



U.S. Leadership for a Pandemic-Free Future

Technologies to End Biological Threats

PREVENT OUTBREAKS




 Comprehensive laboratory biosafety


 Technologies to deter & prevent bad actors (biological attribution, microbial forensics)

IDENTIFY THREATS EARLIER



 Ubiquitous (metagenomic) sequencing

 Digital pathogen surveillance

 National pathogen surveillance & forecasting center

DETECT INFECTIONS FASTER



 Point of person diagnostics


 Non-invasive detection


 Pan-pathogen detection

PROTECT PEOPLE BETTER



 Next gen PPE


 Pathogen-proof structures and transport


 Vaccine candidates for prototype pathogens

SAVE LIVES



 Multi-pathogen therapeutic drugs

 Flexible and scalable manufacturing of pharmaceuticals

 Needle free methods for drug and vaccine administration