

## TrekAce® 3D



### Advantages

- **Non-GPS Navigation** – The first of its kind !! accurate navigation without the need for GPS signal (complete dead reckoning), works in GPS denied environments, extreme conditions or bad weather, jamming or spoofing.
- **Increases Situational Awareness** – Using tactile information = our hands, eyes and ears are free!
- **Android Based** – The system works with standard android devices (cost effective).
- **Cyber-Attack Proof** – As there is no need for external communications (dead reckoning).
- **Weight and size** – Software on Android device – weightless! Does not take up any unnecessary space on the operator.
- **Improves operation capabilities** – Decreases cognitive overload.
- **TRL 7**

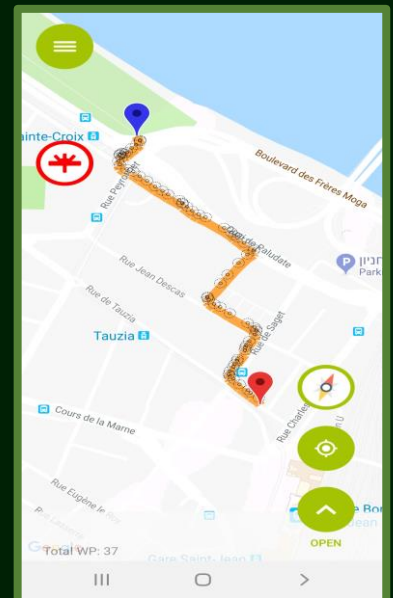
### Features

- **Easy to use system** – Simple interface; intuitive-use; short training process.
- **Active Trek Navigation** – Walk the way you feel! using the **Core** device, no need to look at a screen!
- **Hot Spot Navigation** – Navigation to a single extraction-point by just tapping the screen.
- **3D Navigation** – Creating a 3D visualization support of team positioning; preventing friendly fire.
- **Trek Mapping** – Live trek recording and mapping.



### Operational gap and solutions

- **Positioning, navigation and mapping solutions** for Inaccurate GPS / GPS denied / Urban / Sub-Terranean environments.
- **Eliminate the threats** applied to GPS uses such as jamming or spoofing.
- **Increasing situational awareness.**
- **Decreasing cognitive overload** inflicted on operators.
- **3D navigating** – multi story structures.
- **One system for all operational scenarios:** walking / driving and more.
- **Emergency navigation to an extraction point**, without even knowing the route!
- **Short intuitive training** & short personalization (operator's movement profile).



## TrekAce® 3D

### Adaptation & Integration Possibilities

- **System can be adapted to existing in-unit communication** system (depends on the protocol).
- **System can be adapted to legacy technologies** in order to transfer any regular information via tactile (**Core** device).
- **System can be integrated to legacy communication** - C<sup>2</sup> / C4I systems or equivalent, by providing an SDK for easy integration.
- **System can be adapted to any “future soldier” systems** purchased by the military – no need to buy new technologies every time we change platforms.
- **The company is willing to consider cooperation with other companies** in related to the military needs!

### Technology

- **A patented platform** transforming visual / sound instructions to Tactile.
- **A patented algorithm** driven app installed on a **standard Android** device allowing positioning /navigation with & without GPS and eliminating the need of proprietary hardware.
- **Eliminates the need for any kind of external communication** platforms in order to use location positioning and / or active navigation.
- **Runner-up at the US DOD CTTSO3 2018 Urban Navigation challenge 2018.**

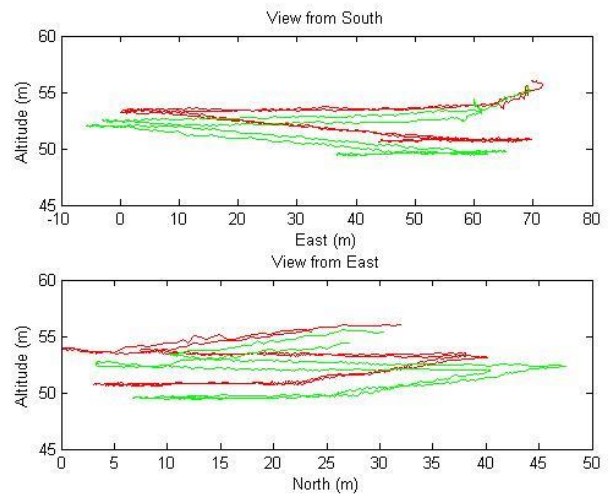
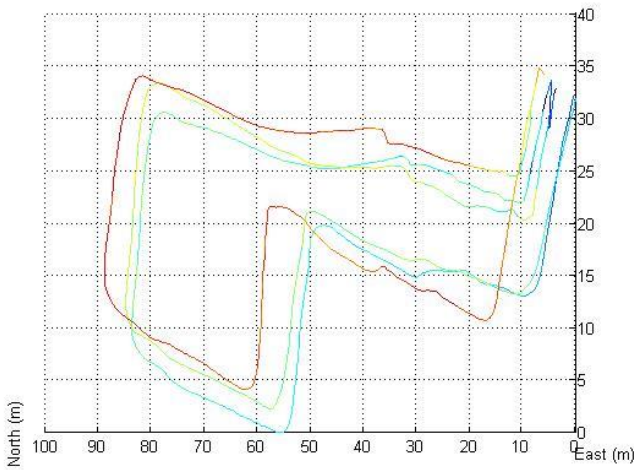
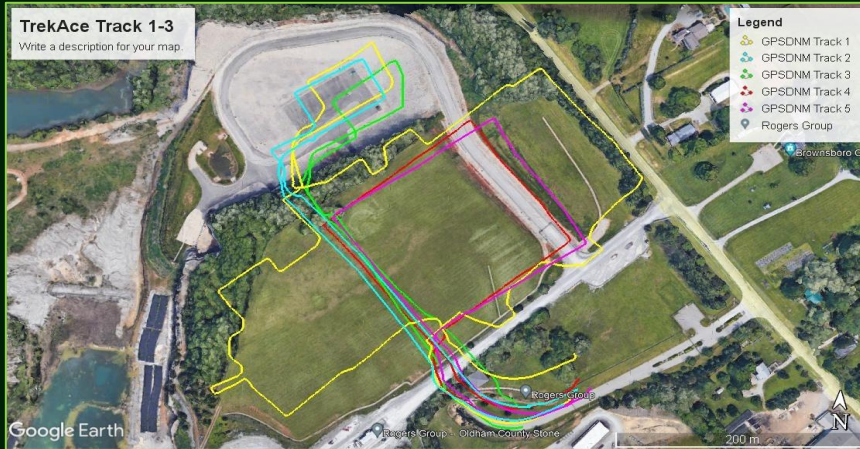
### **All Applications enhance situational awareness combined with TrekAce® Core Ergonomic Wearable tactile ROBOTIC sleeve**

#### Advantages

- **Patented location** on the upper arm for maximum comfort, full functioning operational uses.
- **Transforming voice/touch into tactile commands.**
- **Patented and unique way of communication** (easy to learn and language).
- **Fast communication** - reduces the amount of time it takes for a command to reach all the team's operators.
- **Easy language to learn, very intuitive** - Decreases the time it takes for operators to understand the command given.



## Unprecedented Accuracy & Consistency



## Award Winning

The 2018 US DOD and Israel's MOD Urban Navigation Challenge: Navigation at **GPS Denied Environments** – Over 1000 international testers

