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2009-05-14

Department of Homeland Security Science
and Technology

DePoy, Phil

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DEPARTMENT OF HOMELAND SECURITY SCIENCE AND TECHNOLOGY

Evolution of Systems Engineering

Dr. Phil DePoy

Former Director Wayne E. Meyer Institute of Systems
Engineering

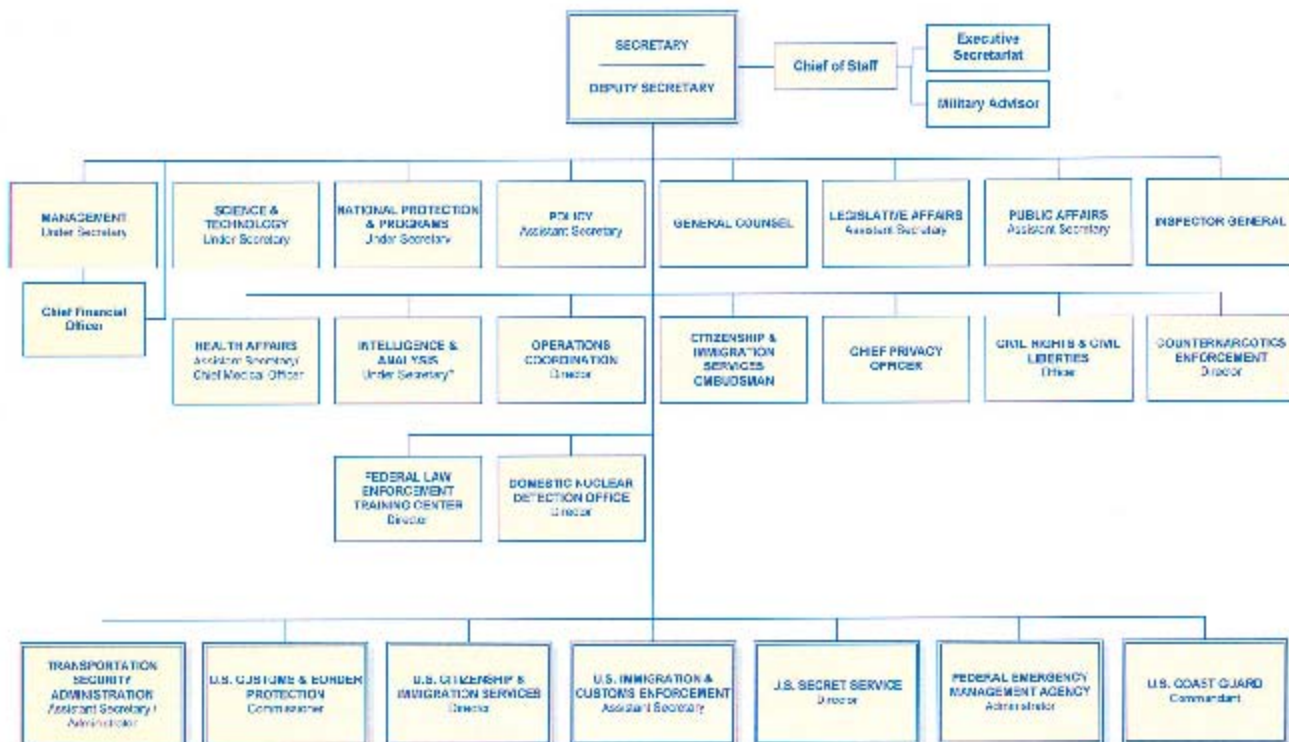
DHS HISTORY

- 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

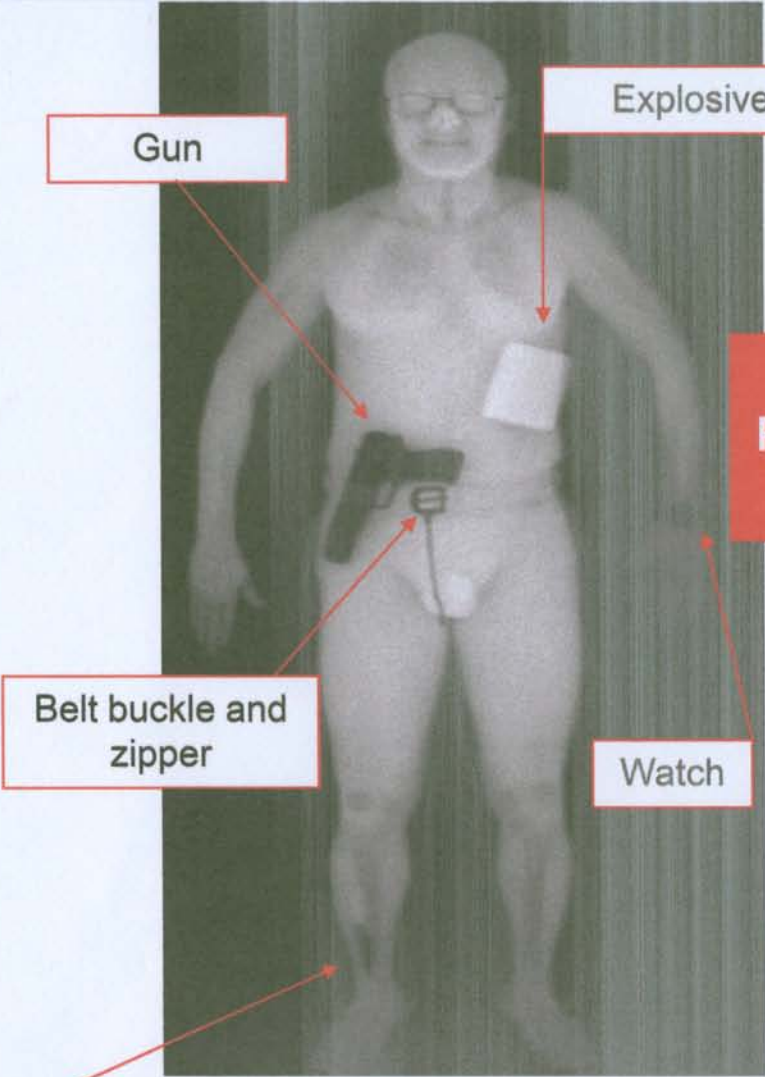
AGENCIES MOVED TO DHS (CONT)

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

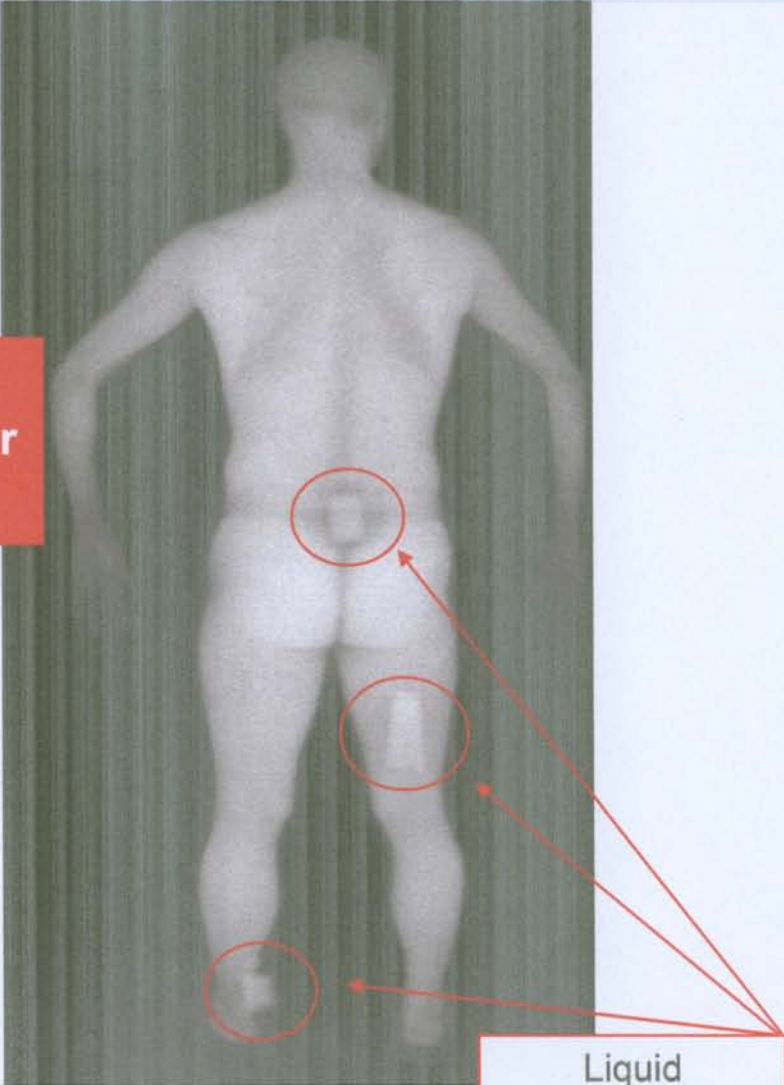
S&T DIRECTORATE DIVISIONS

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

SmartCheck Image of a Person with Multiple Threats

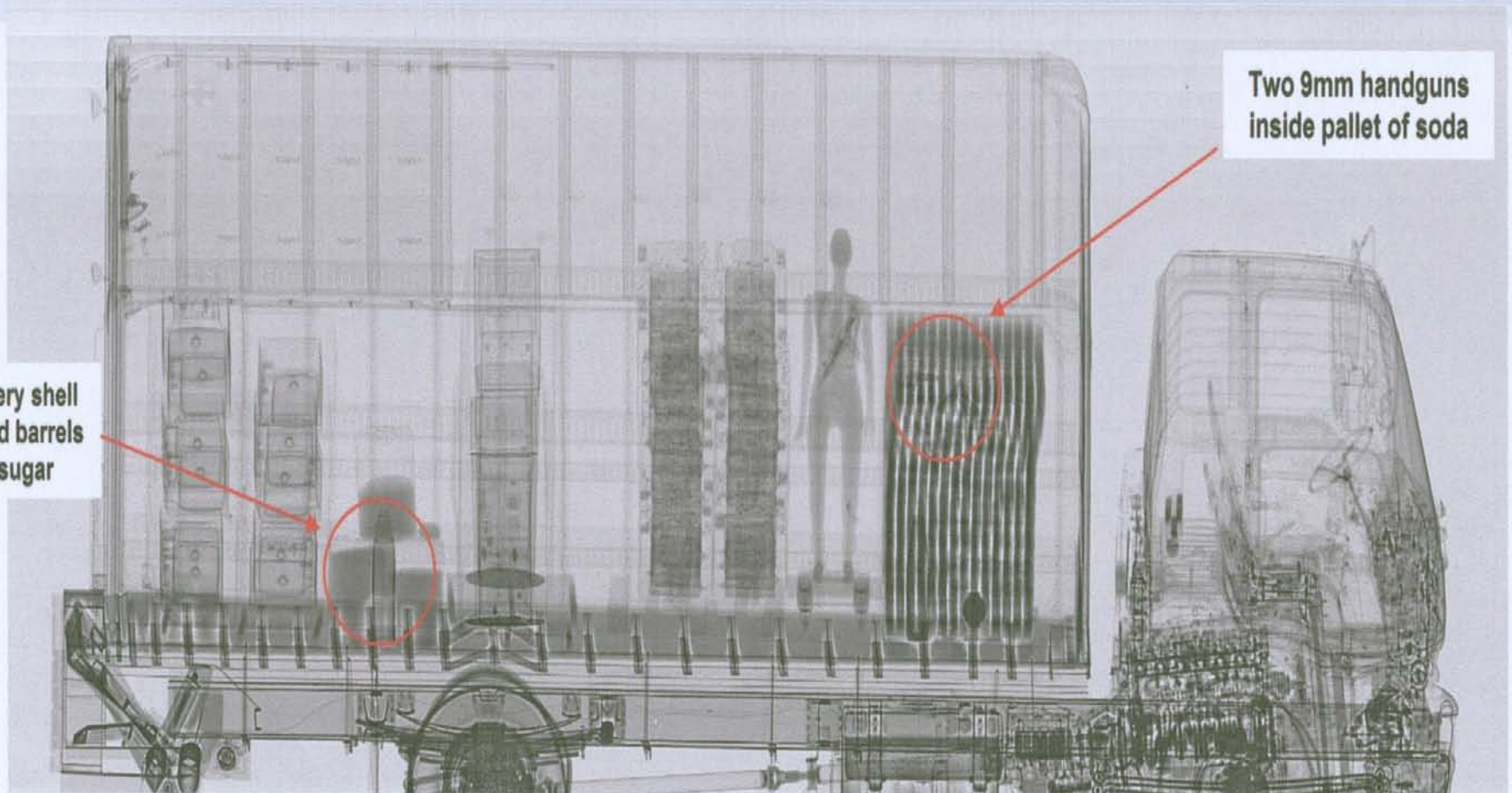


Without Privacy Filter



OmniView Gantry: Transmission + Backscatter

AS&E

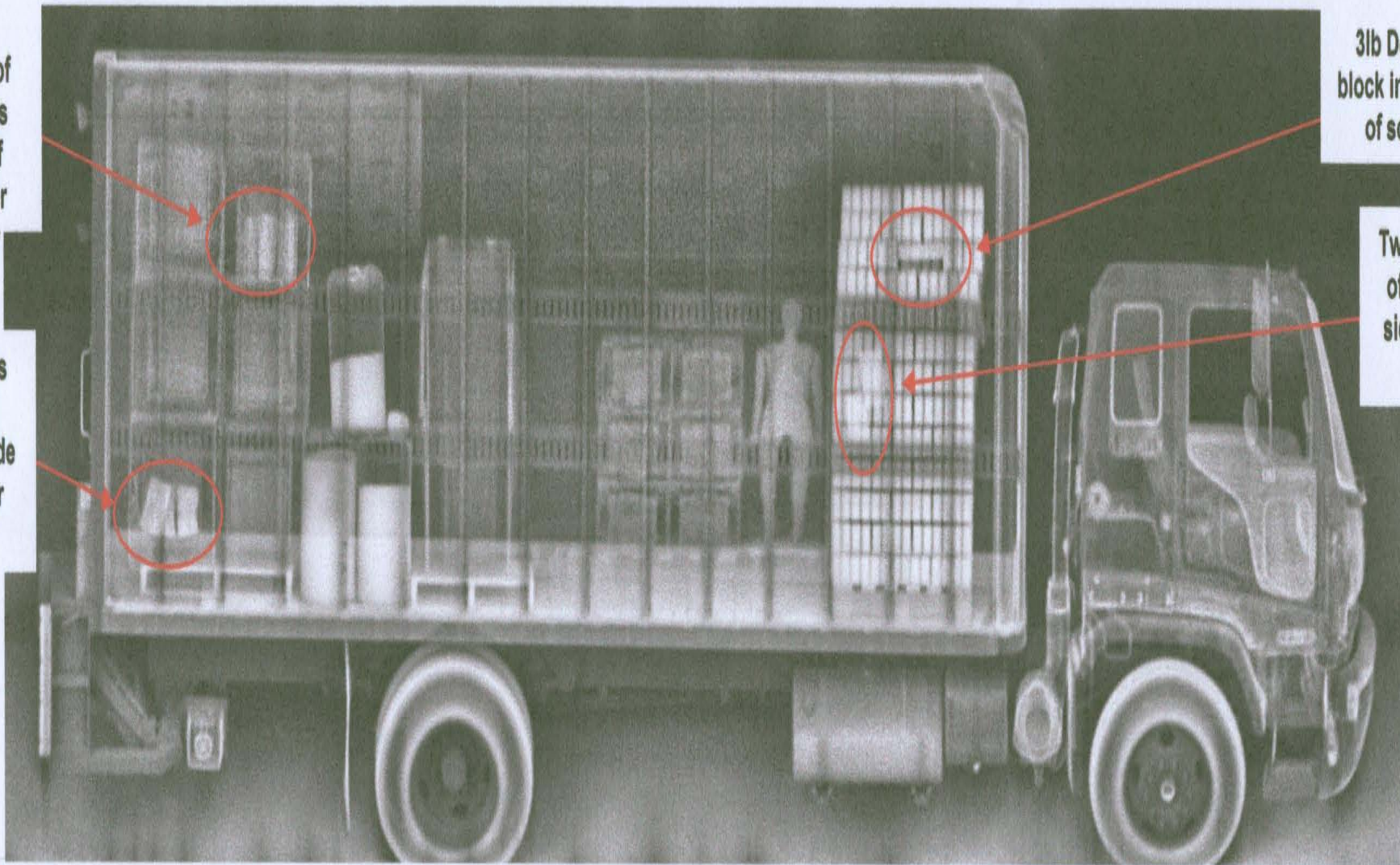


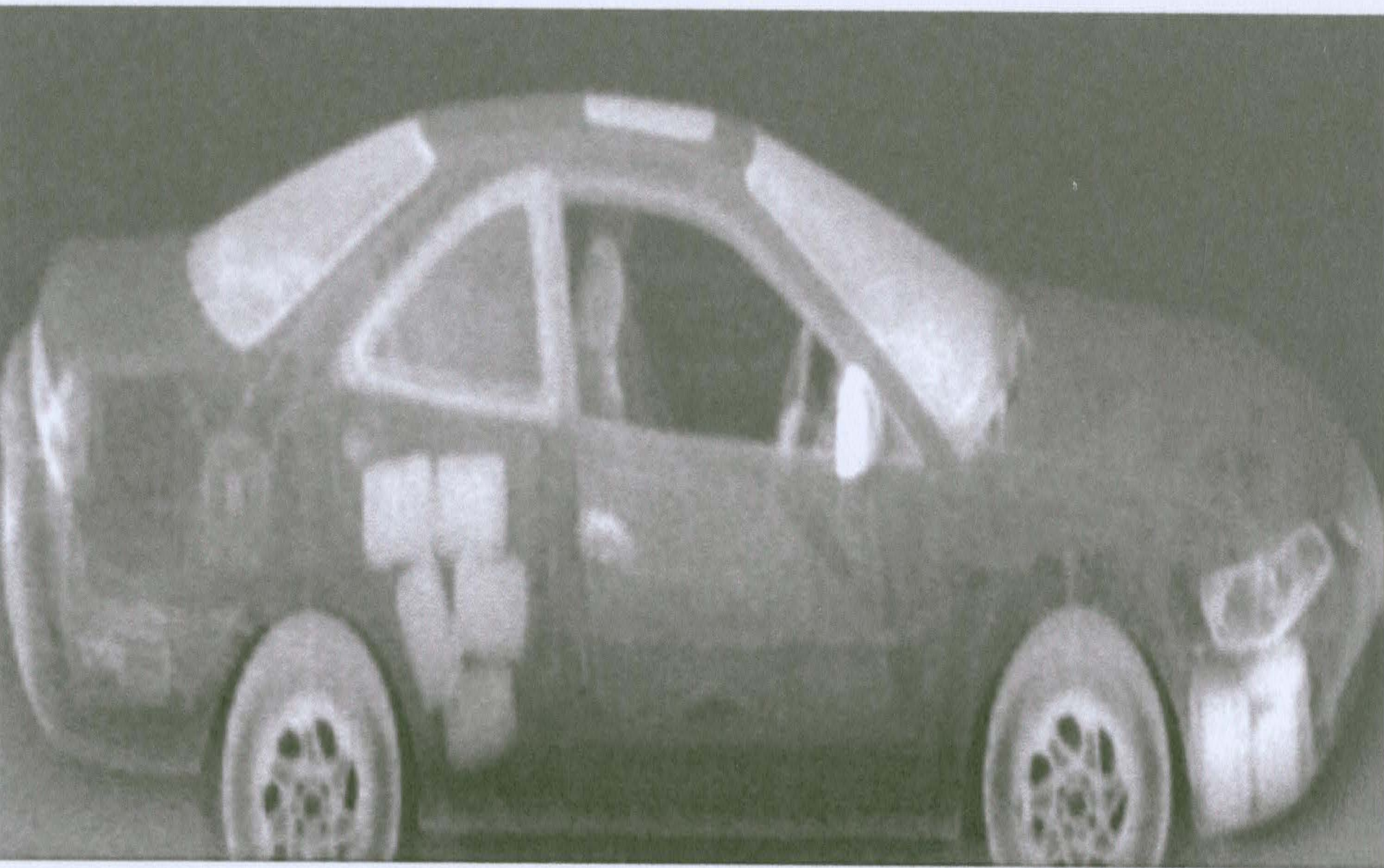
Three
Cartons of
cigarettes
inside of
computer
monitor

Three 2lbs
bags of
sugar inside
computer
monitor

3lb Delrin
block in place
of soda

Two 2lb b
of sugar
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:

