



# **DARPA<sup>®</sup>Tech**

## **2002 Symposium**

*Transforming*  
***Fantasy***

# **DARPA's Initiative on Asymmetric Threat:**

## **Total Information Awareness**

*Dr. John Poindexter*

*Director, Information Awareness Office*



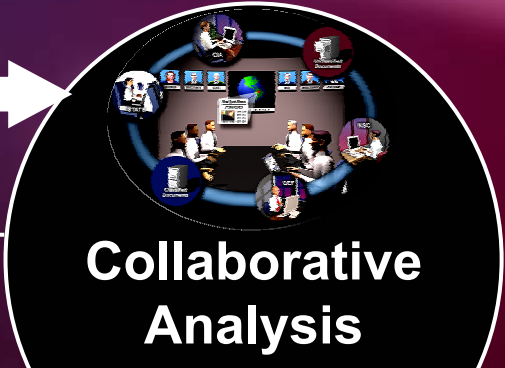
# Total Information Awareness System

Functional View

**Authentication**

**Conventional Intelligence**

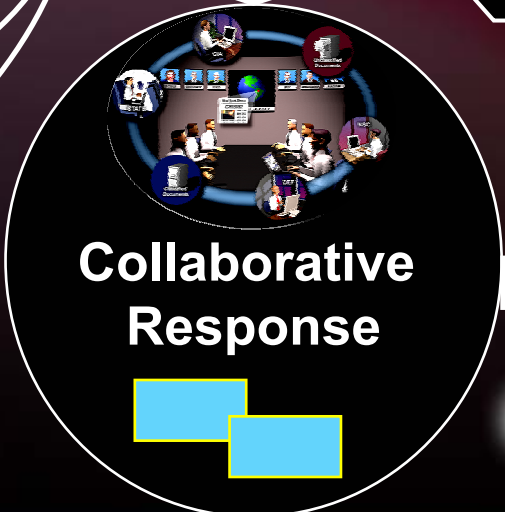
**Automated**



**Detect ➔ Classify ➔ ID ➔ Track ➔ Understand ➔ Preempt**

**Transactions**

**Filters**

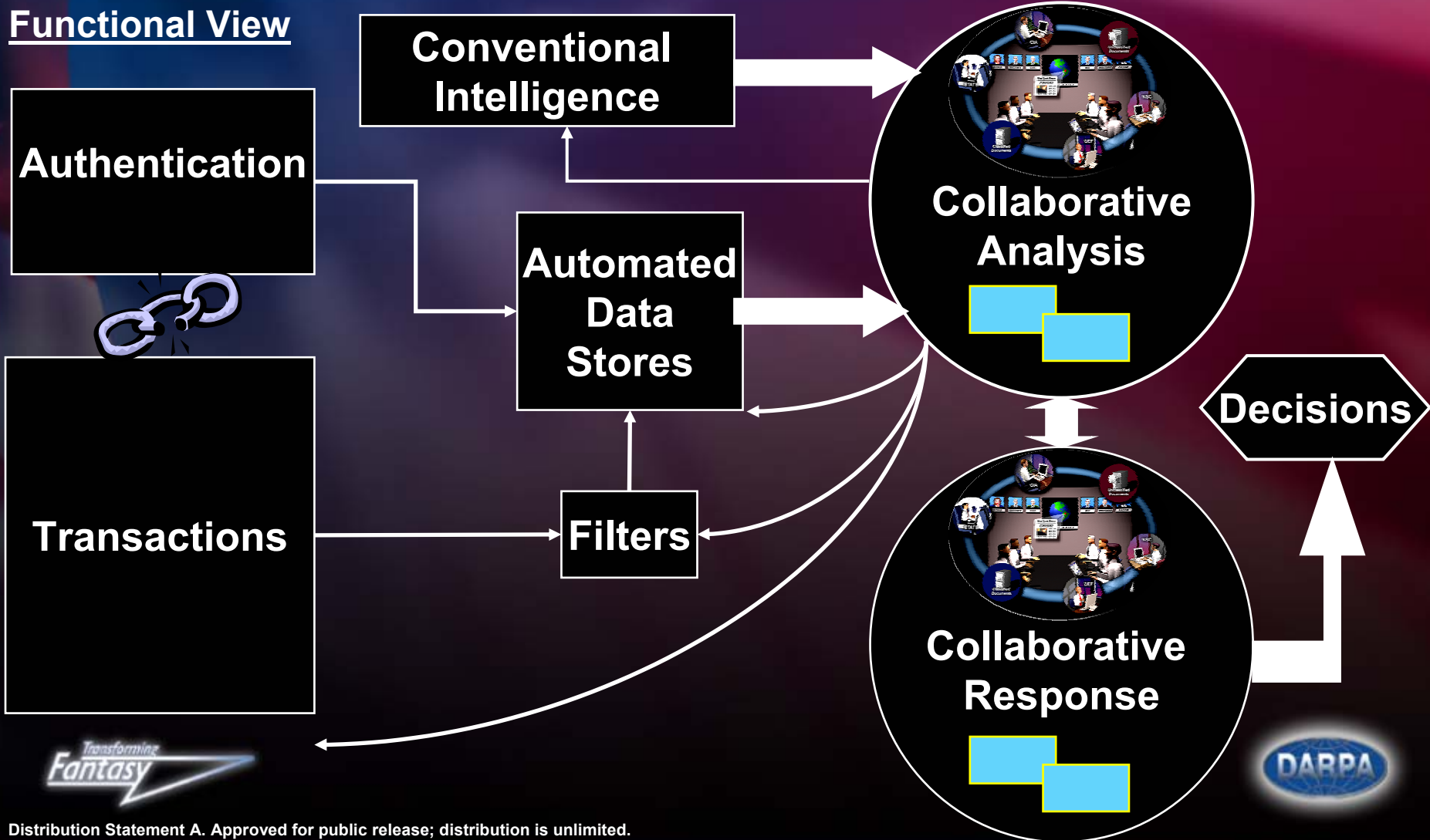


**Decisions**



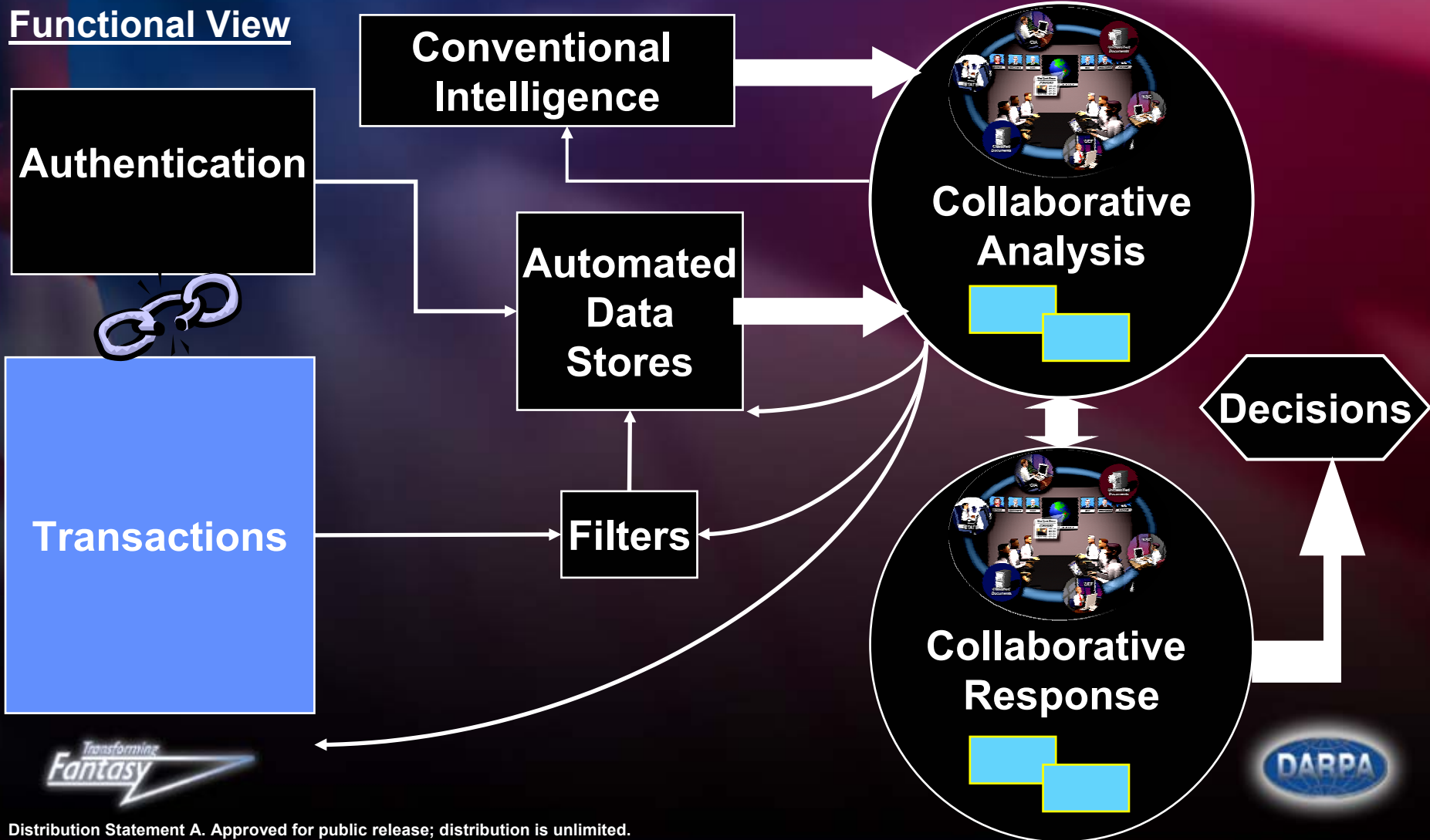
# Total Information Awareness System

## Functional View



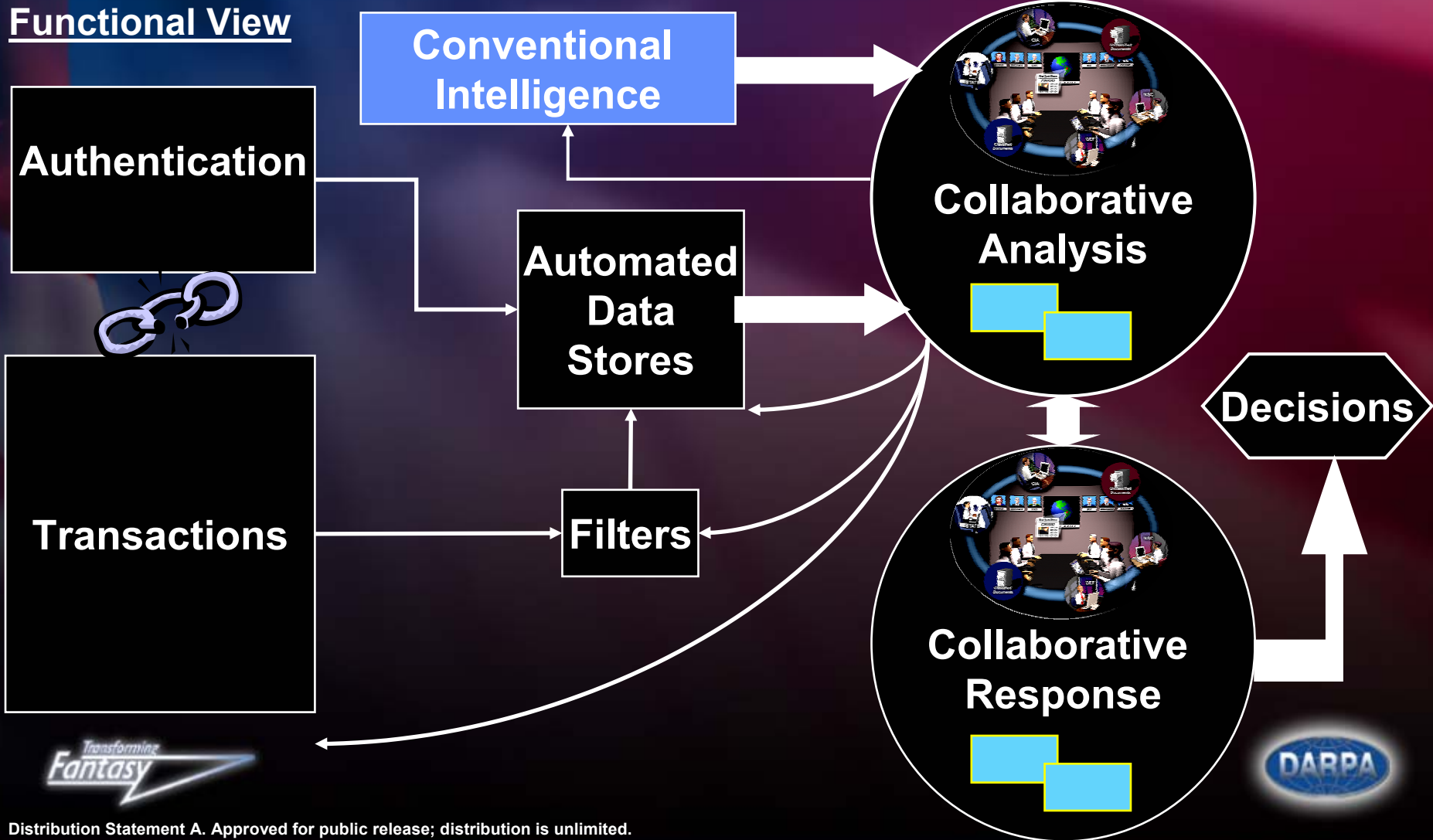
# Total Information Awareness System

## Functional View



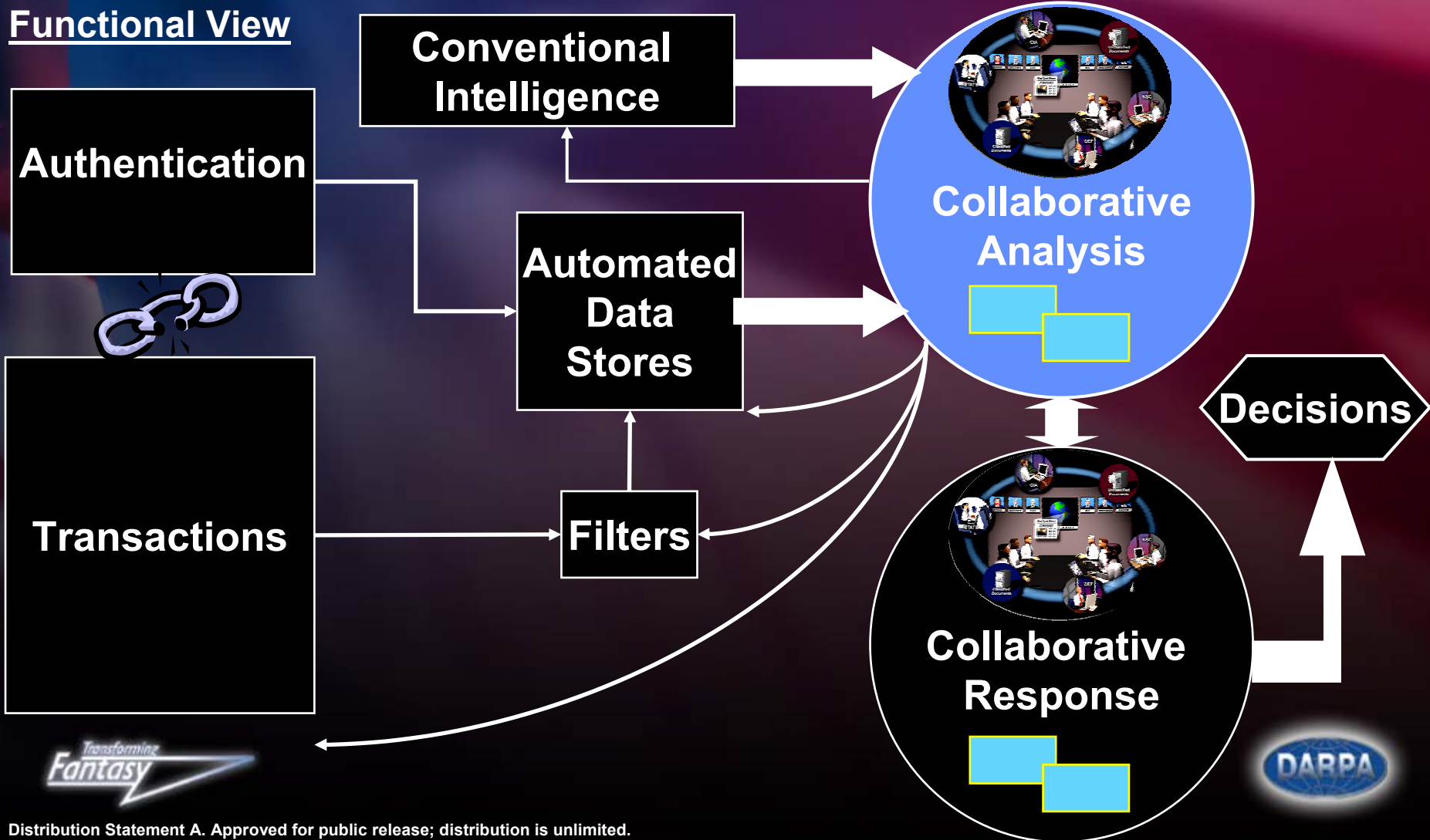
# Total Information Awareness System

## Functional View



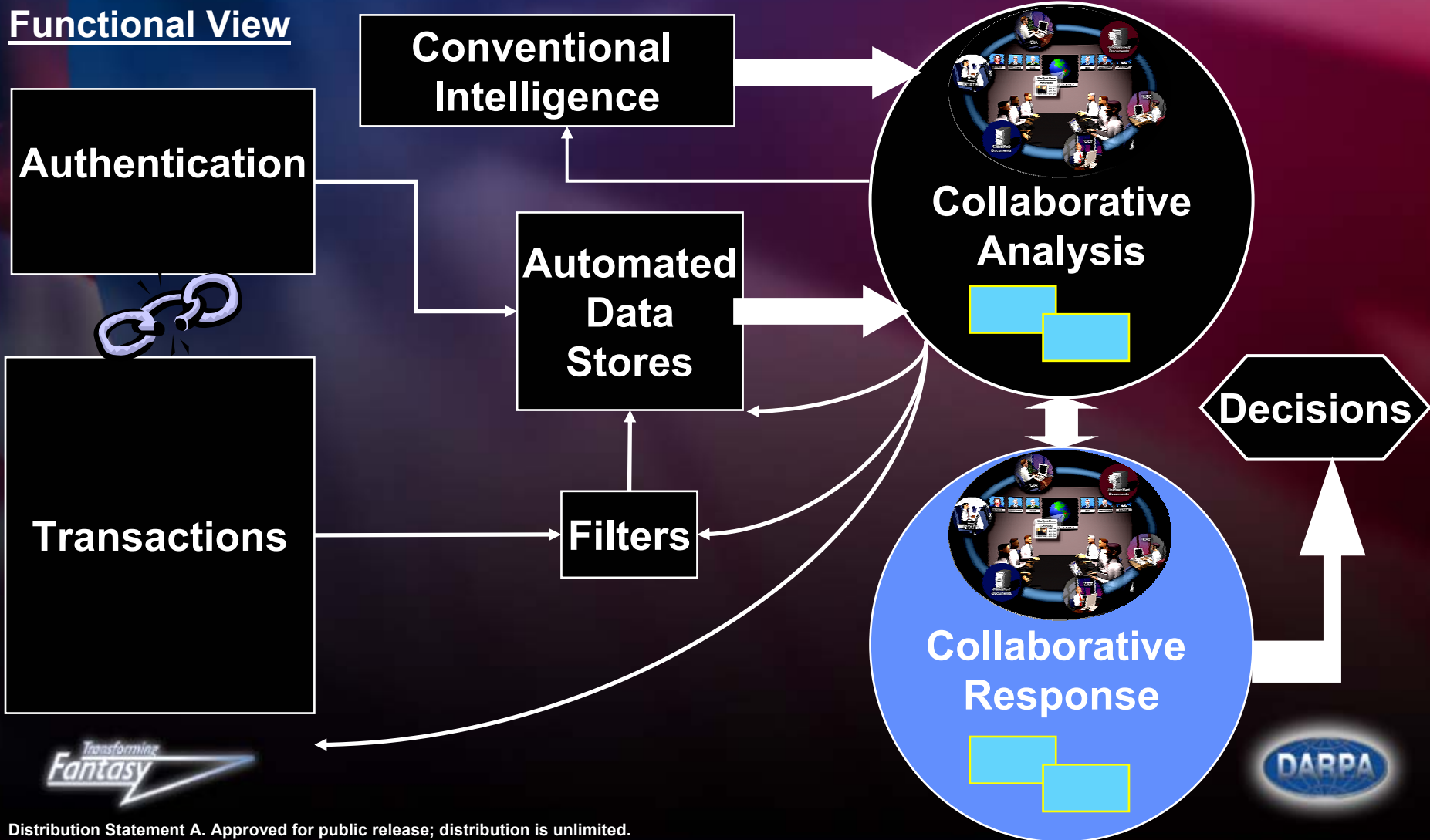
# Total Information Awareness System

## Functional View



# Total Information Awareness System

## Functional View





# Total Information Awareness System

Functional View

Conventional  
Intelligence

Authentication

Transactions

Human  
Identification  
(HID)

Collaborative  
Analysis

Collaborative  
Response

Decisions

DARPA



# Total Information Awareness System

Functional View

Authentication

Transactions

Conventional Intelligence

Automated Data Store

**Genisys**

Collaborative Analysis

Collaborative Response

Decisions



# Total Information Awareness System

Functional View

Conventional  
Intelligence

Authentication

**TIDES:**

Translingual Information  
Detection, Extraction and  
Summarization

**EARS:**

Effective Affordable Reusable  
Speech-To-Text

Transacti

Decisions

Cooperative  
Response

Transforming  
Fantasy

DARPA

# Total Information Awareness System

Functional View

Authentication

Conventional Intelligence

Automated

Collaborative Analysis

Transactions

**EELD:**

**Evidence Extraction and Link Discovery**

Collaborative Response

Decisions

DARPA



# Total Information Awareness System

Functional View

Conventional  
Intelligence

Authentication

**WAE**

Wargaming the Asymmetric Environment

**Bio-Surveillance**

Transactions

Filters

Collaborative  
Intelligence

Collaborative  
Response

Decisions

DARPA



# Total Information Awareness System

Functional View

Authentication

Conventional Intelligence

Automated

Genoa II

Transactions

Filters

Collaborative Analysis

Collaborative Response

Decisions



# Total Information Awareness System

Functional View

Conventional Intelligence

Authentication

# TIA

Collaborative Analysis

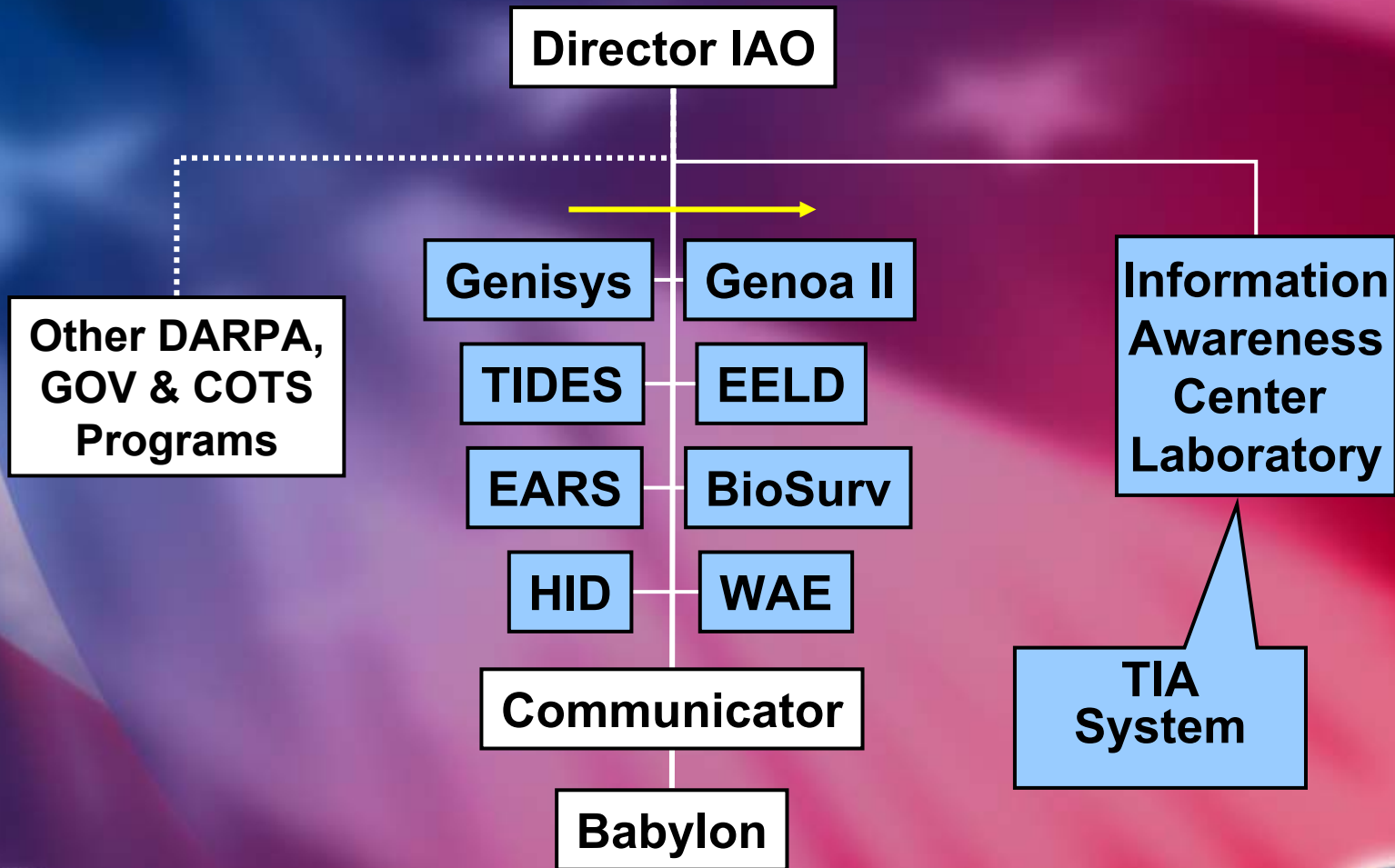
Transactions

Collaborative Response

Decisions

DARPA

# IAO Organization...





# Privacy

- ▶ **Taking several actions to address**
  - ISAT summer study
  - National Academy of Sciences
  - Investigating privacy protection technologies
  - Developing data base of synthetic transactions
  - New repository technology for the future

# *Summary*

- ▶ **Issued a Broad Agency Announcement (BAA) in March.**
- ▶ **Now have an initial version of TIA in operation.**
- ▶ **Ultimate success requires a co-evolution of:**
  - Technology
  - Process/Operations
  - Policy
  - Culture





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