





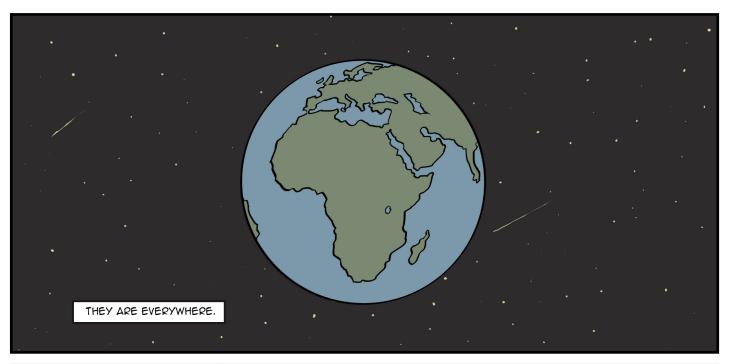
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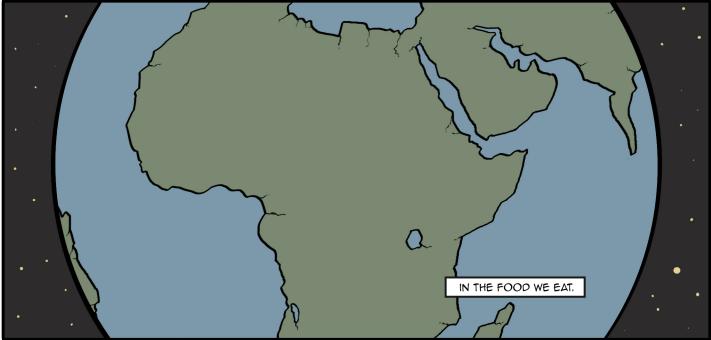


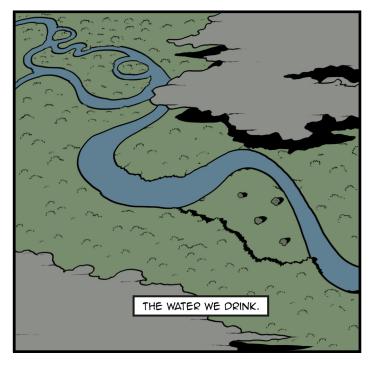
Designed by ERLY STATE STUDIOS Limited Art by J. Nino Galenzoga Colors by Joel Santiago and Patricia Beja Direction by: Farid Haque

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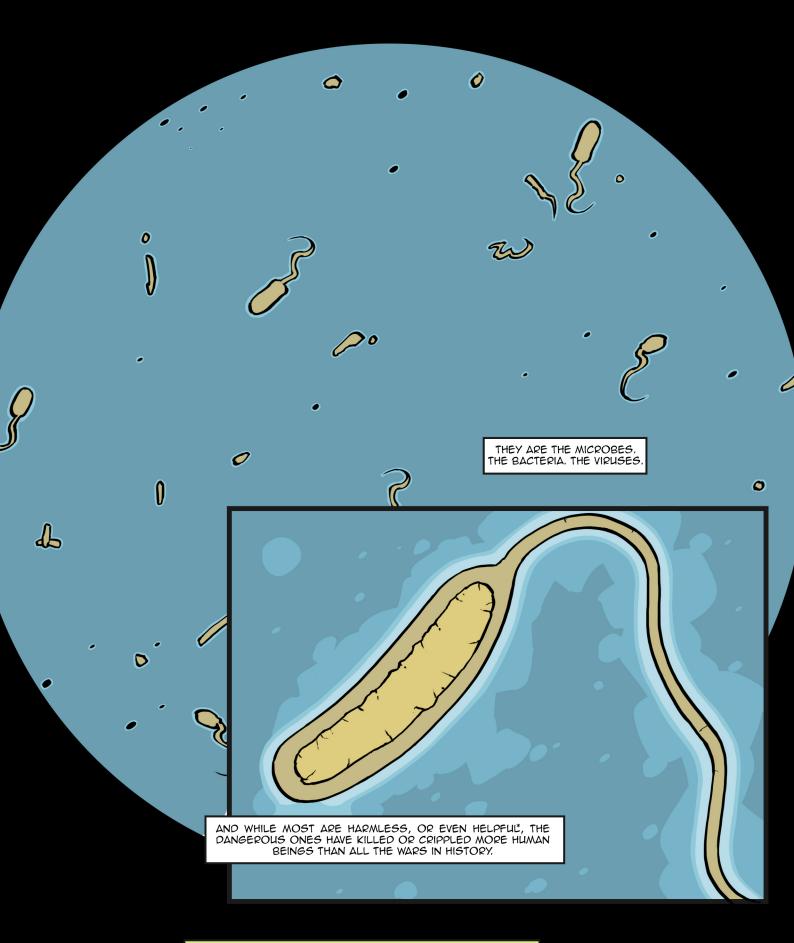
SUGGESTED CITATION
Bipartisan Commission on Biodefense
Germ Warfare: A Very Graphic History
Bipartisan Commission on Biodefense: Washington, DC. 2019.

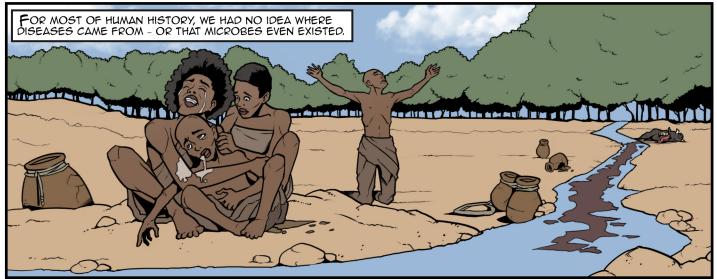




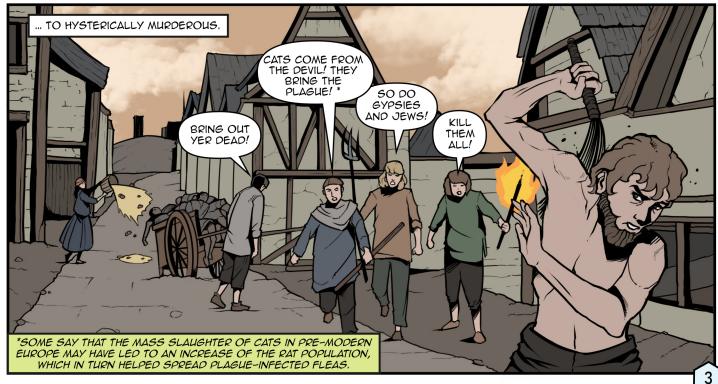




















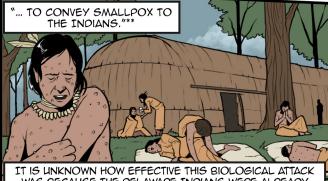






FROM THE JOURNAL OF WILLIAM TRENT INVOICE TO THE CROWN, AUGUST, 1763.

*TESTIMONY OF DR. BLACKBURN'S AGENT, GODFREY JOSEPH HYAMS.



WAS BECAUSE THE DELAWARE INDIANS WERE ALREADY SUFFERING THE RAVAGES OF EUROPEAN SMALLPOX.

"... SO HE COULD STEAL THE INFECTED CLOTHING, SMUGGLE THEM BACK TO THE U.S. AND SELL THEM AT AUCTION "... TO DESTROY THE ARMY AND EVERYONE IN THE COUNTRY."***







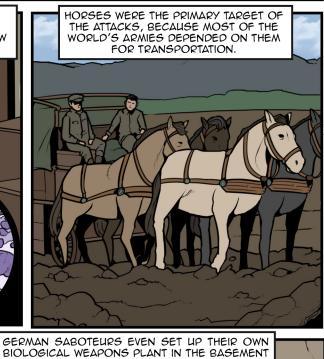


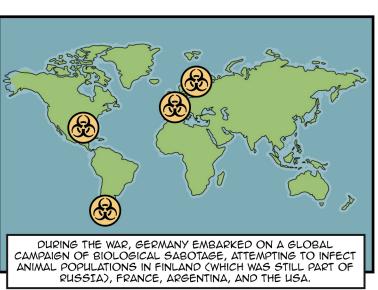




ANTHRAX

MANY COUNTRIES EXPERIMENTED WITH MICROBES, INCLUDING IMPERIAL GERMANY. UNLIKE PREVIOUS GUESSWORK, IT WAS BASED ON HARD SCIENCE, USING FACT-BASED RESEARCH, TO GROW WEAPONIZED BACTERIA.



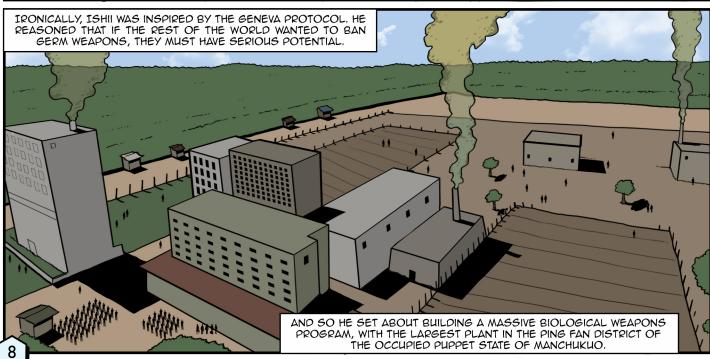


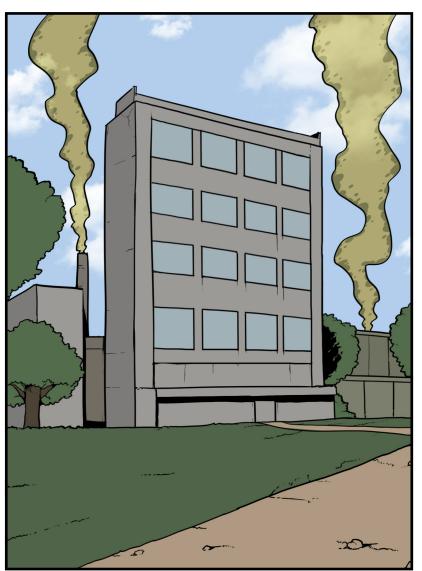
PSEUDOMONAS MALLEI

























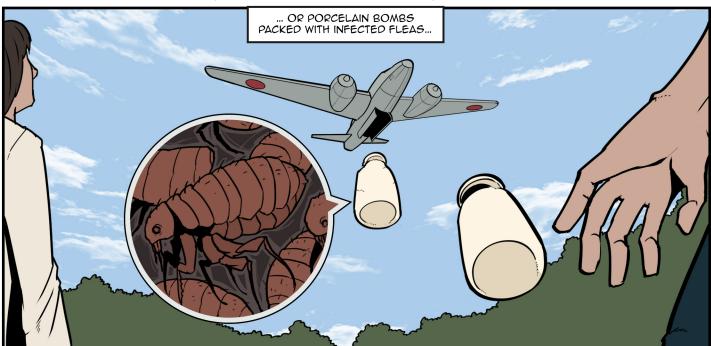


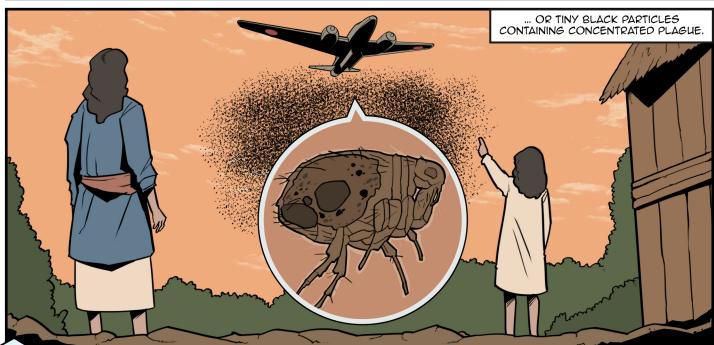




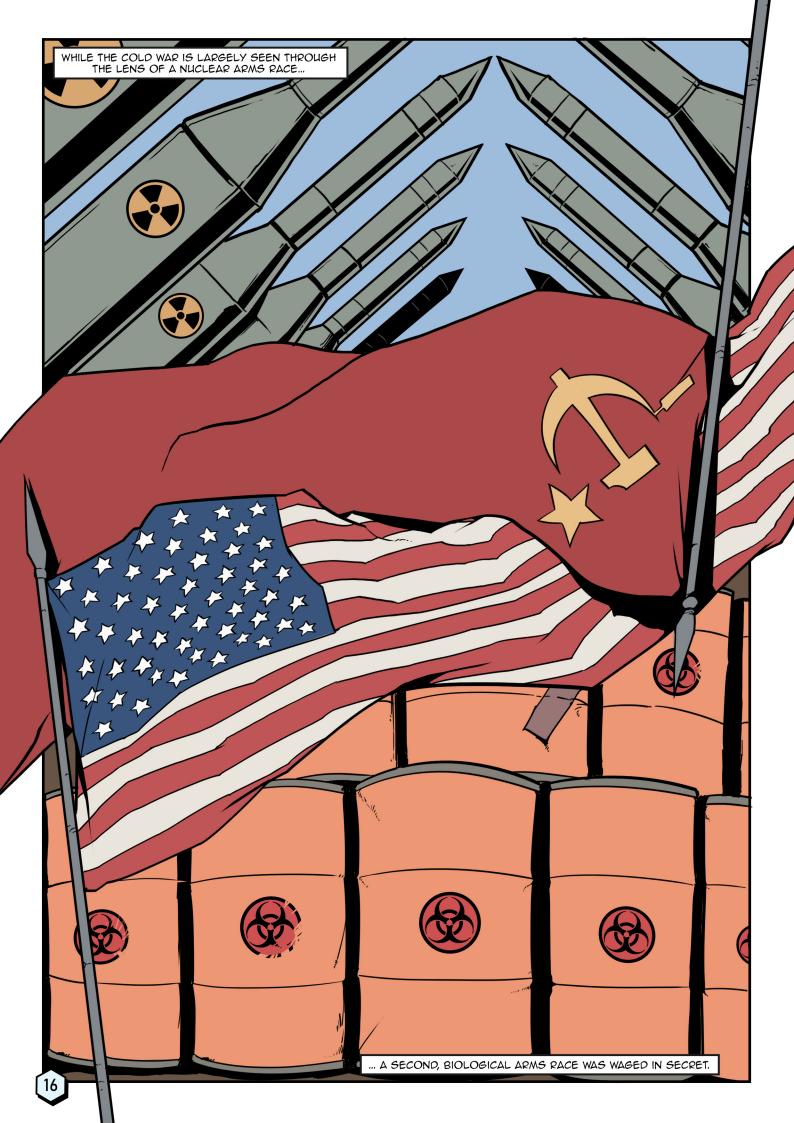


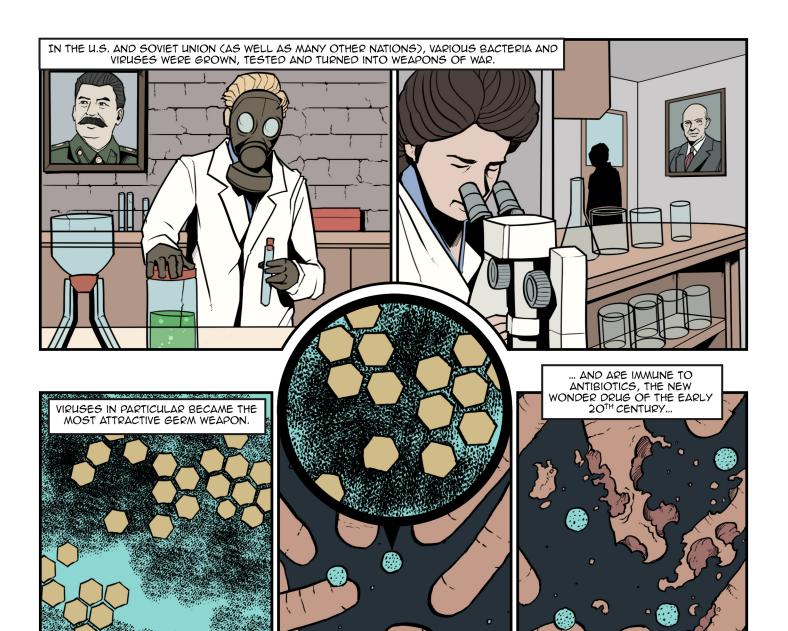






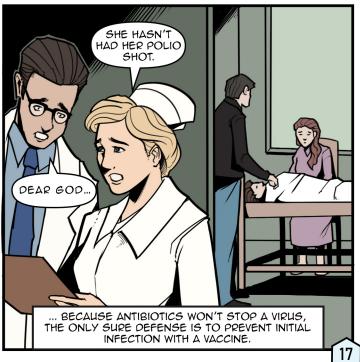


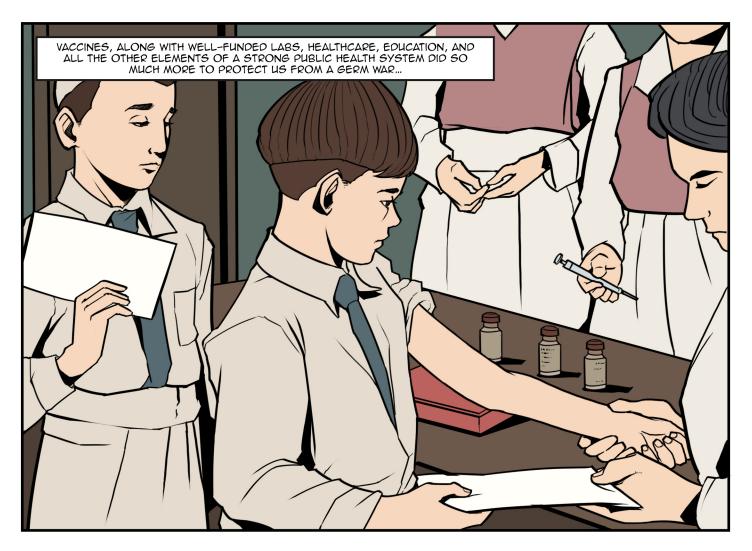




BECAUSE THEY ARE SMALLER THAN BACTERIA, AND CAN SNEAK INTO HUMAN CELLS BEFORE OUR IMMUNE SYSTEM DETECTS THEM...

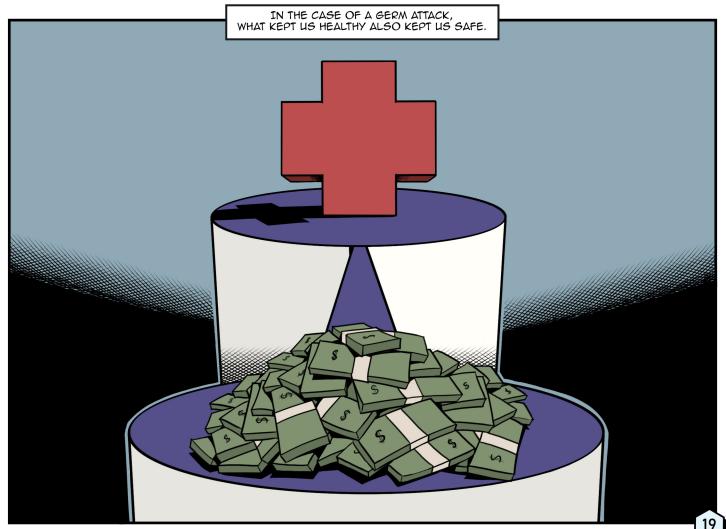


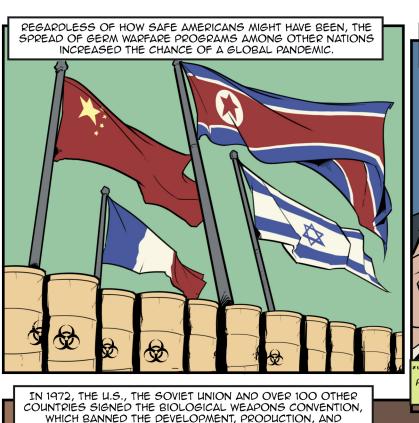


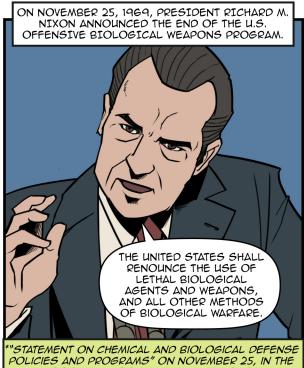




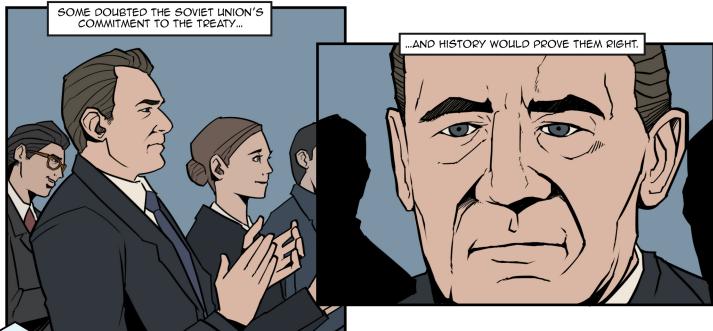


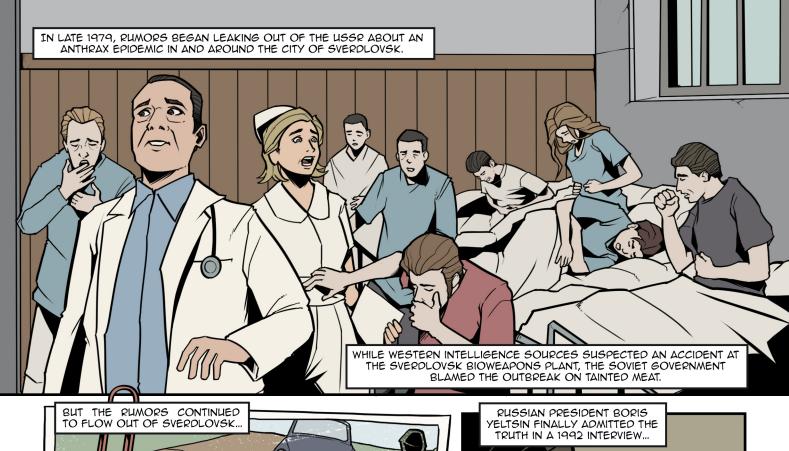


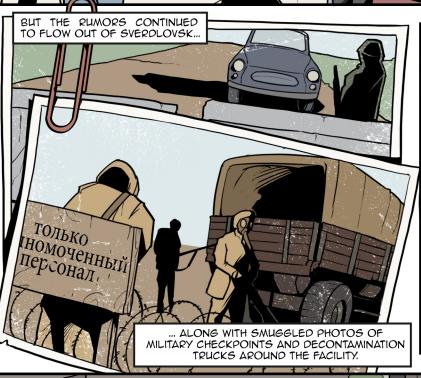




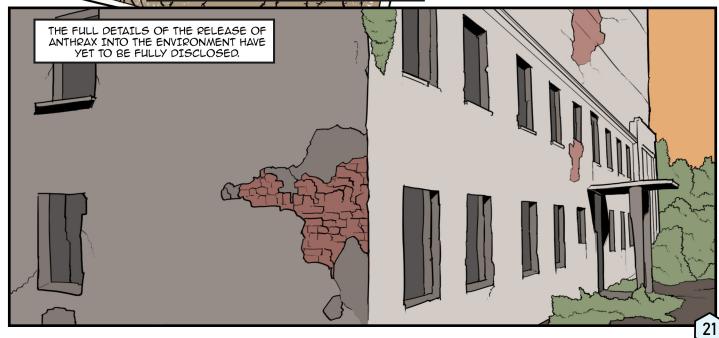








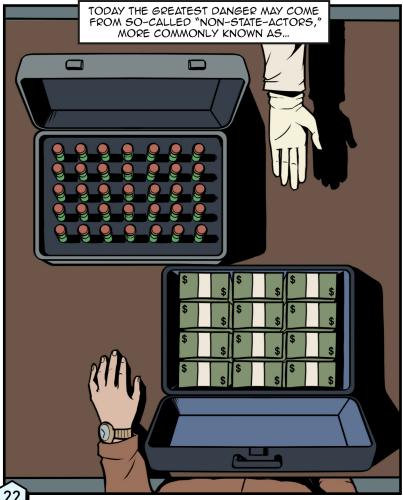




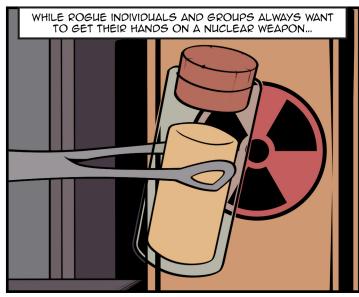
AND WHILE RUSSIA REFUSES TO LET THE U.S. INTO SOME OF THEIR BIOLOGICAL RESEARCH FACILITIES, INSISTING (THE WAY THE U.S. DOES) THAT THEIR BIOLOGICAL PROGRAM IS PURELY DEFENSIVE...

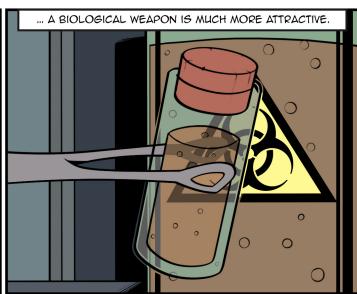


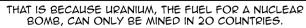




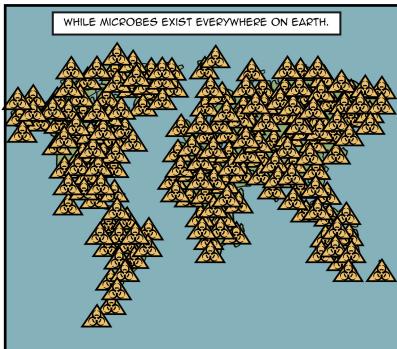


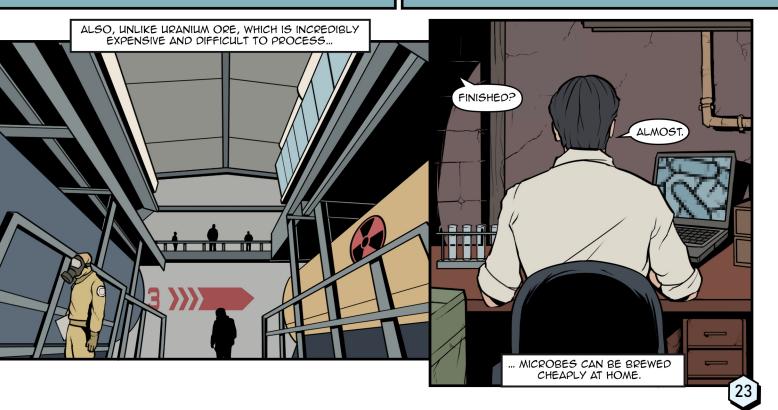






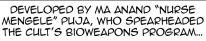




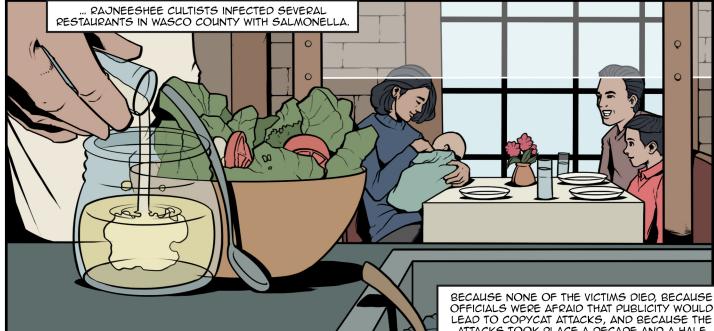












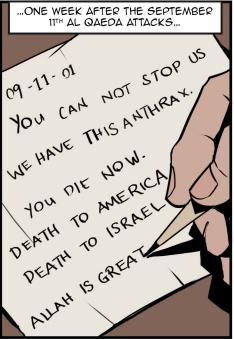


BECAUSE NONE OF THE VICTIMS DIED, BECAUSE
OFFICIALS WERE AFRAID THAT PUBLICITY WOULD
LEAD TO COPYCAT ATTACKS, AND BECAUSE THE
ATTACKS TOOK PLACE A DECADE AND A HALF
BEFORE SEPTEMBER 11TH, THE RAJNHEESHEES
WERE CHARGED AS CRIMINALS, NOT TERRORISTS.
MOST OF THE CONSPIRATORS WERE GIVEN LIGHT
SENTENCES WHILE RAJNEESH HIMSELF (WHO, TO
HIS DEATH, PLEADED INNOCENCE) WAS SIMPLY
ASKED TO LEAVE THE UNITED STATES.

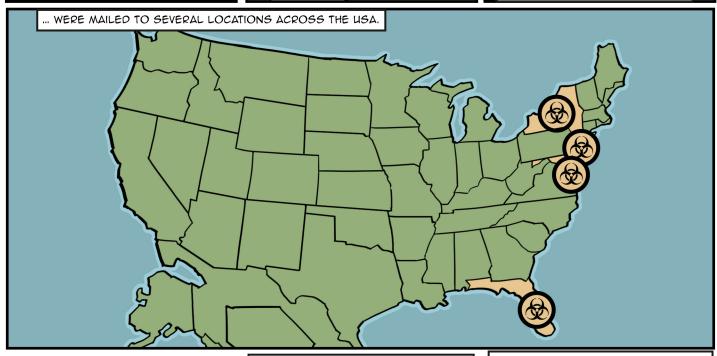


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TWENTY-TWO PEOPLE WERE SICKENED IN THE ATTACKS. OF THESE, FIVE PEOPLE, INCLUDING TWO POSTAL

THE FBI AMERITHRAX INVESTIGATION EVENTUALLY LED TO DR. BRUCE EDWARDS IVINS, AN AMERICAN MICROBIOLOGIST WORKING FOR THE U.S. ARMY AT FT. DETRICK. BEFORE IVING COULD BE OFFICIALLY CHARGED, HE COMMITTED SUICIDE IN 2008.



AS FORMER WHITE HOUSE PRESS SECRETARY, SCOTT MCCLELLAN STATED IN HIS MEMOIR: "I KNOW PRESIDENT BUSH'S THINKING WAS DEEPLY AFFECTED BY THE ANTHRAX ATTACKS."



"HE WAS DETERMINED NOT TO LET ANOTHER TERRORIST ATTACK HAPPEN ON HIS WATCH AND TO CHALLENGE REGIMES BELIEVED TO BE SEEKING WEAPONS OF MASS DESTRUCTION."



CRITICS OF PRESIDENT BUSH CHARGE THAT THE BIOTERPORIST THREAT WAS USED TO MANIPULATE THE AMERICAN PEOPLE INTO SUPPORTING THE IRAQ WAR, WHILE HIS DEFENDERS CLAIM THAT INTELLIGENCE REPORTS ASSESSED THAT SADDAM HUSSEIN HAD BIOLOGICAL WEAPONS OF MASS DESTRUCTION.



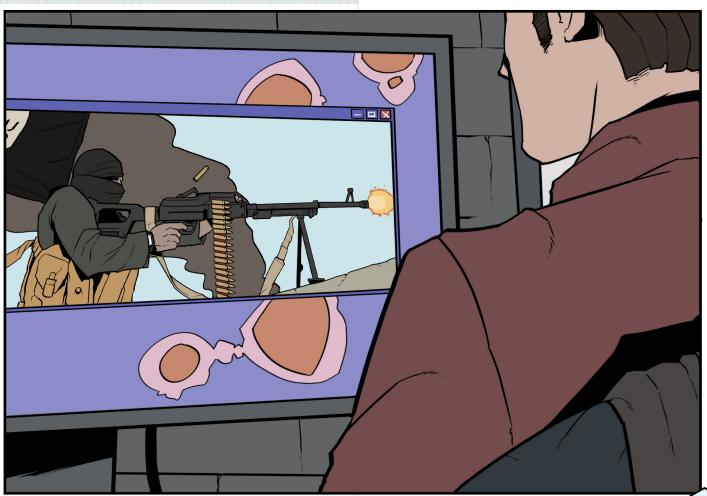
... NO BIOLOGICAL (OR CHEMICAL OR NUCLEAR) WEAPONS WERE EVER FOUND BY U.S. FORCES OR UNITED NATIONS INSPECTORS IN IRAQ.



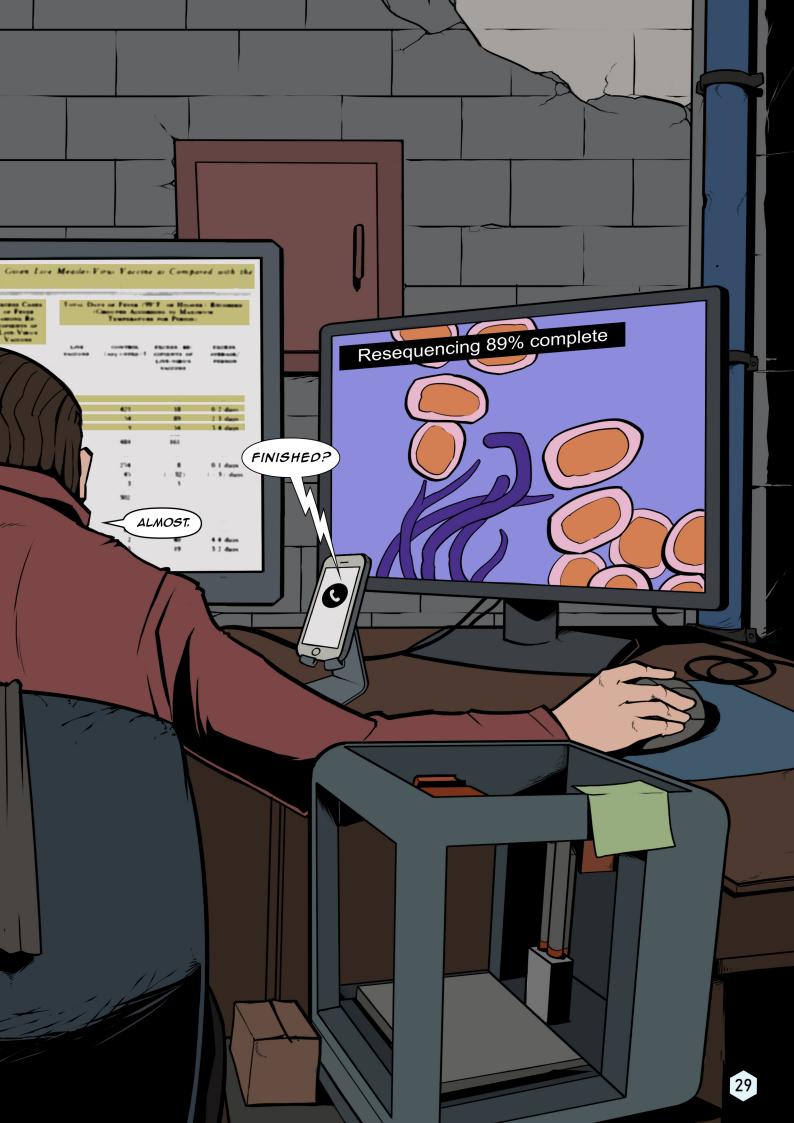


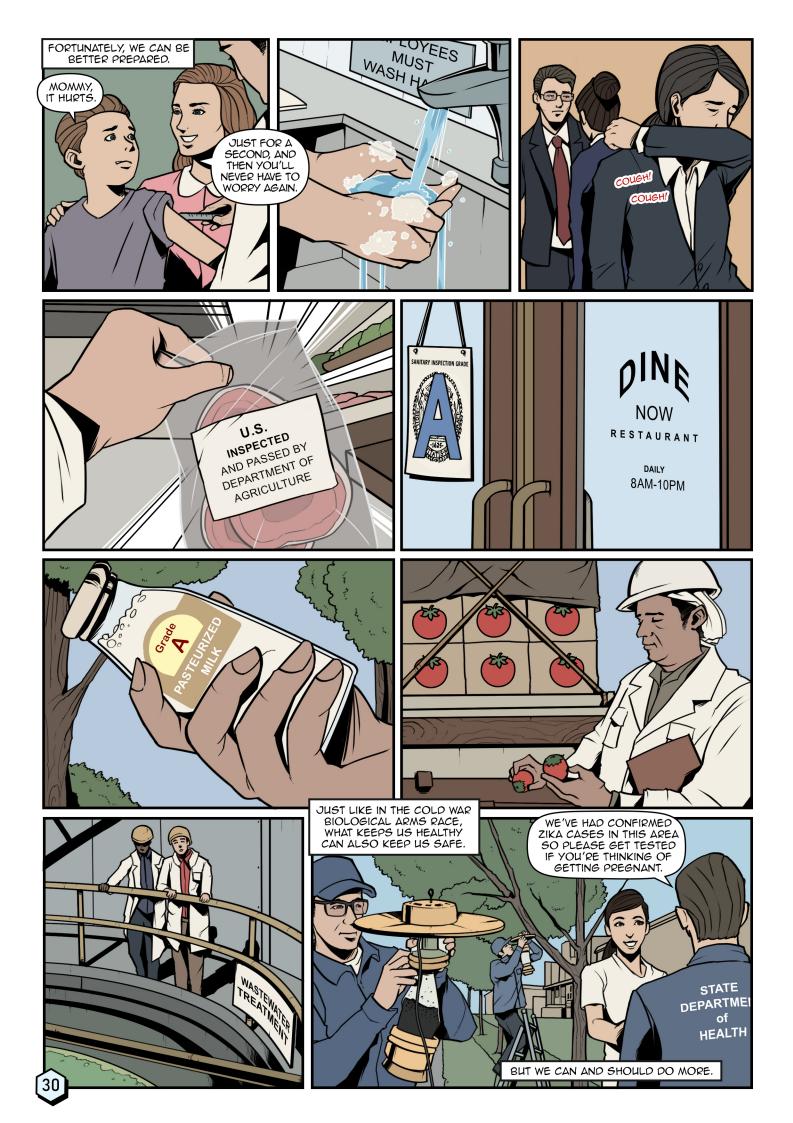










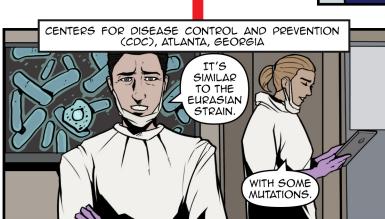


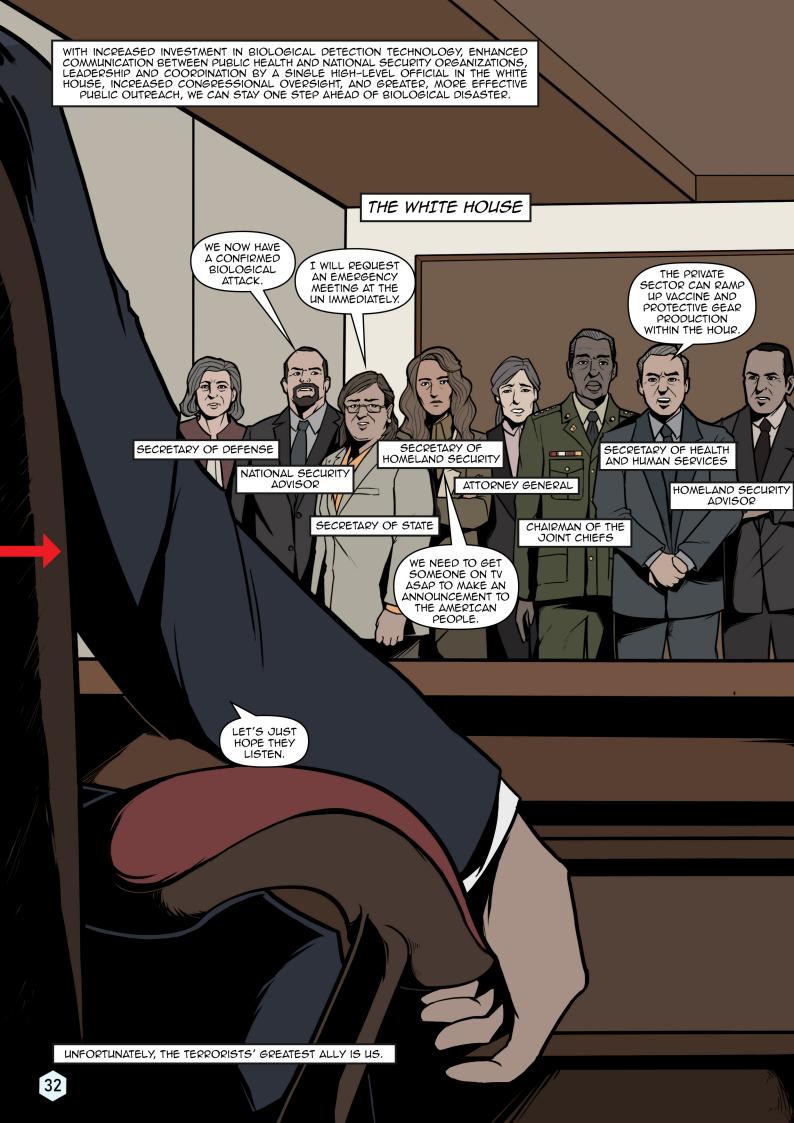


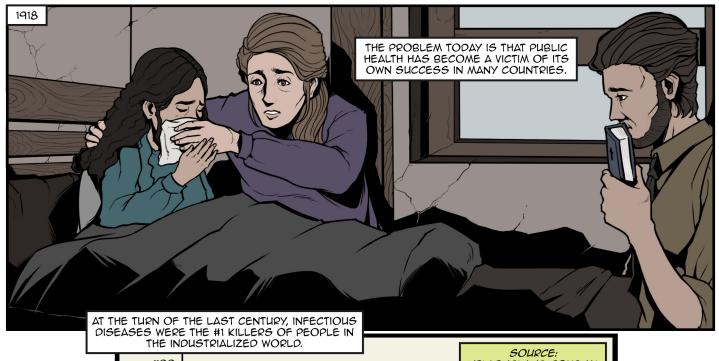


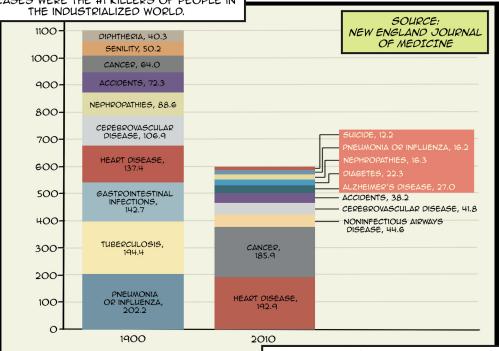


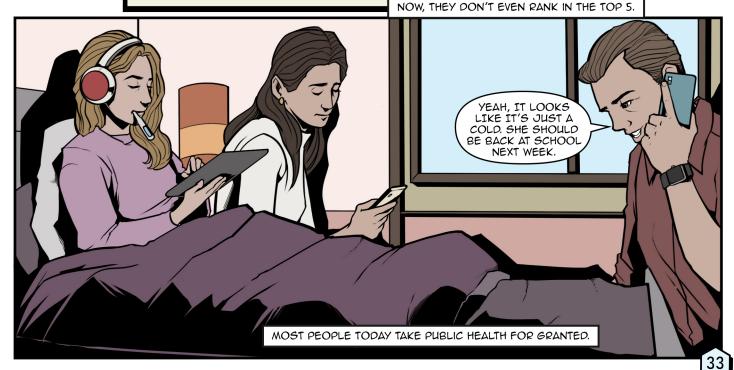










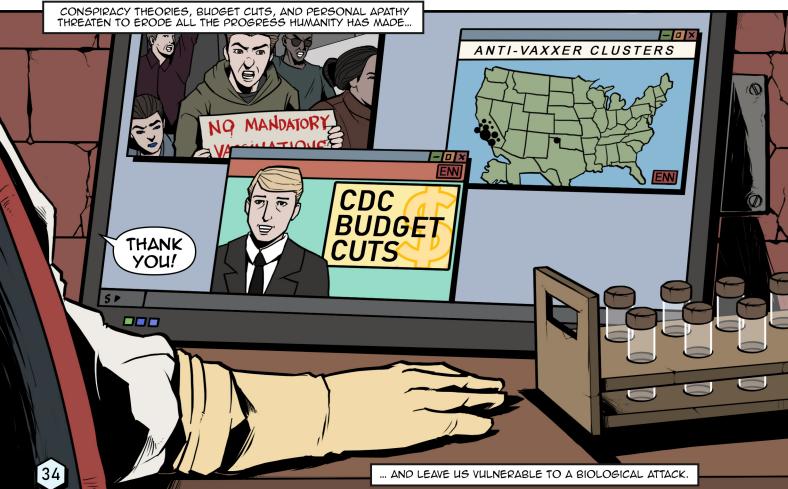


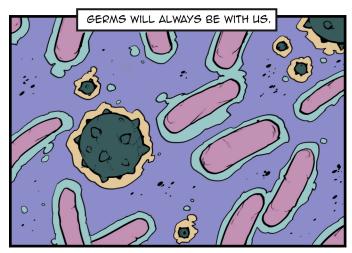






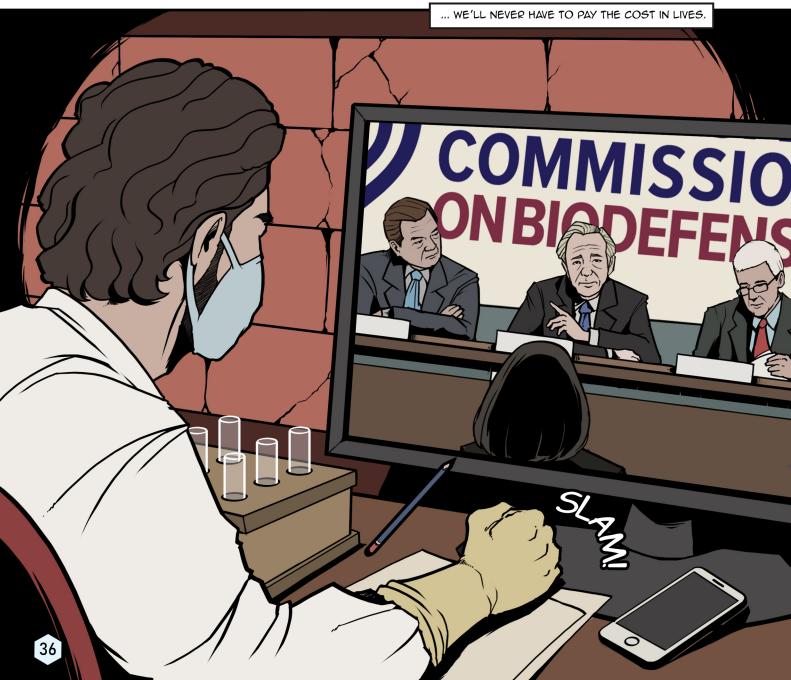


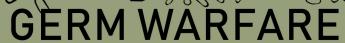












A Very Graphic History

Germs. They are too small to see with the naked eye, but they have killed more human beings than all the wars in history.

Before humans even knew that germs caused disease, they knew disease could be a weapon of war.

"Germ Warfare" traces the long, brutal story of those microscopic weapons. From the infected arrows of Bronze Age archers, to the plague factories of World War 2, up through the biological arms race of the Cold War into our modern age of genetically manipulated terrorism.

This graphic history is both a lesson from the past and a warning for the future. It reminds us never to take public health for granted, because we never know when, or how, the next pandemic will rise.



AUTHOR

Max Brooks is the author of the novels "World War Z," "Minecraft: The Island" and the graphic novel "The Harlem Hellfighters". He is a non resident fellow at the Modern War Institute at West Point and the Atlantic Council's Brent Scowcroft Center for Strategy and Security.



BIPARTISAN The Bipartisan Commission on Biodefense was established in 2014 to U.S. comprehensively assess biodefense efforts and ONBIODEFENSE recommendations to foster change. The Commission's 2015 report, A National Blueprint for Biodefense: Leadership and Major Reform needed to

Optimize Efforts, identified capability gaps and recommended changes to U.S. policy and law to strengthen national biodefense while optimizing resource investments. Former Senator Joe Lieberman and former Governor Tom Ridge co-chair the Commission, and are joined by former Senate Majority Leader Tom Daschle, former Representative Jim Greenwood, former Homeland Security Advisor Ken Wainstein, and former Homeland Security and Counterterrorism Advisor Lisa Monaco. Hudson Institute is the Commission's fiscal sponsor.



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