



QED Center for Global Data Visualization

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Twenty Years of Turning Data into Big Ideas



TOC

- I. Background on QED
- II. The importance of data visualization in public health and development
- III. Why we are building a Center for Global Data Visualization
- IV. Opportunities for involvement
- V. Next Steps and Questions

01

Background on QED Group

For 20 years, QED has worked around the world with our clients and partners often in challenging, dynamic and transitional environments.

96
COUNTRIES

\$3.5B
IN PROGRAMS
EVALUATED

23
CLIENTS

250
TRAINING
PROGRAMS

750
PROGRAM
EVALUATIONS



Our History



- 20 years of leadership influencing United States Government policy in the areas of Monitoring, Evaluation and Learning
- Proven leader in developing & implementing innovative, technology-based solutions that includes QED proprietary applications.
- Skilled ability in combining the hard skills of data science with the soft skills of culture and behavioral science that builds capacity at the local level taking a holistic systems-based approach.
- Designed and implemented global training programs in monitoring, evaluation, learning and adaptive management.
- 'End to End' services including informatics, data access, analysis, monitoring, evaluation, learning and adaptive management.

QED Solutions help Missions and donor organizations answer key questions

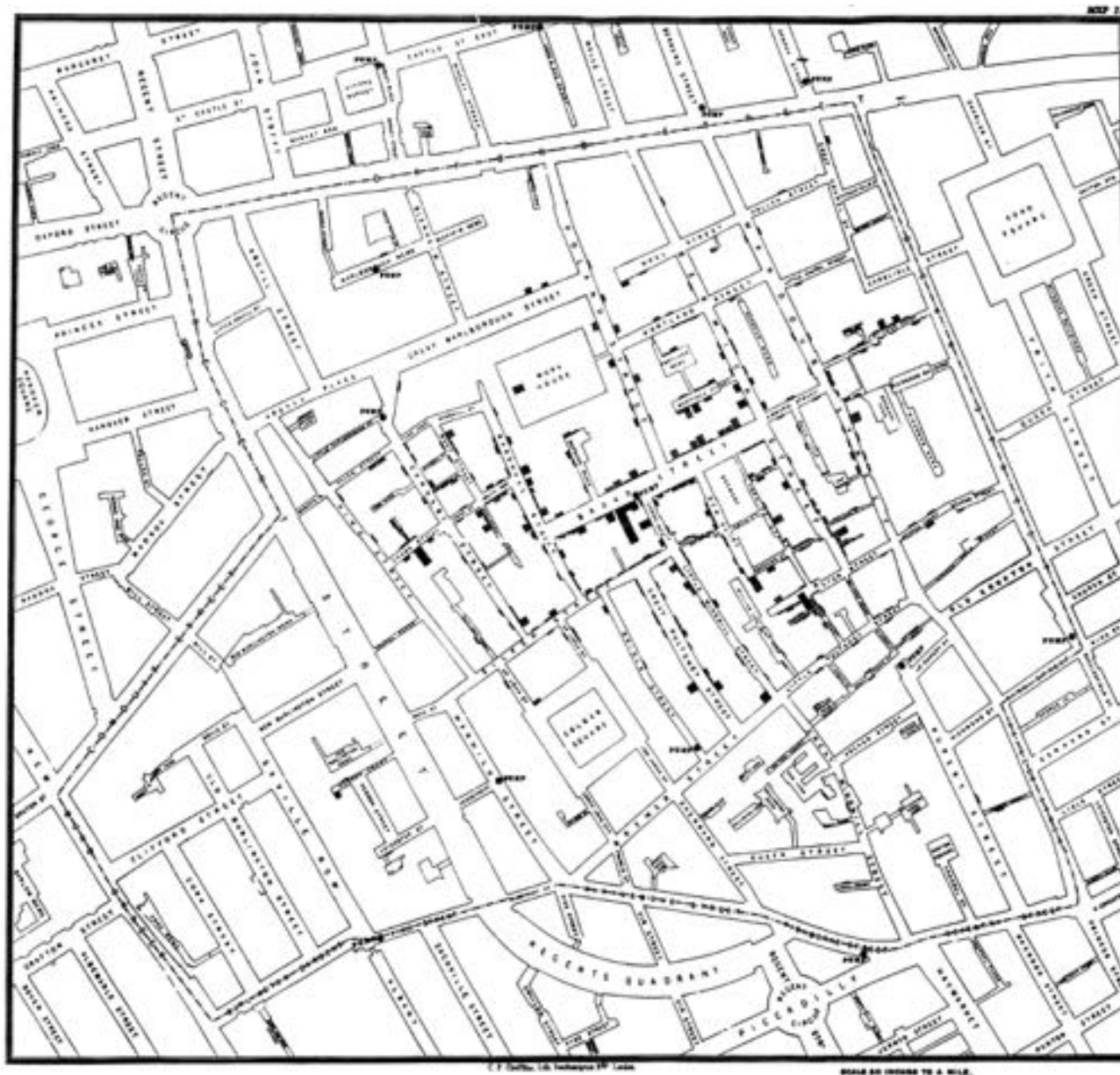


02

Importance of Data Visualization in Public Health and Development



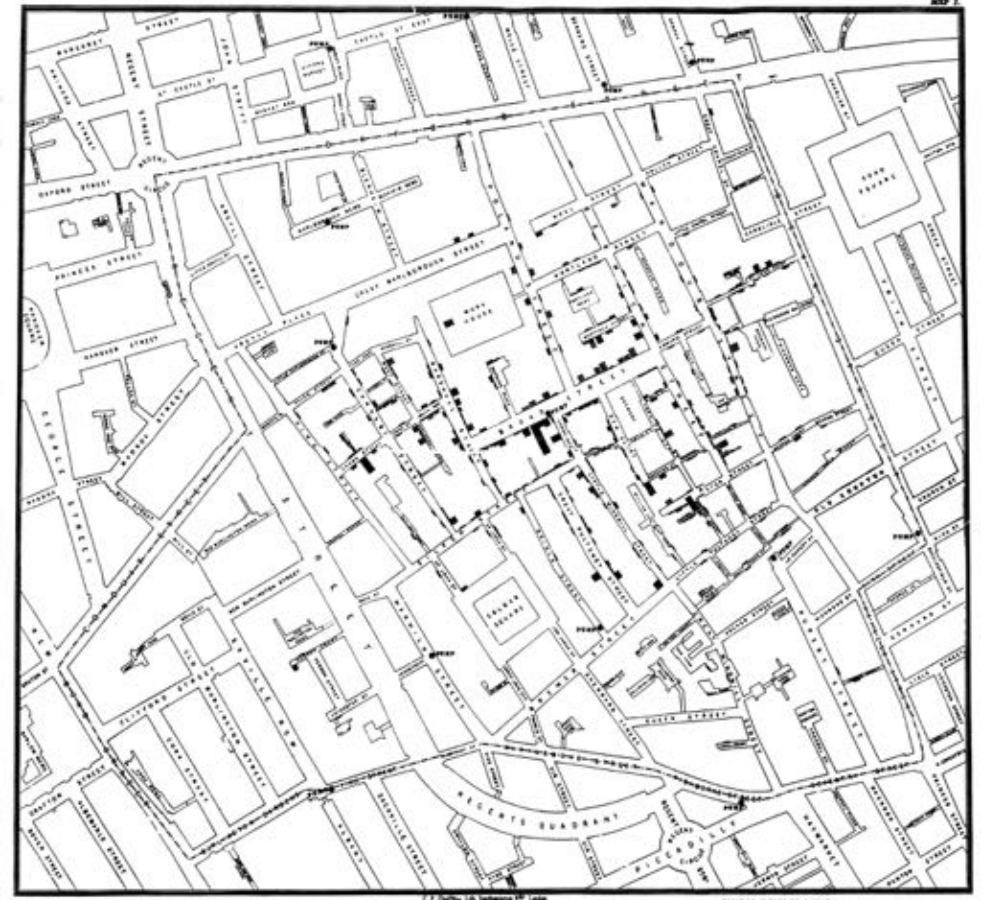
Data Visualization in the 1800s





Data Visualization in the 1800s

- Cholera is a diarrheal disease caused by ingestion of food or water contaminated with bacteria
- In the early 1800s cholera killed hundreds of thousands of people, and it was unclear what caused it.
- In the 1854 a Cholera Outbreak tore through London killing 616 people.
- Doctor John Snow went door to door mapping the cholera deaths.
- Through this data mapping he was able to determine the source of the Cholera outbreak as the public water pump on Broad Street

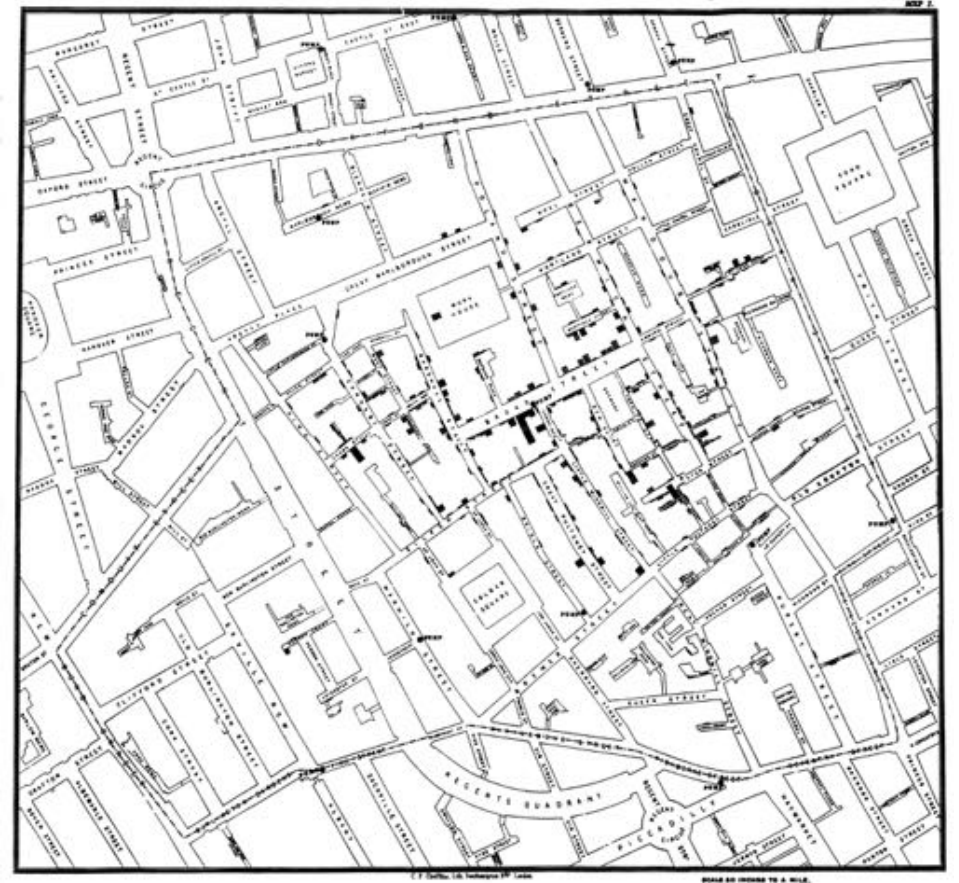


Original map by John Snow showing the clusters of cholera cases in the London epidemic of 1854, drawn and lithographed by Charles Cheffins.



Data Visualization in the 1800s

- With tools like Tableau Public it is now possible to do data visualization in ways that were not feasible even a few years ago
- With modern data visualization tools we are able to do the kind of analysis that took John Snow weeks to do in hours



03

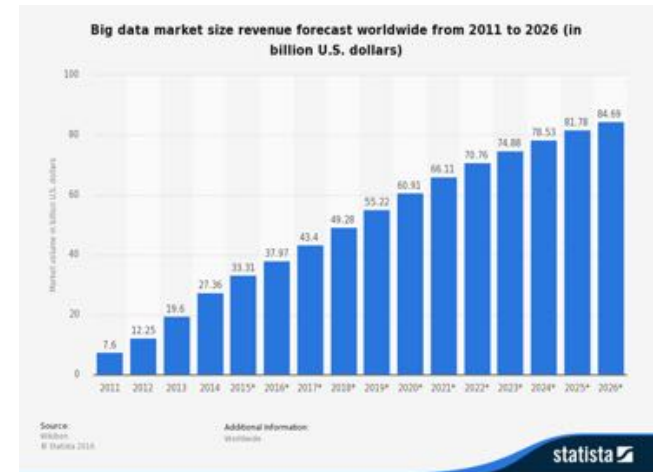
The Need for the Center and Opportunities for Involvement



A Need for Data Visualization in Development

- Exponential growth in the amount of available data in development and a lack of
- Opportunities exists to allow data visualization tools that allow for individuals to quickly create new insights in development
- 15% of Google searches have never been done before

More data was created in the last 4 years than in the previous 5,000 years combined



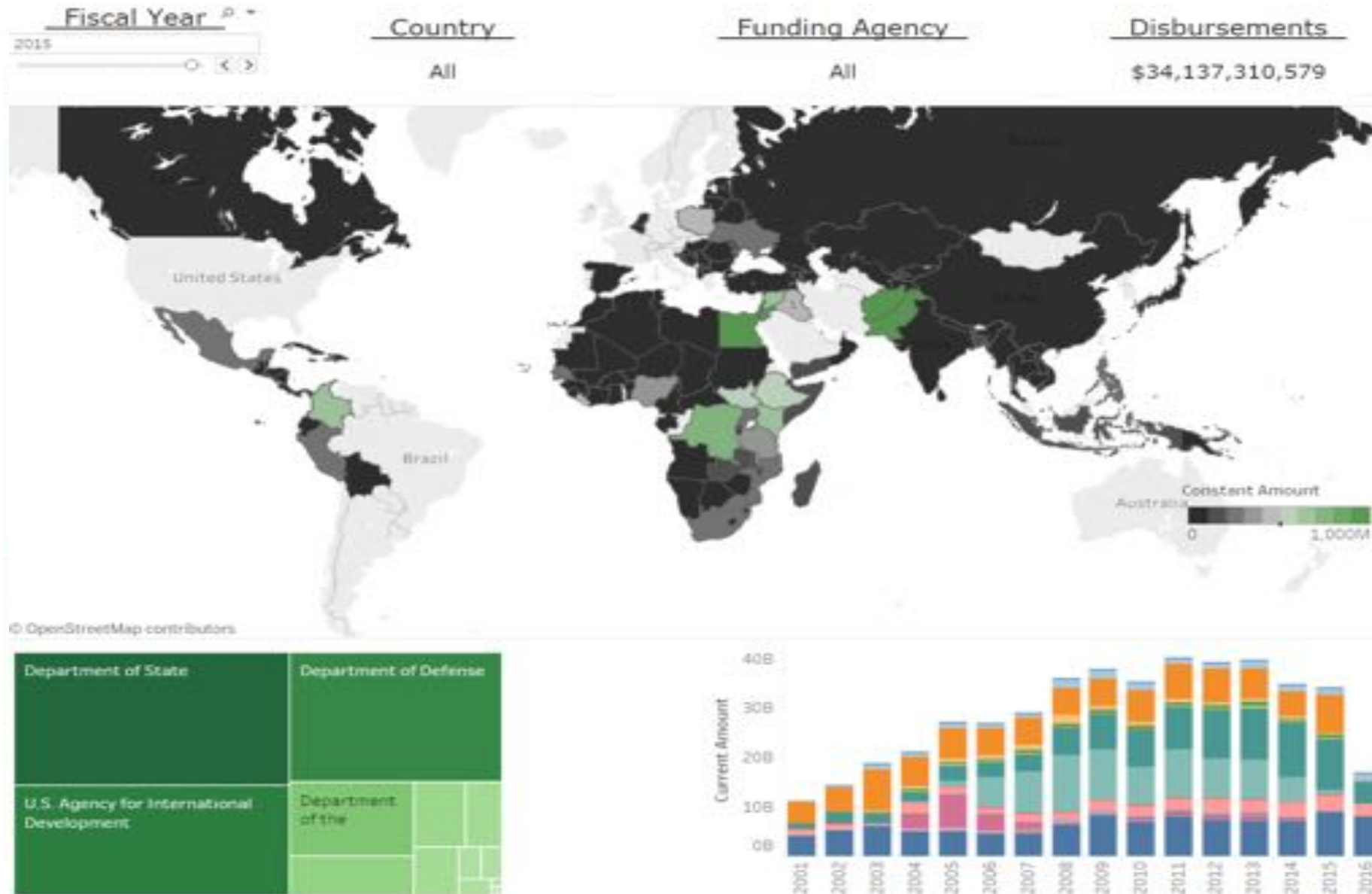


The Center for Global Data Visualization

- Our clients demand evidence based programs and interventions which are driven by data.
- There is a significant amount of data being produced but a challenge is turning the mass amounts of information into understandable takeaways.



- Interactive Maps





Viz Library

GED

Home Viz Library Videos My Visuals

Featured Viz

Emigration out of Venezuela has increased exponentially in the 21st Century

Visual 1234567

Agriculture is the largest contributor to Argentina's Economic Growth since 2002

Natural Resources contribute significantly to Latin America's Growth

Healthcare expenditure continues to rise with 2016 spending at 1.64 trillion

Citizenship in Panama is often bought by increased 100 percent cost reduction

04

Visualization Demo



QED Visualization Demo

We build interactive and animated visuals by using multiple visualization tools such as Plotly, Tableau Public, D3 and other packages in R and Python.

[PEPFAR 2016 Expenditures Sunburst Plot](#)

[PEPFAR 2016 Expenditures Sankey Diagram](#)

[Scientific Research Articles](#)

[Haiti Drinking Water](#)

05

Opportunities for Involvement and Questions



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