

ADSA Value & ALERT Linkage

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ALERT
AWARENESS AND LOCALIZATION
OF EXPLOSIVES-RELATED THREATS

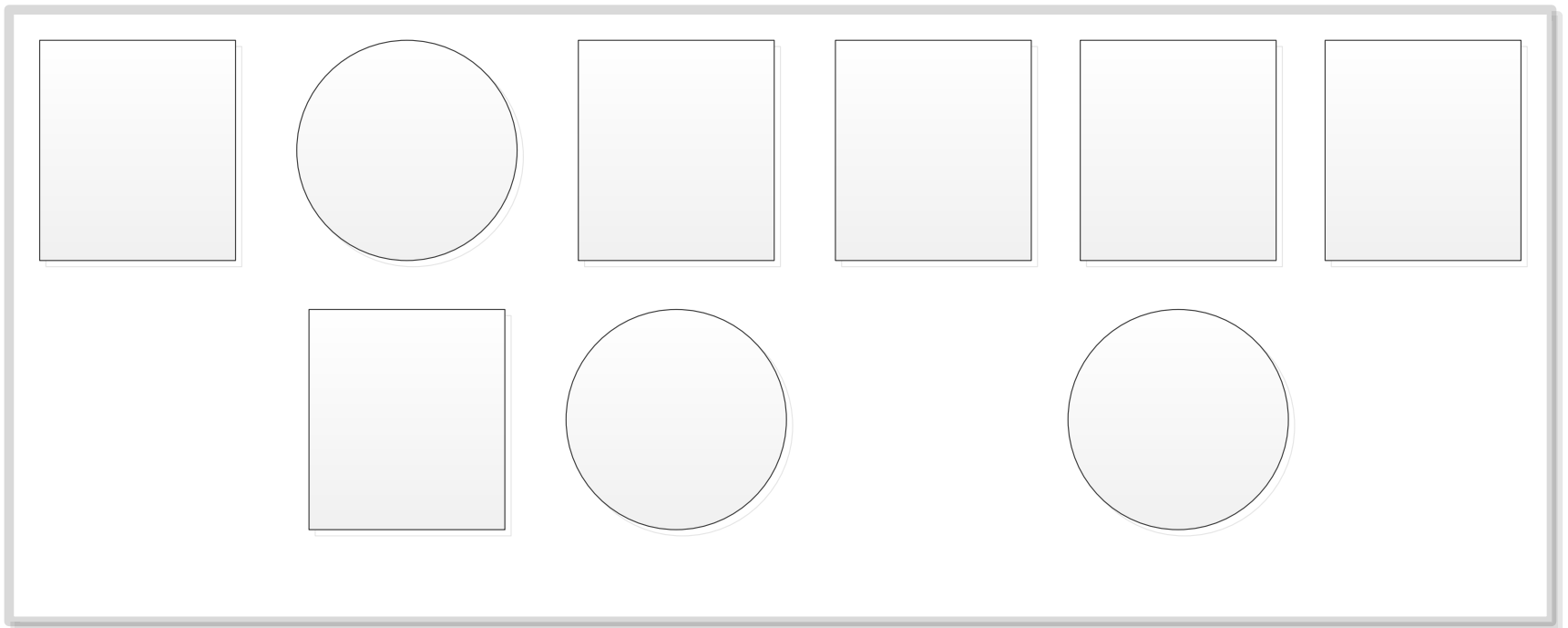
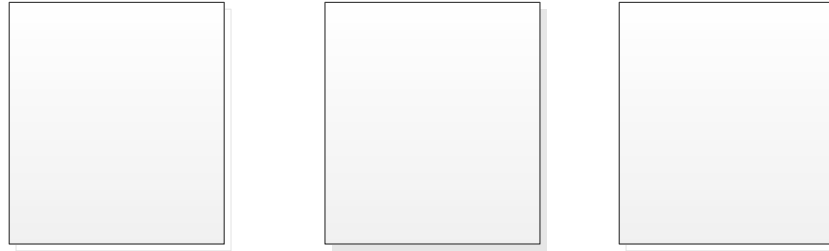
So What? Who Cares?

- ADSA1: April 2009
 - DHS charter: engage “third parties” in algorithm development
 - Third parties: academia, other industry, national labs
 - Follow model from medical imaging community (1000s PHDs at RSNA)
- Charter solved:
 - ~100 new people working in field (with DHS, TSA, vendors)
 - Unclassified equivalent problems created
 - Datasets and test tools in public domain
 - Technologies in TSA deployment pipeline
- ADSA itself
 - ~1000 people on mailing list; ~500 attendees
 - Scope expanded to more than algorithms
 - Environment for TSA, DHS, vendors, researchers to talk openly
- ADSA sanity check
 - What is the value of ADSA?
 - Future scope?
 - Format & frequency changes?
 - Addressing multiple conferences?
 - DHS Futures, SED, TED, IEEE HST, AVSEC, SPIE

TSA Needs & Solutions

- TSA needs and data classified
 - Chicken & egg with clearances – need to know difficult without clearance
 - Most researchers not eligible for clearance or SSI access
- Solutions (not easy)
 - Create equivalent problems (detect Pepsi in present of Swiss cheese)
 - Scan on medical scanners
- Projects
 - ALERT task orders
 - CT segmentation, CT reconstruction ATR, AATR, video tracking
 - SNL OTAP, Duke, Stratovan
- Results
 - ~100 new people working in field (with DHS, TSA, vendors)
 - Solutions into TSA roadmap

ADSA- ALERT Synergy



BACKUP SLIDES

ADSA History

- George Zarur & Doug Bauer chartered ALERT
- Augment capabilities and capacities of system vendors
- Involve third parties – academia, national labs, industry
- Follow model from medical imaging
 - 1000s of PHDs in R&D
 - Emulate RSNA: 50-100k people attending
- Forage into related fields
 - Medical imaging
 - Non-destructive testing