



BARDA INDUSTRY DAY



Tyler Merkeley
DRIVE Director (Interim)
October 29, 2018

October 29-30, 2018 | Grand Hyatt • Washington, D.C.





SAVE LIVES, PROTECT AMERICANS.



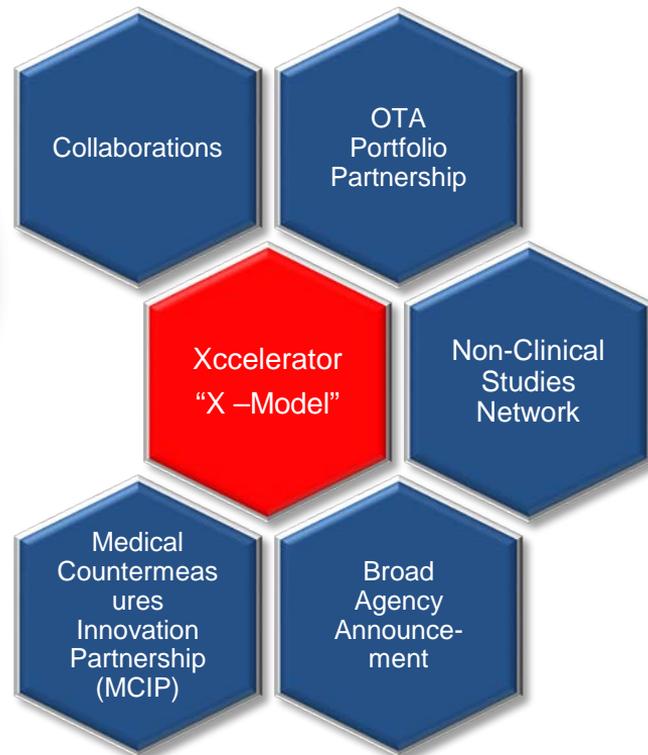
Saving Lives. Protecting Americans.

BARDA Seeks Innovation in Science and in the Way We Do Business

CARB-X
Combating Antibiotic Resistant Bacteria



DRIVE
Transforming Health Security



ASPR
ASSISTANT SECRETARY FOR
PREPAREDNESS AND RESPONSE



Saving Lives. Protecting Americans.



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Our Guiding Principles





Response Framework

Situational Awareness/Recognize

How do we know something is happening, an agent has entered the community?

Design

How do we stop the spread of the disease? Drugs, vaccines, PPE, social distancing?

Produce

On demand manufacturing of X.

Administration

everyone who needs X is provided.



Identification/Characterize

What is it, is it drug resistant, are certain subpopulations more susceptible, will it become an epidemic?

Validate

Methods under design are evaluated, clinical trials, non-clinical trials, epidemiology, surveillance.

Distribute

novel ways to get product/information to those who need it.





Impact Areas



DRIVE is looking for new approaches, innovative clinical management strategies, detection technologies, diagnostic platforms, and application of biological indicators (chemical, physical, molecular, immunological, serological), and diagnostics. Opportunities could include non-dilutive funding and/or dilutive funding through DRIVE Launch or DRIVE Ventures.



ENACT

Early Notification to Act, Control, and Treat

- Infectious disease agents such as influenza are a significant threat to health security
 - CDC estimates that influenza infections have led to up to 710,000 hospitalizations and up to 56,000 deaths annually since 2010
 - A pandemic strain could cause millions more deaths
 - Novel diseases can spread in communities, undetected
- Late, or no diagnosis prevents best use of medications contributes to spread of infectious diseases in communities, and delays in public health response in an emergency



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Early, Actionable Information is Needed

- Empower patients & healthcare providers
- Reduce impact
- Reliable data to inform outbreak response
- Bring innovation into the home and on the person





SOLVING SEPSIS

In the event of a bio attack or pandemic, all roads potentially lead to sepsis.



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Why is DRIVE taking on Sepsis?

MORBIDITY

**1.7
Million**

each year in
U.S.

CDC.gov

MORTALITY

>270,000

Americans die
each year

>80,000

are discharged
to hospice

MANAGEMENT

1:3

patients who die
in hospital have
sepsis

ECONOMIC BURDEN

responsible for
nearly

**\$24
Billion**

Annually
(6.2% of hospital costs)





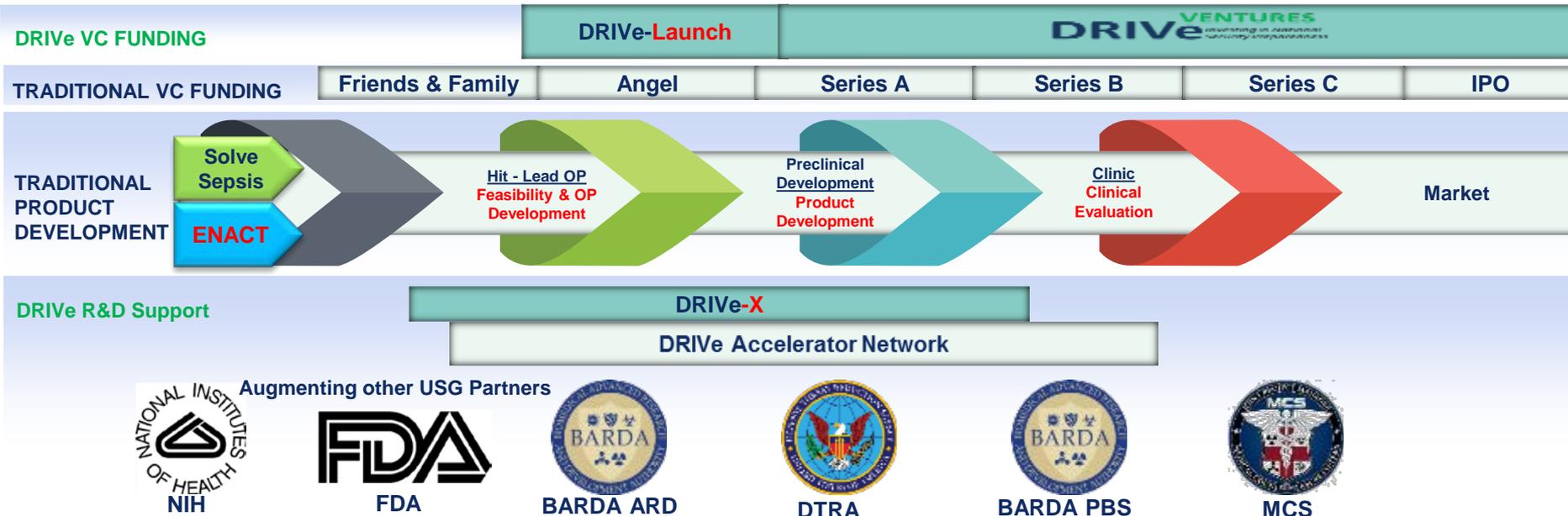
Our goal is to transform health security innovation to protect Americans from 21st-century health security threats.

DRIVE IS A BOLD NEW APPROACH TO THE POWER OF COLLABORATION AND INNOVATION.



Saving Lives. Protecting Americans.

Bringing It All Together



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WILL YOU BE

POWERED BY

DRIVE



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