

E-LifePod

“Hospital-to-Patient”
Personnel Transportation Pod



Technology overview:

Challenge: Extraction of unwell or injured personnel from hostile and austere environments where urgent clinical assessment, diagnoses and treatment is not possible because of traditional “Patient-to-Hospital” model.

Solution: SABRN’s E-LifePod Personnel Transportation Pod creates a “Hospital-to-Patient” model which will save lives by supporting an on-board Medic with several key capabilities.

Operational and Performance Capabilities:

- On-board two-way communication systems with Medical and Surgical teams using AR capability for clinical support.
- Diagnostic and monitoring capabilities including ultrasound and XR.
- On-board therapeutic capabilities including respiratory and cardiovascular support.
- Remote-control and/or autonomous navigation and transportation systems to expedite patient extraction.
- Long-term (years) energy capability without requiring recharging.
- State-of-the-art air purification systems.

Contact

Dr Abhilash (Abe) Chandra

BSc, MSc, MBBS/PhD, FRACS (Vasc/Gen), MBA, MAICD
Founder & Managing Director of SABRN Tech Pty Ltd

Email: abe.chandra@sabrntech.com
Phone: **+61 4341 44614**

Collaborations



Artificial Environment Simulations Pty Ltd (AES)

Advancing Medical, Surgical and OH&S Training



Technology overview:

Challenge: Current strategies for training Medical, Surgical, and OH&S procedures in austere or hostile environments are limited in scope, capability and capacity, and can result in significant gaps in skills.

Solution: The AES immersive VR, AR and MR technologies can complement current training, and significantly improve outcomes of Medical, Surgical, and OH&S procedures by using deep reinforcement learning principles and thereby increasing the likelihood of candidates achieving competency and maintaining currency of core skills.

Operational and Performance Capabilities:

- Enhance clinical education for individuals and teams.
- Mimic austere and hostile environments or clinical situations using Immersive Environment Simulation Modules using Virtual Reality (VR), Augmented Reality (AR) and Mixed Reality (MR).
- Objective measurements of clinical decision-making, stress responsiveness, and 'virtual patient' outcomes.
- Quantitative assessments of obtaining competency and maintaining currency.
- Scenario-based linear narratives using gamification principles.
- Increased exposure = instinctive, engrained, automatic responses without environmental distractions.

Contact

Dr Abhilash (Abe) Chandra

BSc, MSc, MBBS/PhD, FRACS (Vasc/Gen), MBA, MAICD
Founder & Managing Director of Artificial Environment
Simulation Pty Ltd (AES)

Email: abe.chandra@artificialenvironmentsimulations.com

Phone: +61 4341 44614

