



SLDS Best Practices Pre-Conference Data Visualization Workshop

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WiFi : **@Hyatt-Meeting**
Password: **2018SLDSBP**

Session Overview and Introductions



Session Overview

- Introductions
- Data Visualization Overview
- Sharing and Feedback Activity
 - Whole Group
 - Breakout by Visualization tool used (i.e. Tableau, Power BI, etc.)
- Debrief and Discussion
- Next Steps and Wrap Up



Introductions

Please briefly introduce yourself. Tell the group your:

- Name
- State/territory and organization



Data Visualization Overview



What is Data Visualization?

Data visualization is the visual representation and presentation of data to enhance understanding. When stakeholders see data presented visually, they are better able to grasp difficult concepts, identify new patterns, or more efficiently take away key messages.

(DaSy Data Visualization Toolkit)



Food for Thought

“Being able to visualize data and tell stories with it is key to turning it into information that can be used to drive better decision making.”

(Cole Nussbaumer Knaflic)

Discussion: Could you tell a data story without data visualization?



Core Principles



Core Principles

- Keep it simple and clean (ex. [1](#) [2](#) [3](#))
- Make comparisons easy for the viewer (ex. [1](#) [2](#) [3](#))
- Emphasize key information (ex. [1](#))
- Present data accurately, consistently, and objectively (ex. [1](#))
- Keep your audience in mind (ex. [1](#) [2](#) [3](#))
- Ensure 508 compliance and accessibility (ex. [1](#) [2](#) [3](#))



Data Visualization

Sharing Activity



State Examples

- Currently on <https://slds.grads360.org/#communities/slds-best-practices-conference/workgroups/2018-best-practices-conference/workspace?folderId=1509>



Keep it Simple and Clean

(WA – Andrew Weller)

WA State Data Visualizations:

- <https://erdc.wa.gov/data-dashboards>



Easy Comparisons

(VA - Yetty Shobo)

- The visualization was done for different professions. The goal is to have a cheat sheet that different professions can use for advocating for workforce planning.
 - <https://slds.grads360.org/api/ApplicationMedia/GetDownload/68064?dataView=WorkspaceList&communityId=389>



Easy Comparisons

(ND - Ross Roemmich)

- <https://slds.grads360.org/api/ApplicationMedia/GetDownload/68073?dataView=WorkspaceList&communityId=389>



Emphasize Key Information

(WY - Geir Solvang)

- Wyoming Community Commission Visualizations
<https://communitycolleges.wy.edu/data-hub.aspx>



Present Data Accurately, Consistently and Objectively

(HI - Dulce Belen)

- Hawaii LDS On Track example
 - <https://slds.grads360.org/api/ApplicationMedia/GetDownload/68079?dataView=WorkspaceList&communityId=389>



Present Data Accurately, Consistently and Objectively

(UT)

- UT Data Visualization Example

<https://slds.grads360.org/api/ApplicationMedia/GetDownload/68134?dataView=WorkspaceList&communityId=389>



Present Data Accurately, Consistently and Objectively

(MT - Daniel Bruce)

- Montana Data Visualization Example
 - <https://slds.grads360.org/api/ApplicationMedia/GetDownload/68166?dataView=WorkspaceList&communityId=389>



Keep your Audience in Mind

(MI - Michael McGroarty)

- Michigan Data Visualization Example
 - <https://slds.grads360.org/api/ApplicationMedia/GetDownload/68135?dataView=WorkspaceList&communityId=389>



508 Compliance

(MA - Sarah Carleton)

- MA Resource Reallocation and District Action Reports samples
<https://slds.grads360.org/api/ApplicationMedia/GetDownload/68320?dataView=WorkspaceList&communityId=389>



Break (10-15 minutes)

When you return from break we will be breaking out into “Visualization Tool specific groups”



Small Group Sharing (1)

- What strategies did you use to keep it simple and clean? (ex. [1](#) [2](#) [3](#))
- How do you make comparisons easy for the viewer? (ex. [1](#) [2](#) [3](#))
- What key information do you emphasize?(ex. [1](#))
- Is there a way you make sure data is presented accurately, consistently, and objectively? (ex. [1](#))
- Where is your audience involved in this process? (ex. [1](#) [2](#) [3](#))
- 508 compliance and accessibility, strategies and support (ex. [1](#) [2](#) [3](#))



Small Group Sharing (2)

- What tools are others using, and what are their experiences?
- How has data security been implemented? Was there any specific focus on disclosure avoidance? (small cell size redaction)
- How do you determine how to display the data?
- How does your agency review reports prior to publishing?
- Do you have any cost effective approaches you can share?



Small Group Sharing (3)

- What stakeholder engagement processes are in place?
How to increase buy-in?
- Who does your development work, in house, 3rd party?
Any issues managing 3rd parties?
- Website/visualizations site setup and organization strategies
- How do you set priorities for visualization activities?



Next Steps and Wrap Up



Next Steps

- Capture the concrete next steps you will take once back at work to act upon the feedback you've received and ideas from the session.
- Discuss at your table ideas for future SST technical assistance regarding data visualization. Identify one idea to share with the group.



Relevant Resources

- SLDS Webinar: *Data Use Through Visualization and Storytelling, June 2012*
[https://nces.ed.gov/programs/slds/ppt/Data Use Through Visualization and Storytelling.pptx](https://nces.ed.gov/programs/slds/ppt/Data%20Use%20Through%20Visualization%20and%20Storytelling.pptx)
- Data Visualization Toolkit: Tools & Tips for Presenting Data Effectively <http://dasycenter.org/data-visualization-toolkit/>
- Forum Guide to Data Visualization: A Resource for Education Agencies <https://nces.ed.gov/pubs2017/NFES2017016.pdf>



Contacts and Additional Resources

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For more info about the SST and to request support:

- SLDS GRADS360° website: <http://slds.grads360.org>

