



# **DARPA**<sup>®</sup>**Tech**

## **2002 Symposium**

*Transforming*  
**Fantasy**



**John Poindexter**

Director,  
Information  
Awareness Office





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

## **Total Information Awareness**

*Dr. John Poindexter*

*Director, Information Awareness Office*

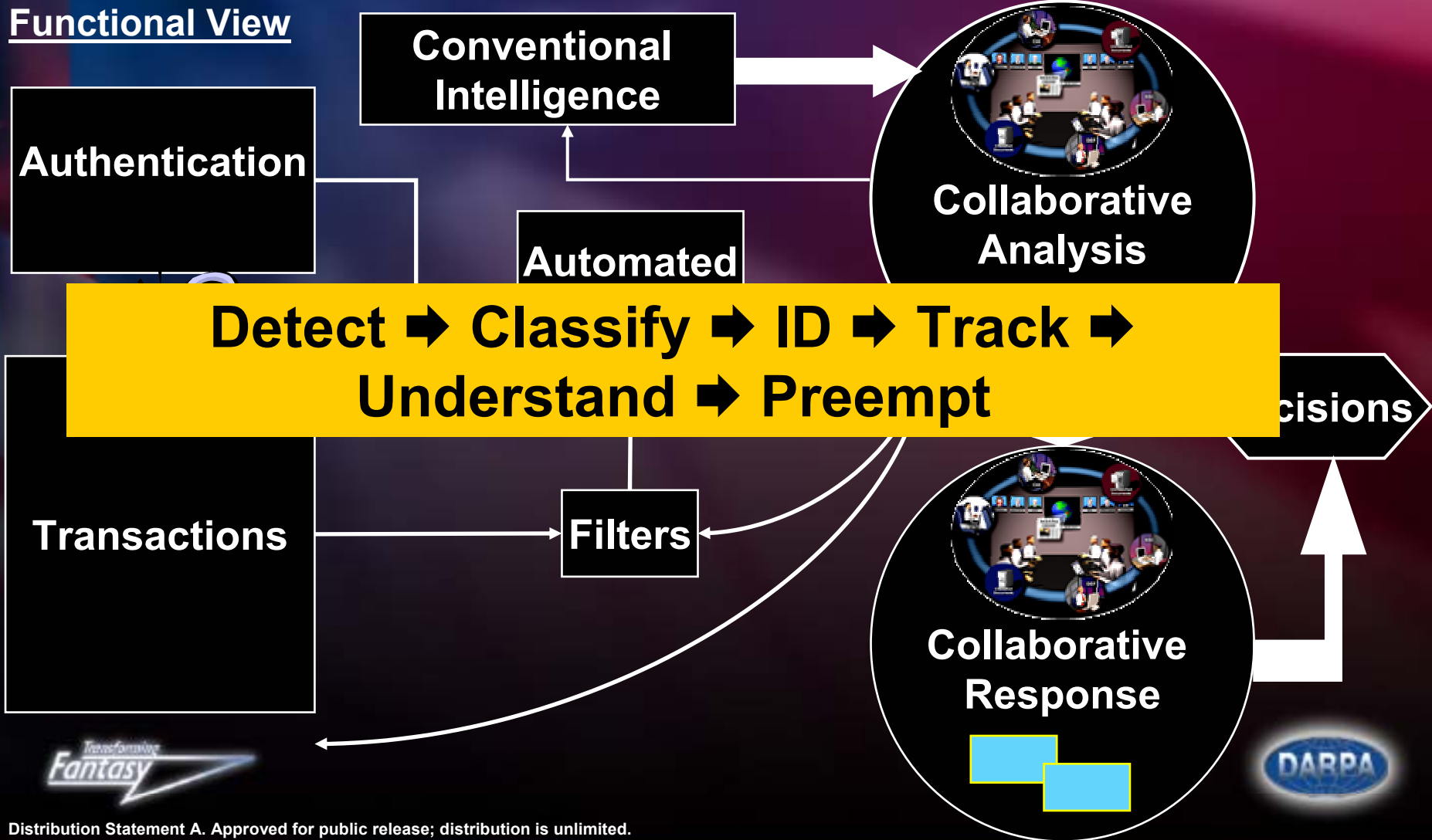
*jpindexer@darpa.mil 703-248-1533*





# Total Information Awareness System

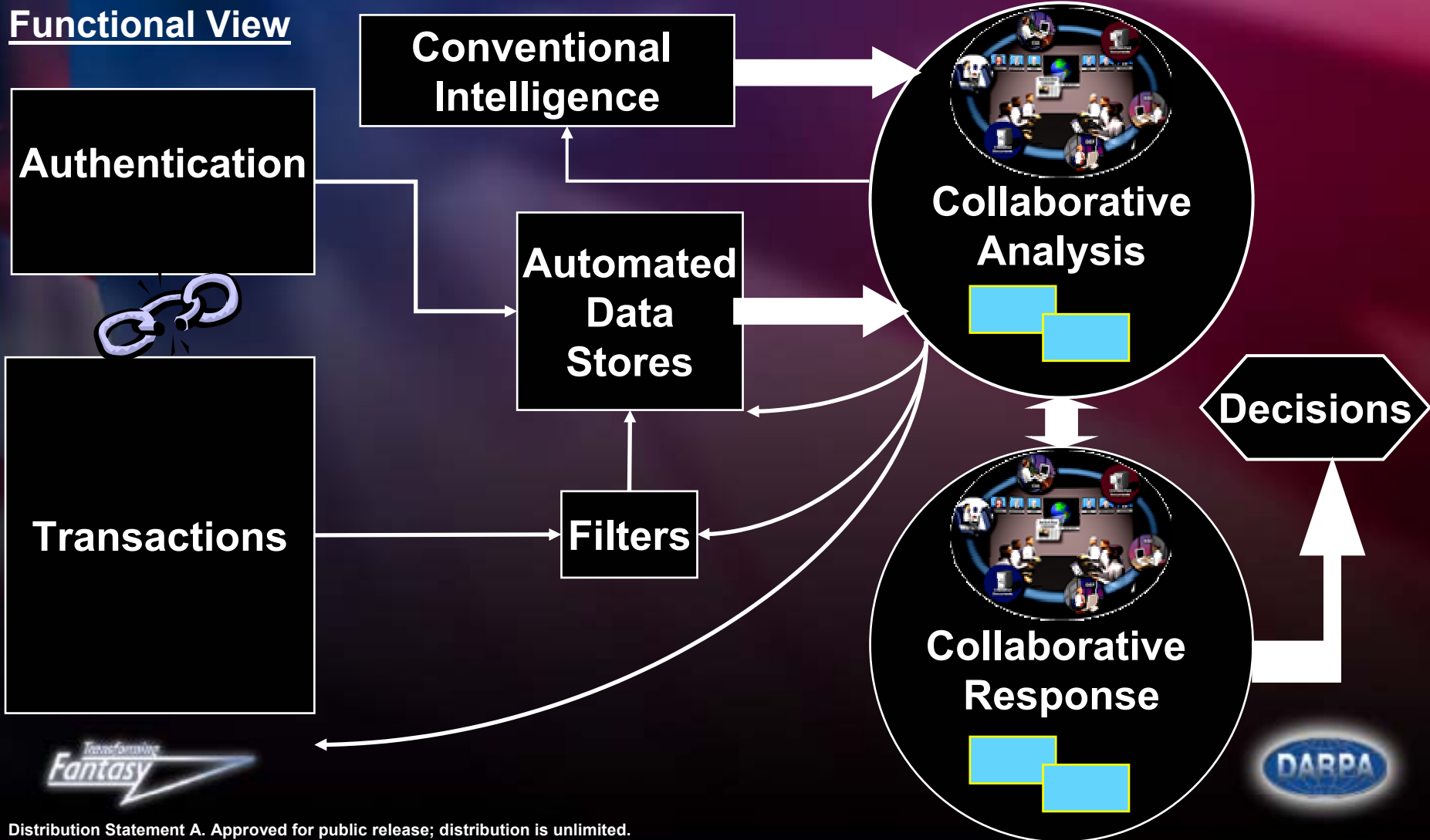
## Functional View





# Total Information Awareness System

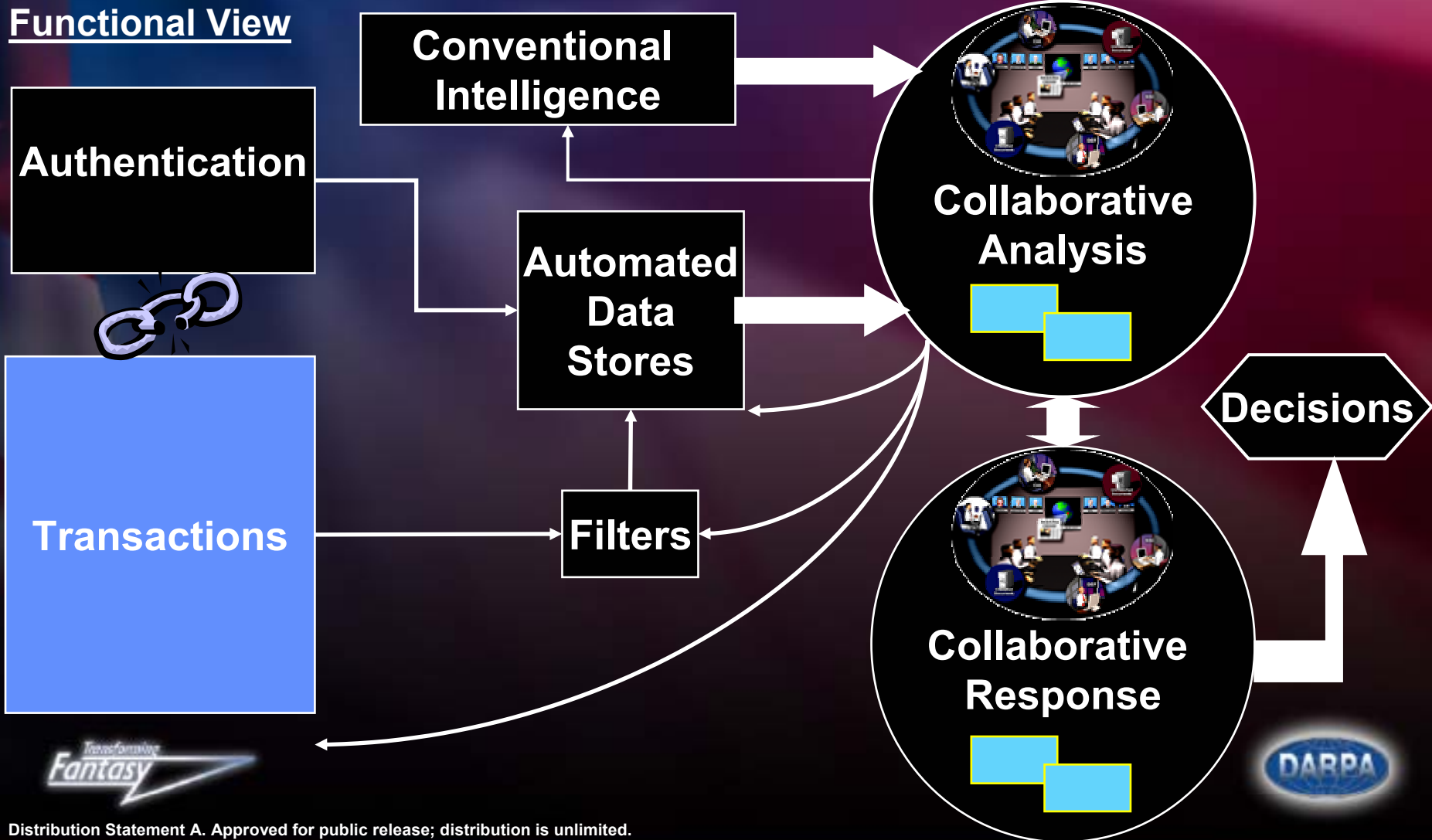
## Functional View





# Total Information Awareness System

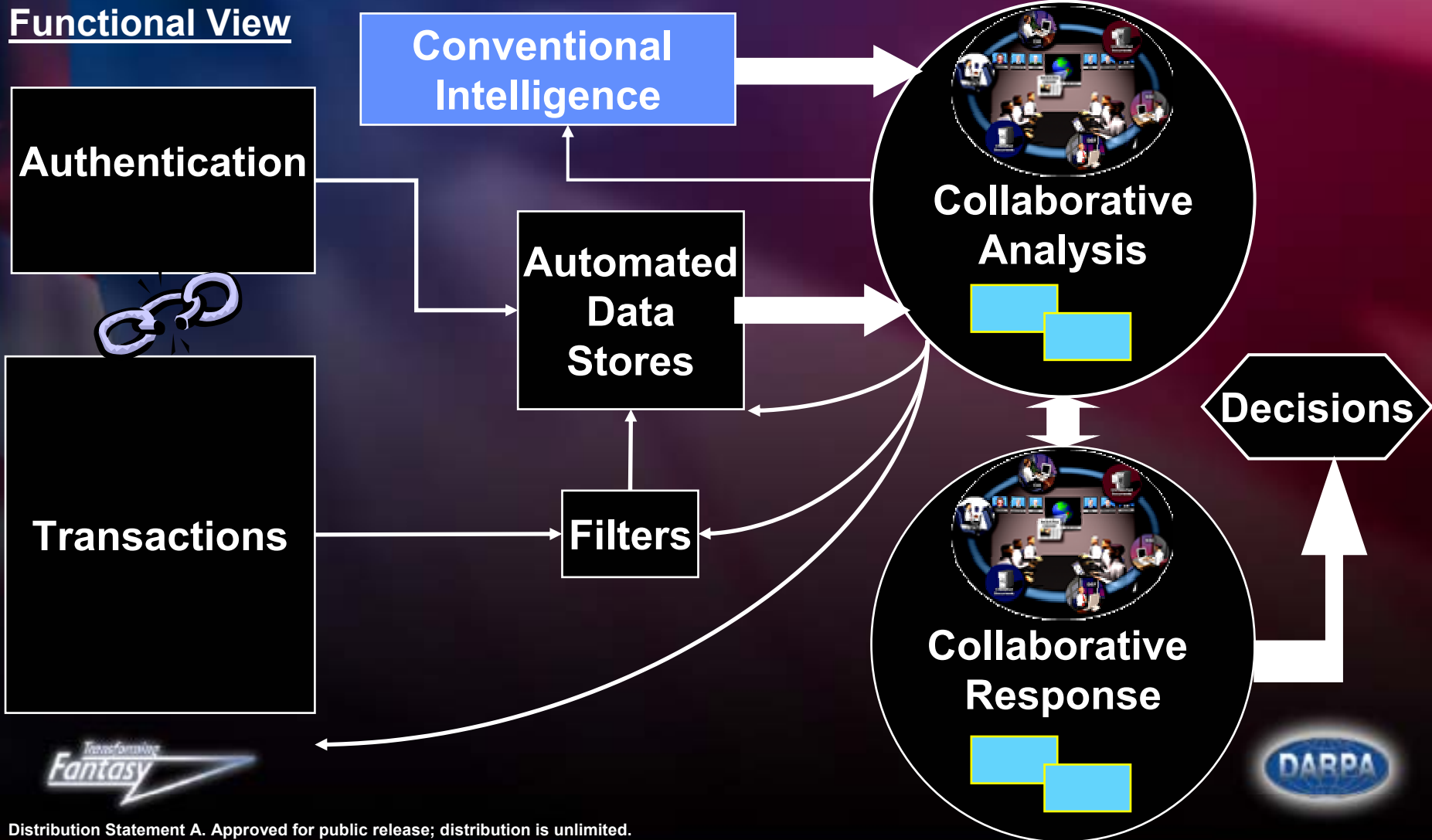
## Functional View





# Total Information Awareness System

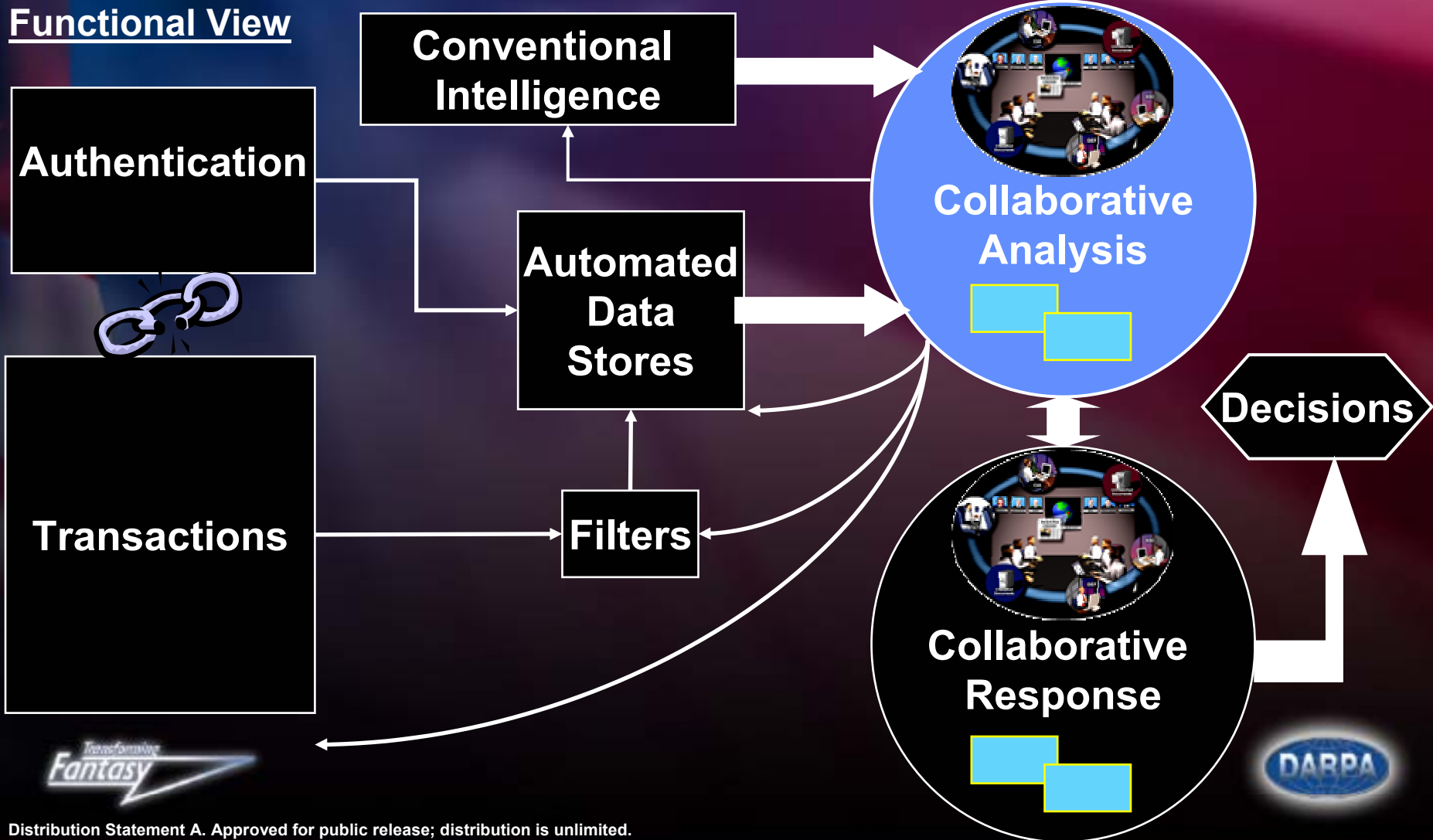
## Functional View





# Total Information Awareness System

## Functional View









# Total Information Awareness System

## Functional View

Authentication

Transactions

Conventional Intelligence

**Human Identification (HID)**

Collaborative Analysis

Collaborative Response

Decisions





# 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

ve

Decisions

Cooperative  
response

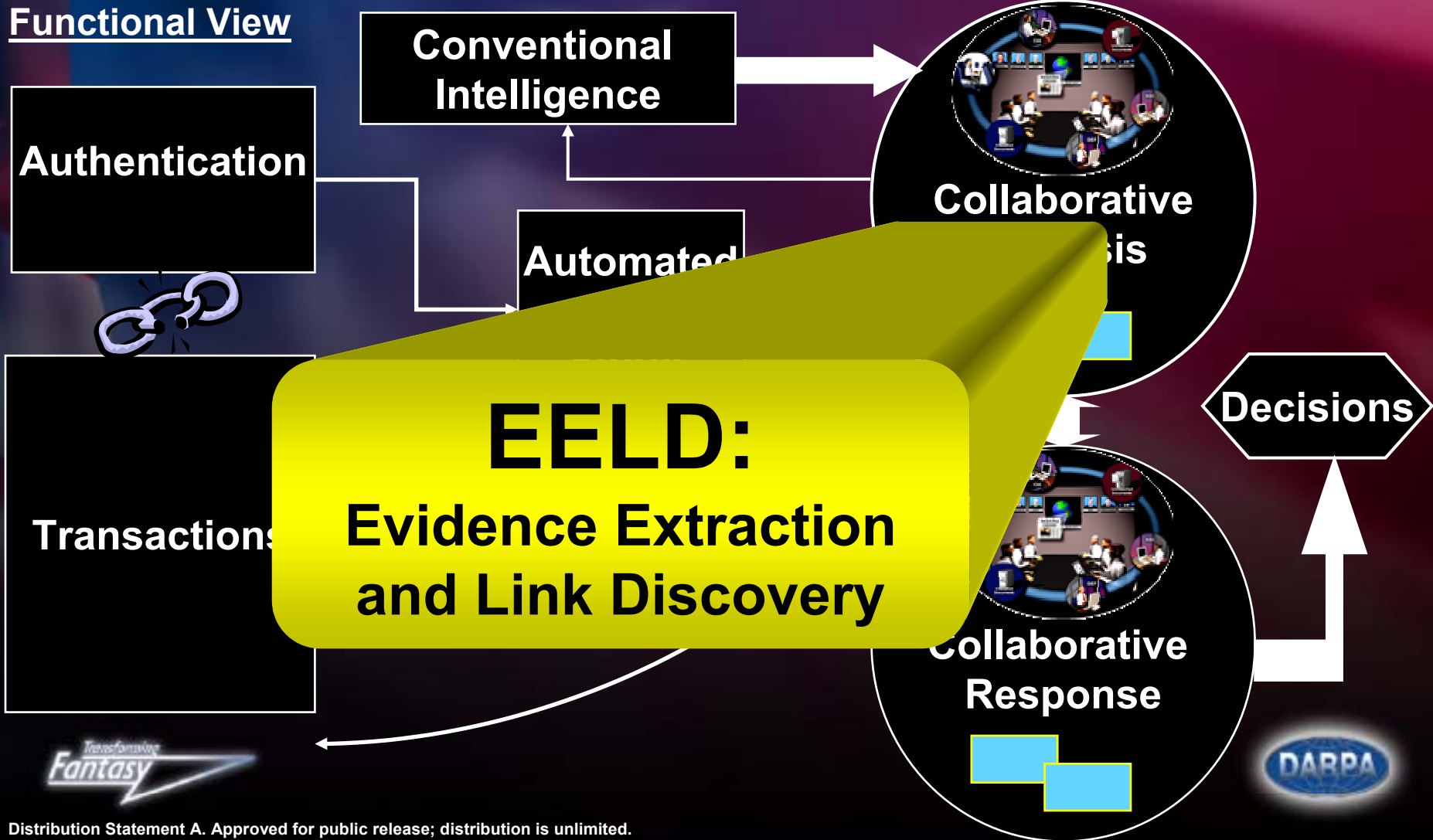
Transforming  
Fantasy





# Total Information Awareness System

## Functional View





# Total Information Awareness System

Functional View

Conventional  
Intelligence

Authentication

**WAE**

Wargaming the Asymmetric Environment

**Bio-Surveillance**

Transactions

Filters

Collaborative  
Intelligence

Collaborative  
Response

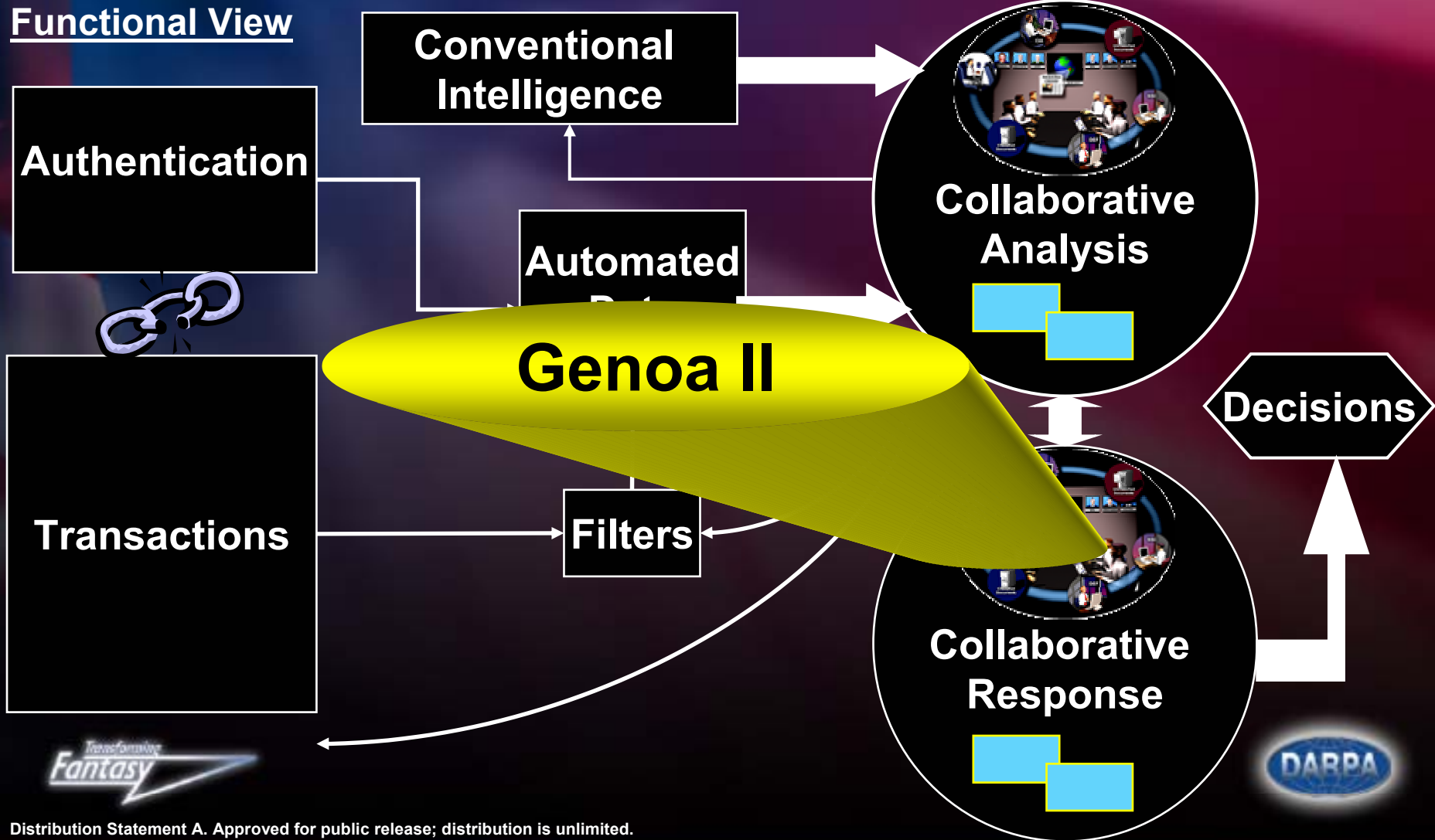
Decisions





# Total Information Awareness System

## Functional View





# Total Information Awareness System

Functional View

Conventional Intelligence

Authentication

# TIA

Collaborative Analysis

Transactions

Collaborative Response

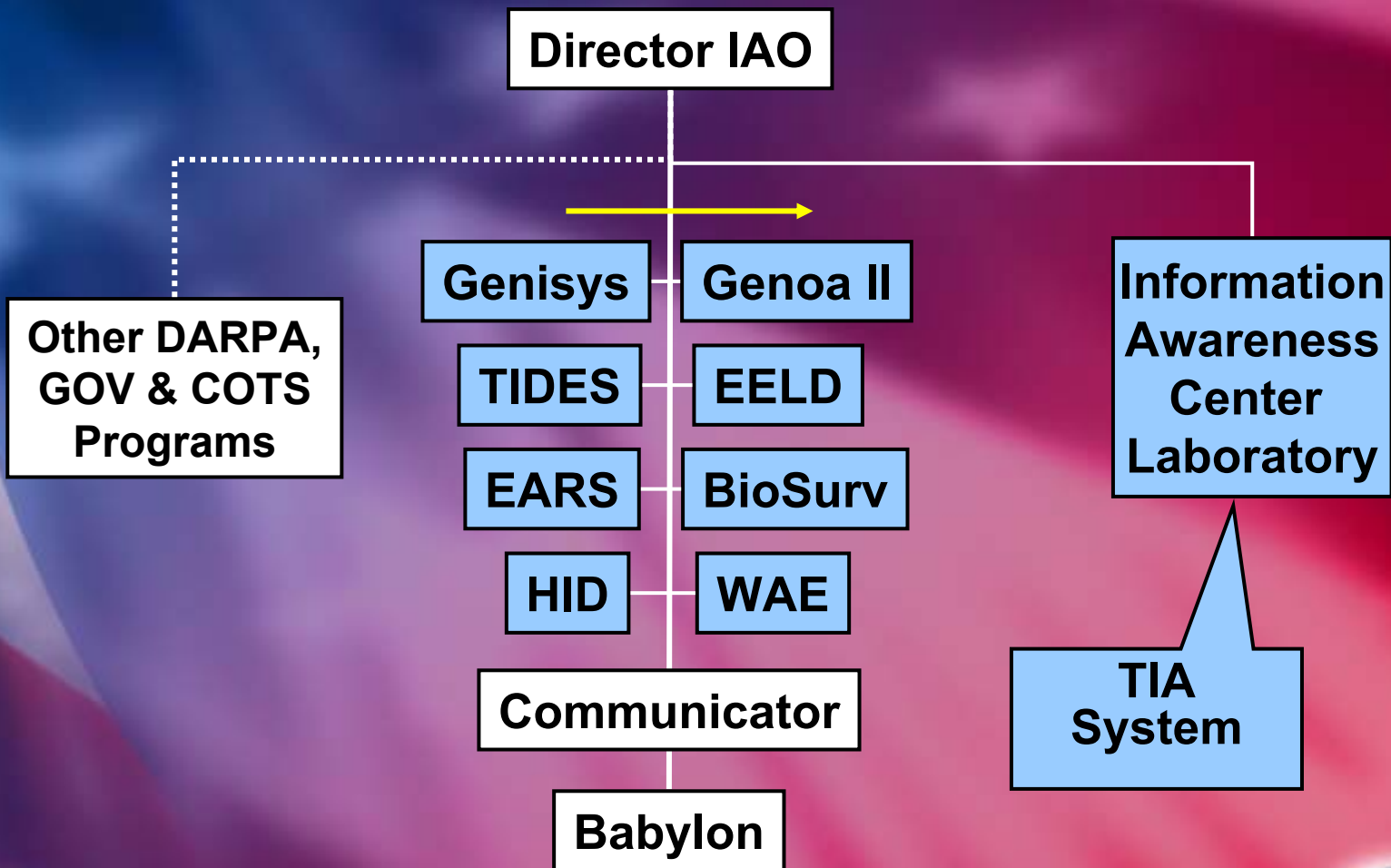
Decisions

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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