HISSI Pilot Program Funding Memo

Concept Draft — October 2025

Objective

Launch a $500 million pilot to establish the first trusted humanoid manufacturing hubs and the Humanoid Test & Evaluation Center (HTEC) under the proposed Humanoid Industrial Security & Standards Initiative (HISSI).

Purpose

Demonstrate secure, domestic assembly and validation of logistics humanoids within 24 months, leveraging modular open systems design, signed AI firmware, and supply-chain attestation per DoDI 5200.44 and NIST SP 800-161.

Program Elements

1. Establish two Trusted Manufacturing Hubs (TMHs) co-located with existing DoD robotics facilities or university consortia.
2. Stand up one Humanoid Test & Evaluation Center (HTEC) with red-team capability, firmware signing infrastructure, AI provenance verification, and continuous C-SCRM monitoring per NIST SP 800-161.
3. Fund pilot humanoid production runs for non-lethal logistics applications under DoD supervision.

Budget Breakdown

- $250M — Facility upgrades and equipment for TMHs.
- $150M — Establishment of HTEC and cybersecurity infrastructure.
- $100M — Grants and contracts for prototype humanoid manufacturing under HISSI standards.

Deliverables & Metrics

Two TMHs	FY2027	Operational, 50% domestic HCCs
One HTEC	FY2028	Accredited, zero vulnerabilities
Prototypes	FY2027	Logistics humanoids deployed

Outcome

This pilot establishes proof-of-concept for secure humanoid manufacturing and testing frameworks, paving the way for full-scale HISSI implementation by 2030. Congress and

DoD should fund this $500M pilot in FY2026 to secure the U.S. robotics edge, aligning with Replicator and CHIPS Act priorities.

Authored by: Collin George, Independent Researcher in Computer Science, Cybersecurity, and Biomedical Innovation.