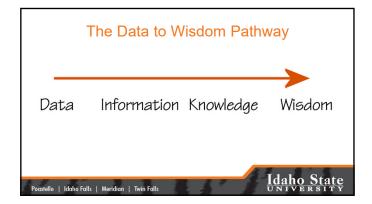
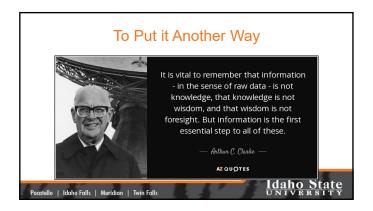
Delivering Actionable Information Keith T. Weber, GISP ISU GIS Director GIS Training and Research Center Pocatello Idaho Falls Meridian Twin Falls	
THE NEED FOR ACTIONABLE INFORMATION Potatello Idaho Falls Meridian Twin Falls UNIVERSITY	
End-users, Customers, Stakeholders, Clients and Decision-Makers AKA- Our Consumer GIS is a fantastic decision-support tool We support our Consumer Yet, our consumer is often Drowning in DataThirsting for Information	

Semantics Consumer Data and Information Is it the same thing? Idaho State UNIVERSITY

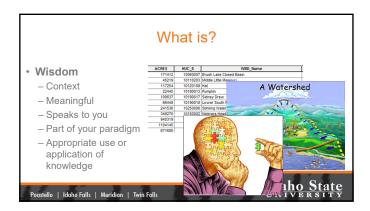




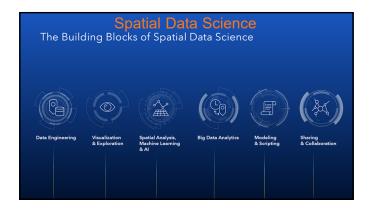












Processing Data Does Not Create Information



- Visualization, spatial analysis, etc. creates more data
- These data tend to be more refined
- But the output is still data!

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It's about Communication

- How do we communicate with geospatial data?
 First, we need data
 Ideally from reliable and/or authoritative sources what does this mean?
 Visualization using standardized as a second second

 - Regardless of how you feel about it cartographically
 - Consider generalization or reclassification
 - Principles of cartography
 - High, medium, or low instead of 0-10000
 - Using meaningful values and words

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It's about Communication (cont'd)

- · Use meaningful units
 - Acres instead of the number of pixels
 - Miles instead of meters
 - "Sagebrush-steppe" instead of code 4622

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An Example

- Q: How much of the 2015 Widget fire was considered a high severity burn?
 - A: 1,968 pixels
 - A: 1,771,200 m² (1,968 30x30 m (900 m²) pixels)
 - A: 437.673052 acres (be cognizant of significant digits)
 - A: 437 acres



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Is all Information Actionable?

- · What's the difference?
 - Some information may be trivial or tangential
 - You understand it, but it provides little/nothing toward helping to make a decision
 - Actionable information is pertinent and applicable
 - It is information that helps make a decision
 - Information that can be acted upon

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How are Decision Made?

- While we (GIS'ers) are not the decision maker
- Our actionable information should support wise, well-informed decisions

OODA

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Observe, Orient, Decide, and Act
2016 0 30 17:06:23
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How Are *Really* Decisions Made?

- Does actionable information really drive a well-informed decision process?
- Unfortunately NO (not normally)

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The 4-Ps

- Power
- Profit
- Politics
- Pride
- BUT, we still need to do our part as scientists

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Actionable Information Checklist

- Step 1: Identify and understand the consumer.
- Step 2: Understand the question!
- Step 3: Leverage your strengths
- Step 4: Get to know the data
- Step 5: Make a great map!
- Step 6: Automate
- Step 7: Engage in a Team of Teams approach

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Understand the Consumer

- In some cases, the consumer may be John Q. Public
- In other cases, the consumer is a more specific end-user
- In still other cases, the consumer is all the above
- To make this easy for our learning process, we will identify a specific end-user/consumer

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Our Project Scenario The Widget Wildfire Problem: Identify post-fire risks Consumer: Land managers/emergency managers at the local, state, and federal levels



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Another Step in the Checklist When you have finished spatial analysis and are ready to deliver results... Ask yourself: How can I explain this, so the results can immediately support sound decisions? How can I best communicate my results? How can I help turn these data into actionable information? Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are: Arcent study- has found that the top skills in highest demand for GIS candidates are:

Applied Actionable Information • Engage in a team of teams approach TEAM- This is actually quite critical TEAMS McCHRYSTAL Pocatello | Idaho Falls | Meridian | Twin Falls Hands-on exercise TRANSFORMING DATA INTO INFORMATION Pocatello | Idaho Falls | Meridian | Twin Falls **Professional Hints and Tips** Calendars - Accept or decline invitations This is professional etiquette and acts as an RSVP for meeting organizers (i.e., they do not need to follow up) • Be on time for all meetings - Better yet, be a few minutes early

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Questions/Discussion?	
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