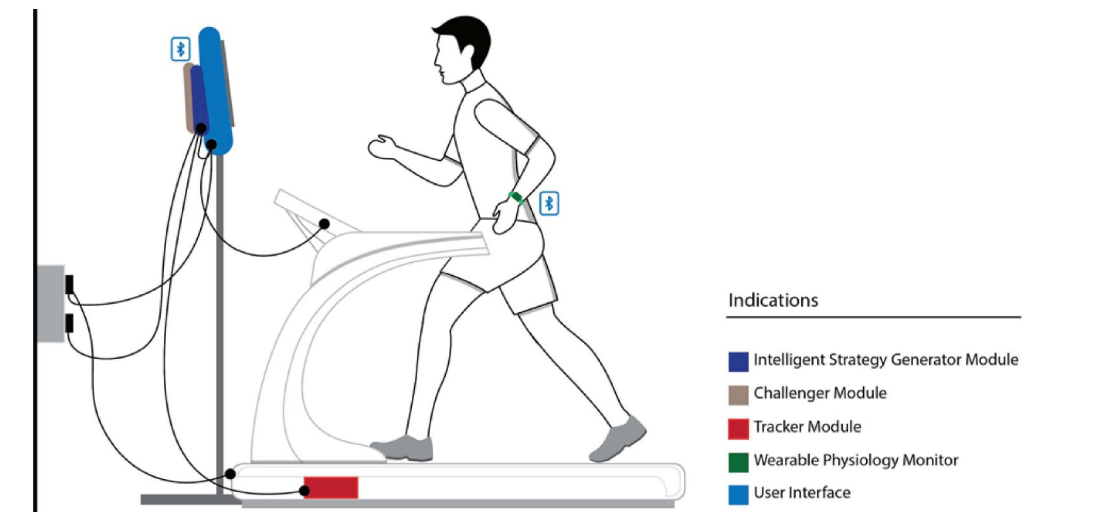


## About

PTreadX is a Physiology-sensitive Treadmill-assisted Gait Exergaming platform. The PTreadX quantifies one's energy expenditure during exercise and in turn, uses Artificial Intelligence (AI)-based tools to vary the gait exercise challenge level to offer an Adaptive and Progressive gait exercise task in an individualized manner. This holds promise in increasing one's cardiovascular endurance and gait reconditioning. In addition, this offers a Virtual Reality based visual representation of the dynamic task environment that is tuned with the user's speed of walk.



## Status

Many studies have been conducted using PTreadX in Lab-based, community-based and hospital-based settings. Even longitudinal clinical trials have been carried out. The results are promising.

## Comparative Statement

Features	Competing brand 1	Competing brand 2	Competing brand 3	PTreadX
Heart Rate Monitoring	Yes	Yes	No	Yes
Cardiovascular endurance and gait reconditioning	No	No	No	Yes
Auto adjustable base speed	No	No	No	Yes
Virtual Reality based GUI	No	No	Yes	Yes
Record of individualized performance	No	Yes	Yes	Yes
Monitoring Energy Expenditure (PCI)	No	No	No	Yes

## Potential Applications (Customers)

- (i) Sports (Gyms)
- (ii) Gait Rehabilitation
- (iii) Elderly Care, etc.