

**IS590 PR: Programming Analytics and Processing Data**  
**Final project topic: Analysis of Global Health Care Conditions – 2016**

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**INTRODUCTION**

Hundreds of millions of people face an increased risk of infection by seeking care in health care facilities that lack basic necessities, including water, sanitation, hygiene, waste management and cleaning services. Not only does the lack of these services in health care facilities compromise patient safety and dignity, it also has the potential to exacerbate the speed of antimicrobial-resistant infections and undermines efforts to improve child and maternal health.

The World Health Organization (WHO) and the United Nations Children’s Fund (UNICEF), through the WHO-UNICEF Joint Monitoring Program (JMP) have produced annual updates on Water Supply, Sanitation and Hygiene since 1990. Together they are responsible for monitoring the 2030 Sustainable Development Goal (SDG).

This data analysis provides a robust basis for identifying priorities, making investments, and tracking progress on the global health care conditions.

**AIM**

The objective of this project is to analyze the global health care conditions for developed and developing countries from the year 2016. The analysis is that is conducted will be visually represented using plots and charts.

**METHOD**

- In this project, in order to classify the 75 countries from the WHO-UNICEF dataset into the developed and developing countries, a dataset from World Bank had to be merged with it.
- The primary objective is to analyse if the economy of a country plays a vital role is in providing and maintaining the required hygienic quality.
- The developed countries are categorized on:

ECONOMIC CLASSIFICATION	THERSHOLD	GNI/ CURRENT (US\$)
Developing country	Lower income	< 1,005
	Lower – middle income	(1,006 – 3,995)
Developed country	Upper – middle income	(3956 – 12,235)
	High income	> 12,235

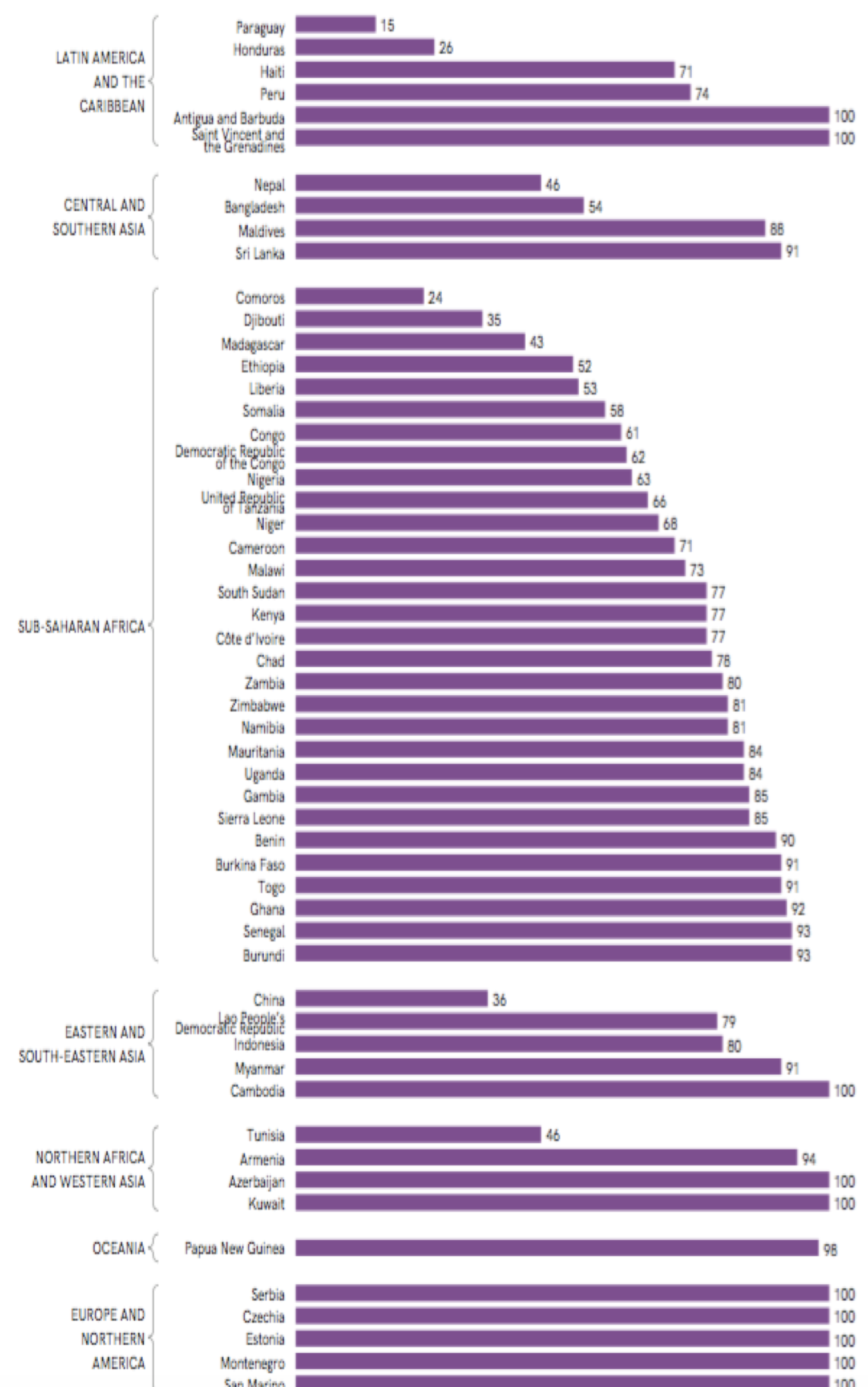
**CONCLUSIONS AND RESULT**

- From the analysis conducted so far, only 10 out of the 75 countries have been able to maintain 100% hygienic health conditions throughout the year 2016.
- The countries falling in the developed country category are economically capable to provide all the necessity health care services of its citizens.
- The economy of a country does play a very vital role in allotting the required monetary funds for maintaining the health care conditions of its country.

**FUTURE ANALYSIS AND SCOPE**

- The final stage will include the analysis of global health care condition with respect of water and hygiene qualities based on the economic classification.
- Analyse the reasons for the lack of maintaining health care quality in the developed countries.

Estimates of hand hygiene facilities at points of care were available for 55 countries in 2016



# Template for a 48”x36” poster

## INTRODUCTION

This editable template is in the most common poster size (48” x 36”) and orientation (horizontal); check with the conference organizers for specific conference requirements regarding exact poster dimensions.

**Writing Style:**  
The writing style for scientific posters should match the guidelines for your particular research discipline. Use the campus [Writing Style Guide](#) for general guidance with academic titles, names of campus buildings, the correct way to refer to the campus, etc.

**Campus Guidelines**  
Authors should be aware of and follow the guidelines of the [Institutional Review Board](#) and the [guidelines for campus copyright](#).

## AIM

**How to use this template**  
Highlight this text and replace it with new text from a Microsoft Word document or other text-editing program. The text size for body copy and headings and the typeface has been set for you. If you choose to change typefaces, use common ones such as Times, Arial, or Helvetica and keep the body text between 26 and 32 points.

The text boxes and photo boxes may be resized, eliminated, or added as necessary. The references to the department, college and university, including the logo, should remain.

Refer to the next page for logos commonly used on campus posters. You can drag and drop them to your personal PowerPoint scrapbook for use in subsequent posters; refer to PowerPoint help documents for more specific information regarding how to use the scrapbook.

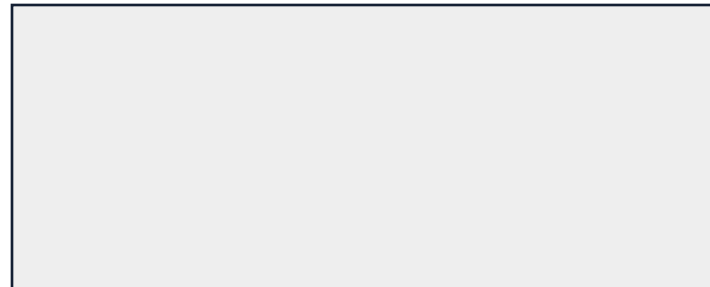
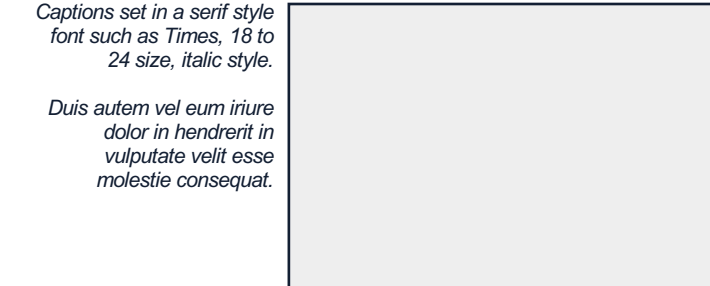
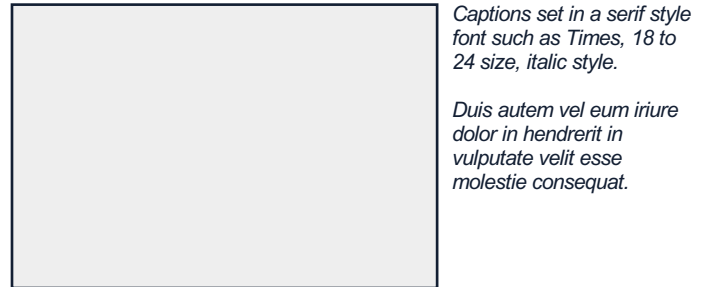
You can replace the Block I Wordmark in the lower right with your unit lockup.

## METHOD

**Text**  
Be sure to spell check all text and have trusted colleagues proofread the poster. In general, authors should:

- Use the active tense
- Simplify text by using bullet points
- Use colored graphs and charts
- Use bold to provide emphasis; avoid capitals and underlining
- Avoid long numerical tables

Authors should re-write their paper so that it is suitable for the brevity of the poster format. Respect your audience—as a general rule, less is more. Use a generous amount of white space to separate elements and avoid data overkill. Refer to Web sites or other sources to provide a more in-depth understanding of the research.



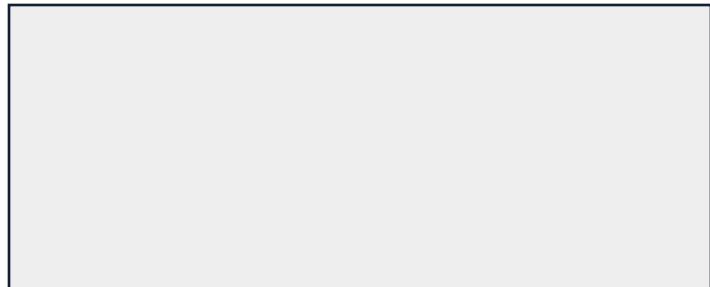
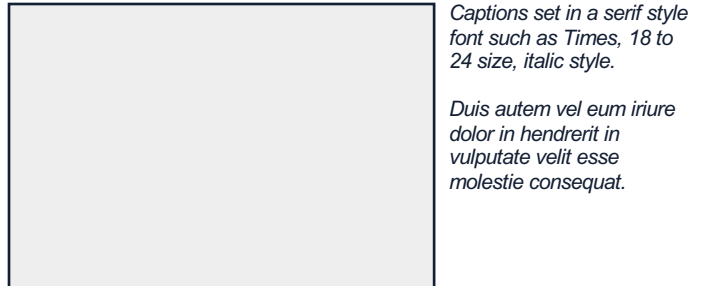
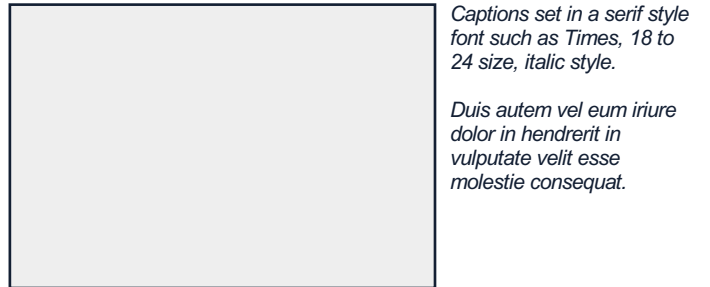
## RESULTS

**Images**  
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- Select:
- 1 Insert
  - 2 Picture
  - 3 From file
  - 4 Find and select the correct file on your computer
  - 5 Press OK

Be aware of the image size you are importing.



## PRINTING

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Plan ahead; allow three business days to complete the order. Other dimensions are available; the charge is by square foot.

## CONCLUSIONS

We have created this template with scientific researchers in mind and with the help of feedback we have received. We encourage any comments or suggestions so that we can continue to update and improve this template. To make a suggestion contact:

[creativeservices@illinois.edu](mailto:creativeservices@illinois.edu)

## ACKNOWLEDGEMENTS

Check to make sure you’ve acknowledged partner and funding agencies, either with text or with their logos.



Commonly used logos

