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# **Activity Guide: Rapid Research - Data Innovations**



### **Project Overview: Data Innovations**

In this small project, you will quickly research a computing innovation of your choice and present a "one-pager" about it. The computing innovation should be one that produces, uses, consumes or is "driven" by data in some way.

### The One-Pager

In the professional world it is common to ask someone to do a bit of online research then prepare a one-page summary or "one-pager" to show the rest of the team or colleagues about the highlights of what you found. For this project you will prepare a one-pager that explains how some technological innovation uses data.

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### **General Process & Requirements**

- Review the One-Pager Template and the **Rubric** below.
- Choose your innovation using the guide below to help.
- Conduct your research by following the **Research Guide** below.
- Complete the one-pager.

### **Choosing Your Innovation**

You should choose an innovation related to big data that you find personally relevant or interesting. For the purposes of this project, you may need to use a broad definition of an "innovation," and it doesn't necessarily mean that it has to be a new invention. In particular, we're looking for an innovation that uses data.

### **Brainstorming:**

Start by simply going to your favorite search engine and entering the name of a thing you are interested in, followed by the word "data" or "big data." For example: "soccer big data," "shopping big data," "music big data." It might take some poking around, but you will find a few interesting things.

Make sure you can easily find at least one or two reputable resources for your innovation and how it uses data.

### Other Ideas:

- Smart grids, smart buildings, smart homes
- The data behind your favorite app
- Online shopping trends/recommendations
- Crowdsourcing
  - Crowd source inventions and funding (Kickstarter, Quirky, GoFundMe)
  - o reCAPTCHA
  - o GWAPs Games With A Purpose
- Assistive technologies aiding human vision, hearing, movement, etc.
- Machine learning
- Sports analytics
- Any kind of science: physics, biology, chemistry, astronomy, etc.

# C O E

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	online. You'll want to find <b>recently published documents</b> erly technical documents but keep an eye out for familiar				
<ul> <li>was designed to do.</li> <li>Function: how the innovation actually accomplist consumes, produces, or transforms data. This is</li> <li>Beneficial Effect: try to find a group that has be the innovation on them in terms of society, econd</li> </ul>	nefitted from the innovation. Describe the specific impact of omy, or culture.				
Use the tables below to keep track of your information; you can use more. (	ou can also add more if you like. <mark>You'll need to include at</mark> MLA format at the end of One Pager)				
My Innovation:					
Reference Name:	URL:				
Year Published:					
Key Information	Key Information				
Reference Name:	URL:				
Year Published:					
Key Information					
Reference Name: Year Published:	URL:				
Key Information					



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## One-Pager Rubric

Component	1	2	3	Score			
	Sources & Visual						
Sources	Research Guide includes references to fewer than three sources and the sources listed are not recent and authoritative.	Research Guide includes references to fewer than three sources or the sources are not recent and authoritative.	Research Guide includes references to at least three recent, authoritative sources.				
Visual	Visual does not substantially contribute to expanding the understanding of the innovation provided in the written responses.	Visual may be appropriate but largely repeats information in the written responses, or is only loosely related to the innovation.	Visual is well chosen and enhances or augments the information in the written responses.				
Written Responses							
Purpose	The description does not provide a clear explanation of the purpose. It's possible that this response clearly explains the "function" of the innovation but not the goal or objective that led to its creation.	The description explains what the innovation does, but not the purpose - it's missing the "why" or doesn't directly state why the innovation was created.	The purpose description includes rich details. The specific need or goal that led to the creation of the innovation is noted.				
Function	A brief description of the data used by this innovation is given but only includes superficial detail or generic descriptions.	A description of the data used by this innovation is given but lacks sufficient detail to give a clear picture of exactly how the innovation uses data or what is innovative about it.	A clear description is given of what kind of data the innovation uses, how it's collected, and by whom. It also explains how the innovation uses, produces, or consumes this data.				
Beneficial Effect	Response does not identify a group affected nor an economic or cultural impact. Or the response is overly vague like "it affects society because"	Describes the group affected OR the economic or cultural impact but not both. Or the response is vague about the group, or impact.	Response clearly identifies BOTH a group affected by the innovation AND an economic or cultural impact.				