POWER BIUSER GROUP SESSION 5

JUNE 23, 2022



Facilitated by:

Steve Dunlop Angus McLeod Roy Vasher



Agenda

- Opening Remarks
- Introductions (new attendees)
- Recap of 1st Four Meetings' Presentations
- Power BI Drill Through Features, by Kyle Smith, Nucor
- Demand/Supply Dashboard, by Bob Bierwagen, Acuity Capital Group/ABC Metals
- Hierarchy in Power BI for Mapping by Steve Dunlop, DCMME
- Open discussion and next meeting

Introductions – New Members

- Name, company, position
- Power BI knowledge and experience
- What do you want to get out of user group?

| No. | Type of User | Description |
|-----|------------------|--|
| 4 | Name | Name and interested in Learning Inc. |
| 1 | New | Never used, interested in learning how to use |
| 2 | Novice | Started to use but not created any business reports yet |
| 3 | Experienced User | Used for some time and developed business reports/dashboards |
| 4 | Power User | Expert user and/or IT Developer |
| 5 | Senior Manager | Interested in Capabilities for Business Reporting/Dashboards |

Recap of Presentations To-Date

Session # 1: June 10, 2021

- Power BI Capabilities and Cost Tom Cunningham Evonik
- Evonik Corporation Power BI Visual Management Solutions Tom Cunningham - Evonik
- New Users: How to get started Roy Vasher Purdue/DCMME

Session # 2: September 16, 2021

- Super User Development Cycle Thomas Heltzel Wabash National
- Getting Data to the People That Need it Most
 — Bob Bierwagen MPI
- Import Analytics/EV Analytics Steve Dunlop Purdue/DCMME

Recap of Presentations To-Date

- Session # 3: December 9, 2021
 - Date Dimensions in Power BI- Vienna Kraay
 Oscar Winski
 - Predictive Analytics and Power BI
 John Dill
 Wabash
- Session # 4: March 24, 2022
 - Presentation by Dennis Rausch, VP Information Technology, Rea Magnet Wire Company - Enterprise Data Sources
 - Presentation by Kyle Smith, IT Supervisor, Nucor Connection to realtime data to display up-to-date information
 - Presentation by DCMME, Student Project Team Building Power BI Dashboard from a sketch



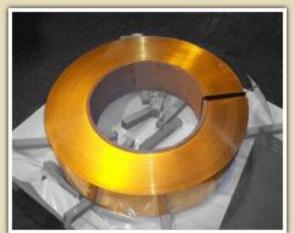


Demand/Supply Dashboard

Using Power BI for Supply Chain Analysis

The Context

- ABC Metals Group consists of 4 plants
 - Logansport, IN
 - Indianapolis, IN
 - El Paso, TX
 - McAllen, TX
- ABC is the largest independent Red Metal Strip provider in North America
- We utilize The Plex Mfg Cloud as our ERP
- Products and services include:
 - Both slitting and cut to length products
 - Copper and copper alloys
 - Grey metals including Aluminum
 - Toll Processing & Plating
 - MX border crossing services
- We move ~ 60 MM pounds annually
- We have an inventory of ~ 10 MM pounds

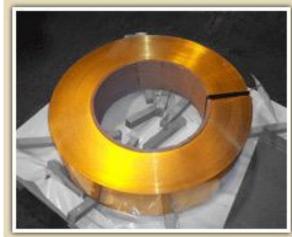




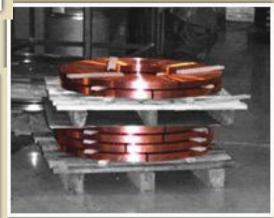


The Challenge

- Any Source for the Mill may meet multiple customer order specifications
- Customer order specifications may include over 100 variables (attributes) that has min/max ranges
 - These attributes describe the chemical, physical, and mechanical properties of metal
- Given current Supply Chain issues Mill lead times continue to expand and allocations continue to shrink
- Customer forecasts are fluid and changes in dates, volume, and pricing are a constant in our business
- As copper is a traded commodity, pricing options vary based on volume and customer commitments
- Our team is challenged daily to answer questions on availability, delivery schedules, current capacity for both our clients and sales teams

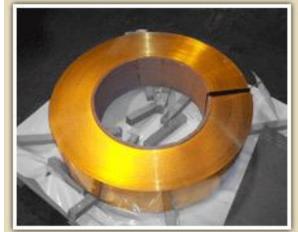




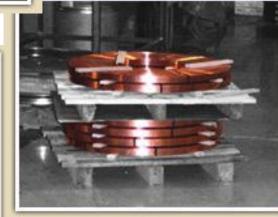


The Solution

- Development of a Power BI Dashboard updated every 4 hours for our operations and customer service teams
- The method
 - Aggregate data from all 4 plants into a single data set
 - Process and update operational data into MS Azure
 - Include data from Supplier PO's, Customer Orders, on hand and allocated inventory data, open jobs data
 - Provide data and slicing by aggregation by grade, gauge, and temper
 - Provide search capability by Customer Part # and ABC/Mill Part numbers
 - Publish the dashboard in MS Teams
 - Provide a Net Availability indicator by week for a four(4) week horizon
 - Allow the user to look at future supply/ demand if the timeframe is more than 4 weeks
 - Provide a filter to for ABC vs. Customer Owned metal

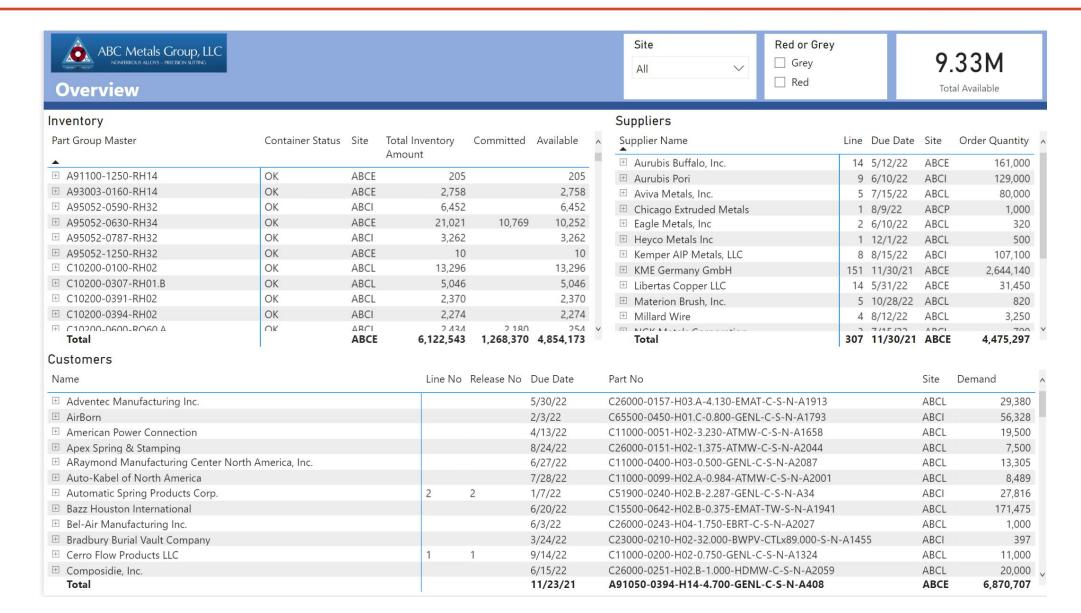






Dashboard Demo

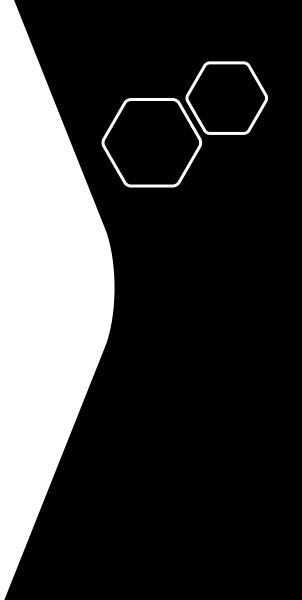
Supply vs Demand







Robert Bierwagen – VP of IT robbie@abcmetals.com
Mobile: 317.513.6664



POWER BI USER GROUP MEETING WABASH HEARTLAND INNOVATION NETWORK PURDUE UNIVERSITY

DRILLTHROUGH FEATURES

June 23rd, 2022





KYLE M. SMITH, PMP – IT SUPERVISOR



INTRODUCTION



NUCOR STEEL INDIANA NUCOR CORPORATION (NUE) CRAWFORDSVILLE, INDIANA

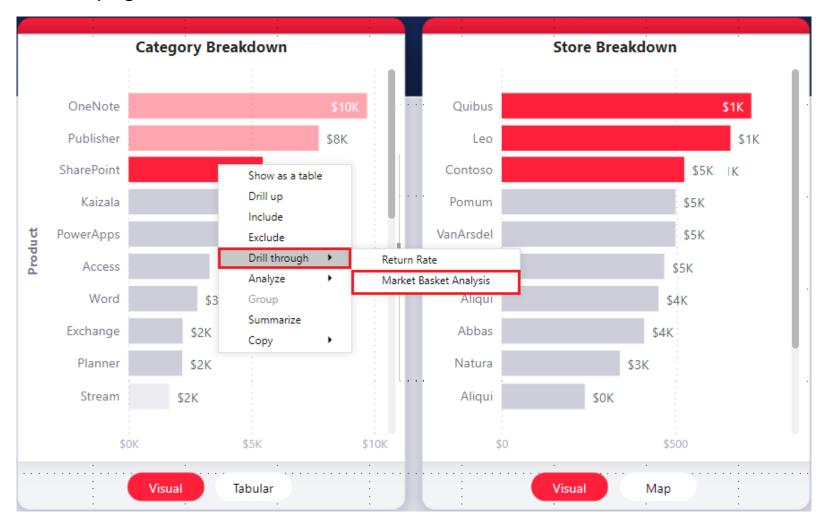


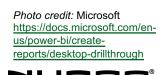




WHAT IS DRILLTHROUGH?

Capability in Power BI that allows the publisher to create action buttons or custom menu items that navigate the user to a specific, focused page in the BI file.







"Want to go really fast? Slow down and focus."

Tim Fargo, Author



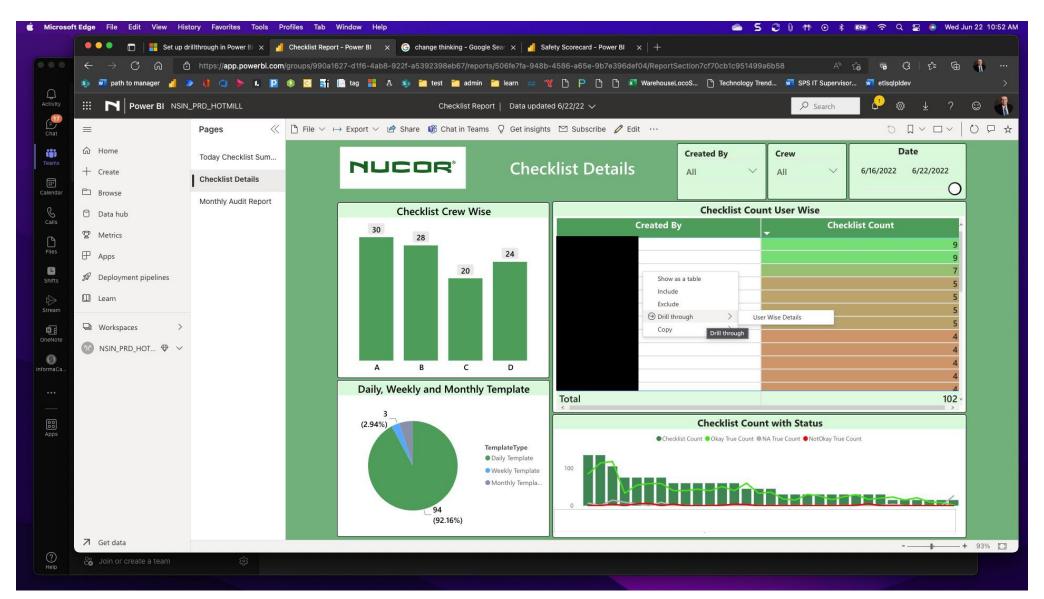
WHY USE DRILLTHROUGH?

- Change our thinking
- Inspires enhancements
- Efficiencies



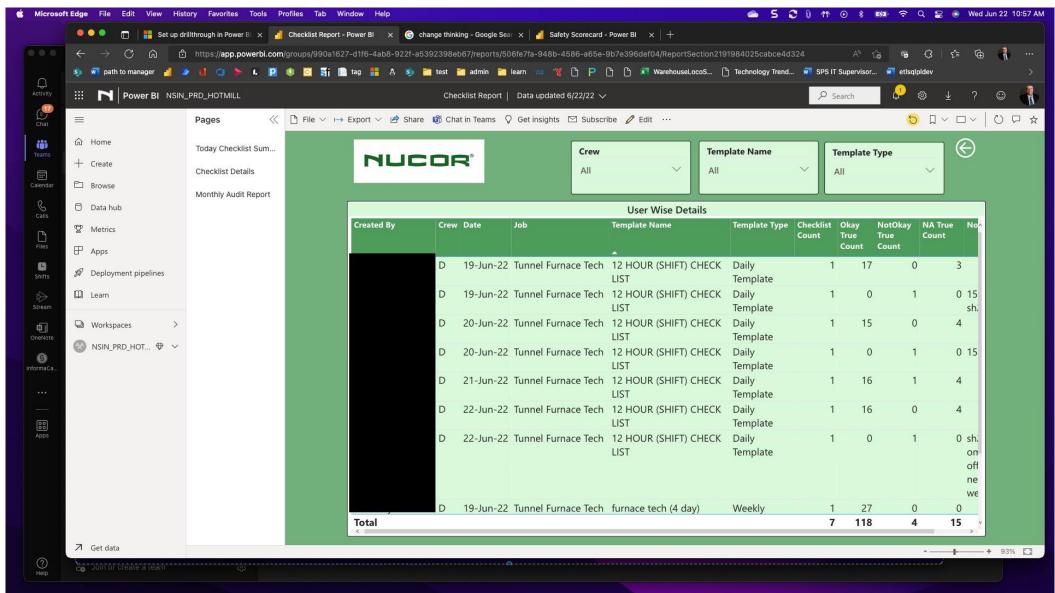


EXAMPLE 1- USING THE DRILLTHROUGH MENU



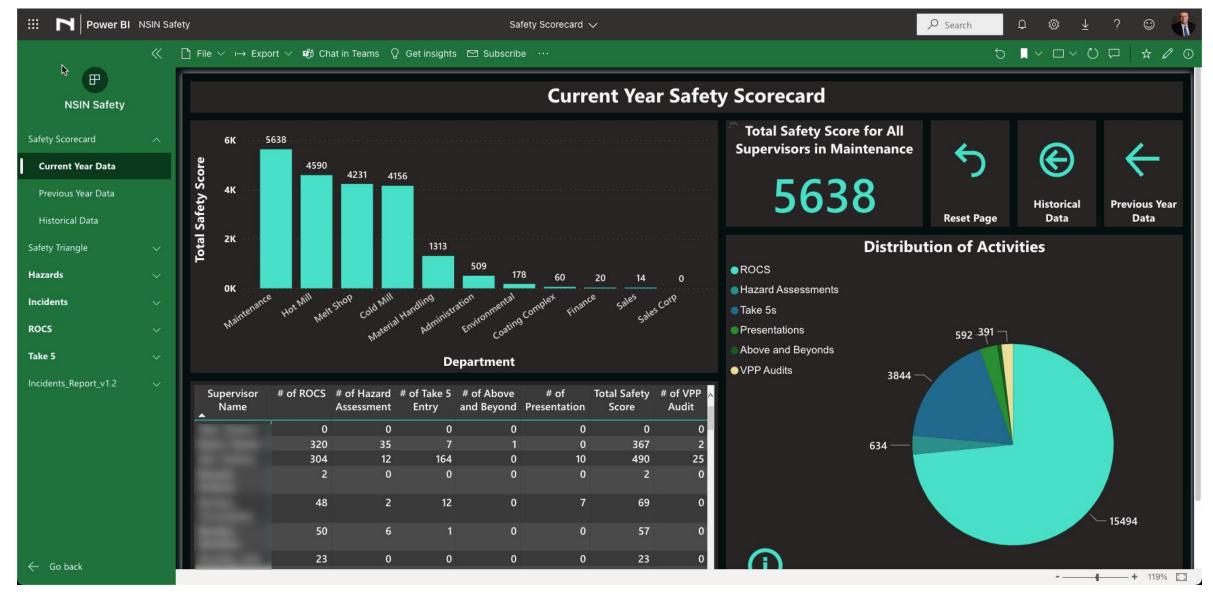


EXAMPLE 1- USING THE DRILLTHROUGH MENU

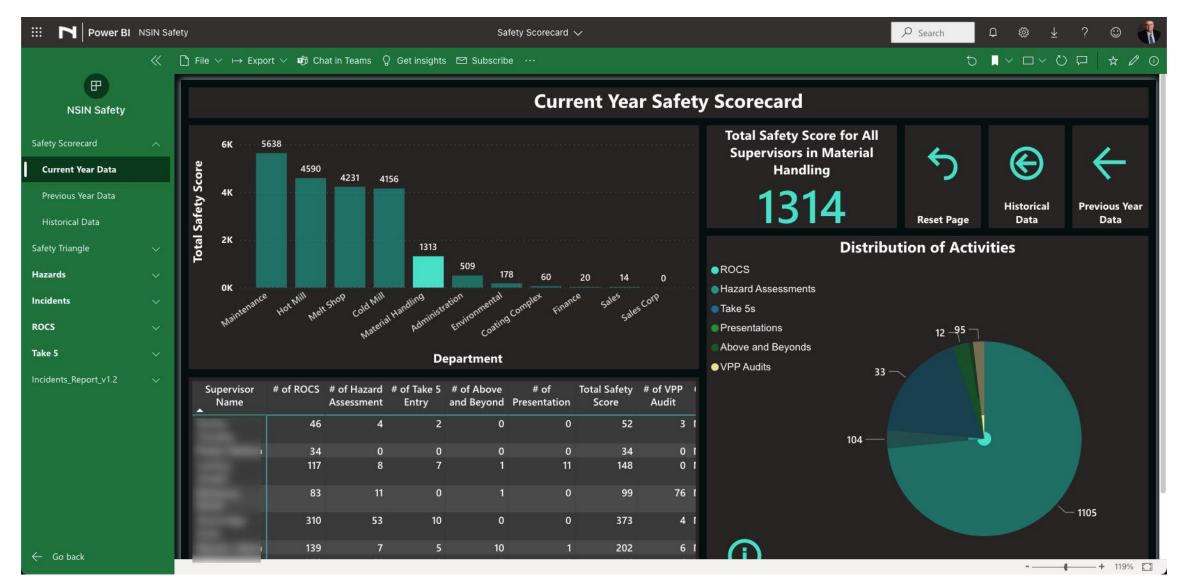




EXAMPLE 2- USING THE DRILLTHROUGH BY LEFT CLICK



EXAMPLE 2- USING THE DRILLTHROUGH BY LEFT CLICK

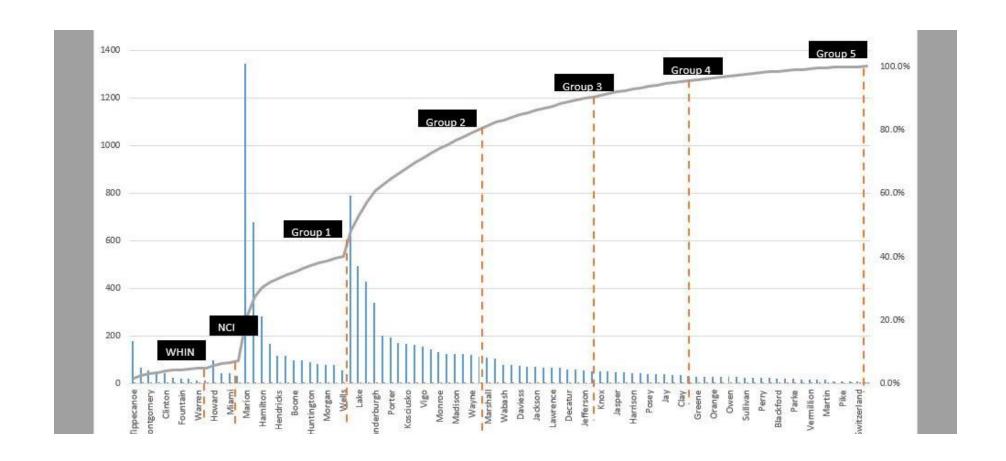




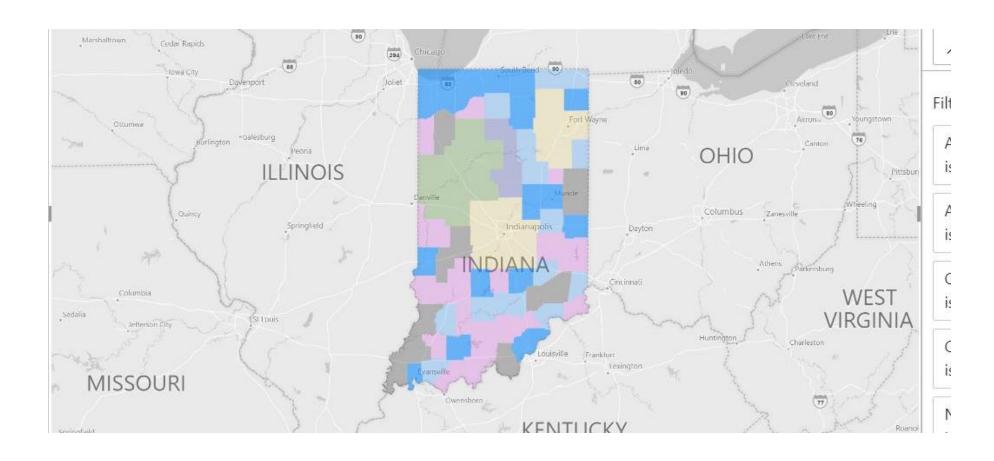
POWER B/I TIPS AND TRICKS

June 23,2022



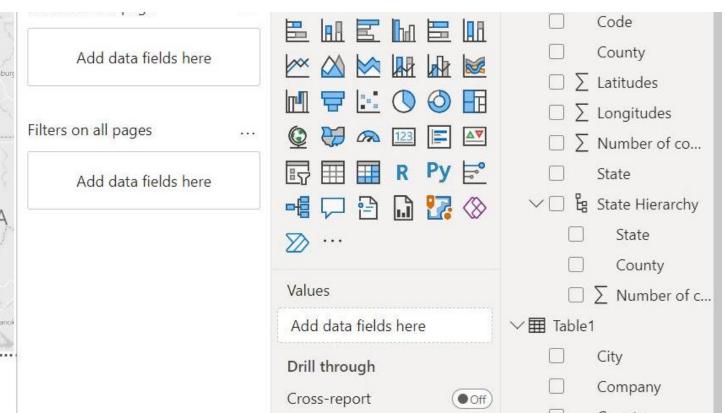


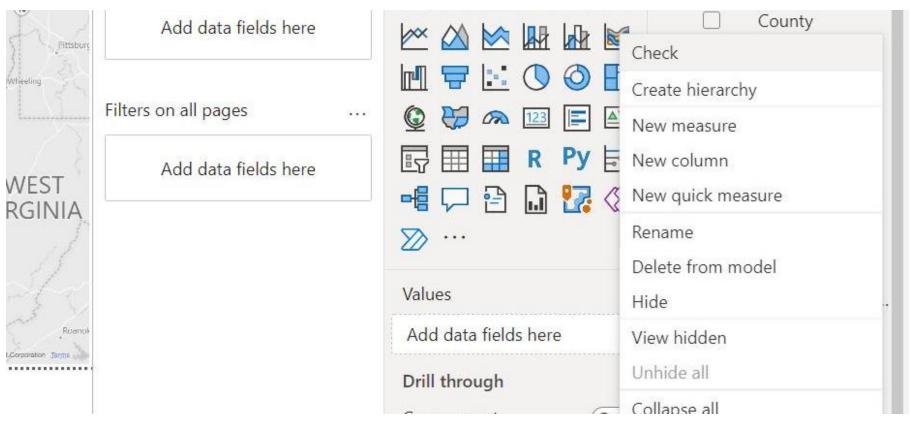
Starting point



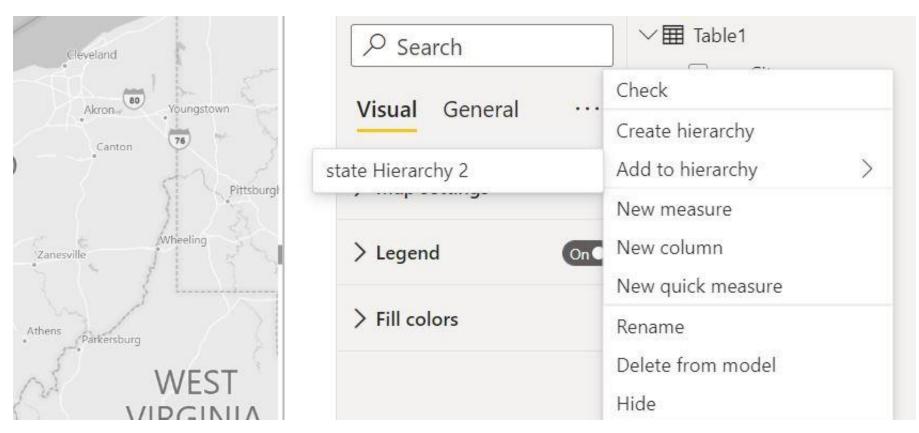
STATE MAP BY COUNTY



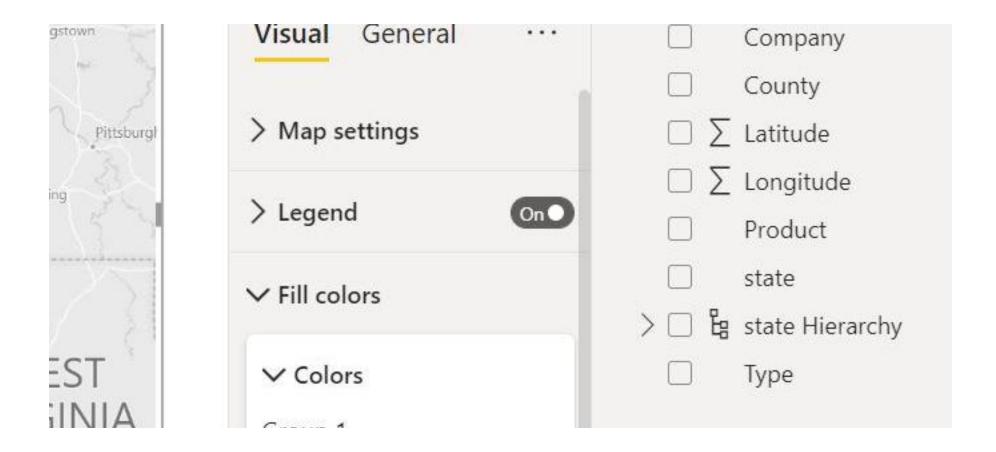




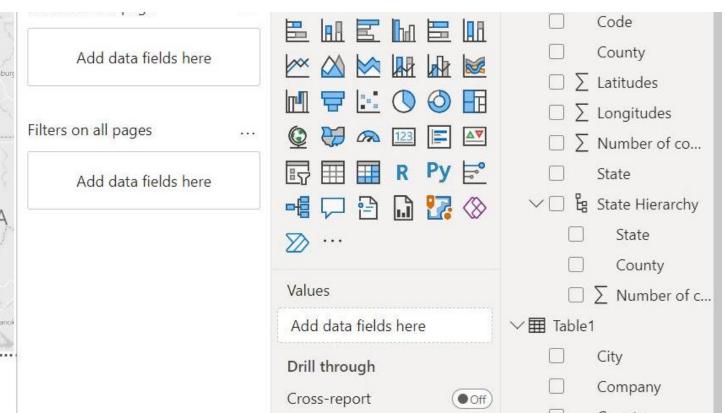
CREATION OF HIERARCHY RELATIONSHIPS
STEP ONE - CREATIONS OF CORE

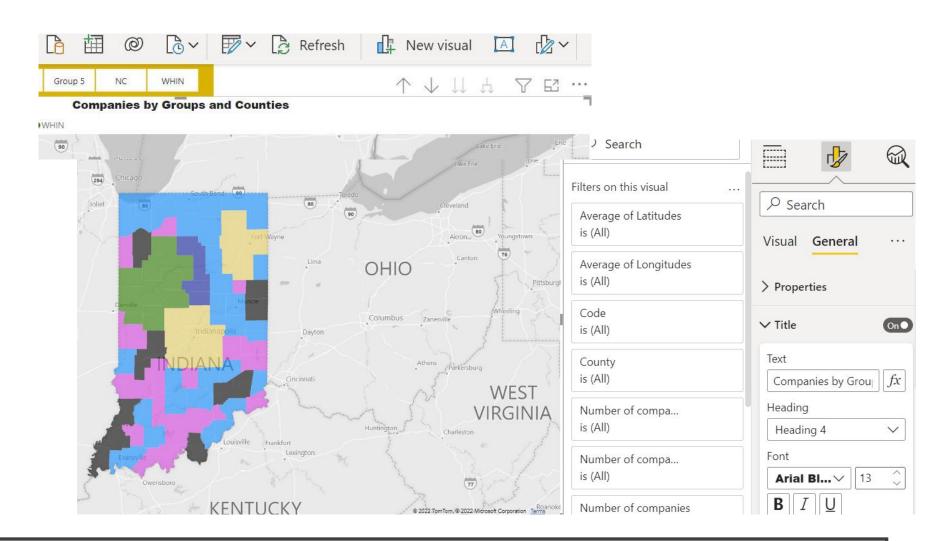


CREATION OF HIERARCHY RELATIONSHIPS
STEP TWO — ADDING LAYERS

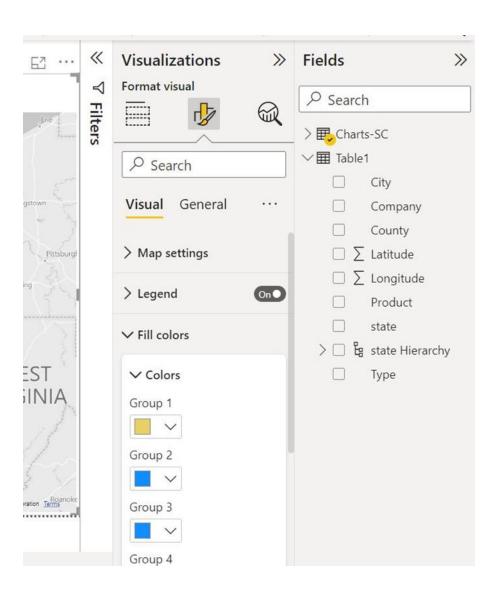




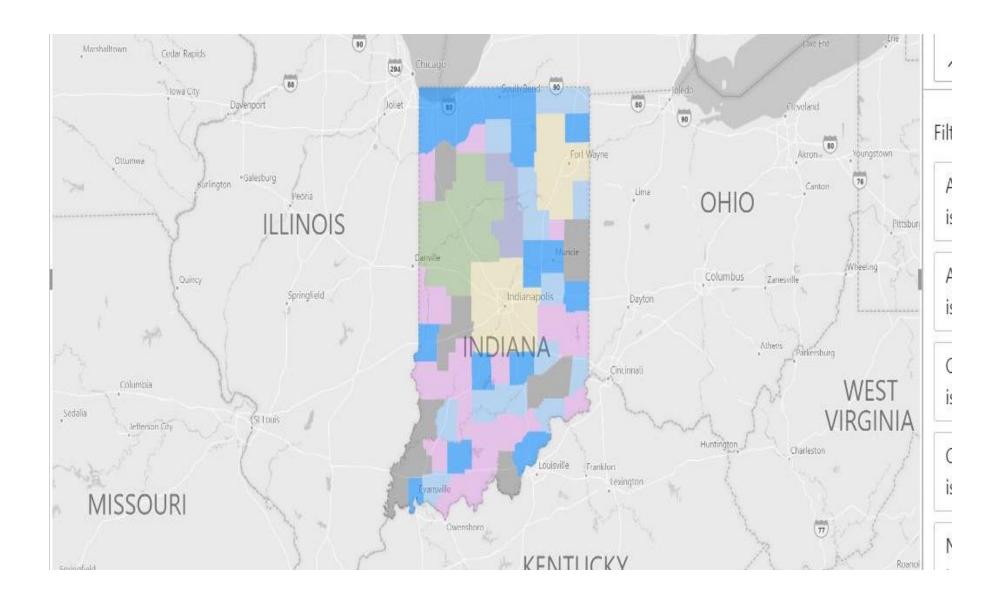




ADDING TITLES



Adding / changing colors



Thank You dunlops@purdue.edu

Wrap Up

Open Discussion

Volunteers for Presenting at next meeting

■ Next Meeting — Tentative September 22 at 3:00-4:30

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