Importance of Effective Health Communication and the Goals, Roles, and Responsibilities of Federal Health Communication



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Overall goal: Protect and Improve Public Health

- Much of what the Federal Government does is intended to achieve this goal.
 - Infectious and Non-infectious Diseases
 - Diets
 - Drugs
 - Contaminants
 - Occupational Hazards
 - Highway Safety
 - Natural disasters
- Effective health communication is fundamental to protecting and improving public health.



Effective Health Communication Is More Than Messaging



Engaging with Stakeholders

- To choose which health issues to take on.
 - What are people concerned about?
 - What questions do they want to have answered?
 - What issues have not yet been adequately addressed?
 - What misinformation needs to be preempted or countered?





Engaging with Stakeholders

- To make better decisions / achieve consensus
 - What information/points of view do key stakeholders have that can enhance what we think we already know?
 - How will people be affected?
 - How will that differ across varying communities?
 - How will important stakeholders likely react?
 - What kind of pushback or counter messaging might be anticipated?





Engaging with Stakeholders

- To ensure our efforts are effective
 - Are they understood?
 - Do they connect with people's lived experiences?
 - Are they reaching the right people?
 - Are people amplifying our efforts?
 - Are people acting?
 - How do our efforts need to change?

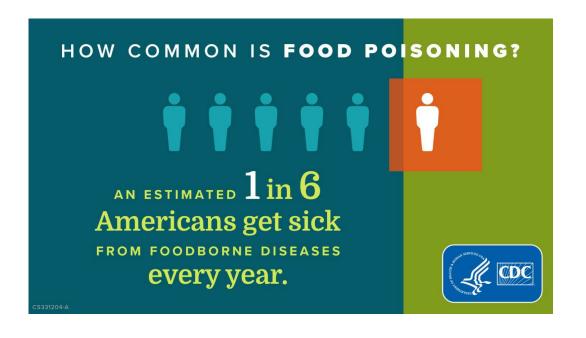




Federal Agencies Play Many Roles With Respect to Authoritative Health Information



Source





Arbiter

HEART DISEASE. SEE NUTRITION INFORMATION FOR FAT CONTENT.



Amplifier





What Roles Should Federal Agencies Play?

- Sometimes, those roles are established by:
 - Law
 - A unique position/ability to collect or analyze information
 - Public expectations
- When not established by law, when should Federal Agencies serve as the sources, arbiters, or amplifiers of authoritative information, taking into consideration:
 - Available expertise and resources
 - Perceived trust and credibility
 - The need for agility and timeliness, openness, transparency and accountability



Multiple Strategies for Using Authoritative Information to Influence Health Behaviors



Inform

Nutrition Facts 4 servings per container Serving size 1 1/2 cup (208g	
Amount per serving	240
%	Daily Value
Total Fat 4g	5%
Saturated Fat 1.5g	8%
Trans Fat 0g	
Cholesterol 5mg	2%
Sodium 430mg	19%
Total Carbohydrate 46g	17%
Dietary Fiber 7g	25%
Total Sugars 4g	
Includes 2g Added Sugars	4%
Protein 11g	
Vitamin D 2mcg	10%
Calcium 260mg	20%
Iron 6mg	35%
Potassium 240mg	6%

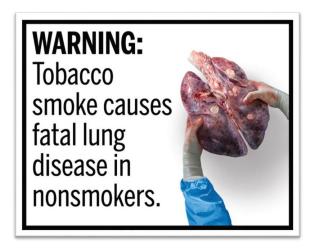


Educate



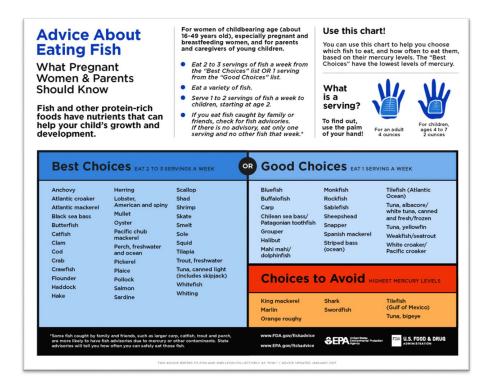


Warn



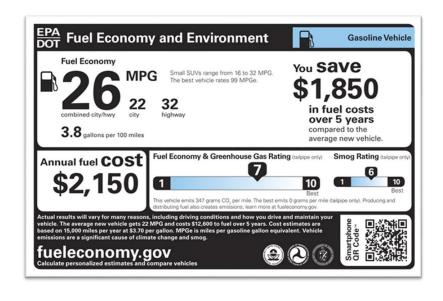


Advise



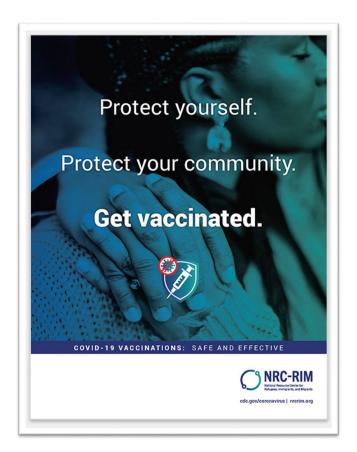


Nudge





Persuade





Incentivize





Coerce





Which do we use?

- How do we decide when to:
 - Inform
 - Educate
 - Warn
 - Advise
 - Nudge
 - Persuade
 - Incentivize
 - Coerce
- Who gets to decide?
- On what basis?



















Maintaining Trust and Credibility



Communicating to Maintain Accountability and Transparency

- How decisions were made.
 - What information was used.
 - Who was involved.
 - What options were considered.
 - What risks/benefits were balanced.
- What the agency will do/has done.
 - Why that matters.
- What happens next.





Communicating Uncertainty In a Crisis

- This is what we know <u>now</u>
 - How we know it
- This what we don't know
 - Why that matters
- This is what we are doing to become more certain
- This is what we recommend right now
- Our recommendations may change as we learn more and become more certain
- We will update you as new information becomes available





A final word

- Our failure to communicate effectively contributes to people unnecessarily getting sick, suffering, and dying.
 - We can, and must do better.



Importance of effective communication: goals, roles responsibilities

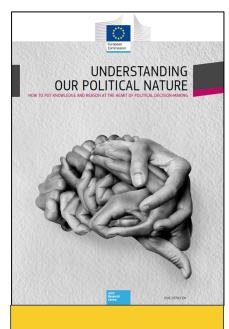
Sharing insights from Europe

Laura Smillie
European Commission DG JRC
@LSmillie76

#Enlightenment2



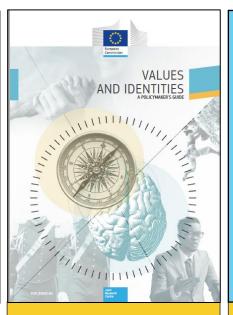
Enlightenment 2.0



2019



2020



2021



2022-2023



A project of 4 phases

1. The Science

State-of-the-art scientifc reviews





2. The Behaviour

New research: Framing with values



Understanding the front line professionals





4. The Citizens

Listening to what they think



How can researchers and policymakers better understand each other?



Discover our self-reflection tool **Smart4Policy!**



A Template for Increasing the Credibility of Government Science Communications



Credibility

- There is a substantial scientific literature on credibility & information processing.
- Credibility is the result of an assessment. It is not a "trait."

- People & organizations can gain credibility via associations.
 - Scientists: The scientific method
 - Politicians: Articulating values
- How can government agencies increase their credibility when discussing scientific findings?

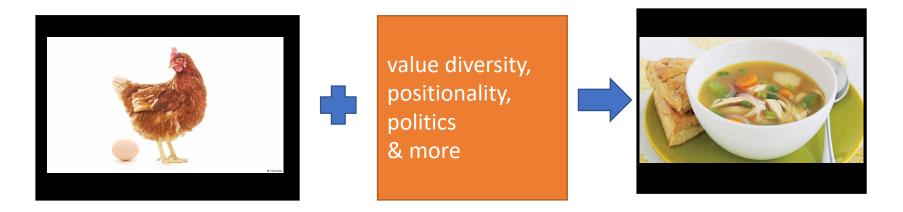
Evidence-based Policy



Evidence-based Policy



Follow the science?



A scientific finding

A behavioral/policy recommendation/claim

A Template for Increasing Credibility

- For claims about a scientific finding without policy or behavioral implications, say:
- "Study A produced Finding B."
- Example: "mRNA COVID vaccine clinical trials showed B."

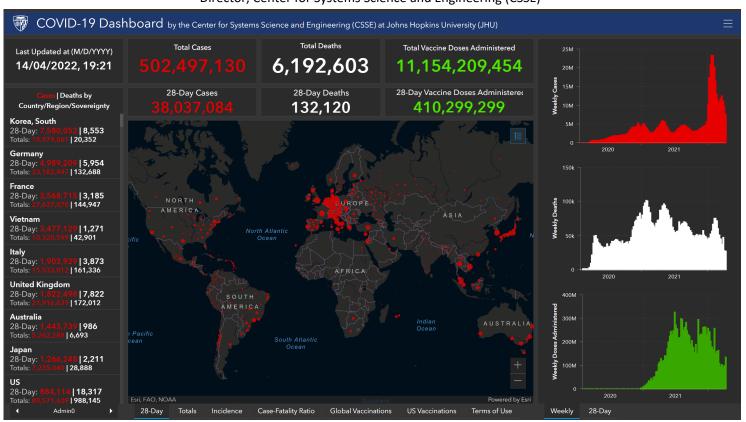
- For claims about a scientific finding that support a policy or behavioral recommendation, say :
- "[Our values are X. Research shows Y. Based on X and Y, we recommend Z.]"
- Correct: "If you want to reduce your risk of dying from COVID, take the vaccine."
- Incorrect: "Follow the science, take the vaccine."

Tracking COVID-19 in Real-time: Challenges Faced and Lessons Learned

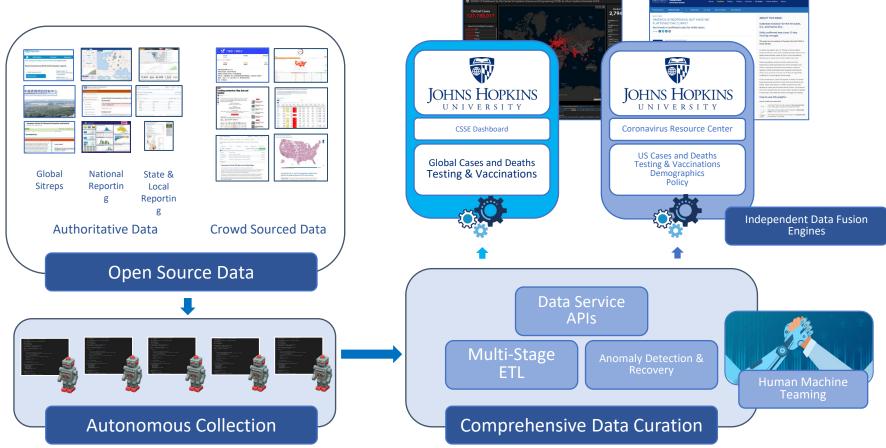
Dr. Lauren Gardner

Alton and Sandra Cleveland Professor

Department of Civil and Systems Engineering and Department of Epidemiology at Johns Hopkins University Director, Center for Systems Science and Engineering (CSSE)



JHU Open COVID-19 Data Pipeline





JHU COVID-19 Dashboard Viewership



Why this was hard (Hint: Standards Matter)

- Ambiguity in parameter definitions
 (probable vs. confirmed; reported vs onset time; diagnostic vs antibody, recoveries, etc.)
 - Our Solution: Report consistent across locations, and according to latest CDC guidelines.
- Instability and inconsistencies in reporting (retrospective reporting, data structure and mechanisms, machine readability)
 - Our solution: Anomaly detection system
- Discrepancies in reported numbers among authoritative sources (TX, UK, France)
 - Our solution: Fusion Logic
- Variability in frequency and time-of-day reporting across locations
 - Our Solution: 0400 GMT was the least bad chalk line



Open Data Principles and the need for a better system



"Moving forward, it is imperative that a **standardized reporting system** for systematically collecting, visualizing, and sharing high-quality data on emerging infectious and notifiable diseases in real**time** is established. The data should be made available at a spatial and temporal scale that is granular enough to prove useful for planning and modelling purposes. Additionally, a critical component of the proposed system is the democratization of data; all collected information (observing necessary privacy standards) should be made publicly available immediately upon release, in machine-readable formats, and based on open data standards."

Such an established system will both help us make sound and timely decisions when faced with the next potential outbreak, and can help us establish the public trust necessary to combat health related disinformation

Why we were successful

- 1. We acted early. We recognised the value of this type of data from the earliest days, which is needed to drive evidence-based policy and decision making. Our guiding principle from the start has been OPEN DATA and transparency.
- 2. Our effort existed in a very supportive environment. Funding was available internally in the earliest days (and later through philanthropic organizations), which allowed us to continue the efforts as it grew exponentially, uninterrupted. Moving forward, *There needs to be a better mechanism for science agencies and governments to financially support these types of efforts QUICKLY*.
- 3. We had the technical skill sets required to implement our work. Engineers, computer scientists and software developers should more frequently integrated into public health agencies, in order to provide high quality data.
- 4. We had the freedom to make executive decisions in real time. We were not subject to any bureaucratic approval processes. This was especially critical in the earliest days when the global situation was changing so fast. Moving forward, there is a need for better open data standards, and the infrastructure and process to be in place, to straightforwardly aggregate, centralize and democratize public health data in real time.
- 5. TRUST! JHU is a world leader in public health and medicine, and a nonpartisan institution. Our only agenda was providing the public with an accurate representation of the data and science, with no underlying agenda.

Thank You.

Me: I go to Johns Hopkins Relatives: Oh, you mean like the Med School Coronavirus Map School?

