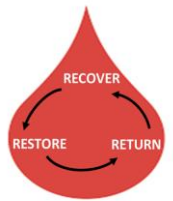


Revolutionizing Warfighter Survivability: MACE™ System

Military Advanced Circulatory Emergency (MACE™) System

“When Every Drop of BLOOD Matters”



Conceptualized, patented, prototype built and tested by decorated SOF Medic (Tom Bozzay, Lazarus Technologies).
*Tom designed this life-saving system to **change non-survivable deaths into survivable field care** to help prevent the death of **warfighters like Spc. Stephan Mace**, for whom this system is named. **By warfighters to save warfighters.***

Problem:

- **Uncontrolled bleeding is the leading cause of preventable battlefield death**
- Non-compressible bleeding (chest, abdomen) has limited field treatment
- Advanced field interventions are severely limited with regard to size, ruggedness, and training expertise

Near-peer conflicts will significantly increase rates of battlefield injury & death, posing serious challenges to military medical operations & casualty care

Working Solution: MACE™ System

- **Recover:** Patient's own blood is recovered for return to them
- **Restore:** Filter, oxygenate, warm, prepare for return
- **Return:** Patient's own blood sustains them with limited to no donor blood

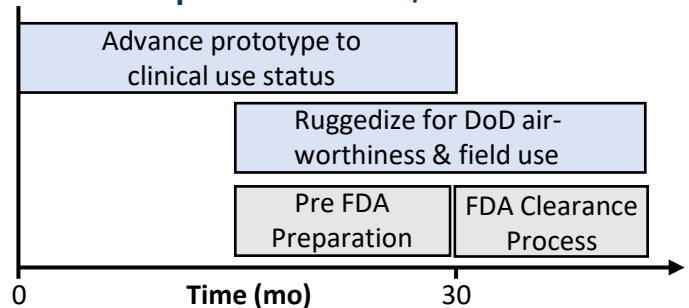


Benefits:

- Minimizes preventable death, reduces logistics of donor blood and reduces commander risk
- Prolongs survival until MEDEVAC
 - **80x less donor blood required**
 - **6x smaller, portable, designed for austere use**
 - **Provides warming/hypothermia intervention**
- **Estimate of anticipated lives saved** in large-scale combat operations: **>200,000 American lives**

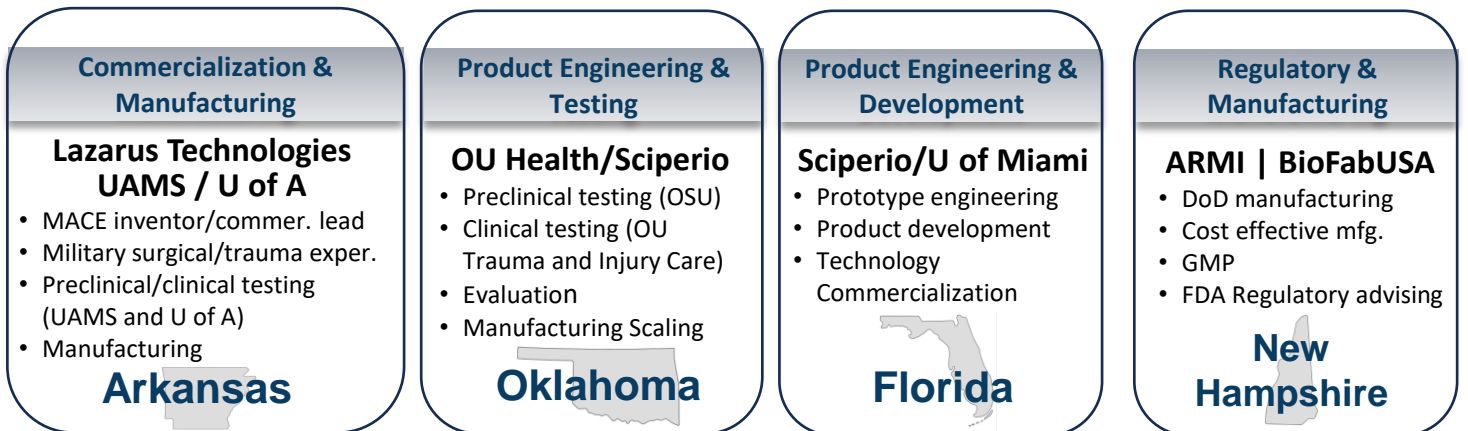
*Beneficial utility across the spectrum of military trauma care:
Medic/Field Care → Critical Care Transport*

Path Forward, Timeline, & Requested Funds: \$20M



Strong & broad military support for lifesaving, fieldable device – “This is the future of combat casualty care”

Lazarus Technologies - bringing together the MACE Consortium to serve the warfighter.



Collective achievements include:

successfully commercialized technologies • multiple medical support deployments • created bioprinter on ISS • serves as DoD Manufacturing Institute for biomedical technology
• >45 combined years technology development with DoD (DARPA, Army, USAF) and HHS (NIH, FDA, BARDA)