











OOK ELEMENTARY

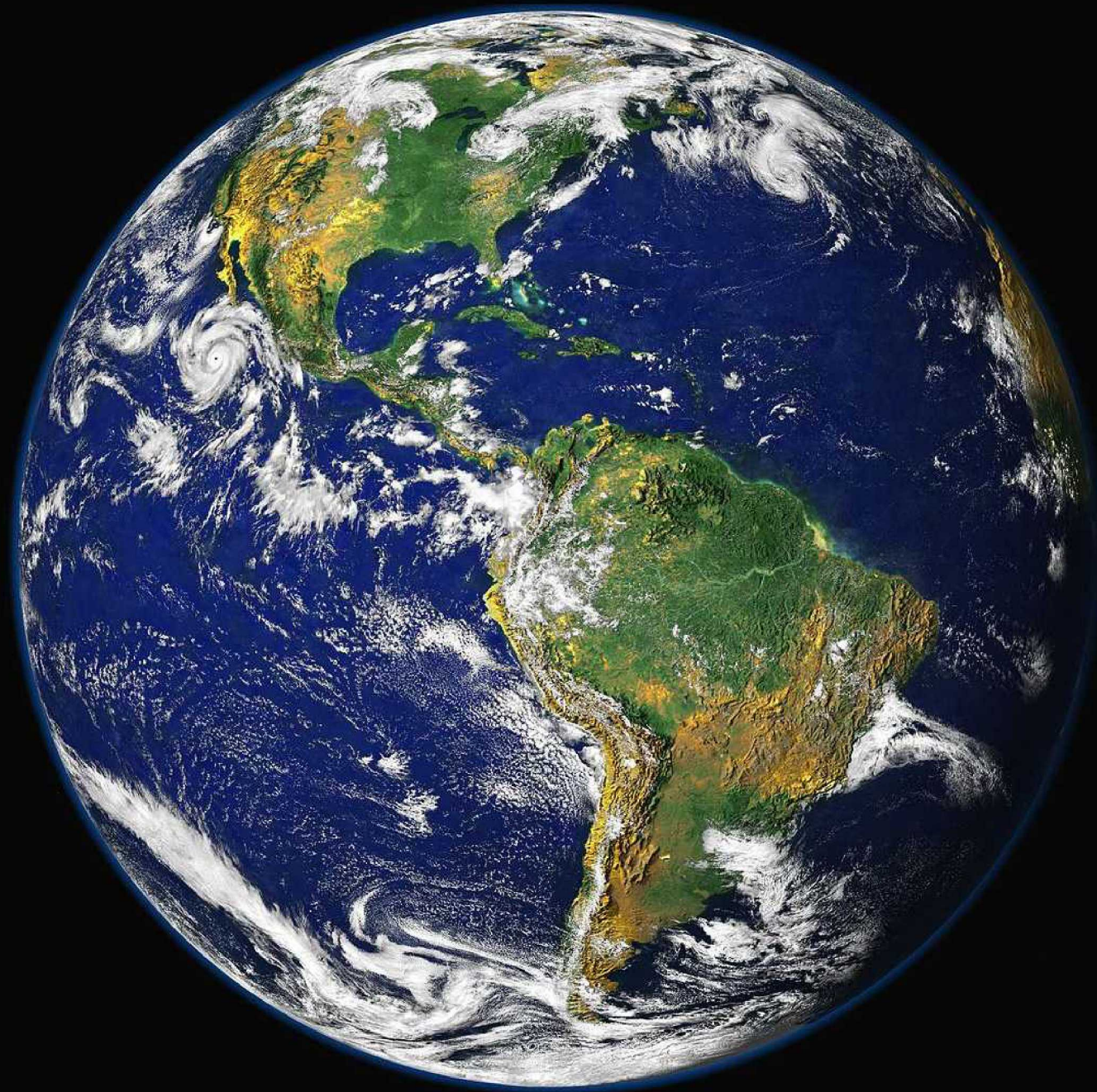






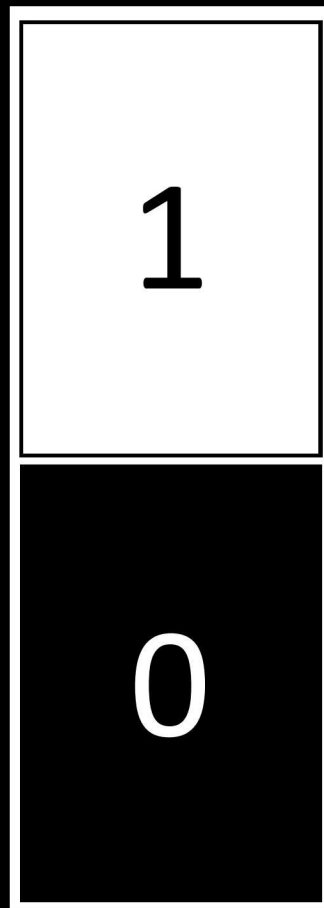






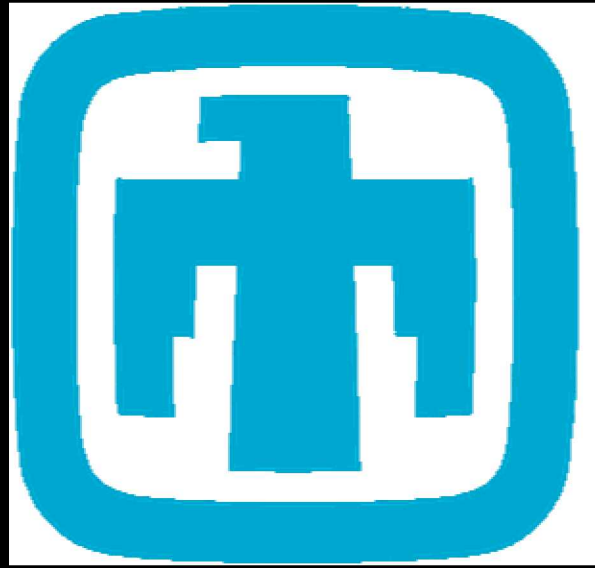






$1/10^{10}$
per day





PROVIDING TECHNICAL EXPERTISE TO
HELP CITIES
BETTER ADDRESS THE INCREASING SHOCKS AND STRESSES
OF THE 21ST CENTURY.



ENERGY



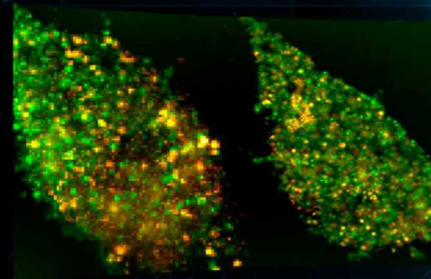
RISK ANALYSIS



WATER



WASTE



MEDICAL



TRANSPORTATION



FOOD



EMERGENCY
RESPONSE



ECONOMY



PSYCHOLOGICAL /
COGNITIVE EFFECTS

THE ROCKEFELLER FOUNDATION
100 RESILIENT CITIES
CENTENNIAL CHALLENGE



SANDIA REPORT

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Leveraging Formal Methods and Fuzzing to Verify Security and Reliability Properties of Large-Scale High-Consequence Systems

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Sandia National Laboratories

Confront Catastrophe Confidently

(C³)

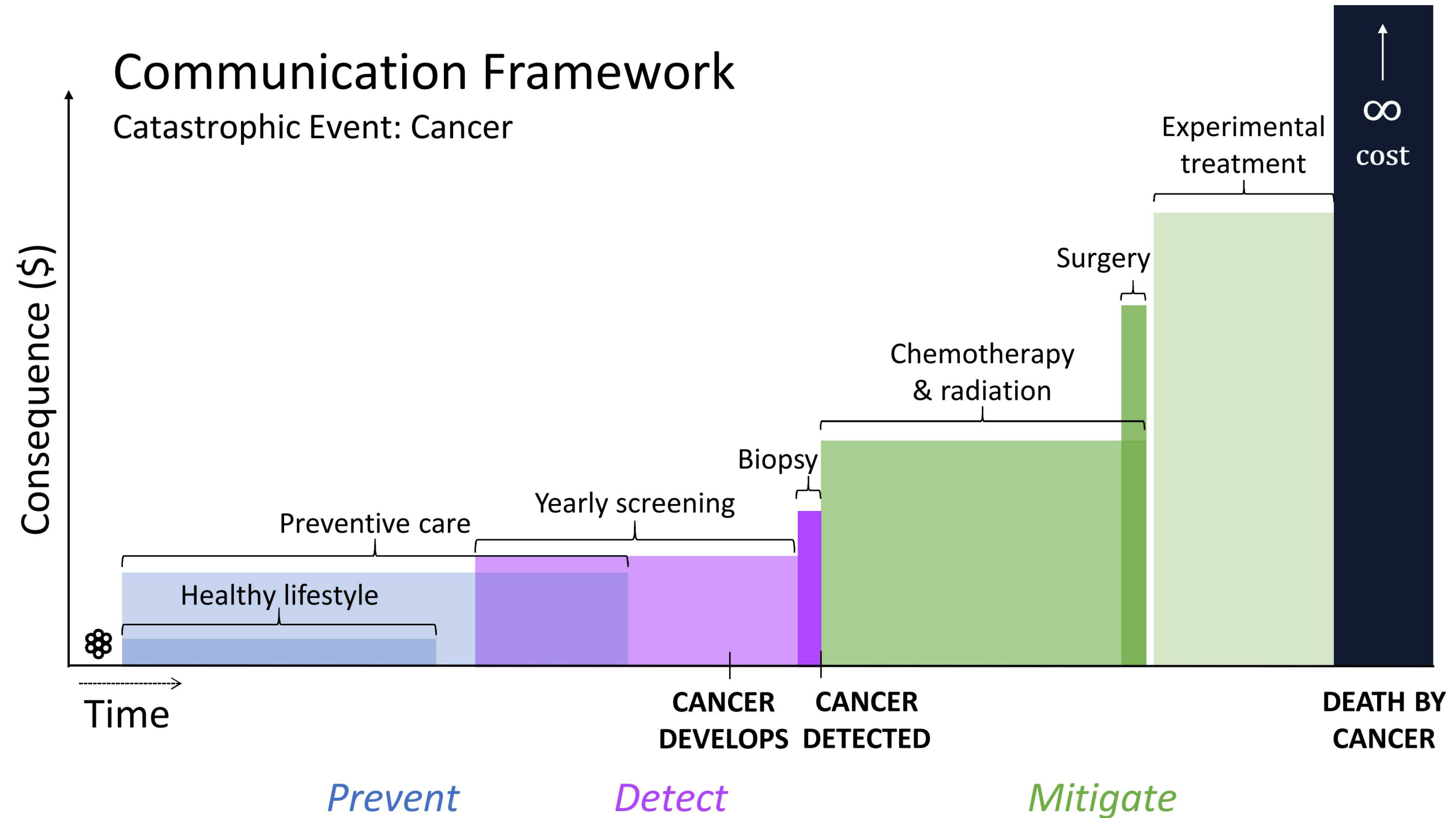
Prevent

Detect

Mitigate

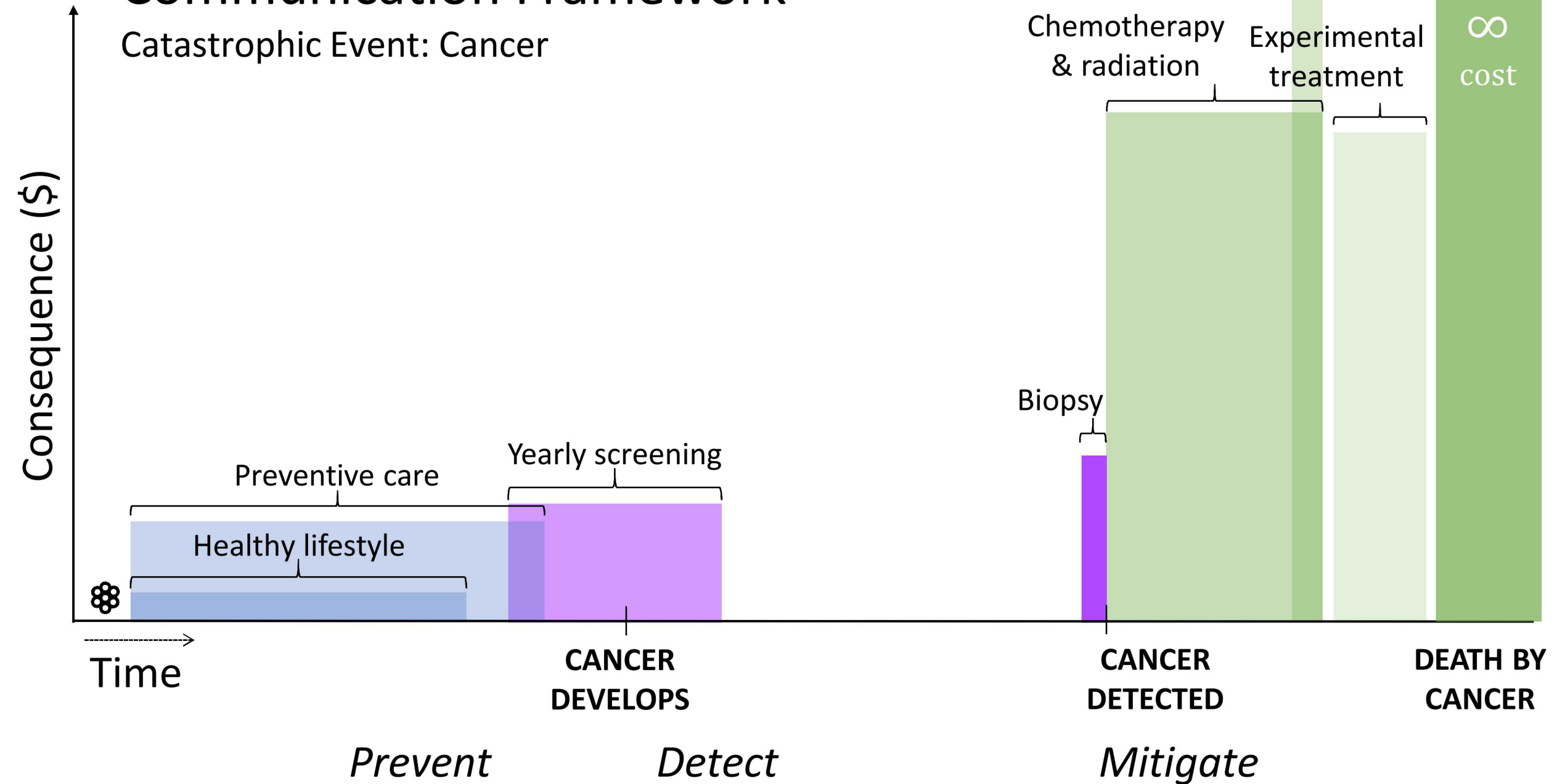
Communication Framework

Catastrophic Event: Cancer



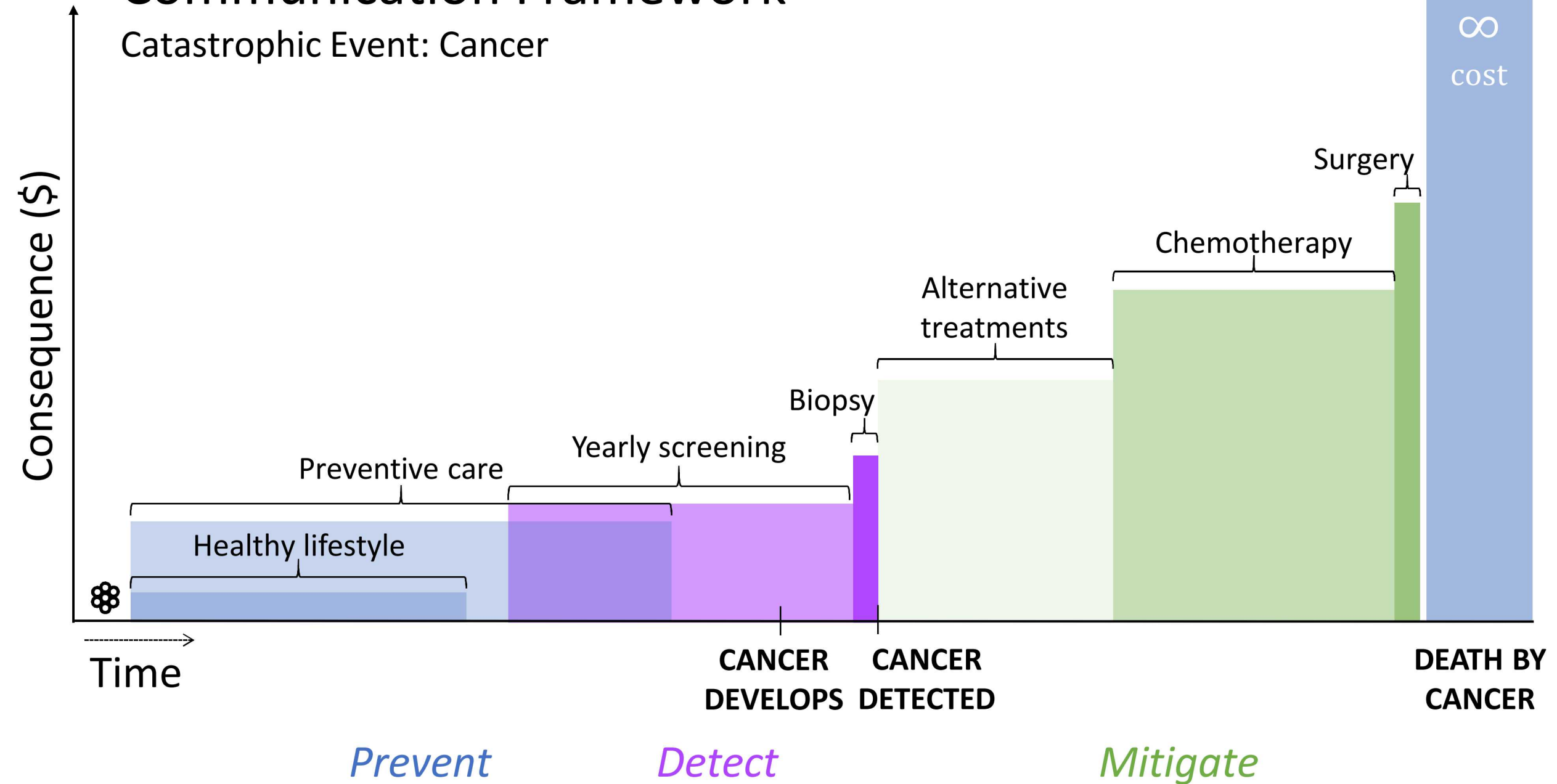
Communication Framework

Catastrophic Event: Cancer



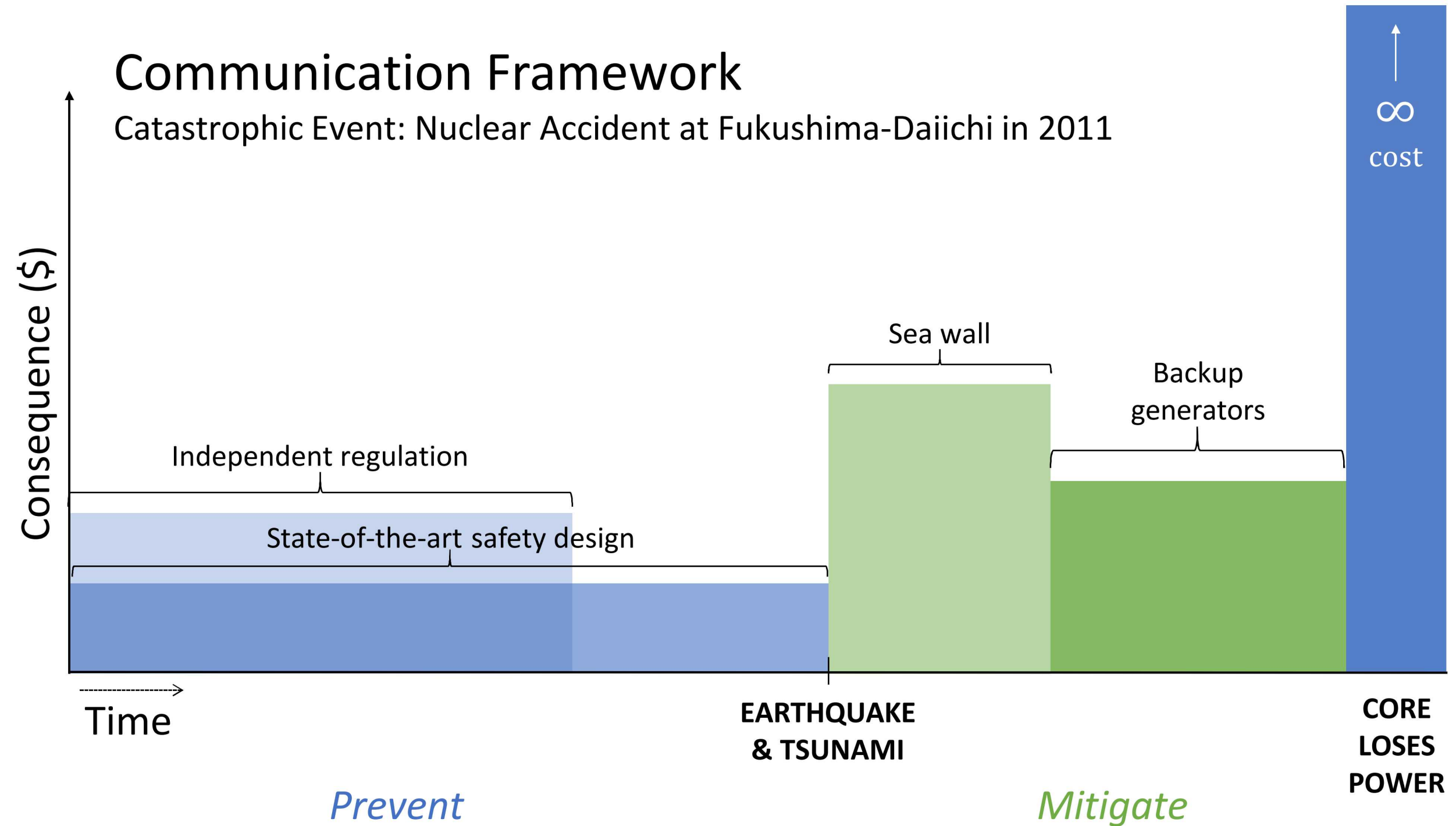
Communication Framework

Catastrophic Event: Cancer



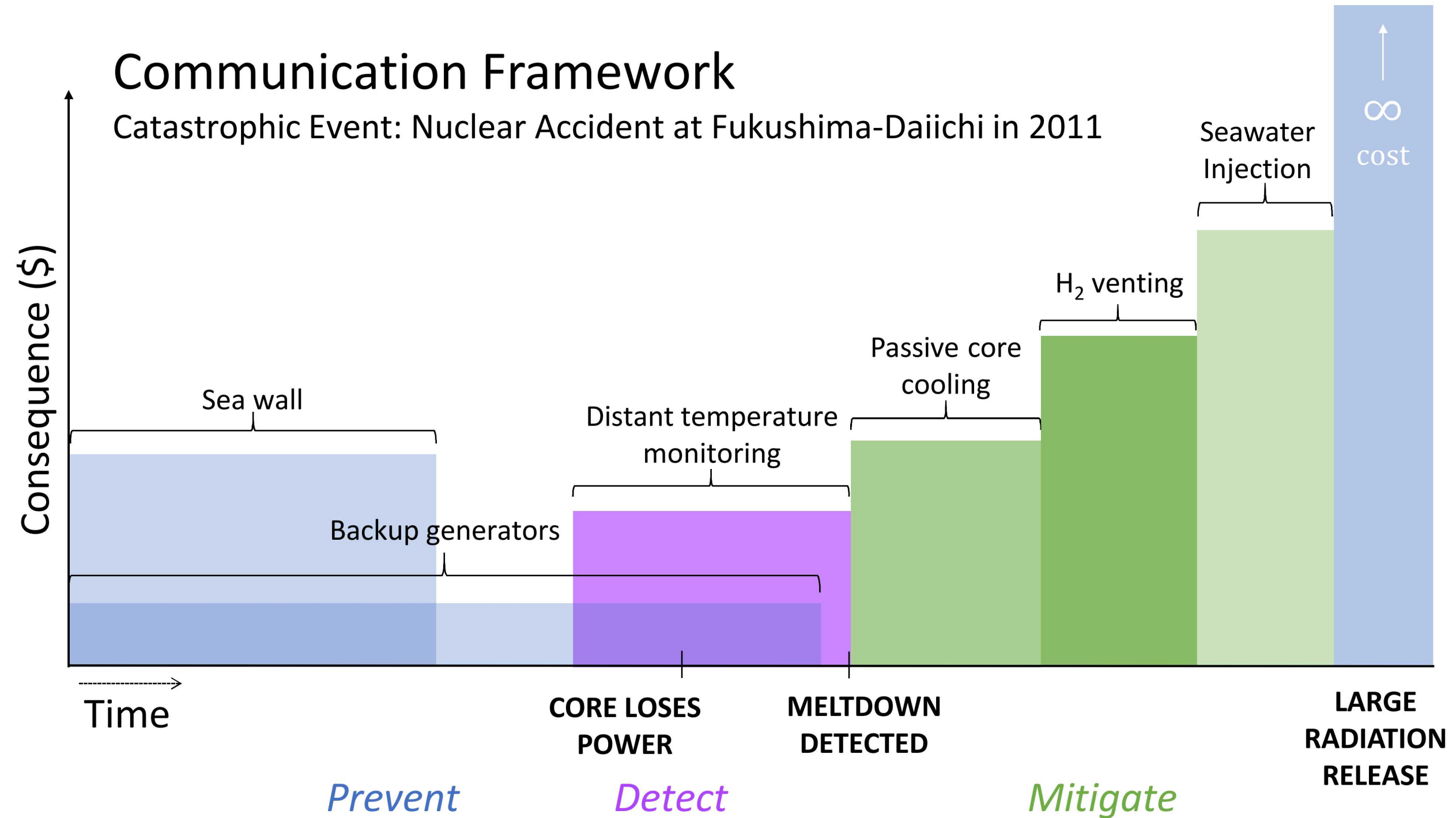
Communication Framework

Catastrophic Event: Nuclear Accident at Fukushima-Daiichi in 2011



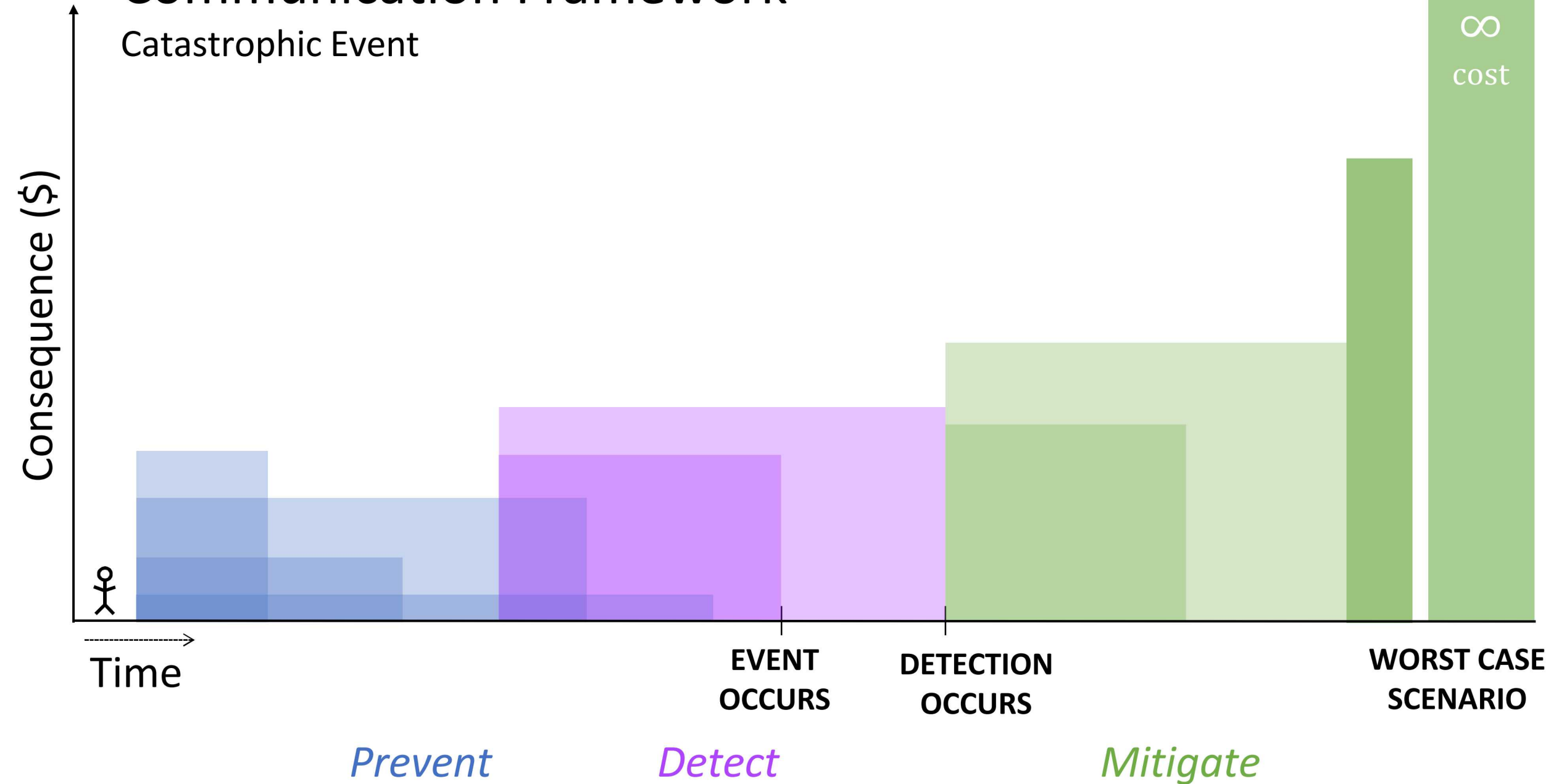
Communication Framework

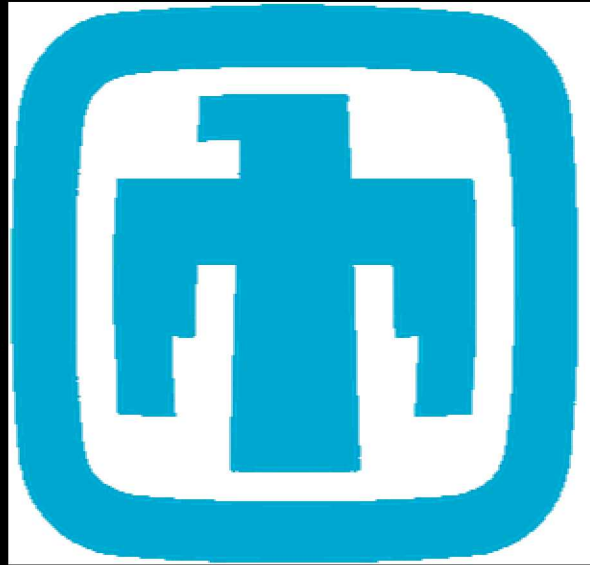
Catastrophic Event: Nuclear Accident at Fukushima-Daiichi in 2011



Communication Framework

Catastrophic Event







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