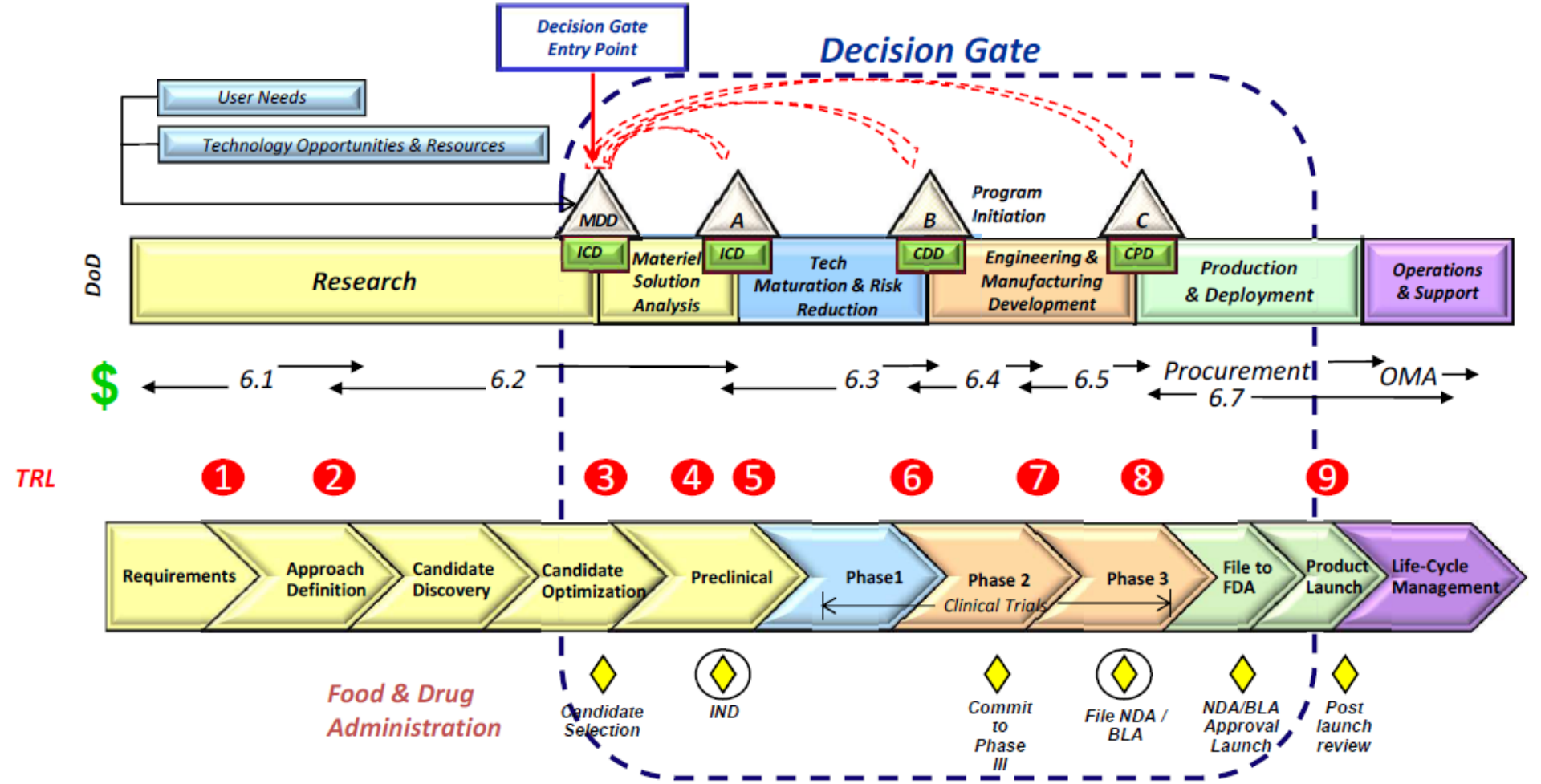
MRDC Decision Gate (Stage Gate) Process



Medical Gaps

Medical Readiness

- Future Vertical Lift Medical Advanced Technology
- Blast & Head Impact Exposure Monitor (Injury Criteria for Informing Development of New Tactical Headborne Systems)
- Musculoskeletal Injury Screening Tool (Leader and Medical Provider Tools to Prevent and Reduce Musculoskeletal Injury in all Settings)
- Far Forward Behavioral Health Care
- Expeditionary Performance Nutrition (Medical Strategies to Sustain Soldier Alertness & Performance in all Settings)
- Physiological Chemical Toxicity Assessment System (Solutions to Sustain Warfighter Performance in Extreme Environments)

Prolonged Field Care

- Prophylactic to Prevent Infection in Battlefield Wounds
- Enabling Medical Capabilities to Support Dispersed Operations
- Battlefield Sustainment of Critical Organ Function Cap Set 1
- Improved Bone Repair Advanced Technology

Severe Burns

- Rapid Burn Injury Treatment and Return to Duty Cap Set 1

Blood and Blood Products

- Next Generation Human-Derived Blood Replacement

Tactical Combat Casualty Care

- Tactical Combat Casualty Stabilization System Cap Set 1

Brain Trauma

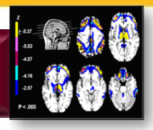
- Drugs to Prevent and Treat Brain Injury

Medical Readiness/ Infectious Diseases

- Rapid Diagnostic & Detection Devices
- Prophylactic for Endemic Diarrheal Diseases

USAMRDC Direct Reporting Units

WRAIR
Forest Glen, MD



Walter Reed Army Institute of Research

- Infectious Diseases: Parasitic, Bacterial, Viral, Vector Control
- Brain Health: TBI, Clinical Psychology Disorders, Fatigue, Cognitive Health and Performance
- Behavioral Health, Wellness, and Resilience
- Blunt, Blast, and Accelerative Injury
- Human Performance Optimization/ Enhancement – Psychological
- Environmental Toxicant Exposure

USAARL
Ft. Rucker, AL

U.S. Army Aeromedical Research Laboratory

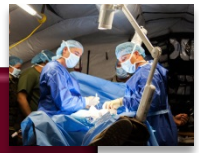
- Human Operator Health and Performance in Complex Systems
- Human Performance Optimization/ Enhancement – Cognitive
- Blunt, Blast and Accelerative Injury
- En Route Care Environment
- Crew Survival in Military Vehicles
- Medical Aspects of Directed Energy

USARIEM
Natick, MA

U.S. Army Research Institute of Environmental Medicine

- Musculoskeletal Injury
- Performance Nutrition and Weight Balance
- Human Performance Optimization/ Enhancement – Physiological

TATRC
Ft. Detrick, MD



Telemedicine and Advanced Technology Research Center

- TeleHealth
- Health Information Technology
- Medical Simulation and Training Systems
- Medical Intelligent Systems

USAISR
Ft. Sam Houston, TX

U.S. Army Institute of Surgical Research

- Hemorrhage, Shock, and Coagulopathy of Trauma
- Pain
- Pre-Hospital TCCC
- Endovascular Hemorrhage Control
- Prolonged Field Care
- Maxillofacial Trauma
- Extremity Trauma
- Ocular Trauma
- Burn Injury
- Medical Aspects of Directed Energy

Chemical and Biological Defense

USAMRIID
Ft. Detrick, MD

U.S. Army Medical Research Institute of Infectious Diseases

- Bacterial Diseases
- Viral Diseases
- Biological Toxins

USAMRICD
Aberdeen PG, MD

U.S. Army Medical Research Institute of Chemical Defense

- Traditional and Emerging Chemical Threats
- Biological Toxins

Program Management

USAMMDA
Ft. Detrick, MD

U.S. Army Medical Material Development Activity

- Develops FDA-approved medical solutions
- Manages new and updated SKOs and ASIOE
- Provide rapid operationalization of investigational or Emergency Use Authorization products when no FDA or feasible solution exists
- Conducts technology maturation, manufacturing, and development production, and fielding of medical solutions