

CPC Demonstration Technology Transfer

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*Enabling the transition
from emerging technology
to common practice*

Report Documentation Page

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What are Criteria Documents?

- Unified Facilities Criteria (UFC) documents
- Unified Facilities Guide Specifications (UFGS)
- Technical Manuals (TM)
- Engineer Regulations (ER)
- Engineer Manuals (EM)
- Engineer Technical Letters (ETL)
- Engineer Circulars (EC)
- Design Guides and Instructions
- Engineering and Construction Bulletins (ECB)
- Public Works Technical Bulletins (PWTB)
- Engineering Software
- Library of Standard Facilities Designs
- Whole Building Design Guide (WBDG) website (www.wbdg.org)
- USACE TechInfo website (www.hnd.usace.army.mil/techinfo/engpubs.htm)

Criteria Document “Shortfalls”

- Fragmented system for introducing new and emerging technologies into criteria documents
- Heavy focus on updates of referenced “industry standards” in UFGS
- UFGS only criteria document that has consistent update system & funding - no recurring funding or update system for other criteria documents
- Many critical UFC documents for facility BASOPS & SRM are very dated
- Technology transfer using only criteria documents is very “passive” and does not work well for inexperienced staff

Necessary, but is it Sufficient?

RDT&E
Reports

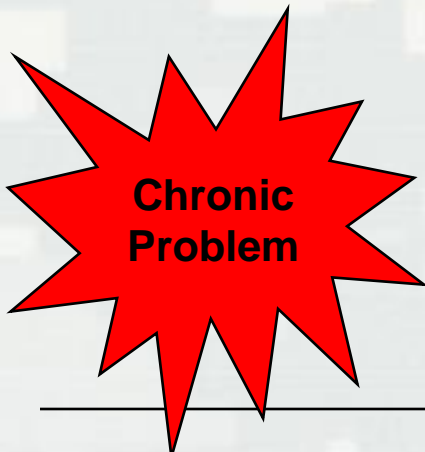
Policy &
Procedures



Criteria
Documents



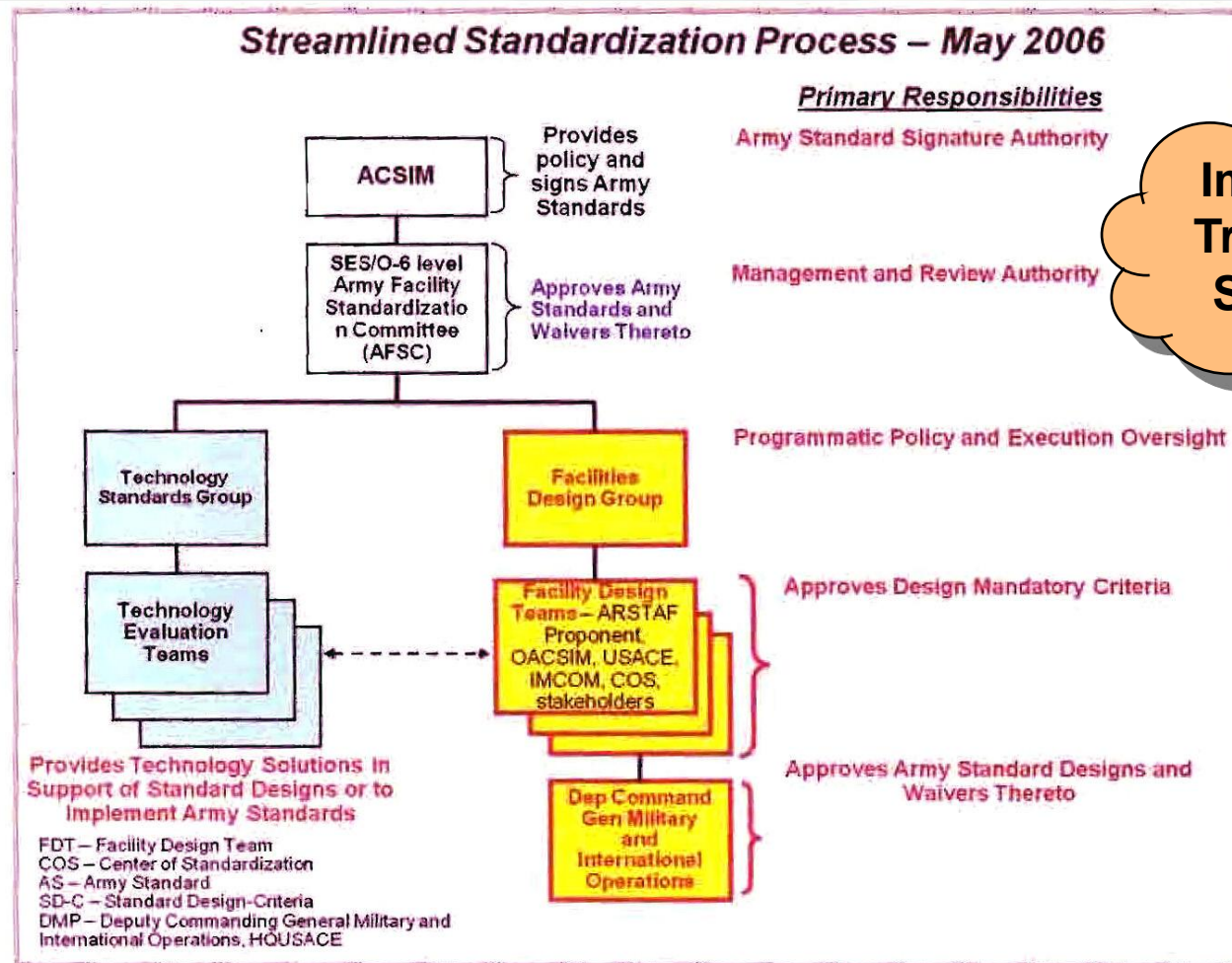
COTS
Technology



Personal
Experience

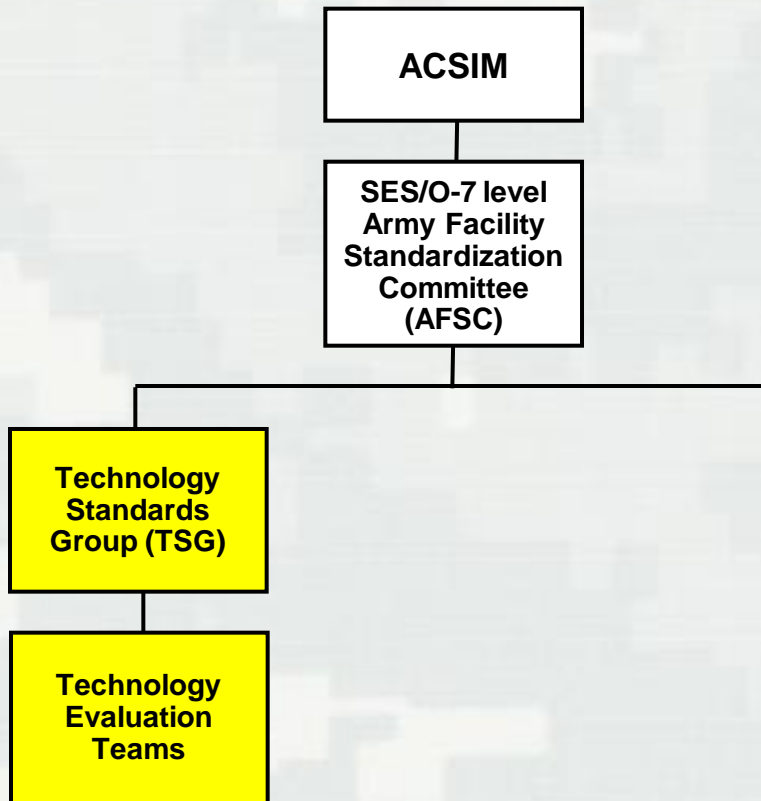
Industry
Practice

Integrate with ACSIM Facility Standardization Process



Graphic courtesy of Operations Directorate, OACSIM

Technology Standards Group Overview

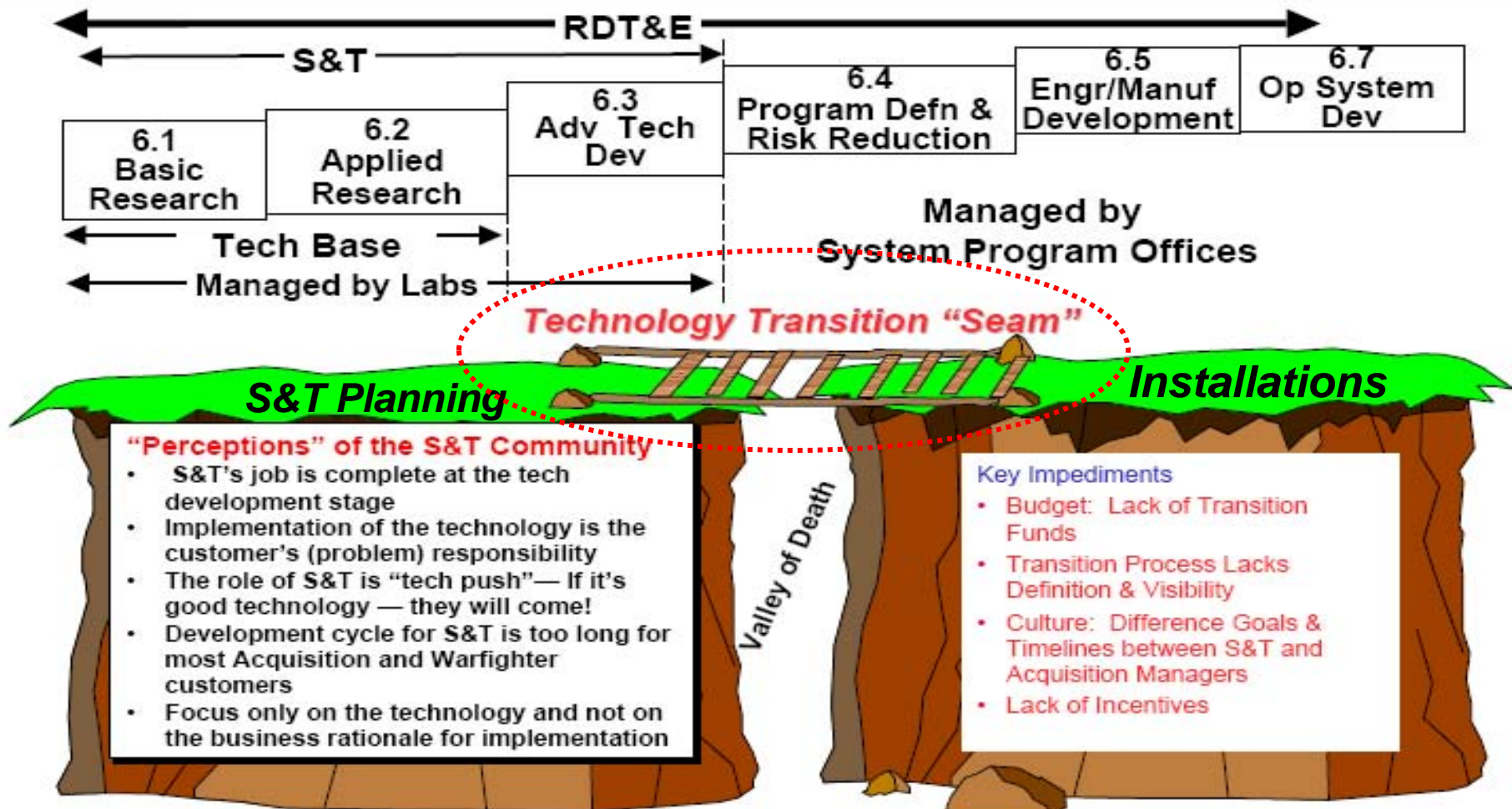


TSG members:

Phil Columbus (ACSIM-ODF Chair)
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- Establishes Army Standards applicable to construction, renovation, and maintenance of facilities.
- Administers the Installation Technology Transition Program (ITTP).
- Evaluates Technologies for Army-wide implementation.
- Recommends improvements to policy, standards and guidance related to facilities O,M & R
- Provides guidance to AFSC regarding waiver requests of Army Standards.

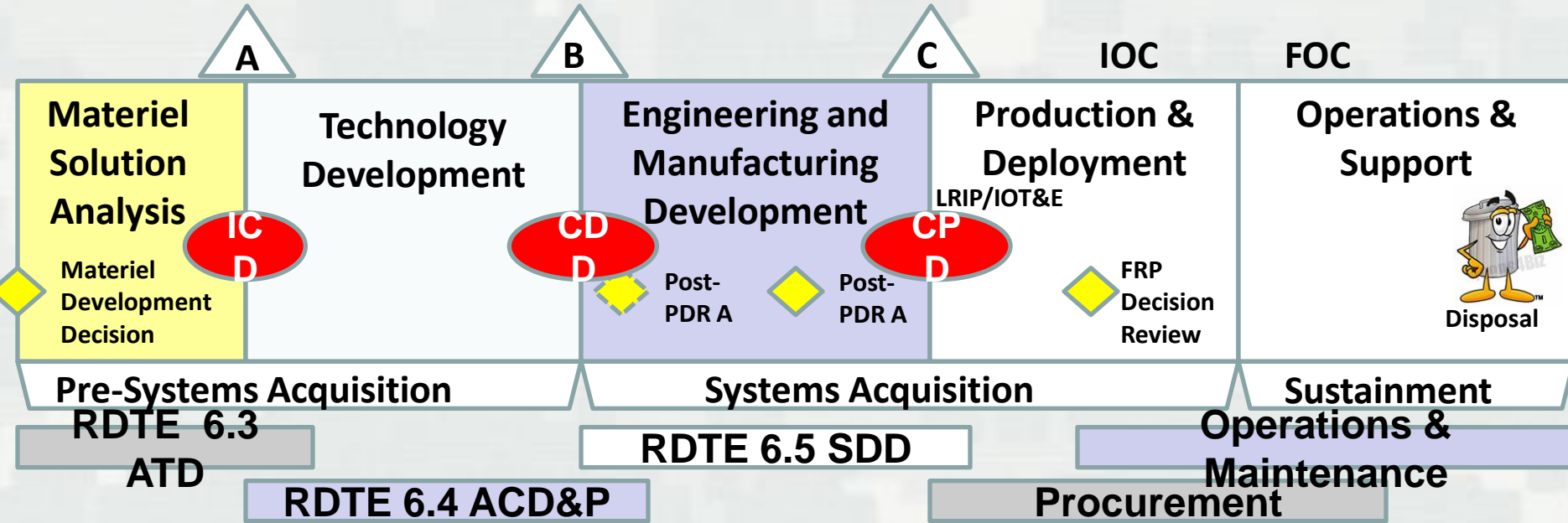
Speeding Technology Transition “The Challenge”



Equipment Development & Infusion Process

RDTE 6.1 BR

RDTE 6.2 AR



- Environment for which item will be operated, maintained, and stored
- Operational Tempo
- Logistics support requirements
 - Specifications and Standards
 - Quantitative measures
 - Data management
 - Prototypes
 - Material selection
 - Geometry
 - Coatings and finishes
- Testing
- Oils & Lubricants
- Preservatives
- Packaging
- Training Dev
- Log Mgmt Info Dev
- Production
- Operational Test
- New Equip Trne
- MOS S
- Fieldi
- Operate
- Maintain

Formal & Resourced Army Process

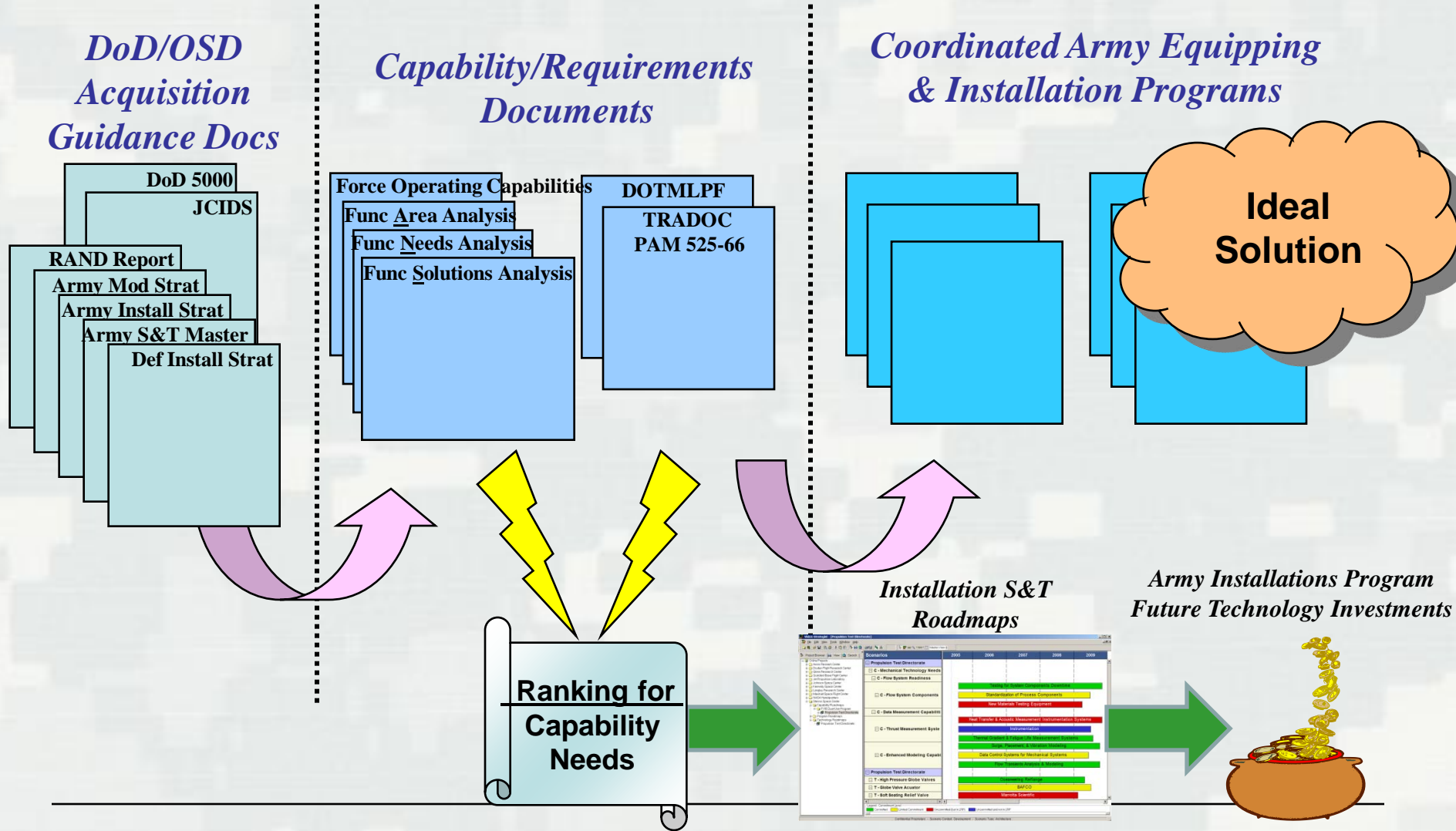
at Disposal

BR = Basic Research
 ATD = Advanced Technology Development
 SDD = System Development & Demonstration
 CDD = Capabilities Development Document

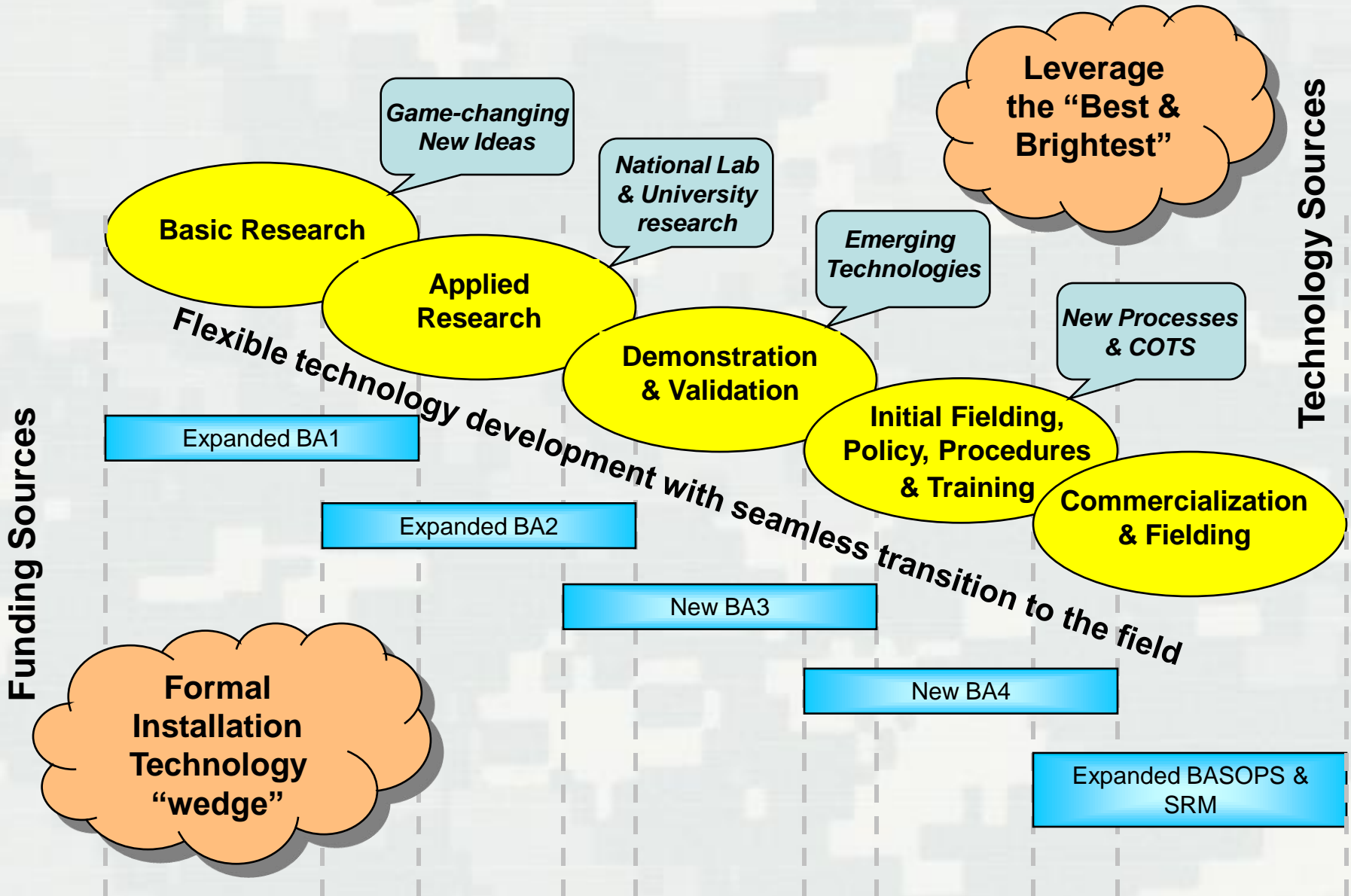
**Design the System
 Design the Support
 Support the Design**

AR = Applied Research
 ACD&P = Advanced Component Development and Prototypes
 ICD = Initial Capabilities Document
 CPD = Capabilities Production Document

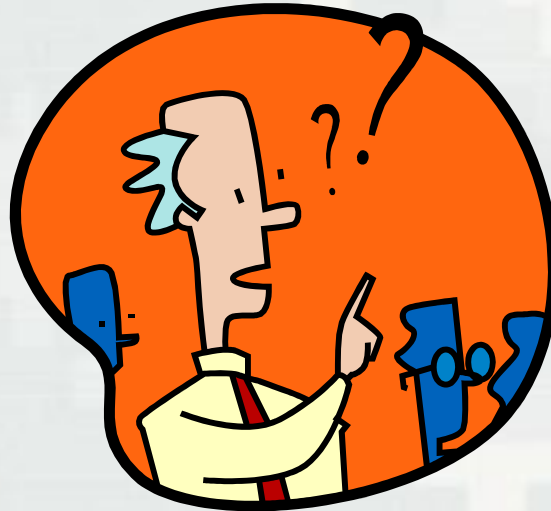
Establish a Formal Capability Assessment & Acquisition Process for Installations



Coordinated Transition of Technology



Questions?



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