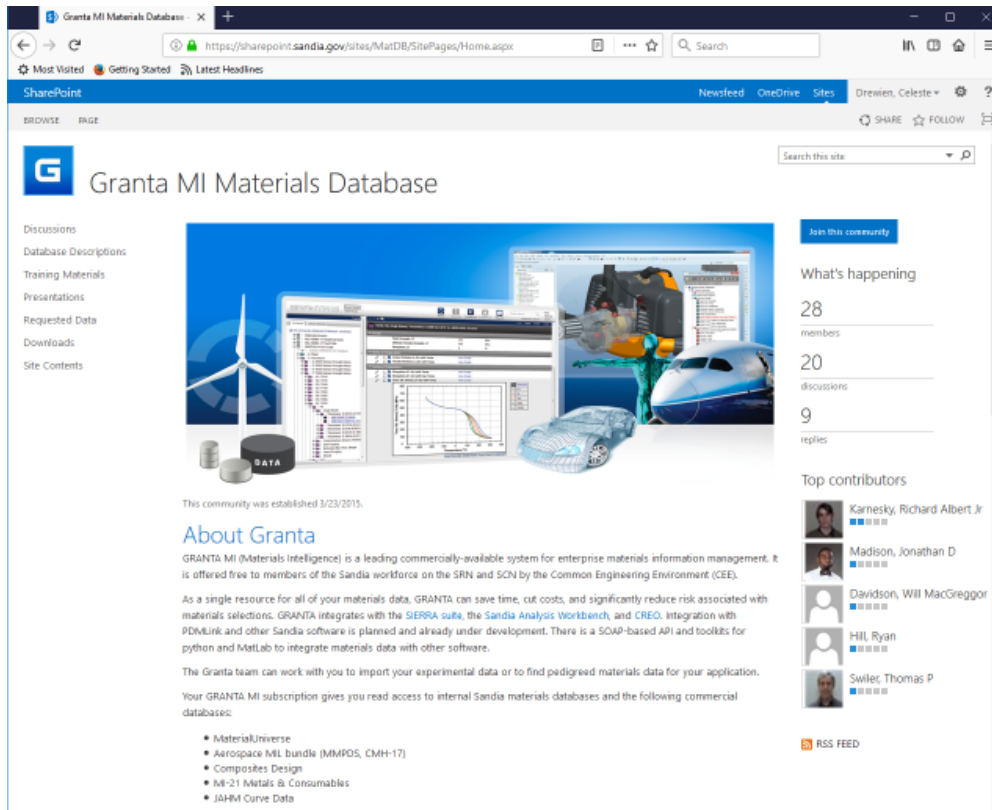
Celeste A. Drewien, Richard L. Karnesky



Sandia National Laboratories is a multimission laboratory managed and operated by National Technology & Engineering Solutions of Sandia, LLC, a wholly owned subsidiary of Honeywell International Inc., for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-NA0003525.



## SharePoint Site



Part of Common Engineering Environment

Data input by researchers

Used for At-Risk Materials

Integrated within CREO (CAD application)

We have a strong need for better one-way (and partial) syncing between databases that are on air-gapped networks.



- ▶  Products and parts
- ▶  Coatings
- ▶  Electricity mix
- ▶  Critical Materials
- ▶  End of life
- ▶  **Legislations and Lists**
- ▶  Materials - in house
- ▶  MaterialUniverse
- ▶  ProcessUniverse
- ▶  Producers
- ▶  Reference
- ▶  Resources
- ▶  **Restricted Substances**
- ▶  Shape
- ▶  Specifications
- ▶  Transport
- ▶  Use - mobile mode
- ▶  Use - static mode
- ▶  Suppliers

We have a strong need for better one-way (and partial) syncing between databases that are on air-gapped networks.



Sandia  
National  
Laboratories

Unclassified

Full 1-Way Update  
of unclassified data

Classified



- ▶ Products and parts
- ▶ Coatings
- ▶ Electricity mix
- ▶ Critical Materials
- ▶ End of life
- ▶ **Legislations and Lists**
- ▶ Materials - in house
- ▶ MaterialUniverse
- ▶ ProcessUniverse
- ▶ Producers
- ▶ Reference
- ▶ Resources
- ▶ **Restricted Substances**
- ▶ Shape
- ▶ Specifications
- ▶ Transport
- ▶ Use - mobile mode
- ▶ Use - static mode
- ▶ Suppliers

Includes classified  
materials

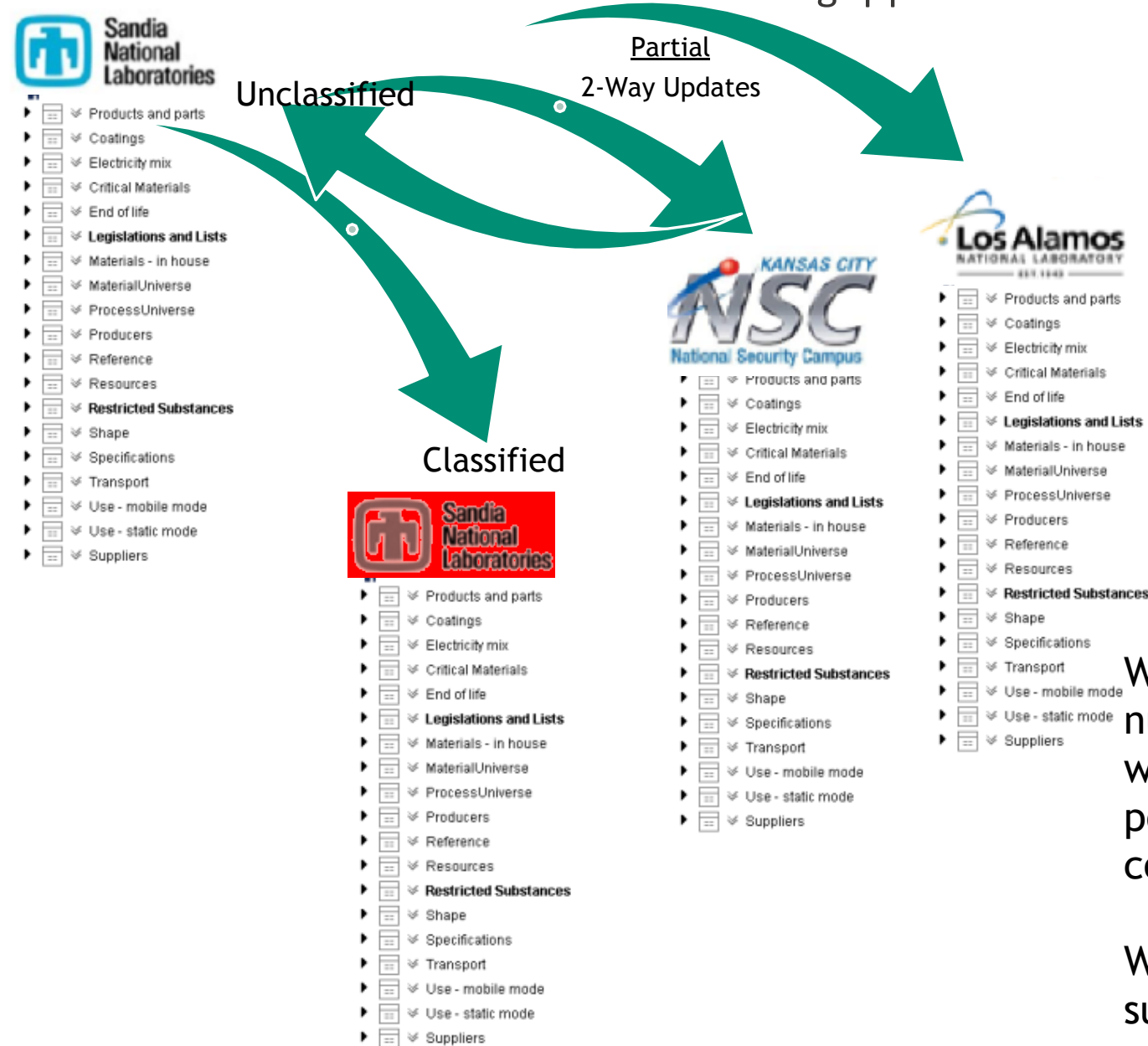
Inc. classified specs

Inc. classified info

We make updates on our unclassified database that need to be pushed to our classified database

The classified database includes information that we cannot include in the unclassified database

We have a strong need for better one-way (and partial) syncing between databases that are on air-gapped networks.



We share specification numbers and chemistry with sites and want to populate this collaboratively.

We do not share our supplier information.

We have a strong need for better one-way (and partial) syncing between databases that are on air-gapped networks.



MI:Admin (@grantami.sandia.gov)

Server Tools Options Help

Schema Profiles Access Control Data Updater

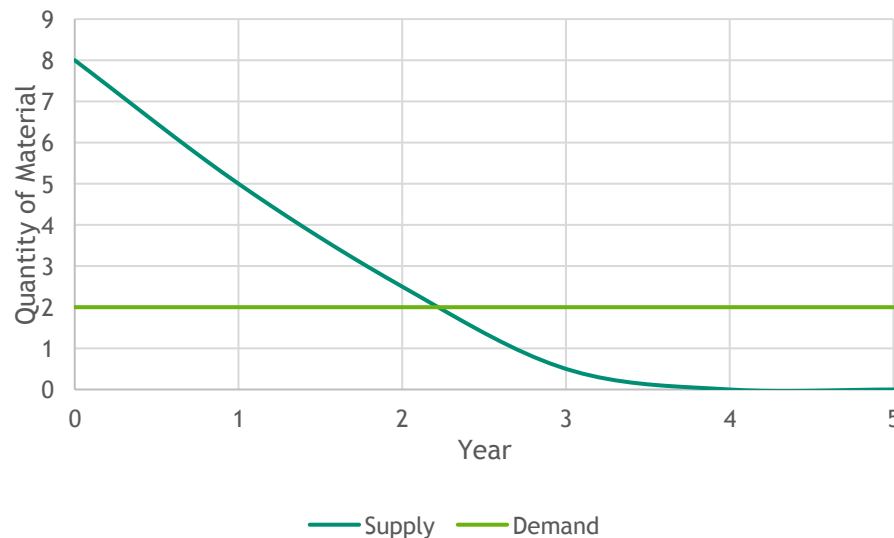
Upload and verify update Apply update

Project name	Update name	Update description	Status	Progress	Database key	Update applied date	
Product Risk...	Update File...	Data Update for Product Risk Oc...	Update applied		MI_Product_Risk_3	1/11/2018 10:59...	
Product Risk...	Schema Up...	IPC-1754 Schema Update for Pr...	Update applied		MI_Product_Risk	8/27/2018 1:39 PM	
Product Risk...	Schema Up...	Pre-requisite Schema Update for...	Update applied		MI_Product_Risk	6/21/2018 9:35 PM	
Product Risk...	Schema Up...	Schema Update for ProductRisk...	Update applied		MI_Product_Risk	6/21/2018 10:13...	
RSDM relea...	Data Updat...	Data Update for RS v8.2 – April...	Update applied		MI_Product_Risk	6/21/2018 9:27 PM	
RSDM relea...	Restricted S...	Data update of substances, legis...	Update applied		MI_Product_Risk	8/20/2018 6:31 PM	
RSDM relea...	RSDM Data...	RSDM Data update v7.1 - Januar...	Update applied		MI_Product_Risk	1/27/2017 9:51 AM	
RSDM relea...	RSDM Data...	RSDM data update v7.2 - April 2...	Update applied		MI_Product_Risk	4/24/2017 9:50 PM	
RSDM relea...	RSDM Data...	Data Update for RSDM v7.3 - Jul...	Update applied		MI_Product_Risk_3	1/11/2018 9:36 AM	
RSDM relea...	RSDM Data...	Data Update for RSDM v8.1 - Ja...	Update applied		MI_Product_Risk	2/1/2018 2:02 PM	
RSDM relea...	Schema Up...	Schema Update for Restricted S...	Update applied		MI_Product_Risk	6/21/2018 10:18...	
RSDM relea...	Update File...	Data Update for RSDM v7.4 - Oc...	Update applied		MI_Product_Risk_3	1/11/2018 12:34...	

- ▶ Use - mobile mode
- ▶ Use - static mode
- ▶ Suppliers

The “Data Updater” tool has been useful for Granta-generated updates & we wonder if a similar tool could help us make quarterly updates from the SNL unclassified database that we share (on our other network and with other sites using Granta Product Risk).

We are contemplating using Product Risk to track and communicate supply/demand/good-through dates



One aspect of materials availability risk is the so-called “magic barrel” problem.

We trust a particular lot (“barrel”) of material to serve our needs, but may be in trouble when we run out of that lot.

We need to better plan how to mitigate this (by acquiring and qualifying new lots (possibly with a materials substitution and re-design if it is not possible to get a “new magic barrel”) more timely.

Do other EMIT members have this need? How do you address it?