Data Story-Telling Framework I (Assignment I)

Identify a project you are working on where you need to communicate in a data-driven way.

Reflect upon and fill out the following.

PROJECT: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Environment (Water pollution )\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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* Mayor/Head of Local Government Council
* Implement stricter environmental policies and regulations.
* Enforce clear guidelines for industrial activities.
* Establish monitoring systems for industry compliance.
* Conduct regular inspections and impose penalties for non-compliance.

- They are concerned about the quality of the water in the water bodies which could potentially affect their health.

- Public Health and Environmental

Conversation

- Sustainable water management

- Environment activists

- Government

- Community members living near the water bodies

- Water resource management agencies

* The Head of the Local Government Council
* An appropriate government agency's director of environmental policy

WHO IS YOUR **AUDIENCE**?

(1) List the primary groups or individuals to whom you’ll be communicating.

(3) What does your audience care about?

(4) What action does your audience need to take?

(2) If you had to narrow that to a *single person*,

who would that be?

WHAT IS **AT STAKE**?

What are the *benefits* if your audience acts in the way that you want them to?

- Improved Health and Well-being

- Preservation of Ecosystem

- Sustainable Development

- Positive Public Image

- Long-term sustainability of water resources

What are the *risks* if they do not?

- Health Hazards for communities dependent on polluted water

- Ecosystem Collapse

- Legal Consequences

- Negative Impact on Economy

- Escalation of water scarcity and environmental degradation

- Dehydration of ecosystems

Descriptive Analysis in Water Pollution Project:

Examining Past Data

- Reviewing water quality data.

- Analyzing industrial discharge records.

- Investigating historical changes in the river ecosystem.

Identifying Patterns and Trends

- Focusing on understanding past events.

- Recognizing patterns in water quality fluctuations.

- Uncovering trends in industrial activities impacting water quality.

What is your analysis type?

Would it be:

1. descriptive
2. diagnostic
3. predictive
4. prescriptive

Prescriptive Analysis in Water Pollution Project:

Proposing Future Actions

Formulating recommendations for policy changes.

Prescribing specific resource allocations for monitoring and remediation.

Advocating for community engagement strategies to promote sustainable water practices.

Guiding Decision-Makers

Providing a roadmap for policymakers to address water pollution effectively.

Offering actionable strategies for water resource managers.

Suggesting proactive measures for community leaders to promote responsible water usage.

Focusing on Desired Outcomes

Directing efforts towards a reduction in water pollution.

Envisioning improved water quality and healthier ecosystems.

Striving for sustainable water management practices for long-term environmental conservation.

What is your analysis type?

Would it be:

1. descriptive
2. diagnostic
3. predictive
4. prescriptive

- **Urgent Enforcement:**

  - Swift implementation of stricter environmental regulations.

  - Immediate adoption of sustainable practices.

- **Water Quality Protection:**

  - Essential measures to protect the water quality of the local river.

  - Prioritizing the well-being of the community.

- **Preservation of Ecosystem:**

  - Vital for the preservation of the fragile ecosystem.

  - Mitigating risks to the vulnerable environment at stake.

FORM YOUR **IDEA**

It should:

1. articulate your point of view,
2. convey what’s at stake, and
3. be a complete (and single!) sentence.

* Use maps to visually represent the geographic distribution of water pollution sources.
* To show changes in water quality over time, use graphs and charts.
* Use success stories or case studies to demonstrate the effects of well-thought-out policies and initiatives.
* Water Quality Data
* Pollution Source Data
* Geographic Data

Sketch the layout (Optional)

1. What data is needed?
2. How do you align the data with the layout?

**Introduction**:

- Emphasize local river's significance.

- Stress importance of addressing water pollution for community and environment.

**Data Analysis**:

- Highlight trends in water quality data.

- Emphasize alarming changes and implications.

- Connect industrial discharge records to water quality variations.

**Impact Assessment:**

- Describe potential consequences of water pollution on ecosystem.

- Illustrate economic implications for local industries and livelihoods.

**Recommendations:**

- Advocate urgent implementation of stricter environmental policies.

- Suggest adoption of advanced pollution control technologies.

**Conclusion:**

- Summarize key data findings.

- Emphasize need for collective action.

- Call for community participation in clean-up and advocacy for a sustainable environment.

Pencil in the narrative

1. How do you want to tell

the story? (the script)

**Examples of Projects:**

1. Communicating Singapore covid cases.
2. Educating the public about how the covid is spread.

Etc…

Presentation for Assignment 1: <https://www.canva.com/design/DAFz61NJIZM/7V2b54bRW2RAzM60MnRQvg/edit?utm_content=DAFz61NJIZM&utm_campaign=designshare&utm_medium=link2&utm_source=sharebutton>