

**The Current State of the
Global COVID-19 Crisis,
Impacts on Business and
Society, the New Normal,
and a Unique, Secure,
Web-based Contact
Tracing App**

**Prepared for
TIC Afrique
SYMPOSIUM
Conference in
Yaounde & Libreville
Cameroon,
Central Africa**



**William Favre Slater, III
Chicago, Illinois
United States of America
December 18, 2020**

Disclaimer

This presentation will be delivered in December 2020 at the request of the organizers of the TIC Afrique Symposium CAPDA Conference in Yaounde & Libreville, Cameroon.

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Mr. Slater only represents himself in his dealings with the Citizens of Cameroon and is solely responsible for his comments, content, and research.

The Current State of the Global COVID-19 Crisis, Impacts on Business and Society, the New Normal, and a Unique, Secure, Web-based Contact Tracing App

Executive Summary

- 2020 has brought the entire World many unexpected surprises and business challenges.
- For Leaders are strategic and resourceful, Technologies such as the Internet, distributed & decentralized computing, AI, Blockchain & Quantum Computing offer great hope for the future.
- This presentation will show the Current State of the Global COVID-19 Crisis as of mid-December 2020, describe Business Impacts and the New Normal, as well as a Web-Based COVID-19 Contact Tracing Application.

Agenda

- Current State of the Global COVID-19 Crisis
- Impacts on Business and Society
- The New Normal
- A Web-Based Contact Tracing Application
- Conclusion
- Parting Thoughts
- Resources



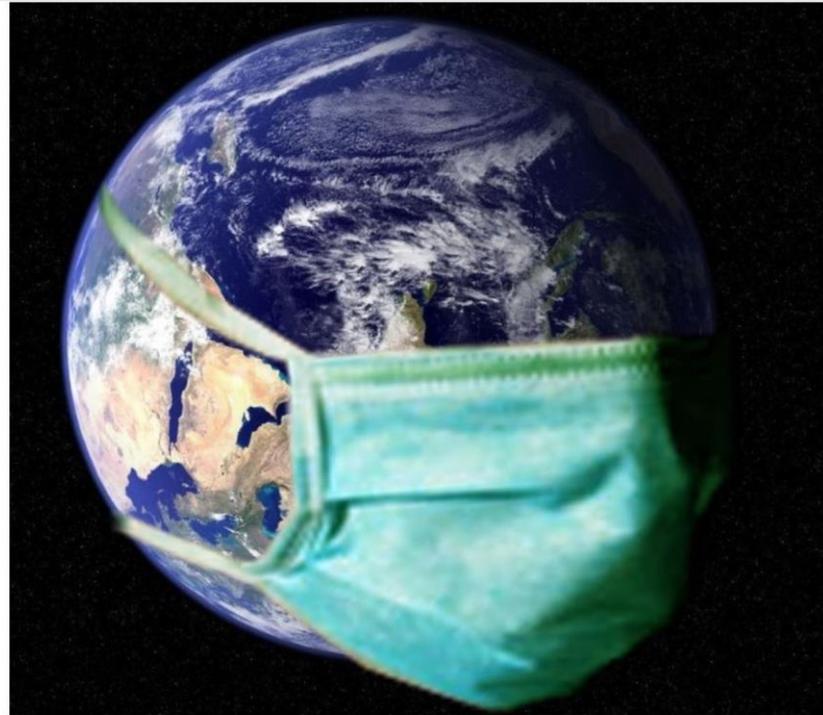
Current State of the Global COVID-19 Crisis

The World in 2020

The World in 2020

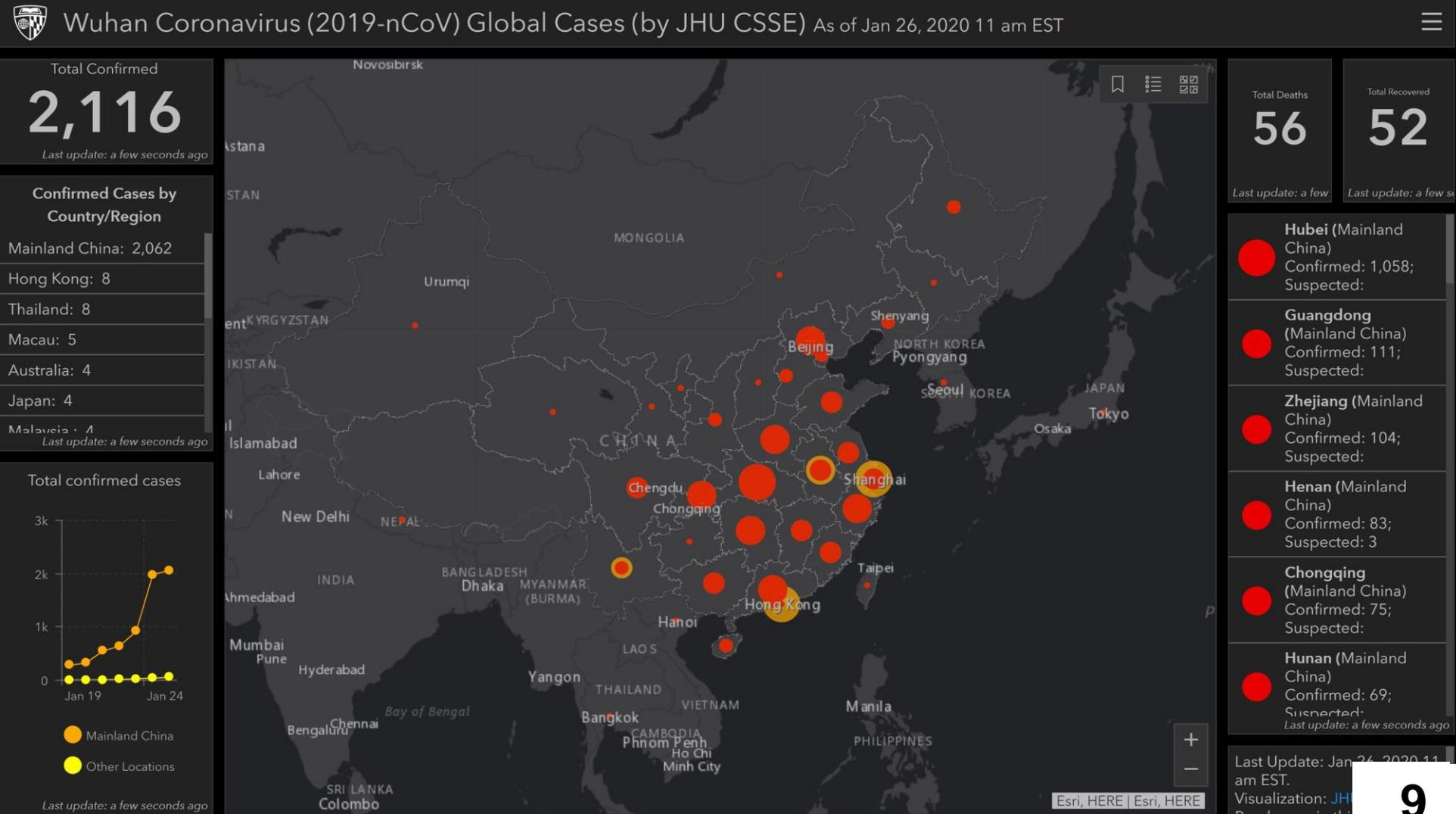
Remember that ancient Chinese Curse, “May You Live in Interesting Times.”?

1. CoronaVirus & COVID-19
2. Global Pandemic
3. Economic Uncertainty
4. Layoffs
5. Civil Unrest & Riots
6. Lockdowns
7. Social Distancing
8. Teleworking
9. Masks
10. Contact Tracing
11. Fear Everywhere



WORLD ON LOCKDOWN
SPREAD ESCALATING

CoronaVirus Heatmap – Johns Hopkins University – January 26, 2020



CoronaVirus Heatmap – Johns Hopkins University - June 29, 2020



COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins Universit...

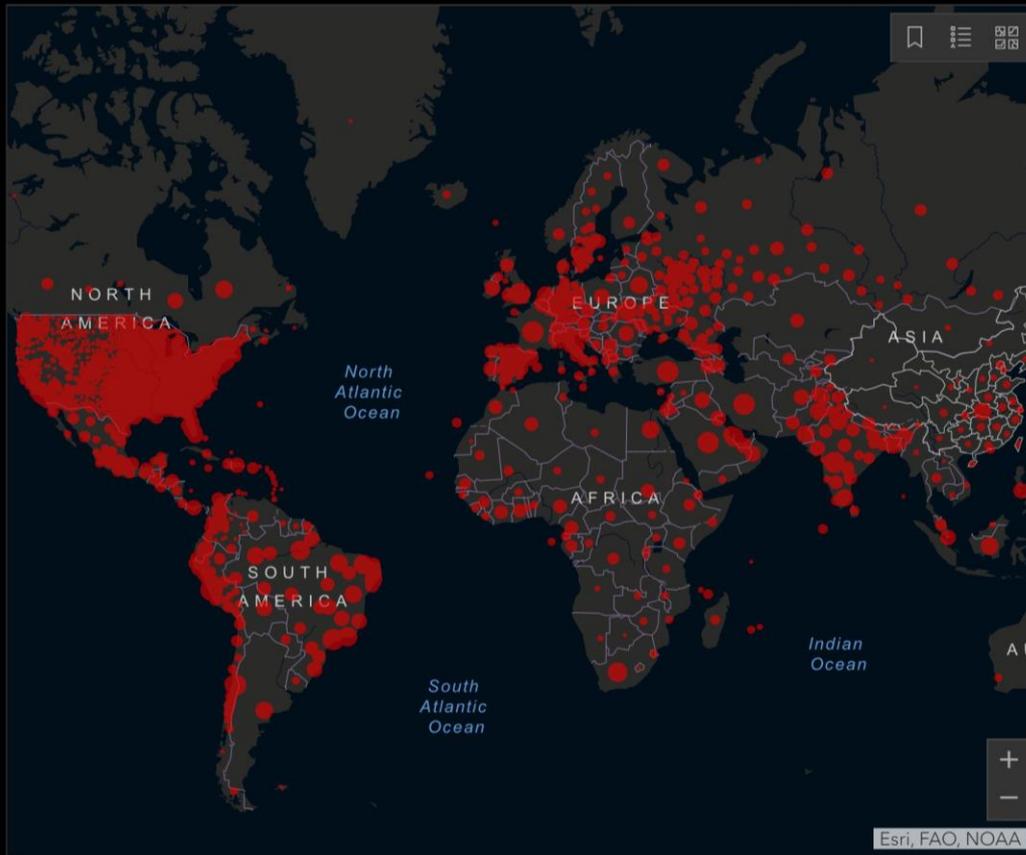


Total Confirmed
10,189,350

Confirmed Cases by
Country/Region/Sovereignty

- 2,557,980** US
- 1,344,143** Brazil
- 640,246** Russia
- 548,318** India
- 313,467** United Kingdom
- 279,419** Peru
- 271,982** Chile
- 248,770** Spain
- 240,436** Italy
- 225,205** Iran
- 216,852** Mexico
- 206,512** Pakistan
- 199,476** France
- 197,239** Turkey

Last Updated at (M/D/YYYY)
6/29/2020, 10:33:52 AM



Cumulative Confirmed Cases

Esri, FAO, NOAA

188
countries/regions

Lancet Inf Dis Article: [Here](#). Mobile Version: [Here](#).
Lead by JHU CSSE. Technical Support: [Esri Living Atlas team](#) and [JHU APL](#). Financial Support: [JHU](#) and [NSF](#). Click [here](#) to donate to the CSSE dashboard team, and other JHU COVID-19 Research Efforts. [FAQ](#). Read more in this [blog](#). [Contact US](#).

Global Deaths
502,719

- 125,864 deaths US
- 57,622 deaths Brazil
- 43,659 deaths United Kingdom
- 34,744 deaths Italy
- 29,781 deaths France
- 28,343 deaths Spain
- 26,648 deaths Mexico

Global Deaths

US State Level
Deaths, Recovered

- 31,397 deaths, **70,010** recovered
New York US
- 14,975 deaths, **30,092** recovered
New Jersey US
- 8,059 deaths, **recovered**
Massachusetts US
- 6,888 deaths, **recovered**
Illinois US
- 6,606 deaths, **66,686** recovered
Pennsylvania US

US Deaths, R...



Confirmed Logarithmic Daily Cases

10

CoronaVirus Heatmap – Johns Hopkins University - July 17, 2020



COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins Unive... ☰

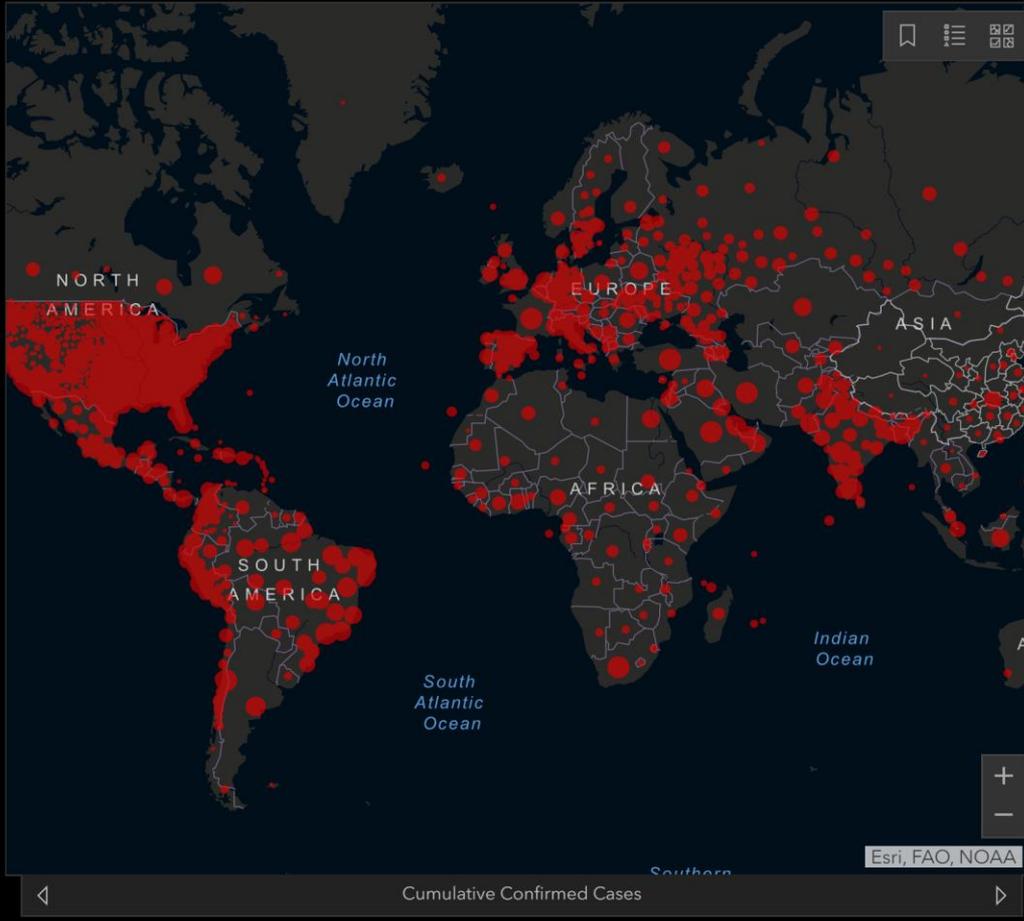
Total Confirmed
13,832,242

Confirmed Cases by
Country/Region/Sovereignty

- 3,576,430** US
- 2,012,151** Brazil
- 1,003,832** India
- 758,001** Russia
- 341,586** Peru
- 324,221** South Africa
- 324,041** Mexico
- 323,698** Chile
- 294,116** United Kingdom
- 269,440** Iran
- 259,999** Pakistan
- 258,855** Spain
- 243,736** Italy
- 243,238** Saudi Arabia

Last Updated at (M/D/YYYY)
7/17/2020, 6:34:45 AM

188
countries/regions

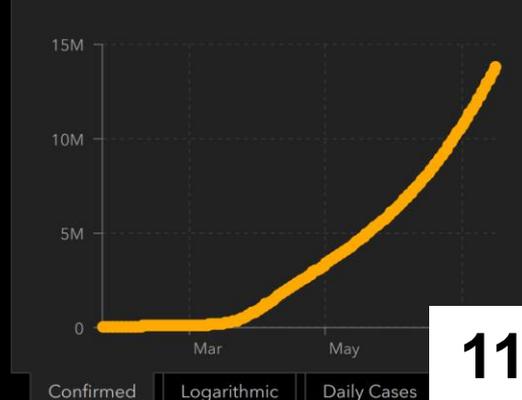


Global Deaths
590,608

- 138,360 deaths US
- 76,688 deaths Brazil
- 45,204 deaths United Kingdom
- 37,574 deaths Mexico
- 35,017 deaths Italy
- 30,141 deaths France
- 28,416 deaths Spain

US State Level
Deaths, Recovered

- 32,446 deaths, **71,867** recovered
New York US
- 15,665 deaths, **31,400** recovered
New Jersey US
- 8,380 deaths, **95,390** recovered
Massachusetts US
- 7,490 deaths, **recovered**
California US
- 7,452 deaths, **recovered**
Illinois US



Lancet Inf Dis Article: [Here](#). Mobile Version: [Here](#).
Lead by JHU CSSE. Technical Support: [Esri Living Atlas team](#) and [JHU APL](#). Financial Support: [JHU](#), [NSF](#), [Bloomberg Philanthropies](#) and [Stavros Niarchos Foundation](#). Resource support: [Slack](#), [Github](#) and [AWS](#). Click [here](#) to donate to the CSSE dashboard team, and [here](#) to learn more about the CSSE COVID-19 Dashboard. [FAO Dashboard](#) [WHO Dashboard](#)

CoronaVirus Heatmap – Johns Hopkins University – December 15, 2020



COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (JHU)



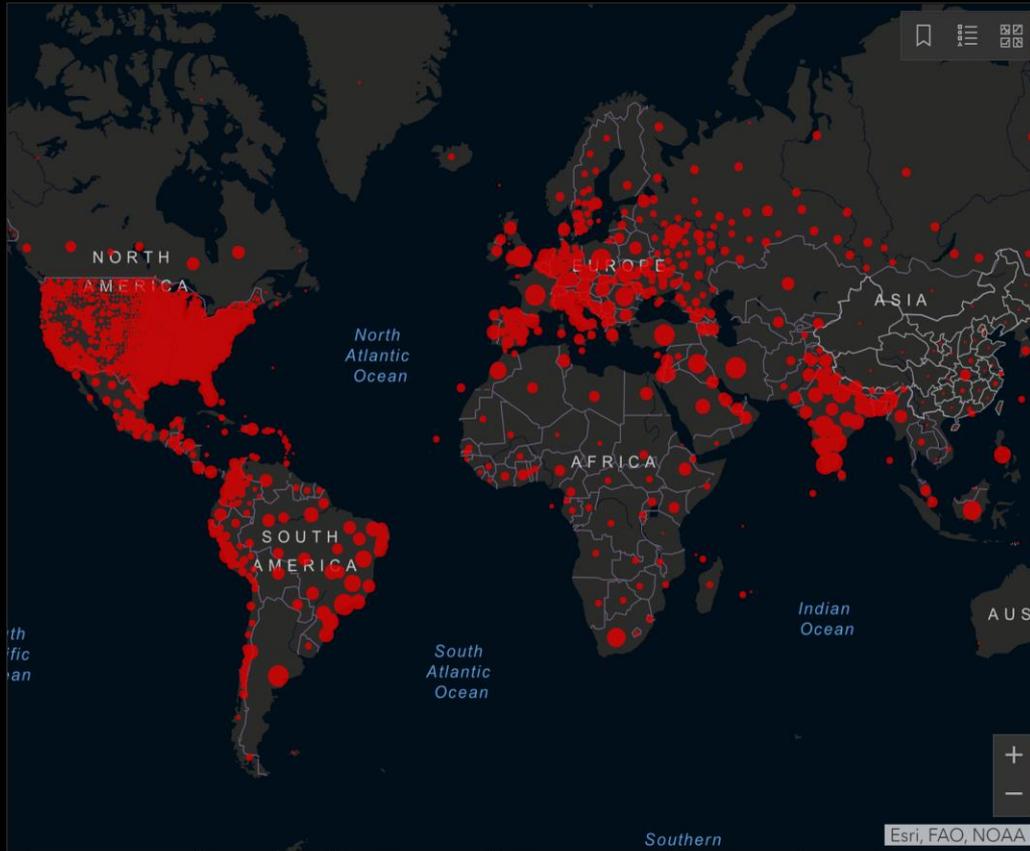
Global Cases
73,365,192

Cases by
Country/Region/Sovereignty

- 16,677,333 US
- 9,906,165 India
- 6,970,034 Brazil
- 2,682,866 Russia
- 2,445,459 France
- 1,898,447 Turkey
- 1,893,428 United Kingdom
- 1,870,576 Italy
- 1,762,212 Spain
- 1,503,222 Argentina
- 1,444,646 Colombia
- 1,378,518 Germany
- 1,255,974 Mexico
- 1,147,446 Poland

Admin0

Last Updated at (M/D/YYYY)
12/15/2020, 5:27 PM



Cumulative Cases | Active Cases | Incidence Rate | Case-Fatality Ratio | Testing Rate

191
countries/regions

Lancet Inf Dis Article: [Here](#). Mobile Version: [Here](#). Data sources: [Full list](#). Downloadable database: [GitHub](#), [Feature Layer](#).
Lead by JHU CSSE. Technical Support: [Esri Living Atlas team](#) and [JHU APL](#). Financial Support: [JHU](#), [NSF](#), [Bloomberg Philanthropies](#) and [Stavros Niarchos Foundation](#). Resource support: [Slack](#), [Github](#) and [AWS](#). Click [here](#) to [donate](#) to the CSSE dashboard team, and other JHU COVID-19

Global Deaths
1,632,554

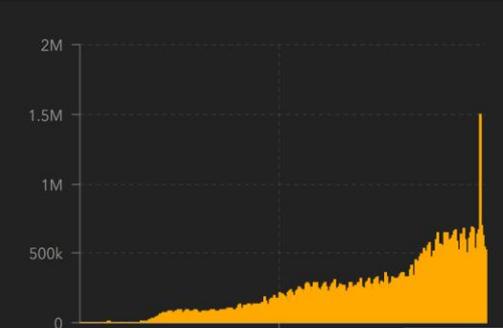
- 303,046 deaths US
- 182,799 deaths Brazil
- 143,709 deaths India
- 114,298 deaths Mexico
- 65,857 deaths Italy
- 65,006 deaths United Kingdom
- 59,182 deaths France

Global Deaths

US State Level
Deaths, Recovered

- 35,565 deaths, **91,366** recovered New York US
- 24,457 deaths, **1,185,628** recovered Texas US
- 21,290 deaths, **recovered** California US
- 20,082 deaths, **recovered** Florida US
- 17,872 deaths, **48,951** recovered

US Deaths, Re...



Daily Cases

12

CoronaVirus Heatmap – Johns Hopkins University – December 15, 2020

United States of America



COVID-19 Dashboard by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (JHU)

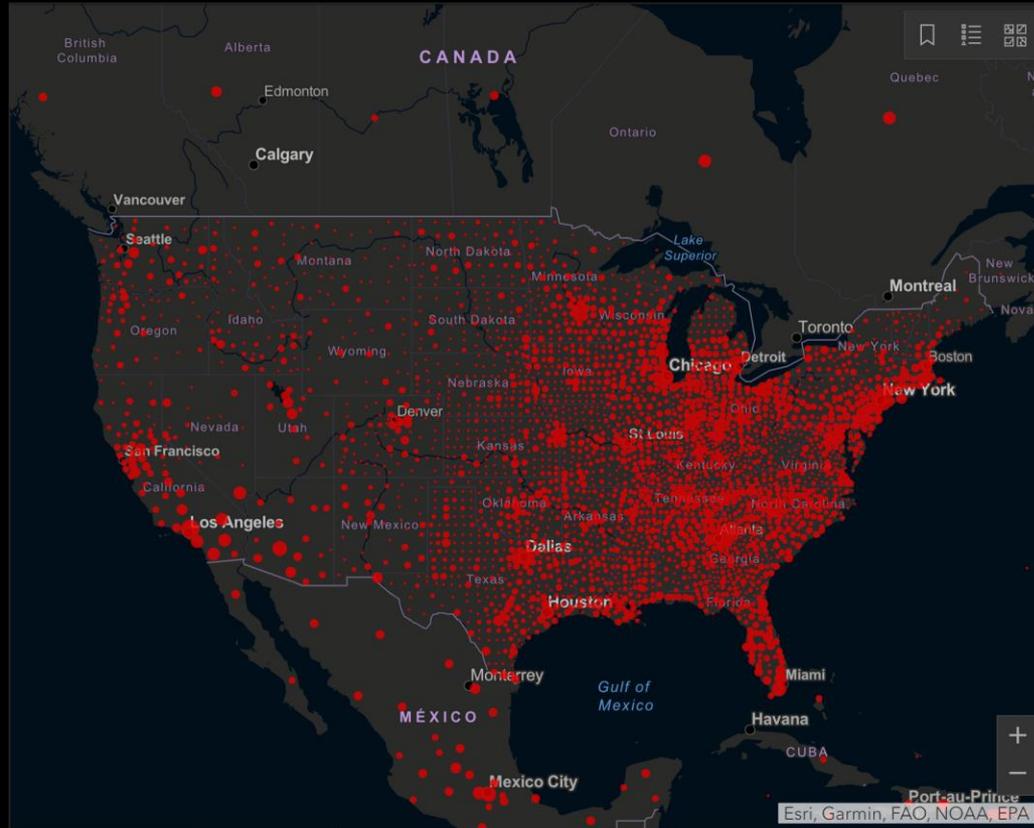


Global Cases

16,677,333

Cases by
Country/Region/Sovereignty

| |
|--------------------------|
| 16,677,333 US |
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| 6,970,034 Brazil |
| 2,682,866 Russia |
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| 1,378,518 Germany |
| 1,255,974 Mexico |
| 1,147,446 Poland |



Cumulative Cases

Active Cases

Incidence Rate

Case-Fatality Ratio

Testing Rate

191

countries/regions

Lancet Inf Dis Article: [Here](#). Mobile Version: [Here](#). Data sources: [Full list](#). Downloadable database: [GitHub](#), [Feature Layer](#).

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Global Deaths

1,632,554

303,046 deaths
US

US State Level
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Global Deaths

US Deaths, Re...



Daily Cases

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Slater Technologies

COVID-19 Vaccinations Begin in the U.S.

U.S. Authorizes the First Vaccine to Fight Pandemic

FIRST TO GET THE VACCINE
December distribution target: 20 million people
Health-care personnel and long-term care facility residents



SECOND-HIGHEST PRIORITY
January-March: 80 million
Essential workers (non-health care)



THIRD HIGHEST
Beyond March: Undetermined
Adults with high-risk medical conditions and age 65+ years



Pfizer-BioNTech shot to be available within days

The vaccine is the first to gain the federal government’s permission to go into use in the U.S., a landmark step in efforts to beat back the raging coronavirus pandemic.

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- Q&A: Distribution, Side Effects and What You Need to Know
- Big Industries Vie for Vaccine Priority
- Latest Updates: Deaths Continue to Surge

IN DEPTH

How Pfizer Delivered in Record Time: Crazy Deadlines, a Pushy CEO

Pfizer’s CEO and his team overcame unproven science and manufacturing bottlenecks to develop a vaccine in record time. But the effort put severe strain on the company’s managers and researchers: “You’re asking for too much.”

77

VIDEO

How Will the Vaccine Be Rolled Out?

The FDA has granted emergency-use authorization of the first Covid-19 vaccine in the U.S. WSJ’s Peter Loftus and Melanie Evans explain how the vaccine will be rolled out.

INTERACTIVE

From Factory to Front Line: A Supply Chain Takes Shape to Deliver Vaccine

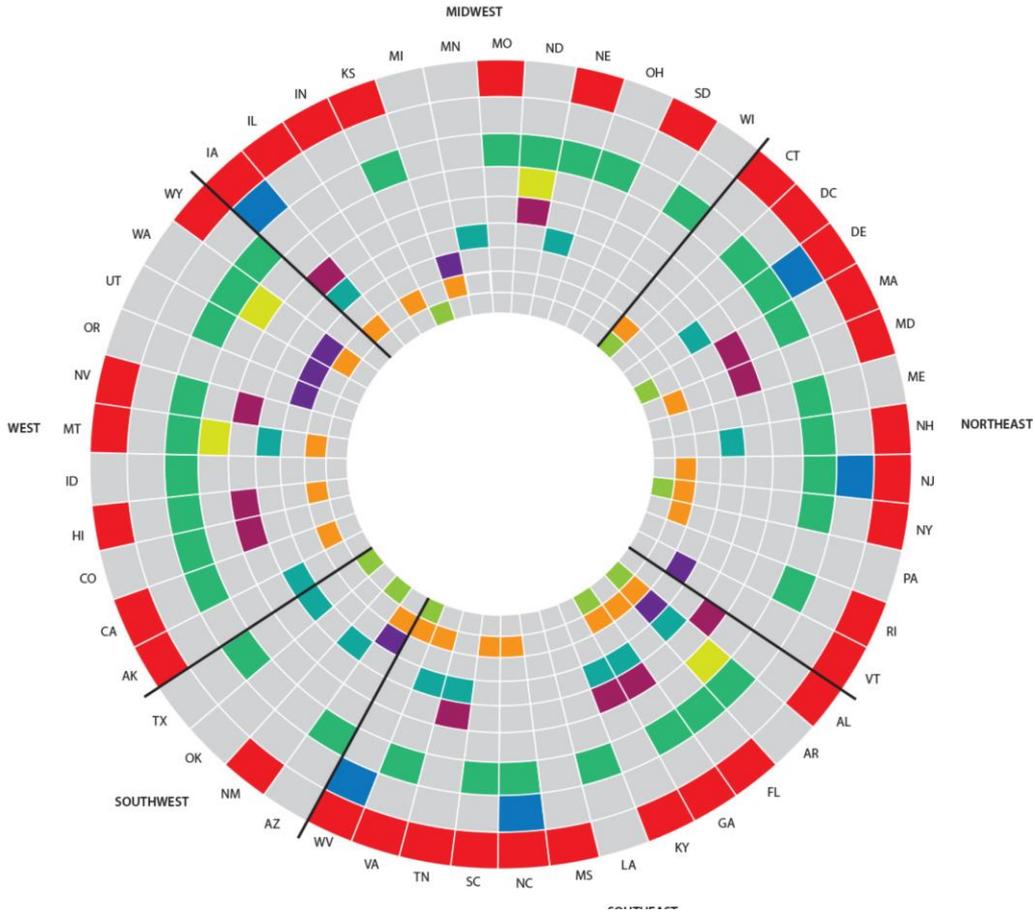
Pfizer has said it would distribute 25 million doses to high-priority groups before year’s end. The challenge is how to get the doses across the country before they go bad.

Source: Wall Street Journal, December 11, 2020

COVID-19 Vaccinations Begin in the U.S.

- **December 14, 2020 Vaccinations begin**
- **FREE**
- **Pfizer – Now – 100 million dosages**
- **Moderna – Later – 200 million doages**
- **Priority: Medical Workers, First Responders, Elderly**
- **The Vaccination requires two dosages, one as soon as possible and the second 21 days later. Must have the same vaccine as the first.**
- **The Goal is 70% to gain “Herd Immunity”**
- **The Vaccines are widely mistrusted in “Communities of Color” (Black and Hispanic)**

Primer: Vaccination Exemption Policy in the U.S.



- Medical or religious exemptions only
- Philosophical exemptions expressly excluded
- Exempted student exclusion during outbreak
- Parental acknowledgment of student exclusion during outbreak in exemption application
- Exemptions not recognized during outbreak
- Parental notarization or affidavit required for exemptions
- Enhanced education for exemptions
- Medical exemptions expressly temporary or permanent
- Annual healthcare provider recertification for medical exemptions

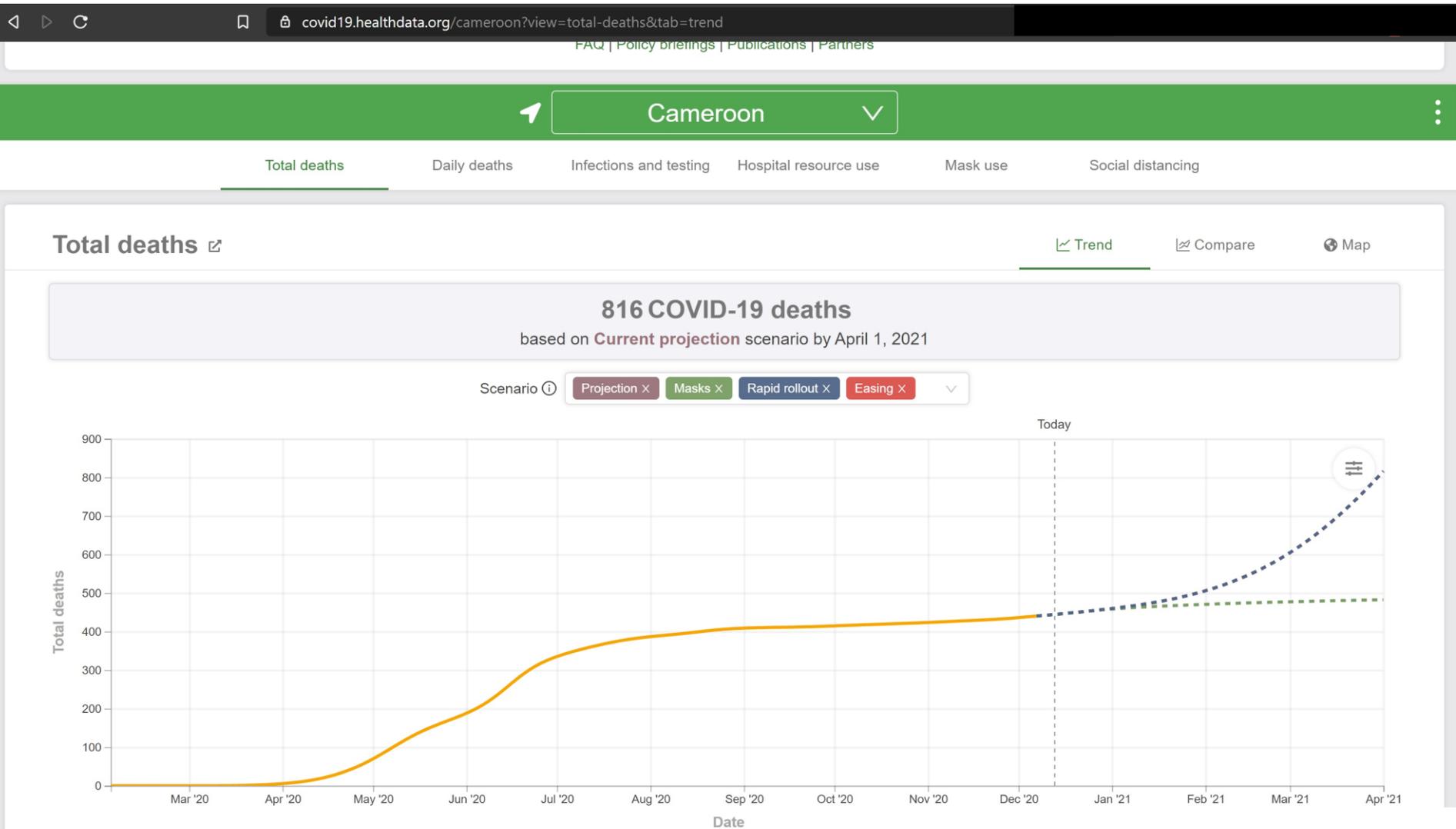
Source: Zhu, Dennis. Primer of Vaccine Policy <https://sites.wustl.edu/prosper/primer-vaccine-policy> , April 26, 2018



Cameroon Today – The COVID-19 Crisis



Cameroon Today – The COVID-19 Crisis



Source: COVID-19 statistics for Cameroon. Retrieved from <https://covid19.healthdata.org/cameroon?view=total-deaths&tab=trend> on December 13, 2020.

Impacts on Business and Society

Impacts on Business and Society

- Office Spaces and Social Distancing
- Situational Awareness
- Communications Planning and Control
- Categorizing your Staff by Function and Responsibilities
- Can your Teams Work Remotely?
- Managing and protecting your Staff: Managing Telework and Teleworkers
- Third-Party Management
- Supply Chain Management
- Business Travel

Office Spaces and Social Distancing

21

- In the past, office planners and facilities management created a very different 21st century workspace.
- The offices of today must consider COVID-19 impacts.
- Social Distancing in workspaces and conference rooms
- Plexiglass screens
- Only two or three people to an elevator
- Wearing masks required
- Many facilities want to measure your body temperature when you enter
- No more handshaking (Personally, I actually recommend the ***Turkish eyvallah greeting***)



Office Spaces – Old and New

- Old



- New



General Procedures for Limited Risk to COVID-19

- Post information from the CDC regarding steps that can be taken to protect against the spread of COVID-19 in the workplace. The CDC offers a Returning to Work Infographic that can be used to remind employees how to protect themselves from COVID-19.
- Require employees to stay home if they are sick or exhibiting symptoms of illness and apply attendance and leave policies that are flexible.
- Request, provide, and/or allow employees to wear a mask, face covering, and/or face shield to limit the risk of exposure to COVID-19. A face shield alone may not be an adequate substitute for a cloth face covering. Educate employees on the proper use, removal, and washing of cloth face coverings.
- Provide other types of personal protective equipment (PPE) (e.g., gloves, gowns, etc.), if needed to safely perform job duties.
- Limit the need to touch communal surfaces; offer automatic door openers, hands-free/foot pull door openers, touchless tools, touchless faucets, touchless waste receptacles, etc.
- Post signs reminding employees to wash their hands or use hand sanitizer when soap and water cannot be used.
- Clean and disinfect public spaces frequently. Provide cleaning and disinfecting products and require workers to wipe-down high-touch surfaces and shared workstations after each use.
- Work with building maintenance to provide effective ventilation for reducing the airborne concentration of COVID-19 and the risk of transmission.
- Beware of “**Toilet Plume**” (Look it up!)

Solutions to Addressing Physical Distancing Needs

- Establish physical distancing policies and practices and use physical/social distancing signage to remind employees to stay at least six feet apart, when possible.
- Mark floors and public spaces with textured tape, highly visible tape, flow arrows, etc., to create single direction paths of travel and limited/no access areas.
- Stagger or space-out workstations to increase distance between workers and allow workers who have a private workspace to close the door.
- Install a protective panel/shield, curtain, or other physical barrier (e.g., table) between workstations to separate employees and customers where physical distancing is not possible.
- Limit the number of people permitted in communal spaces (e.g., meeting and break rooms).
- Modify schedules to limit the density of people in the workplace (e.g., stagger or rotate shifts, days on and off, and breaks, allow alternating telework days, etc.) and/or allow alternative and flexible work hours to limit interaction with others.
- Modify a policy concerning where and when work is performed to allow telework, flexible work arrangements, alternative work locations, etc.
- Modify a work schedule or allow telework to address COVID-19-related limitations in commuting to and from work (e.g., risk of exposure during commute or limited access to transportation).
- Restructure job duties to eliminate or reduce the frequency of the need to perform tasks requiring a mask and/or face-to-face contact with others.

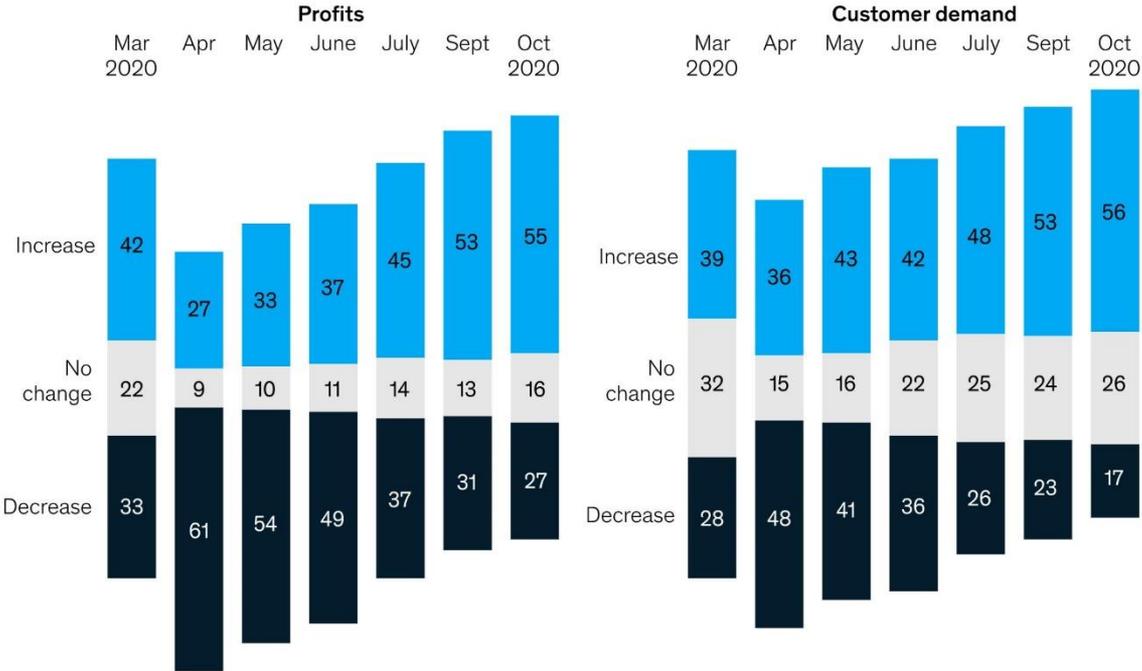
Solutions to Addressing Communications Needs

- Allow communication among employees, and/or with customers/clients, etc., using remote methods (e.g., phone, text, real time chat, video, email, etc.).
- Conduct group meetings and events using remote and virtual formats (e.g., conference call or virtual meeting platform); limit the number of people in attendance for face-to-face meetings and training; hold face-to-face meetings and training in open, well-ventilated spaces, in conjunction with physical distancing and masks; or conduct group gatherings in outside spaces where people can be physically distanced.
- Use an accessible virtual meeting platform for group meetings and collaboration.
- Modify training methods to include remote, online, limited face-to-face, hybrid, and flexible formats.
- When masks are worn in the workplace, consider the communication needs of workers who read lips. It may be necessary for co-workers to use a clear mask, or face shield, to video chat from a different room without a mask, or to use other methods of communicating by text (e.g., texting, portable text communication device).

Some Good Business News

Executives report ever-more-positive expectations for their companies' profitability and customer demand.

Expected changes at respondents' companies in next 6 months, % of respondents¹



¹ Respondents who answered "don't know" are not shown. Questions were asked only of respondents working for private-sector organizations. In Mar 2020, n = 1,060; in Apr 2020, n = 1,940; in May 2020, n = 2,290; in June 2020, n = 1,985; in July 2020, n = 1,900; in Sept 2020, n = 1,010; and in Oct 2020, n = 2,041.

McKinsey & Company

To read the survey, see ["The coronavirus effect on global economic sentiment,"](#) October 29, 2020.

Source: Article by McKinsey & Company on December 15, 2020



The New Normal

The New Normal

The “New Normal” after COVID-19 has four key pillars, underpinned by a renewed emphasis on security



Changing Paradigms for Remote Work

Organizations that were once resistant to remote workforces have rapidly developed the capabilities to support them.



New Product Creation & Delivery Models

Companies dependent on the physical presence of their customers are now looking to deliver products and experiences online.



More Self-Service Options for Customers

The crisis will spark a permanent shift toward self-service channels for customers, supported by evolving tech like chatbots and online communities.



Greater Organizational Decentralization

Organizational decision making in both for-profit and public sector organizations will shift more to the “edge” to allow greater agility.



Renewed Emphasis on Security Architecture

The New Normal

- **Analyst Perspective**
- **Phase 1: Predicting the New Normal After COVID-19**
- **The “New Normal” after COVID-19 has four key pillars**
 - Changing Paradigms for Remote Work
 - New Product Creation and Delivery Models
 - More Self-Service Options for Customers
 - Greater Organizational Decentralization
- **Phase 2: Planning Proactively to Adapt your IT Strategy for the New Normal**
- **Create a Summary of Accomplishments**

A Web-Based Contact Tracing Application

Contact Tracing – What It Is

■ What Is Contact Tracing?

- Contact tracing is a process that identifies individuals who may have been in contact with someone who is infected by a virus. Once these contacts are identified, public health workers known as contact tracers communicate with these individuals to warn them of potential exposure and connect them with public health information and services including testing.

■ Essential Duties:

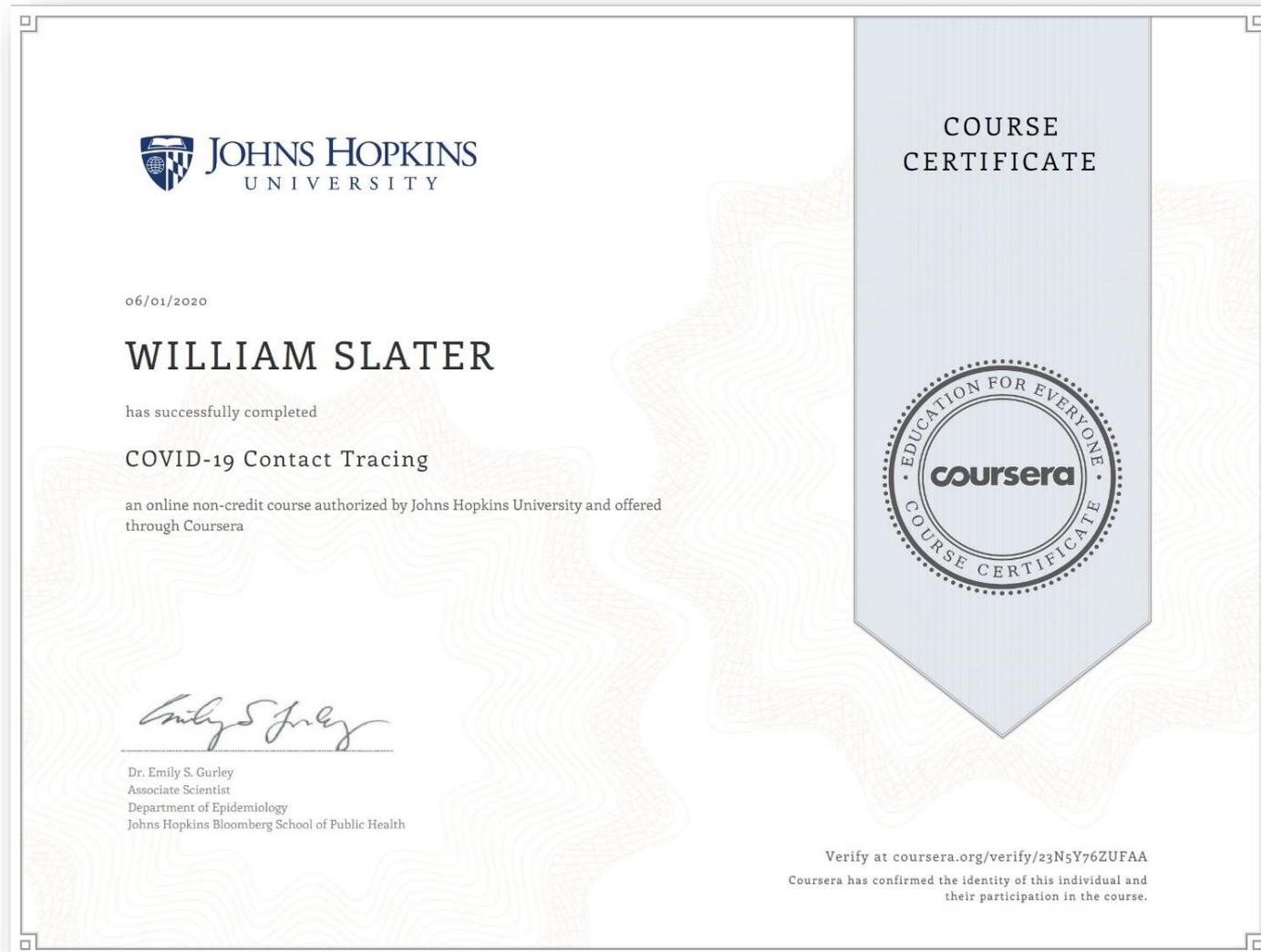
- Under the supervision of a Contact Tracing Case Investigation, the Contact Tracer will use a web-based data management platform to call all contacts of anyone diagnosed with COVID-19 to document a symptom check, refer them to testing according to established protocols, and provide them with instructions for quarantine or isolation, if appropriate.
- Call contacts of newly diagnosed patients. Communicate with contacts in a professional and empathetic manner.
- Collect and record information on symptoms.
- Provide contacts with approved information about local quarantine/isolation procedures, and if appropriate, refer them to testing according to protocol and/or to a COVID-19 social resources.
- Follow a script to inform contacts about the importance of quarantine/isolation and what to do if symptoms develop.
- Maintain daily contact with supervisor.

Contact Tracing – Why Is It Important?

■ Why Is Contact Tracing Important?

- Besides Social Distancing, Wearing Masks, Isolation, and Quarantines, Contact Tracing is a Key Containment Strategy in effectively controlling the spread of a contagion during a Pandemic.
- Contact Tracing helps ensure that those infected or exposed follow the protocols for isolation or quarantine.
- Contact Tracing data is used to report statistics on the state of the Pandemic to organizations (Government, Commercial, Non-Profit, Educational, etc.)
- Contact Tracing data reports and statistics are also used by organizations to formulate policy on lockdowns or even curfews, and to anticipate the need for additional First Responder Resources and other Medical Resources (PPE, Hospitals, ICUs, ventilators, etc.)
- Contact Tracing was responsible for containing both the Tuberculosis Outbreak and the Ebola Outbreak.

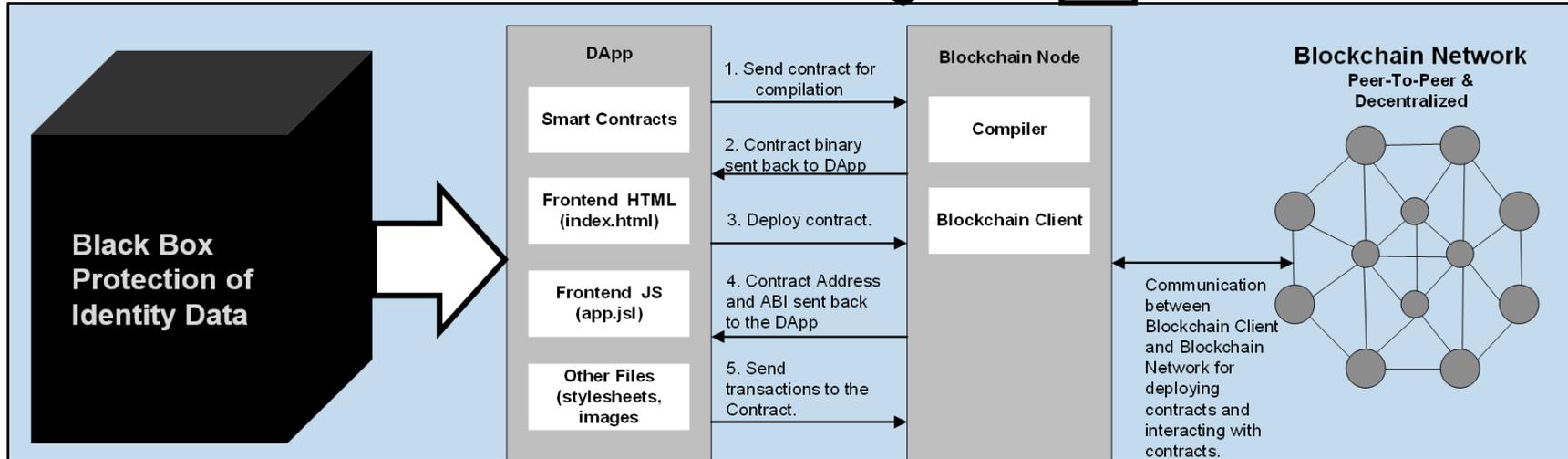
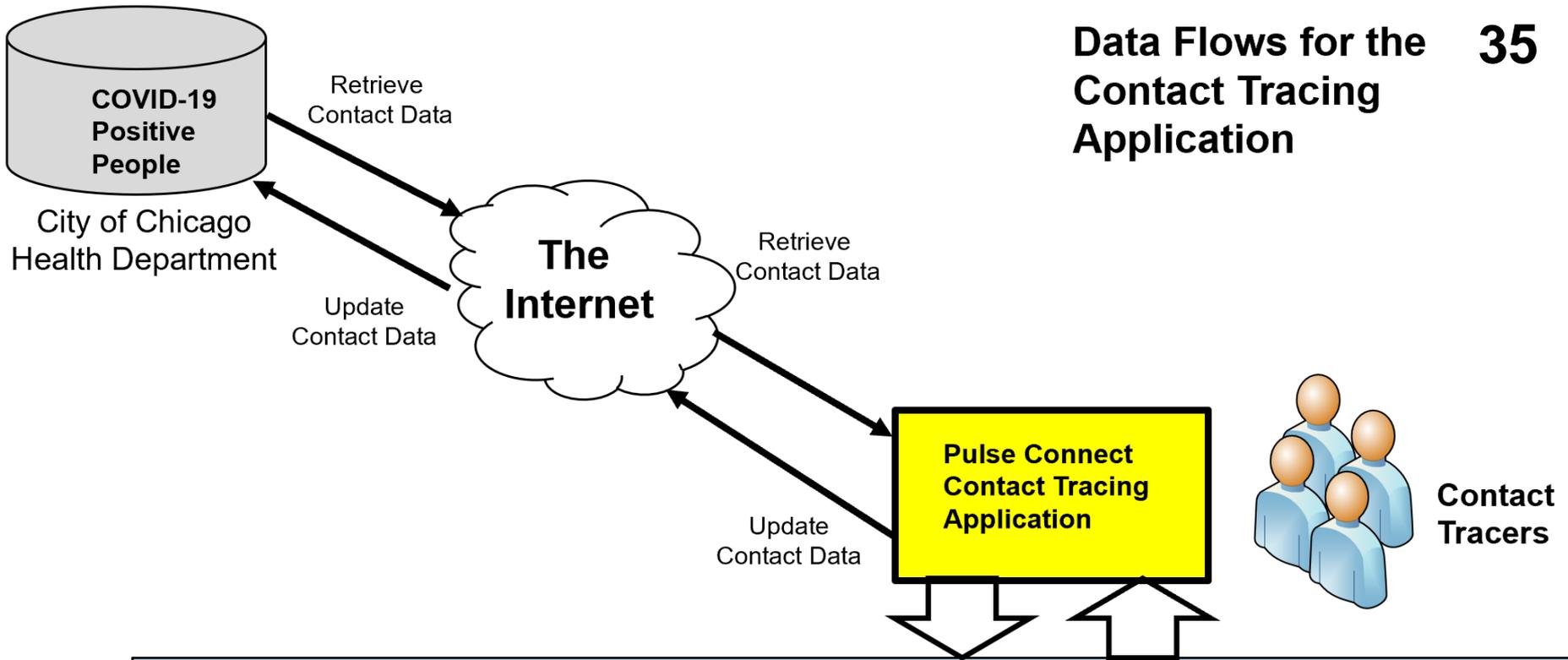
FREE Contact Tracing Training and Certification



Source: Johns Hopkins University – School of Public Health - <https://coronavirus.jhu.edu/contact-tracing>

A Web-Based Contact Tracing Application

Data Flows for the 35 Contact Tracing Application



Contact Tracing Application

- Web-based
- Secure Identity Management
- User friendly
- Data is stored on a Blockchain
- Streamlined Reporting Process
- **Powered by Fluree (www.flur.ee) which is Open Source**

Contact Tracing Application

- Powered by Fluree (www.flur.ee) which is Open Source

Trust Your Data

3 key Fluree features that bring trust to data

1



Immutable & tamper proof

Blockchain hashing, transaction signatures

2



Embedded Data Permissions

SmartFunctions (permissions, “specs”, query/read)

3



Decentralization

Distribute transaction validation responsibilities

Contact Tracing Application

- Powered by Fluree (www.flur.ee) which is Open Source

Leverage

3 key Fluree features that give your data more leverage

1



Semantic Graph

Ideal “fit” for modern apps, AI. Link data without data warehouses.

2



Time Travel

Freeze time across computation, troubleshoot issues, improve support

3



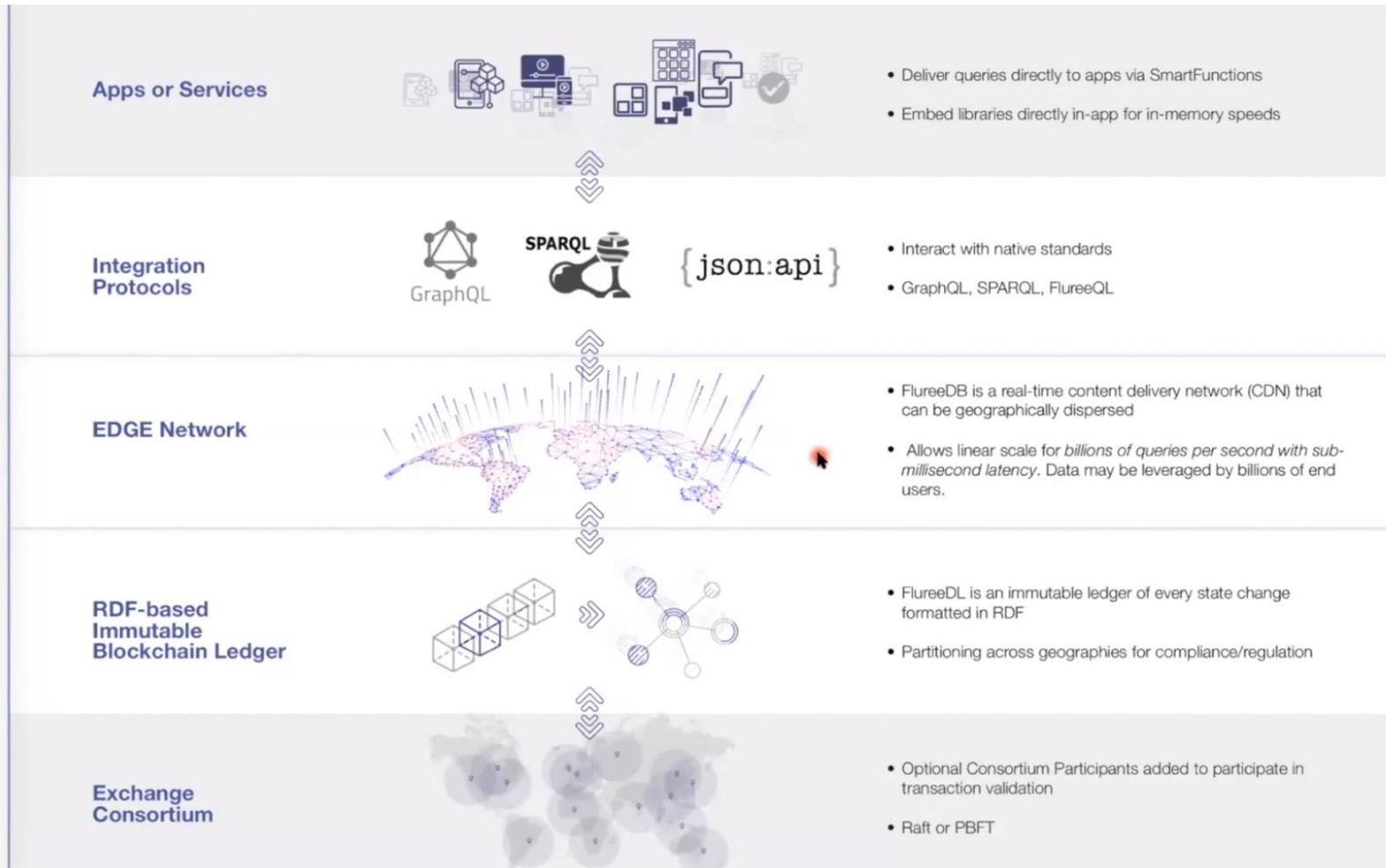
Real-Time Applications

Fluree JavaScript Library, ledger “watch”

Contact Tracing Application

- Powered by Fluree (www.flur.ee) which is Open Source

Fluree Data Stack



Contact Tracing Application -- More Information

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If you are interested in participating and being one of the first countries to have access to our Decentralized COVID-19 Contact Tracing Application, please contact Randolph Rodriguez, CEO of Pulse Connect at rrodriguez@pulseconnect.net or 1 (224) 288 7066



If you are interested in this Decentralized COVID-19 Contact Tracing Application, or in interested in working with the Fluree Platform please contact Buck Flannigan, VP of Fluree Marketing and Partner Management at buck@flur.ee



Conclusion

Conclusion

- We covered:
 - Current State of the Global COVID-19 Crisis
 - Impacts on Business and Society
 - The New Normal
 - A Web-Based Contact Tracing Application



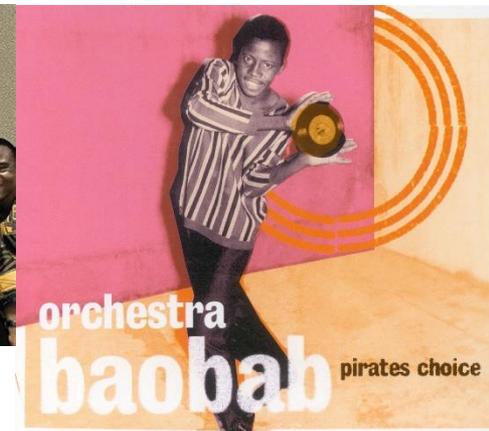
Africa & Cameroon & Me

- **Music**
 - *Angelique Kidjo* - Benin (since 1991, after her first album, I was hooked, Logozo, We We, Batonga)
 - *Afro-Cuban – Buena Vista Social Club* – Havana (2000)
 - *Orchestra Baobab* – Senegal (since 2004)
 - *LadySmith Black Mambazo* – South Africa (since 1991)

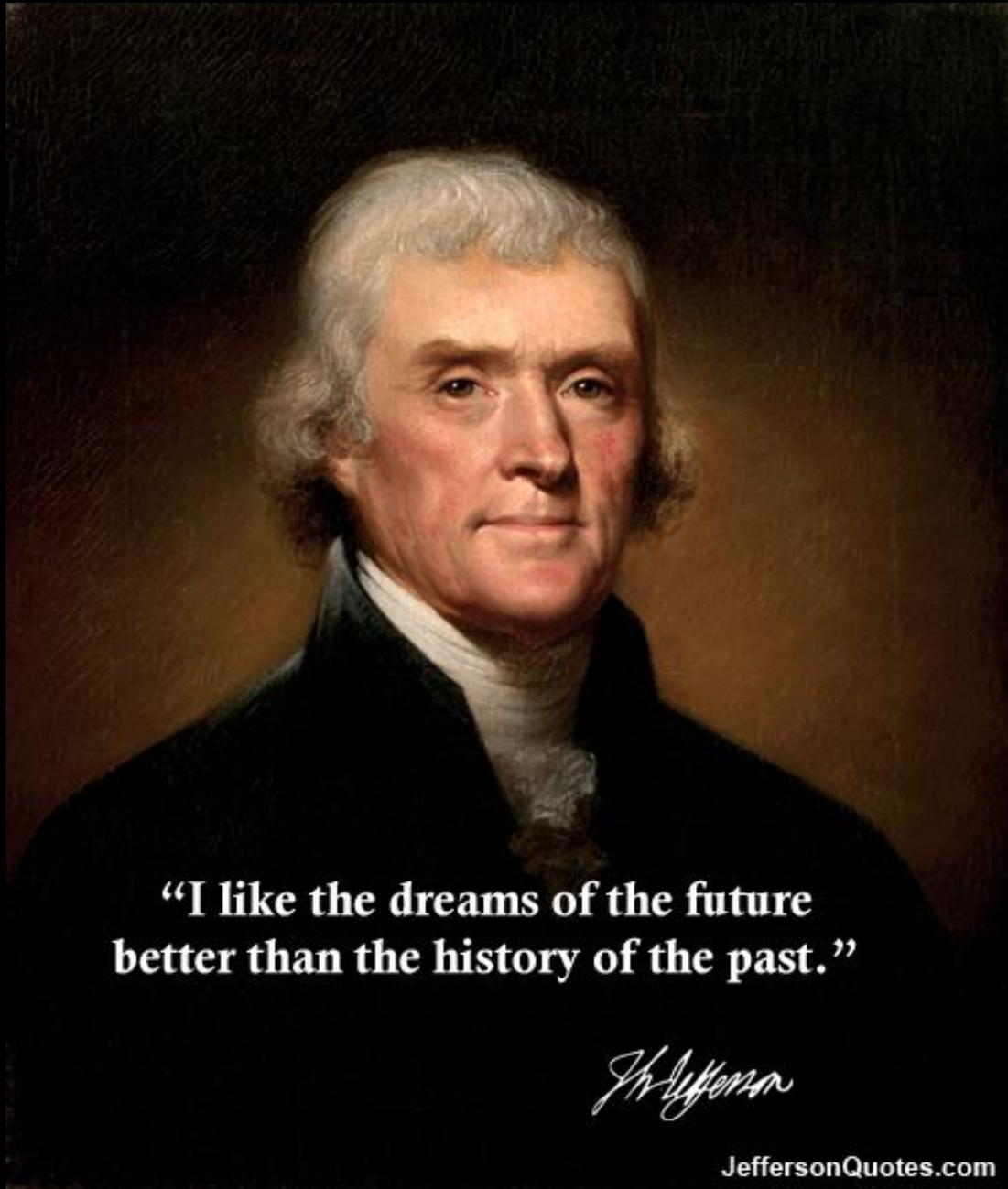
- **Friends**
 - Ghana
 - Nigeria
 - Morocco
 - Egypt
 - Mali
 - South Africa
 - Zimbabwe
 - Kenya
 - Benin



- **Art**
- **Culture**
- **Geography**
- **History** – Henry Louis Gates Tour of Africa Video - 1999
- **Cartography** – the Peters Projection
- **Food**
 - Introduced into the American South
 - Sweet Potatoes
 - Greens
 - Goat
 - Etc.
- **Cameroon IGF Working Group** invited me to participate



Parting Thoughts



**“I like the dreams of the future
better than the history of the past.”**

Th Jefferson

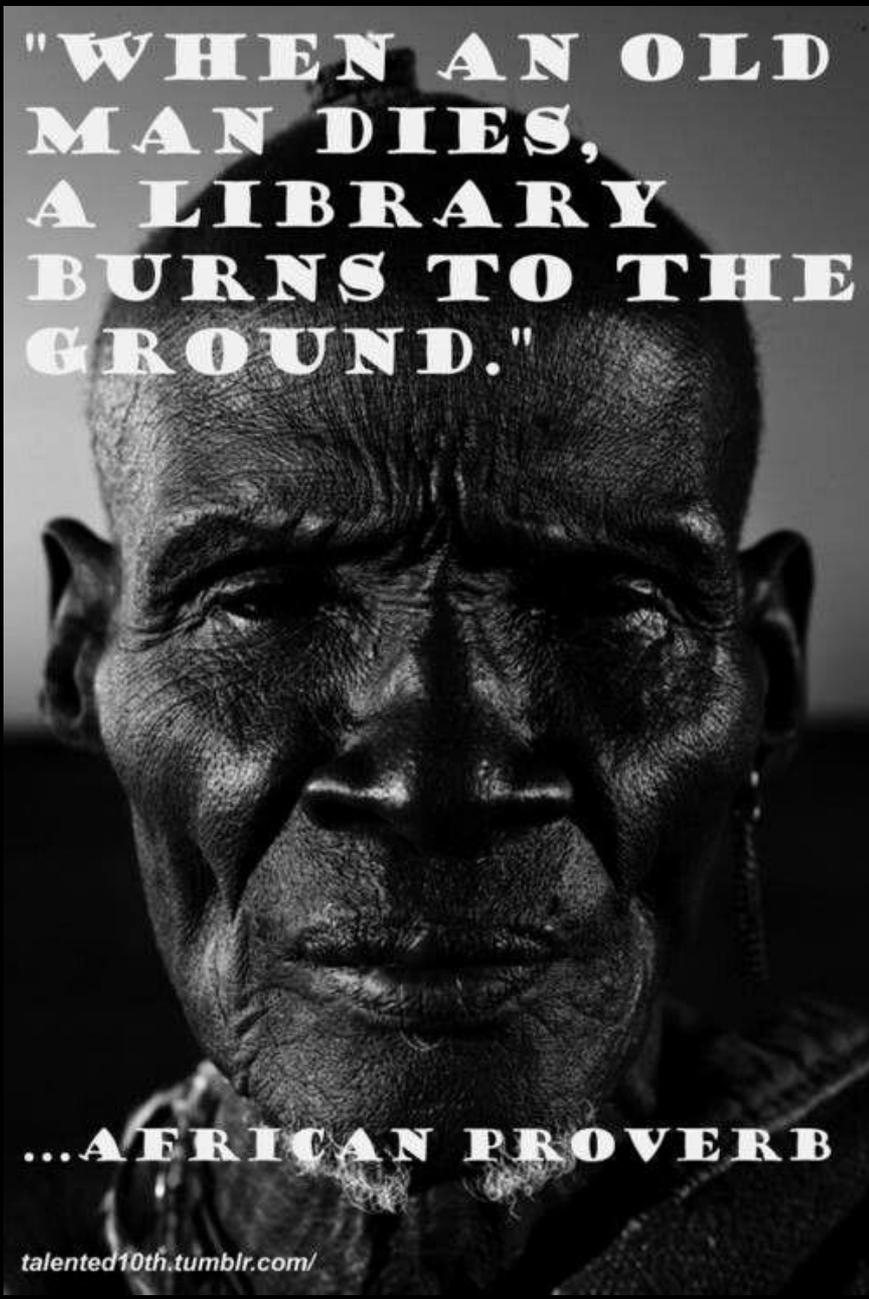
JeffersonQuotes.com

*I have learned
that people will
forget what you
said, people will
forget what you
did, but people
will never forget
how you made
them feel.*

Maya Angelou
1928-2014



Photo by Michael Collopy



**"WHEN AN OLD
MAN DIES,
A LIBRARY
BURNS TO THE
GROUND."**

...AFRICAN PROVERB

talented10th.tumblr.com/

Parting Thoughts: Like Records on a Blockchain, Let Our Love, Support, & Friendship Be Immutable & Enduring



**The Current State of the
Global COVID-19 Crisis,
Impacts on Business and
Society, the New Normal,
and a Unique Secure, Web-
based Contact Tracing App**

Thank You!

Questions & Answers

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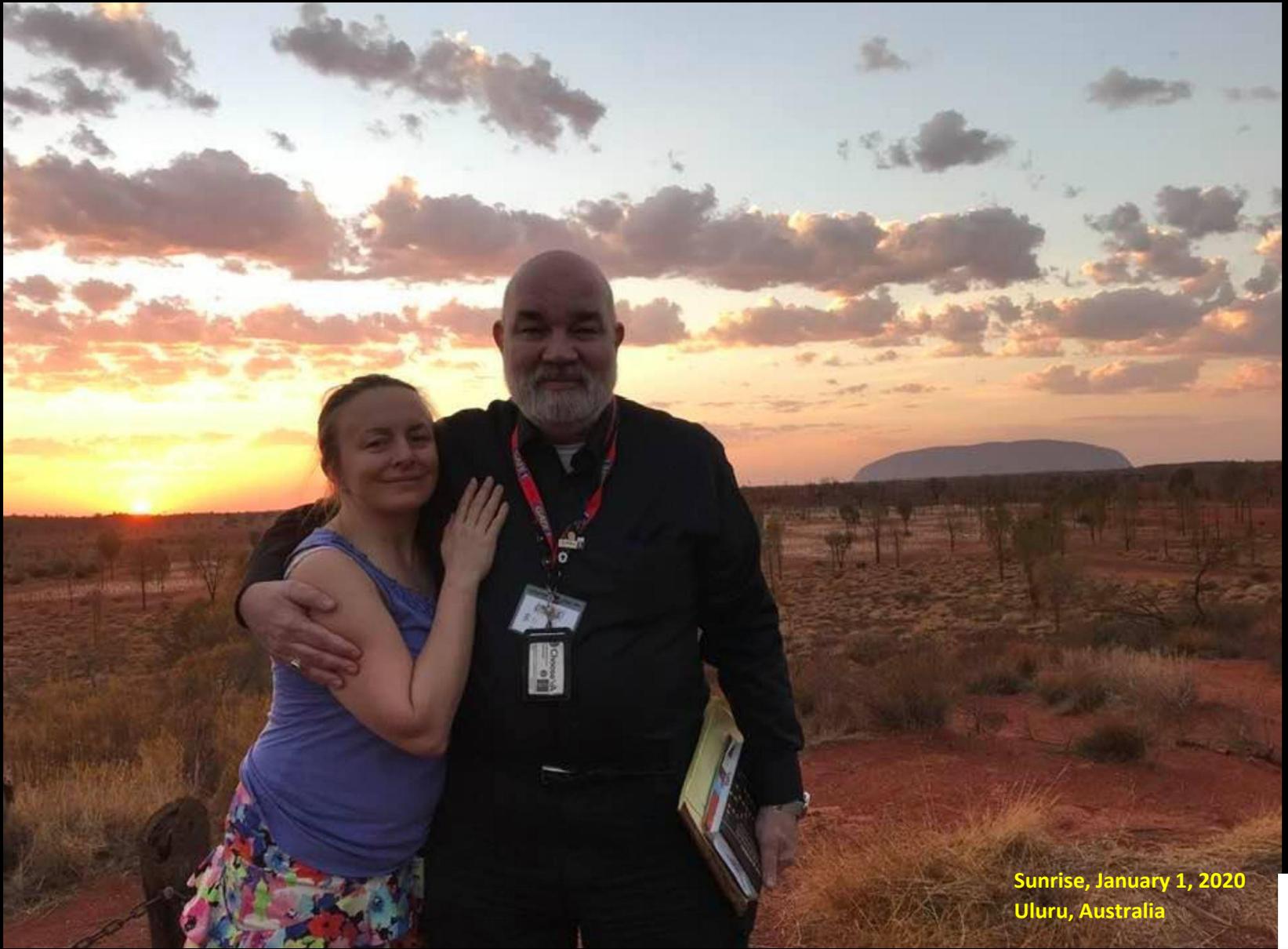
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Dedication

Dedicated with Love and Everlasting Devotion to My Lovely Bride, Joanna Roguska, Who Is the Incarnate Holy Angel Who Our Lord God Miraculously Placed in My Life in 2000 to Rescue, Love, Inspire and Guard Me on a Daily Basis from then to Eternity.



Sunrise, January 1, 2020
Uluru, Australia

CARTE POSTALE
POST CARD

BOULOGNE-SUR-MER
409
SANS FRAIS
15
40
RETOUR A L'EXPEDITEUR

Madame
Dennis

COMMUNICATION & ADDRESS ONLY

ADDRESS ONLY

Mademoiselle Jane
Maison Blanche
Plombières les Bains



Have yourself
a Merry little
CHRISTMAS
filled with
PEACE &
Happiness
throughout
the
NEW YEAR

Plombières les Bains
Voges

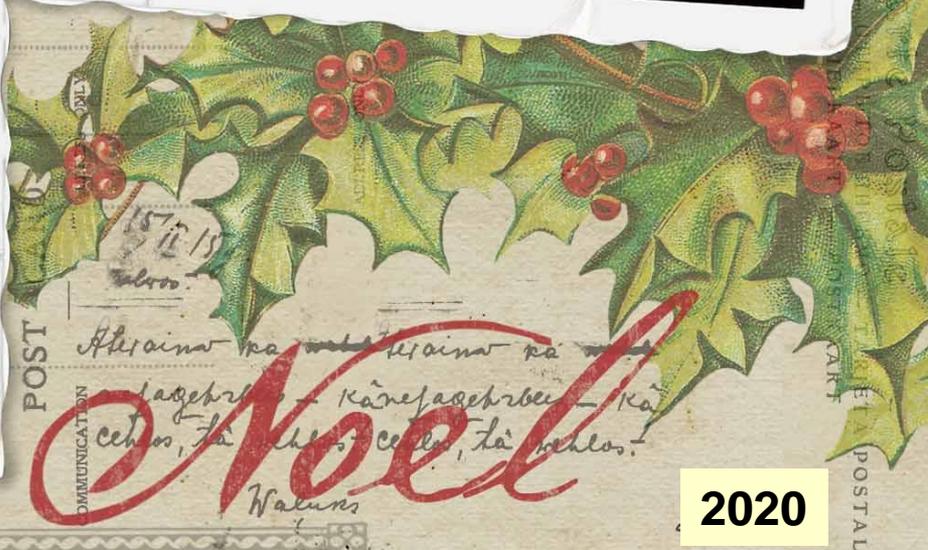
Bill & Joanna

POST CARD COMMUNICATION

CARTE POSTALE
CORRESPONDANCE
CARTE POSTALE

POST CARD

Phototypie A. Bregis, Imp. 1903, Rue de Valenciennes, Paris



2020

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