Objective Requirement Implementation

Body Suite w/Physiological Sensors
Benefits: Increased Survivability

Increased Data Rate and Range
Benefits: Increased C2

Platform Connectivity
Benefits: Increased SA

Hybrid Fuel Cell/ Rechargeable Battery
Benefits: Reduced Weight & Cost& Increase Mission Duration

Fused Thermal/I2, Increased FOV & Color Display
Benefits: Target Acquisition

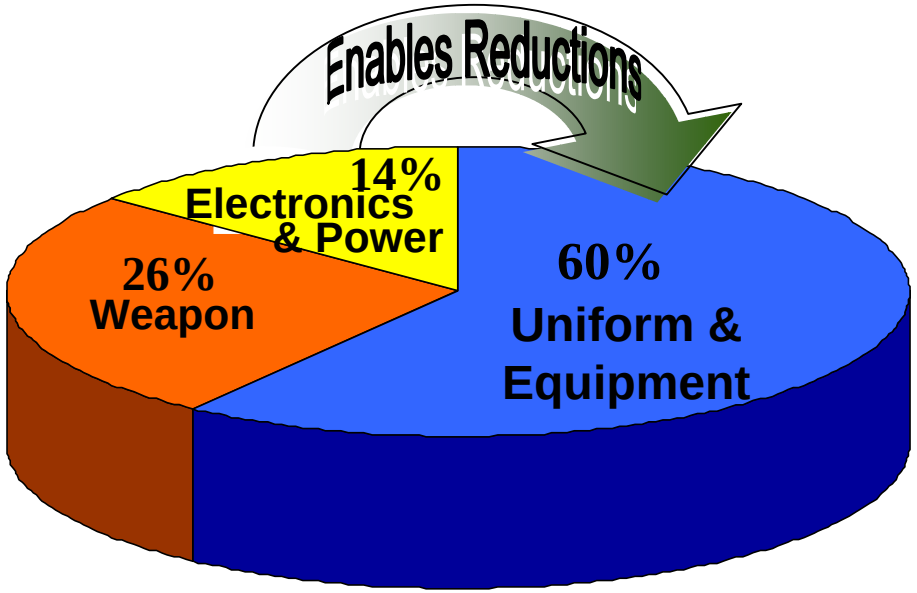
Multifunction Laser
Benefits: Reduced Weight & Cost (Eliminates Individual PEQ-2C, PAC-4, MILES, CID Laser, Borelight, Range Finding Lasers)

Objective Individual Combat Weapon
Benefit: Increased Lethality

Integrated Environmental, NBC, Signature, & Ballistic Protection Uniform
Benefits: Reduced Weight (Eliminates Over-Garments)

Over 80 Objective Requirements in the ORD

Soldier Systems Weight Distribution



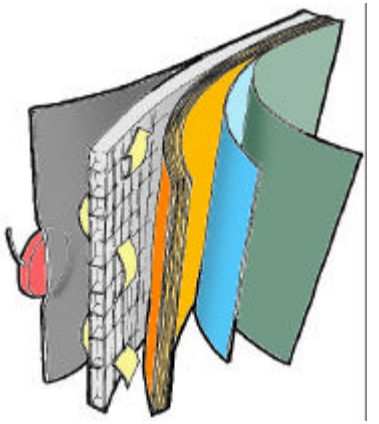
Electronics – 13 Lbs.
Uniform – 55 Lbs.
Weapon – 24 Lbs.

79 Lbs.

92 Lbs.

Without Electronics The Soldier Still Carries 79 Lbs!

Increased Energy Equal Decreased Weight and Increased Effectiveness



- **New Approach to the Uniform**
  - **Multiple Layers**
    1) **Bio Layer**
    2) **Environmental Layer – Heating & Cooling**
    3) **Outer Durability**
- **Eliminates Bulk and Weight of Uniform Components**
- **Reliable Power Supply Necessary – up to 100 Watts**
- **Cooling Increases Combat Effectiveness**
- **Increased Lethality**

Increased Power Can Reduce the Overall Soldier Weight

Summary

- Increased Energy Density Power Sources and Decreased Energy Consumption is Necessary to Reduce Weight and Increase Mission Duration in Near Term
- Addition of Power can Reduce Weight and Bulk of Uniform and Increase Combat Effectiveness in Long Term
- Objective Requirements Define Direction for Land Warrior Up-Grades
- Soldier Technology must be affordable
  - Large acquisition objective quantities