

DEPARTMENT OF HOMELAND SECURITY SCIENCE AND TECHNOLOGY

Evolution of Systems Engineering

Dr. Phil DePoy

Former Director Wayne E. Meyer Institute of Systems
Engineering

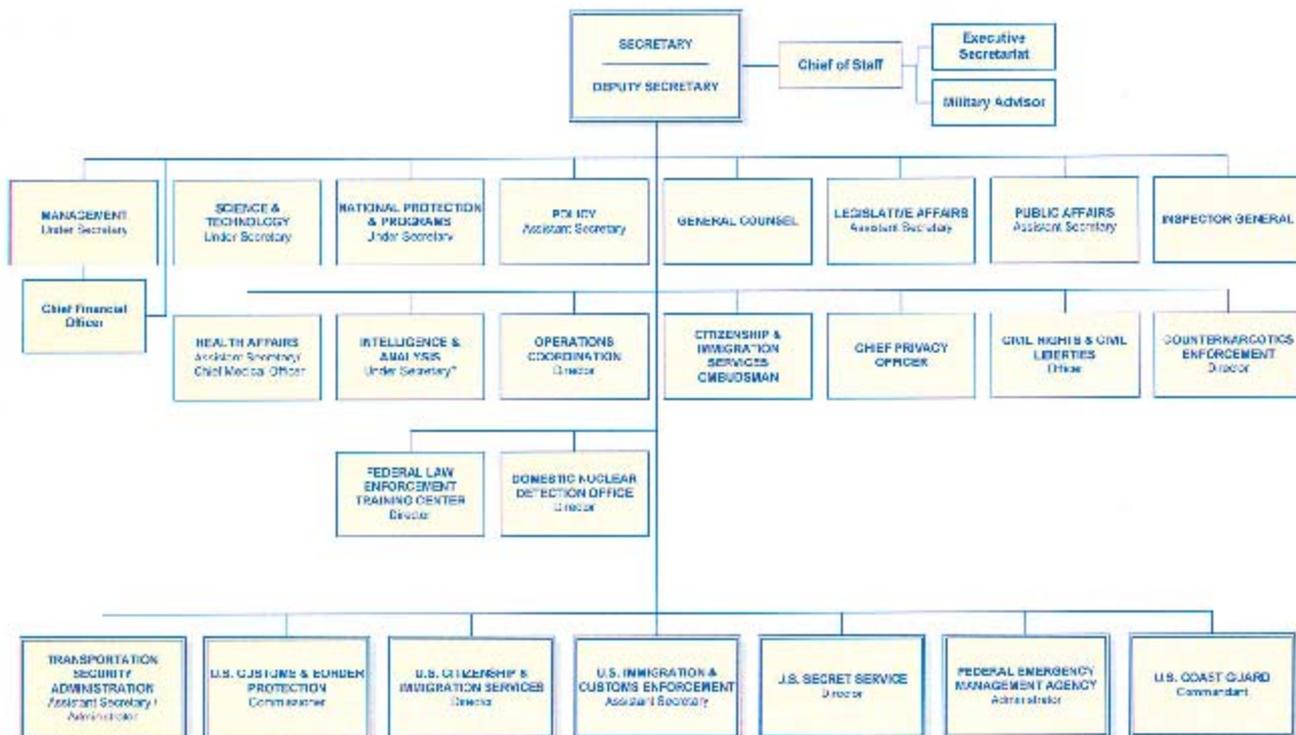
DHS HISTORY

- 9/20/2001 - President's Address to Congress
- 10/8/2001 - Executive Order 13228
- 10/29/2001 - HSPD-1
- 6/2/2002 - President's Address to Nation
- 6/18/2002 - Proposal Submitted to Congress
- 11/25/2002 - Homeland Security Act of 2002
- 1/24/2003 - DHS Became Operational

AGENCIES MOVED TO DHS

- U.S. COAST GUARD
- U.S. SECRET SERVICE
- U.S. CUSTOMS SERVICE
- FEDERAL EMERGENCY MANAGEMENT
- IMMIGRATION AND NATURALIZATION
- TRANSPORTATION SECURITY
- FEDERAL PROTECTIVE SERVICE

U.S. DEPARTMENT OF HOMELAND SECURITY



* Under Secretary for Intelligence & Analysis title created by Public Law 110-53, Aug. 3rd, 2007

Approved 4/1/2007

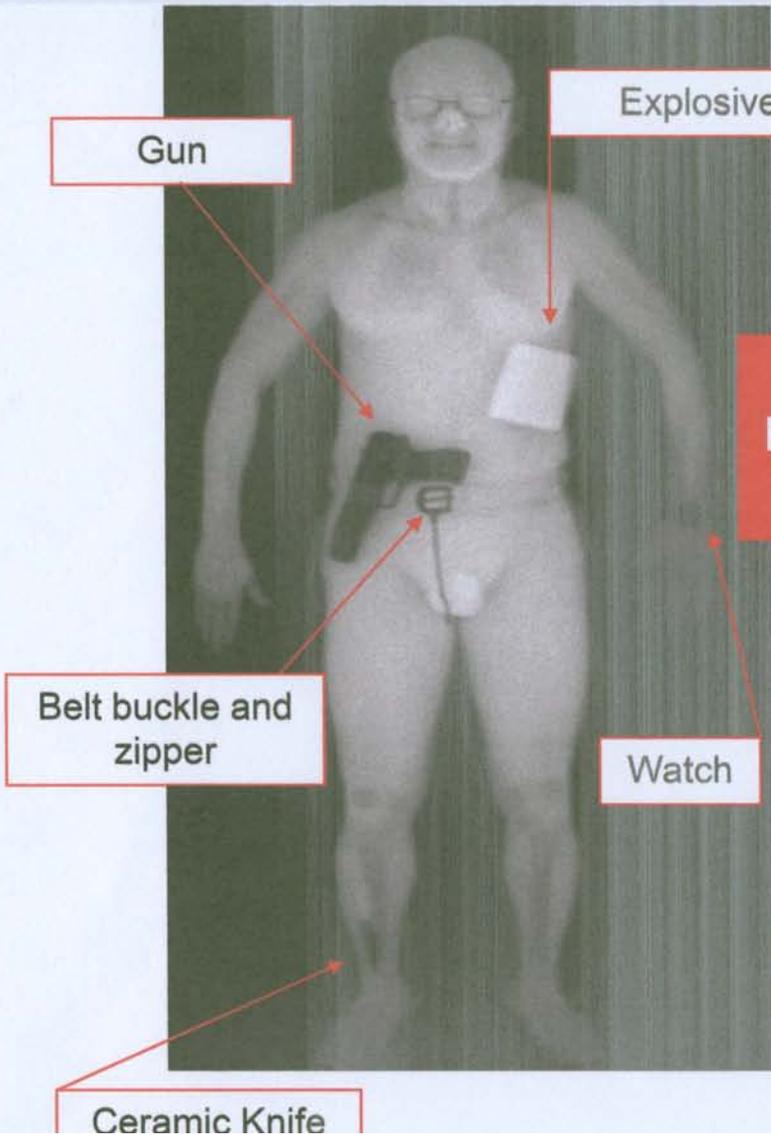
AGENCIES MOVED TO DHS (CONT)

- CBRN COUNTERMEASURES PROGRAM
- ENVIRONMENTAL MEASUREMENTS
LABORATORY
- NATIONAL BIOLOGICAL WARFARE DEFENSE
ANALYSIS CENTER
- PLUM ISLAND ANIMAL DISEASE CENTER

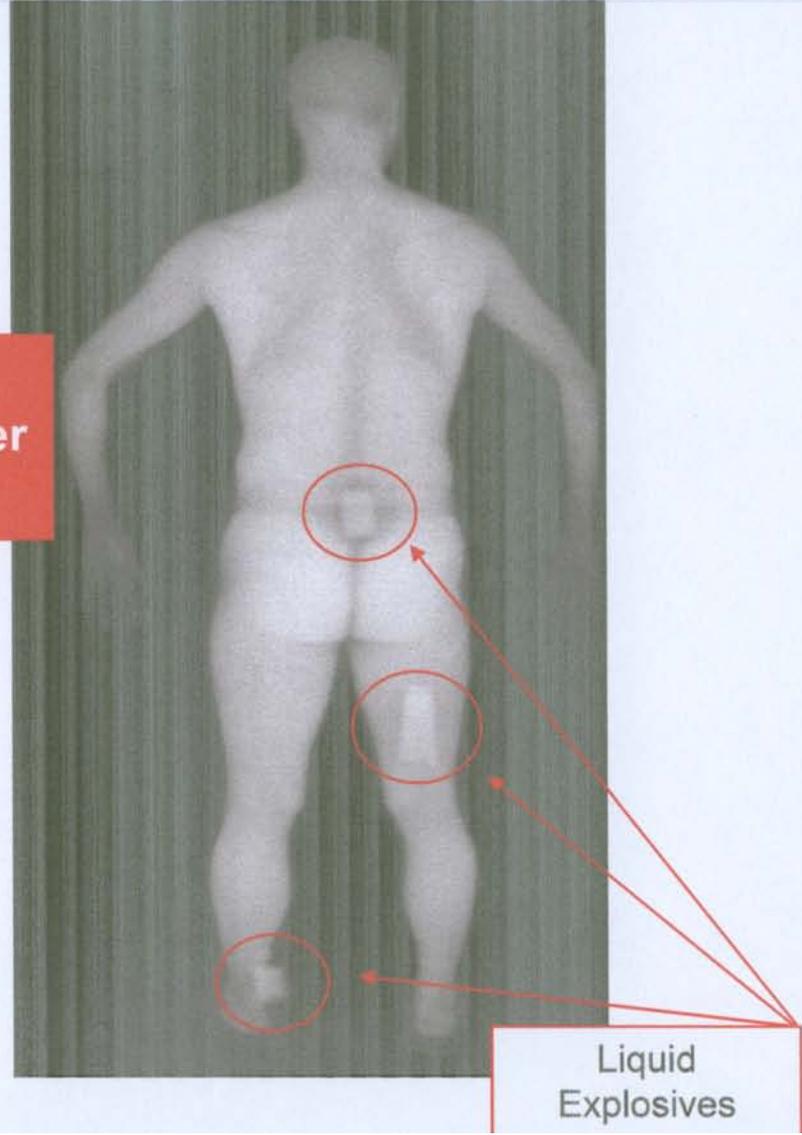
S&T DIRECTORATE DIVISIONS

- **CHEMICAL AND BIOLOGICAL**
- **EXPLOSIVES**
- **INFRASTRUCTURE AND GEOPHYSICAL**
- **BORDERS AND MARITIME**
- **COMMAND, CONTROL, & INTEROPERABILITY**
- **HUMAN FACTORS**

SmartCheck Image of a Person with Multiple Threats

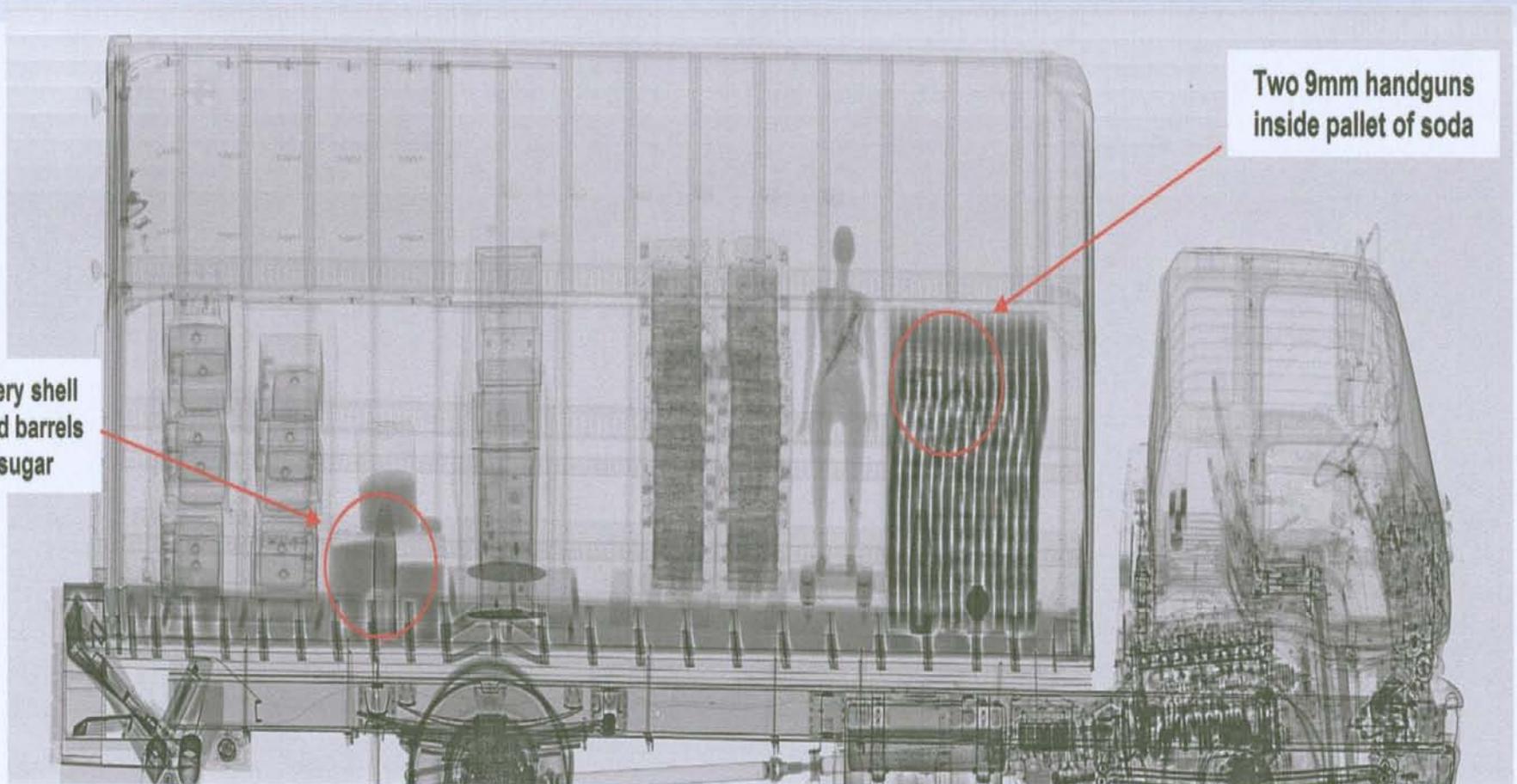


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OmniView Gantry: Transmission + Backscatter

AS&E

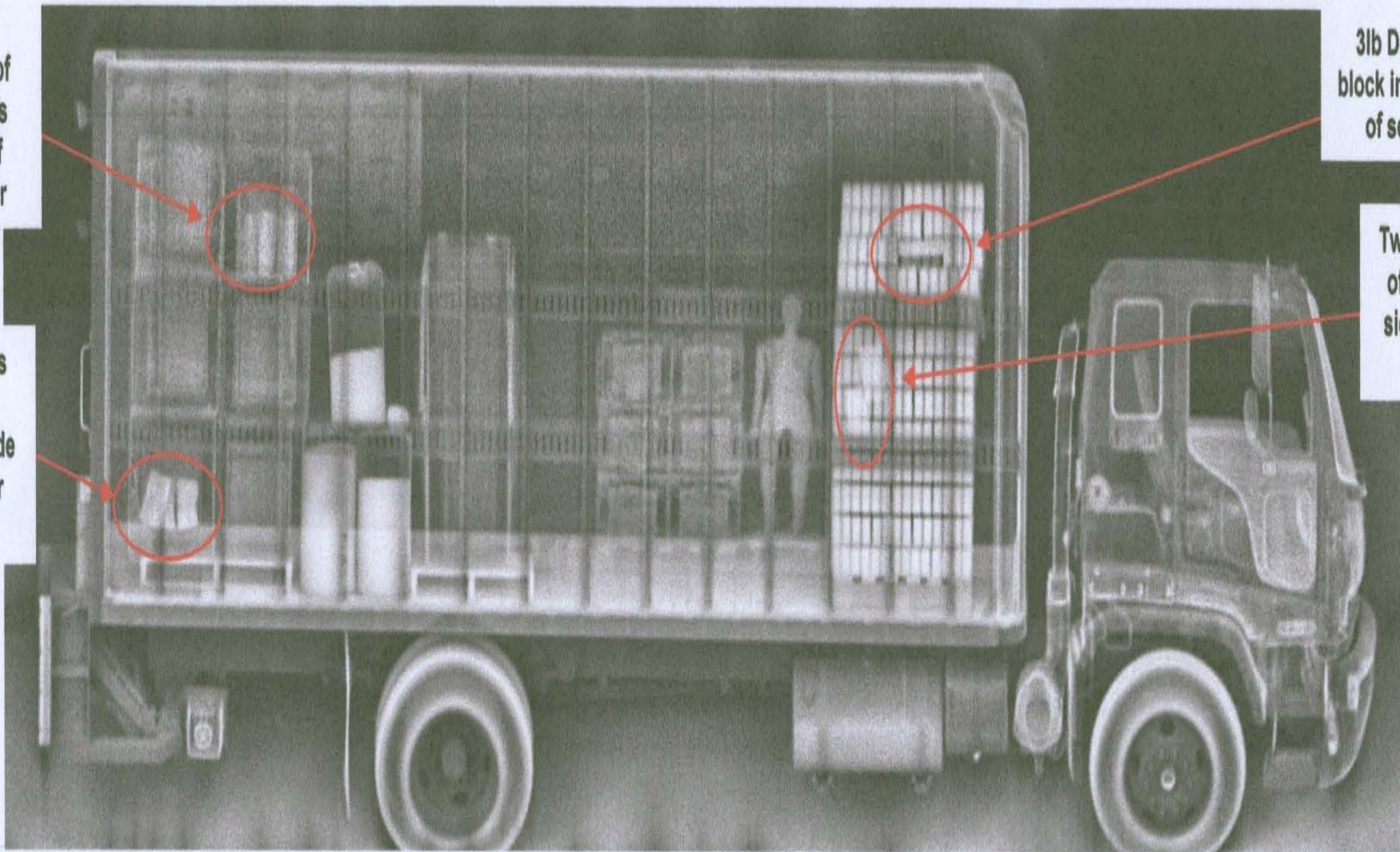


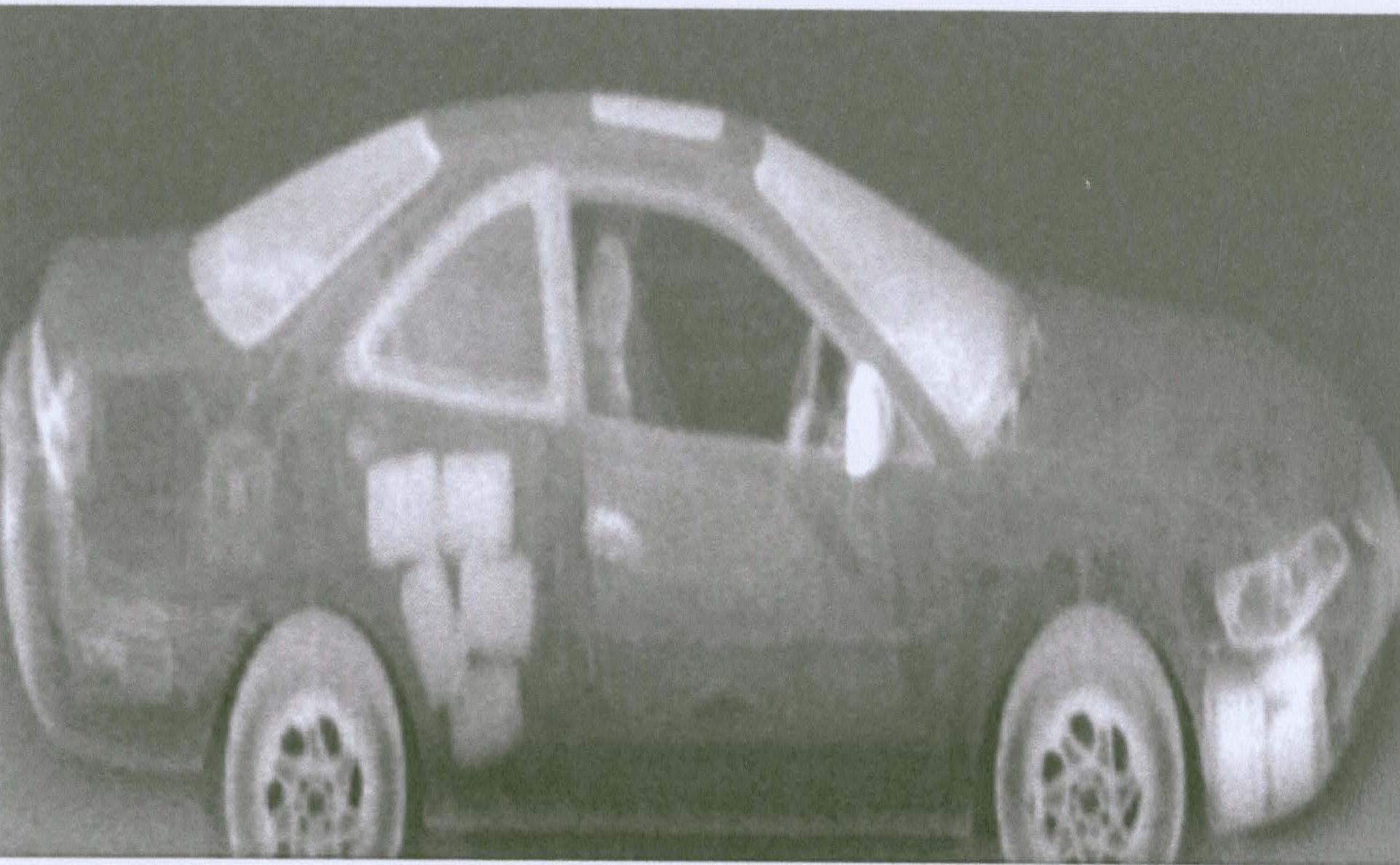
Three
Cartons of
cigarettes
inside of
computer
monitor

Three 2lbs
bags of
sugar inside
computer
monitor

3lb Delrin
block in place
of soda

Two 2lb bags
of sugar on
side of so
pallet





ALLOCATION OF S&T BUDGET

Basic Research 25%

Applied Research 15%

Transition 60%

ALLOCATION OF S&T BUDGET

	<u>DHS</u>	<u>DOD</u>
Basic Research	25%	15% (1.7B)
Applied Research	15%	37% (4.2B)
Transition	60%	48% (5.6B)

DHS S&T ISSUES

- REQUIREMENTS AND SPECIFICATIONS
- PRIORITIZATION
- TRANSITION FROM TECHNICAL CAPABILITY TO OPERATIONAL SYSTEM
- CUSTOMER INVOLVEMENT
- INTEGRATION
- TESTING

DHS S&T Capstone IPTs

Gathering Mechanism for Customer Requirements:

