



HQ Infantry

UK Infantry Combat Development

**An overview
2000-2020**

Force Development



HQ Infantry



**LIGHT INFANTRY
IN
THE DIGITIZED AGE**



Changing Face of the Battlefield

- **Deeper Significance of Artillery & Aviation**
 - 80-90% of damage in Tactical Zone
- **Reduction in Significance of Direct Fire Battle**
 - Tanks & Infantry No Longer Decisive
- **The Massing of Effect and Not Force**



Changing Face of the Battlefield

- **Blurring of Strategic, Operational and Tactical Levels**
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- **Deep, Close and Rear?**



Centres of Gravity

- **No Longer the Mass Of Tank and Mechanised Forces**
 - **Now ~**
 - Deep Fire & Strike Systems
 - C4I
 - EW Capability
 - **Therefore the Need to Take the Battle into the Enemy's Rear.**
- Located
In
Depth



Digitization (2015+)

- **Full Situational Awareness:**
 - Where Am I?
 - Where Is My Friend?
 - Where is the Enemy?
- **Improved Sensor to Shooter Links**
- **Ability of Infantry to Operate in Depth in Parallel with Deep Systems**



Ground Manoeuvre In Symmetric Conflict

- **Exploitation of Deep Fires**
- **Balance Precision Firepower with Precision Manoeuvre**
 “The Precision Ambush”
- **Eclipse of Traditional Armoured Formations BY Air Manoeuvre or Even Air Mechanised Formations**
- **A Hybrid Force ~ A Hybrid Infantry**



HQ Infantry

Symmetry & Asymmetry Conflict

- **Always an Asymmetric Element to Warfighting**
 - Offensive Air Manoeuvre
 - Defensive Armoured
 - Stability Mechanised/Light
 - Support Mechanised/Light
- **A Hybrid Force ~ A Hybrid Infantry**



Why Ground Forces?

- To **Fill in Gaps** in the Coverage of Remote Sensors
- To **Distinguish Enemy** Combatants From Neutrals.
- To Help **Detect & Target** Dismounted Forces That Present Difficulties for Remote Sensors
- To **Resolve Ambiguities** About Target Characteristics
- To **Secure POD's** & Compliment Local Forces



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Air Manoeuvre ~ Infantry

“Light, Lean and Lethal”

- **Integral Tactical Mobility & Armoured**
- **Embedded ISTAR Capability**
- **Remote Logistics - Foil Delivery Systems**
- **Potent Firepower**



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Armoured Infantry

- **Strategically Deployable by Air**
- **Endurance**
- **Mass - When Appropriate**



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Mechanised Infantry

- **Light Infantry In MRAV**
- **Endurance**
- **Configured For Urban Operations**
 - Micro UAV Systems
 - Robotics
 - Acoustics & Light



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MRAV (2008)



Force Development



HQ Infantry

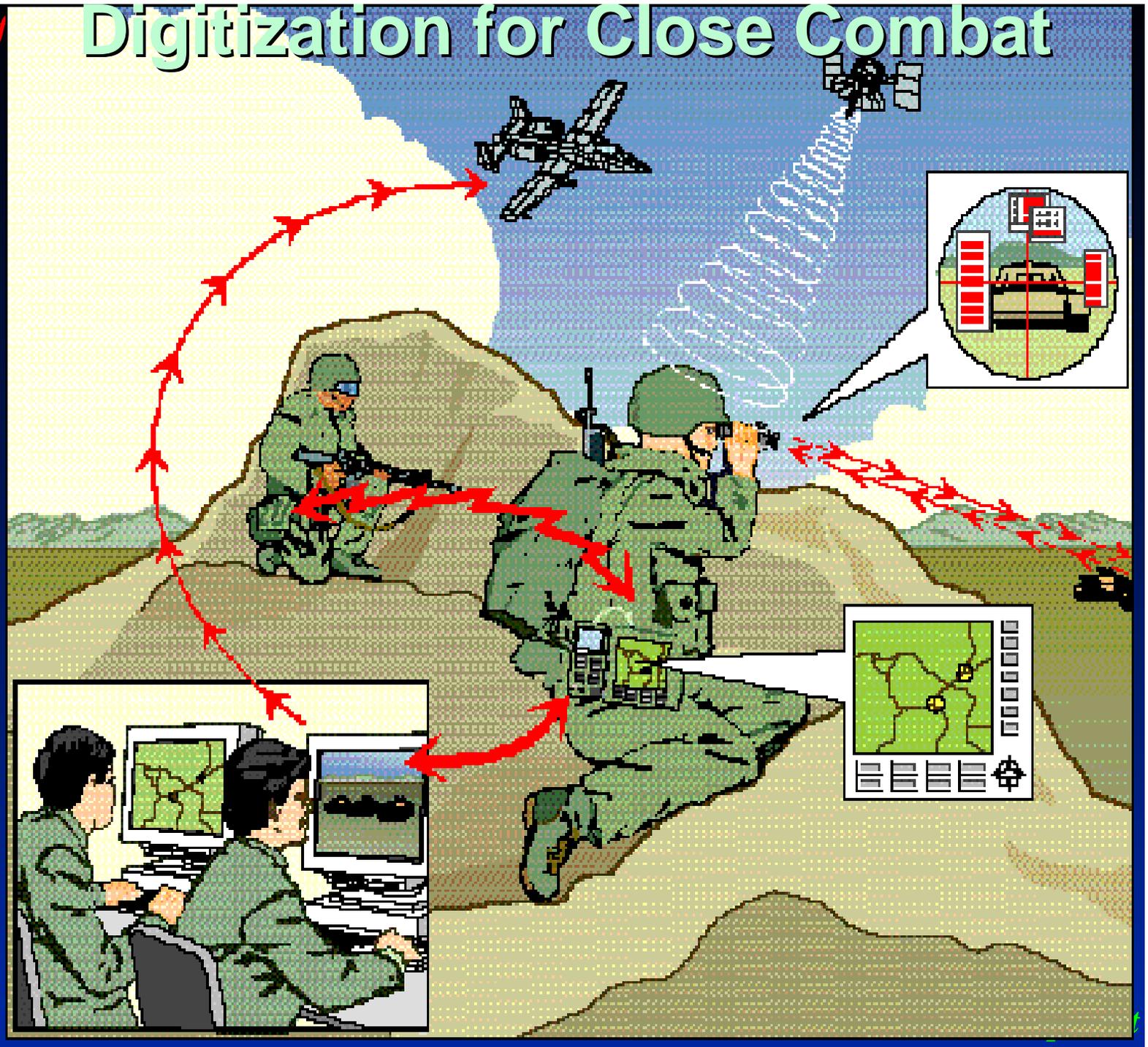
Light Infantry

- **Configured For Difficult Terrain**
- **Embedded ISTAR Capability**
- **Potent Firepower**
- **Role Specialization?**



HQ Inf

Digitization for Close Combat



PICCS

Com/Nav/Warnings Human Interface

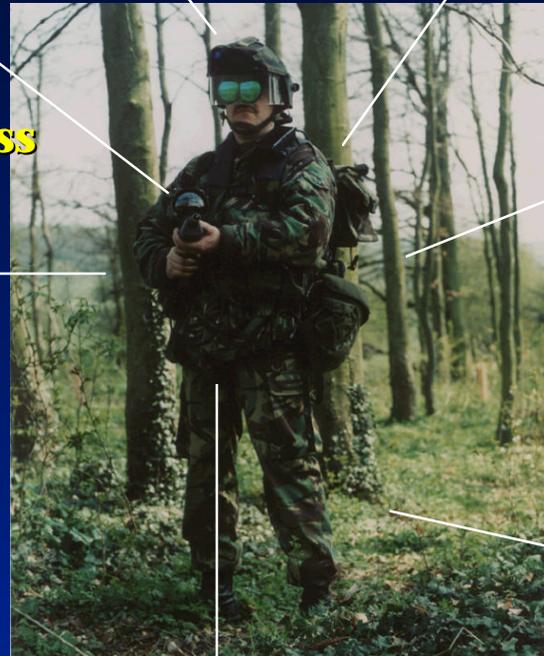
- **Directional Audio**
- **Microphone**
- **Helmet Display**
- **Manual Controls**

Weapon System

- **Directional Microphone**
- **Digital magnetic Compass**
- **Laser Rangefinder**

Command System

- **Inter Section Radio**
- **Intra Section Radio**
- **Comsec**
- **ECCM**
- **GPS**
- **Warning Generator**
- **Data Entry Device**
- **Databank**
- **Voice/Data/Video Highway**
- **Com/Nav/BIFF/ESM Antenna**



Integrated Protective Helmet

- **Head Face Protection**
- **Laser Protection**
- **Hearing Protection from Blast and Acoustic Weapons**
- **Respiratory Protection**

Enhanced Human Capabilities

- **Spatial Hearing**
- **Direction Indicator**
- **Day-Night Indirect Vision**
- **Voice Amplification**
- **Positive Pressure Breathing**

Protective Clothing

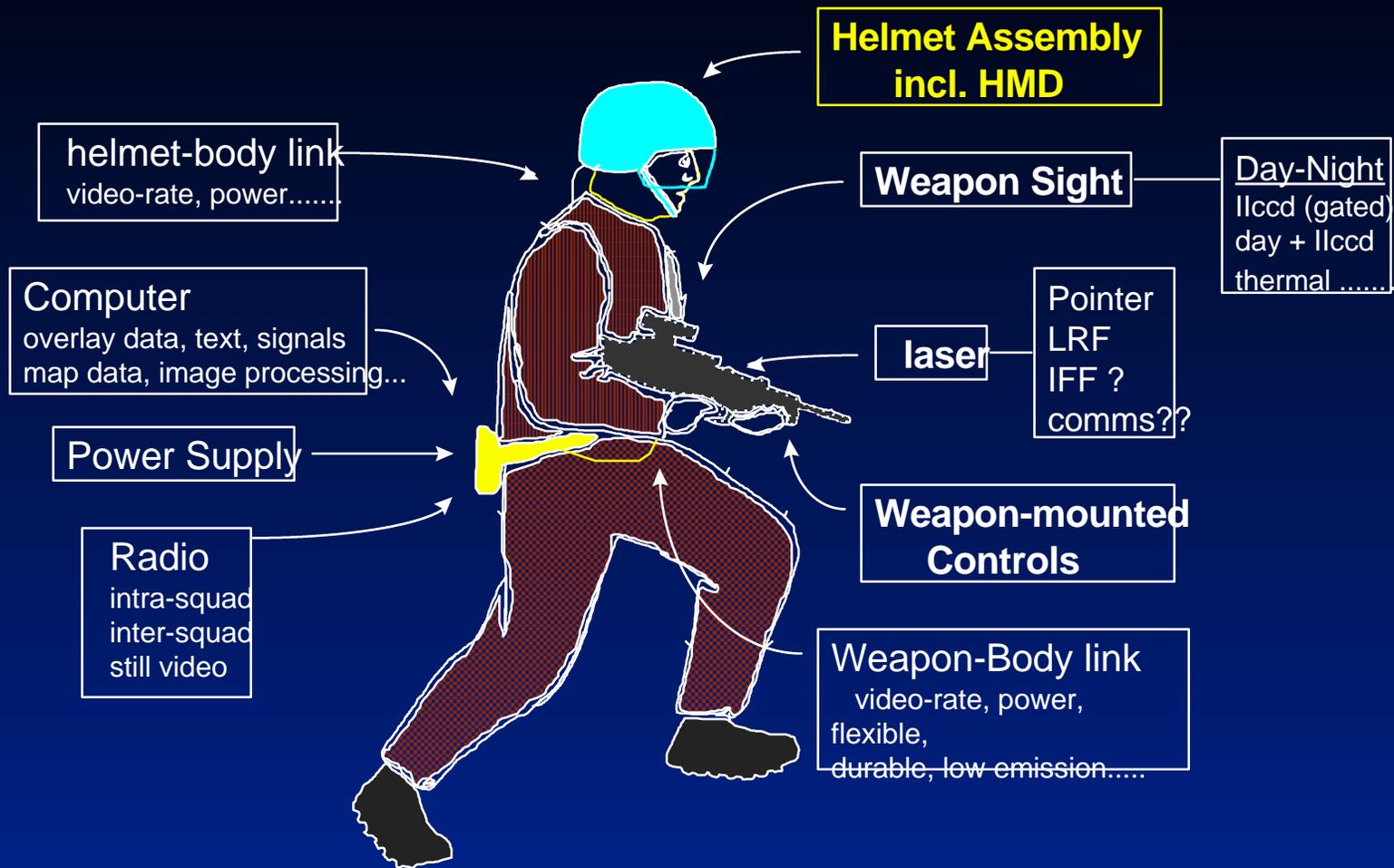
- **Climatisation**
- **Air Filtration**

Power Supply

- **Battery**
- **Battery Management System**



FIST Total System - detail





Key Equipments

- **TRACER**
- **MRAV**
- **Armoured Mobility for
Light (Air Manoeuvre) Force**
- **BOWMAN**
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Challenges

- **Organic Mobility**
- **Synchronization of “Sensors and Shooters”**
- **Massing Effects of Multiple Dispersed Systems**
- **Ability to Attack Throughout the Depth of the Battlespace**
- **Balanced Integration of Dispersed Teams and Conventional Forces**

