



**T R A I N I N G   &   S I M U L A T I O N  
I N D U S T R Y   S Y M P O S I U M**

**14-15 JUNE 2016**  
**Rosen Centre**  
**Orlando, FL**



AFMC



ACC-ORLANDO



ARL-ORLANDO



NAWCTSD



PEO STRI



PM TRASYS

PEO STRI

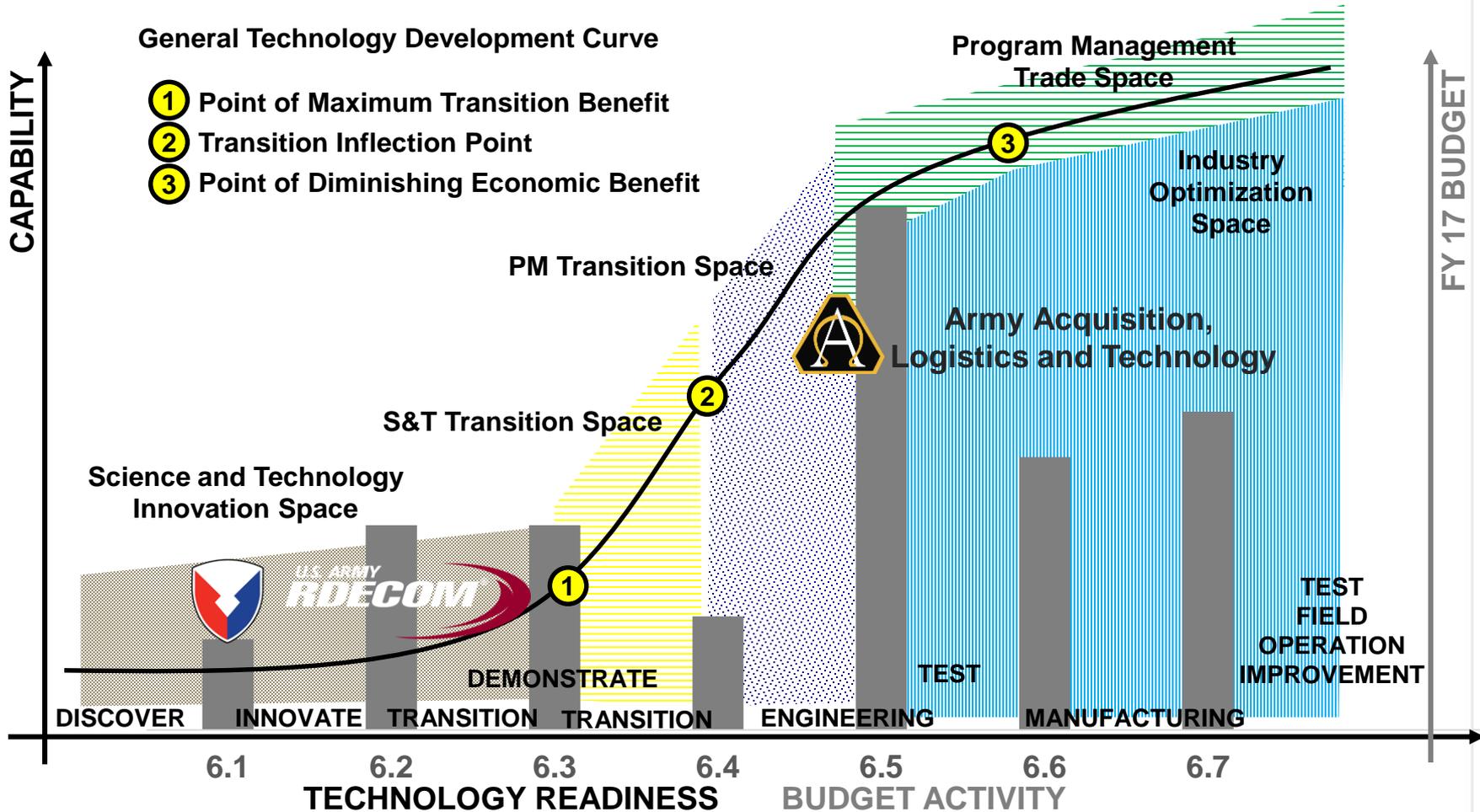


PEO STRI

**Traci Jones**

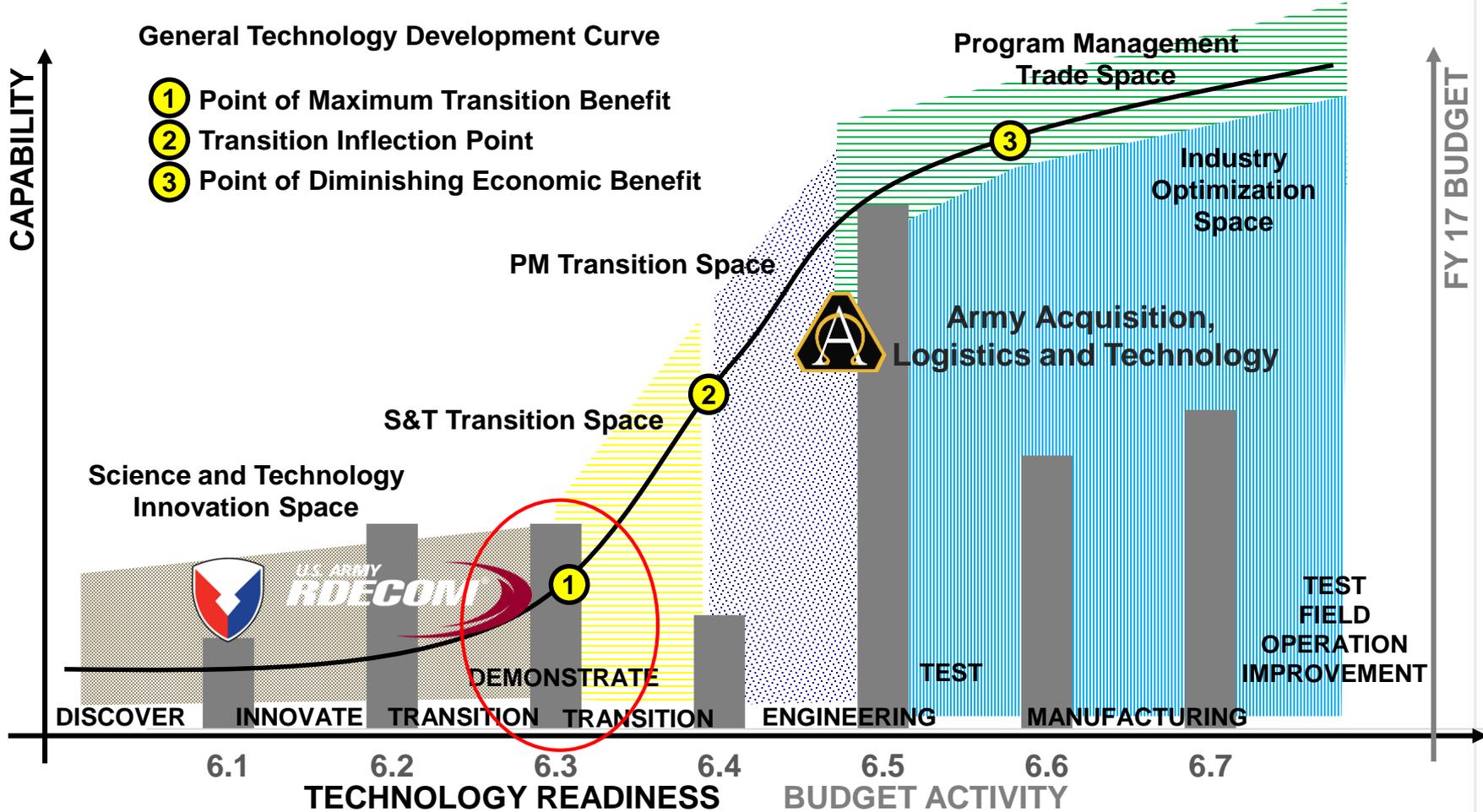
PEO STRI – G5

# FROM ARL ORLANDO...



<b>Risk</b>	Empty Wells, Missed Tech	Overmatch, Black Swan	Sustainment, Hedge
<b>Opportunity</b>	Concepts, Requirements	Options, Life Cycle Cost	Industrial Base, Acquisition Velocity

# OUR FOCUS...



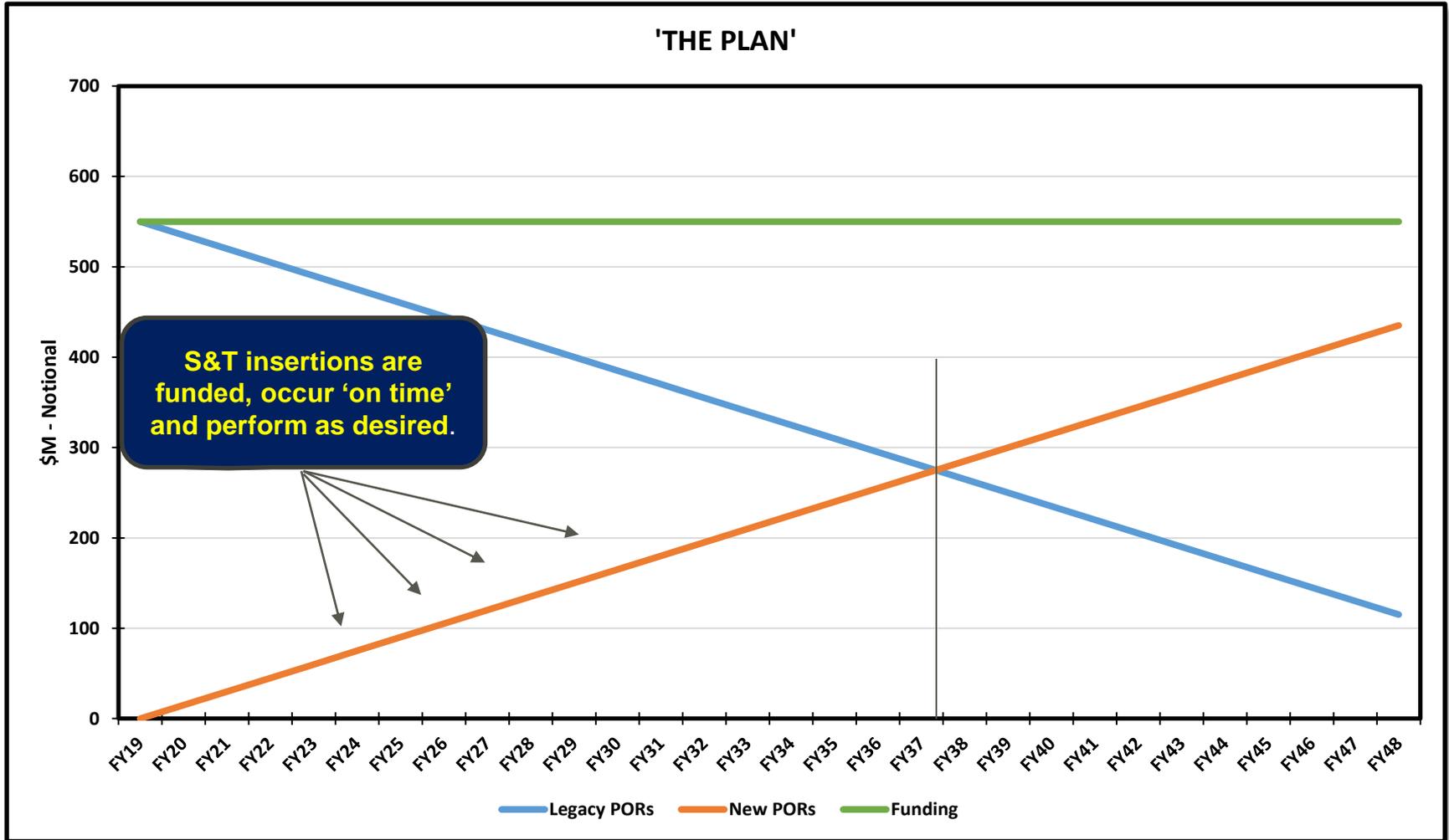
<b>Risk</b>	Empty Wells, Missed Tech	Overmatch, Black Swan	Sustainment, Hedge
<b>Opportunity</b>	Concepts, Requirements	Options, Life Cycle Cost	Industrial Base, Acquisition Velocity

- Long-range Investment Requirement Analysis (LIRA)
  - Requires a 30 year strategic plan
  - Requires an IPT...HQ Staff, TRADOC, PEO and RDECOM
  - Original focus was on linking S&T project to PORs
  - Maps PORs to Capability Gaps and known S&T efforts to close those gaps
  - Informs leadership in support of fact-based decision making
- Original objectives were PORS within the EE PEG
- TT PEG is in its third iteration of (NSTD) LIRA
- Does not encompass the entirety of the TT PEG funding ( $\approx 7\%$ )

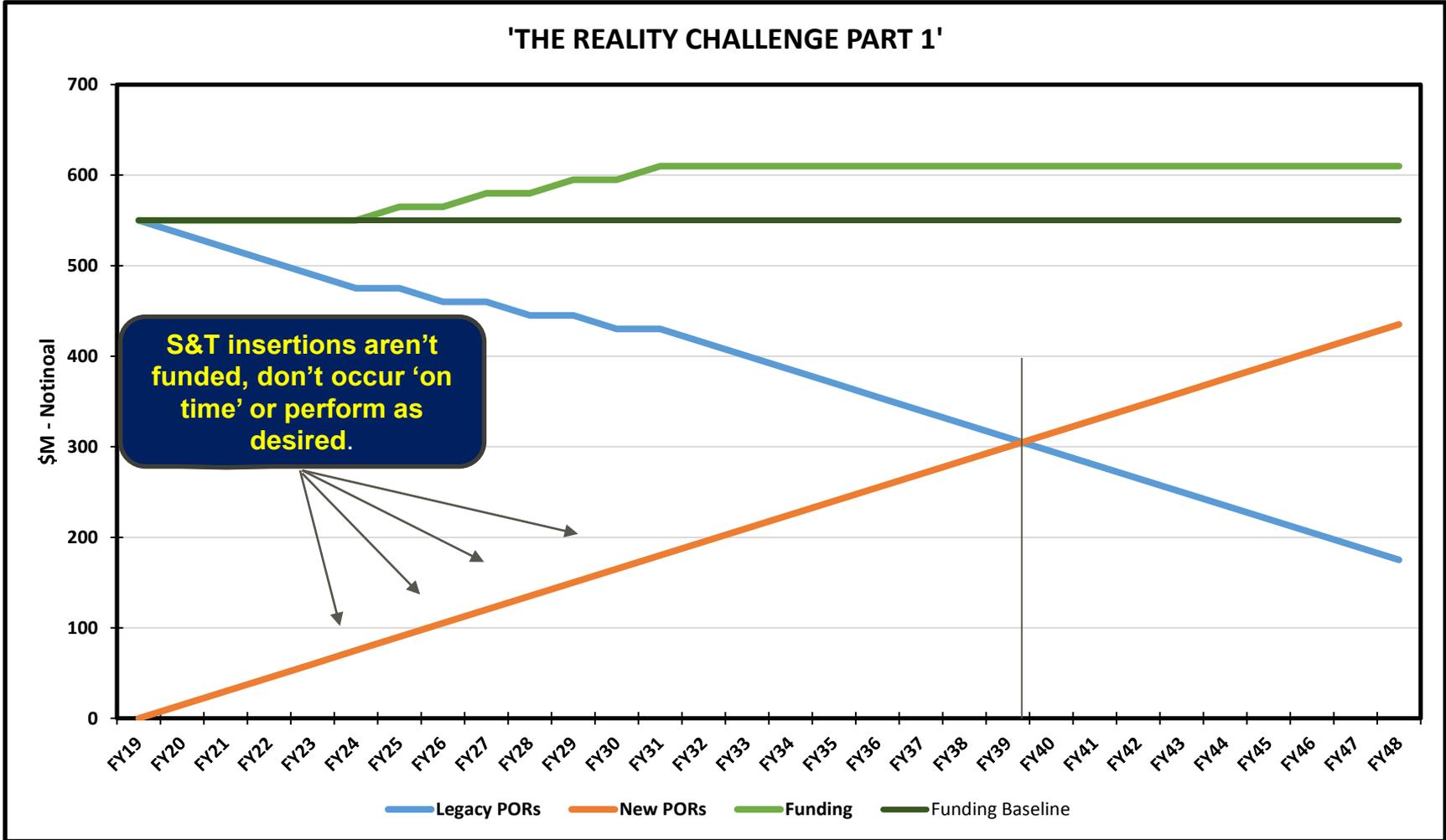
- The NSTD POR Baseline is fixed
  - There will be no 'infusion' of resourcing from outside the TT PEG
  - Adjustments for inflation will be flat, marginal at best
- Sustaining the Legacy PORs and procuring Future PORs to meet current and evolving requirements must occur within the existing NSTD funding baseline
- COCOMs/COEs strongly desire to sustain most Legacy PORs prior to the fielding of Future PORs
- The Army must divest itself of Legacy PORs in order to procure Future PORs to meet evolving requirements
- The Army must accept risk to readiness in transitioning to Future PORs

- How to resource solutions for new requirements while sustaining legacy PORs?
- What is the impact/acceptable risk of divesting the Army of legacy PORs in order to resource solutions for new/evolving requirements?
- To what degree does the ‘probability’ of achieving an S&T insertion to resolve a capability gap ‘drive’ the Future POR schedule?
- How do we resource 6.3 R&D ‘Transition’ lines?
  - Traditionally identified, seldom resourced

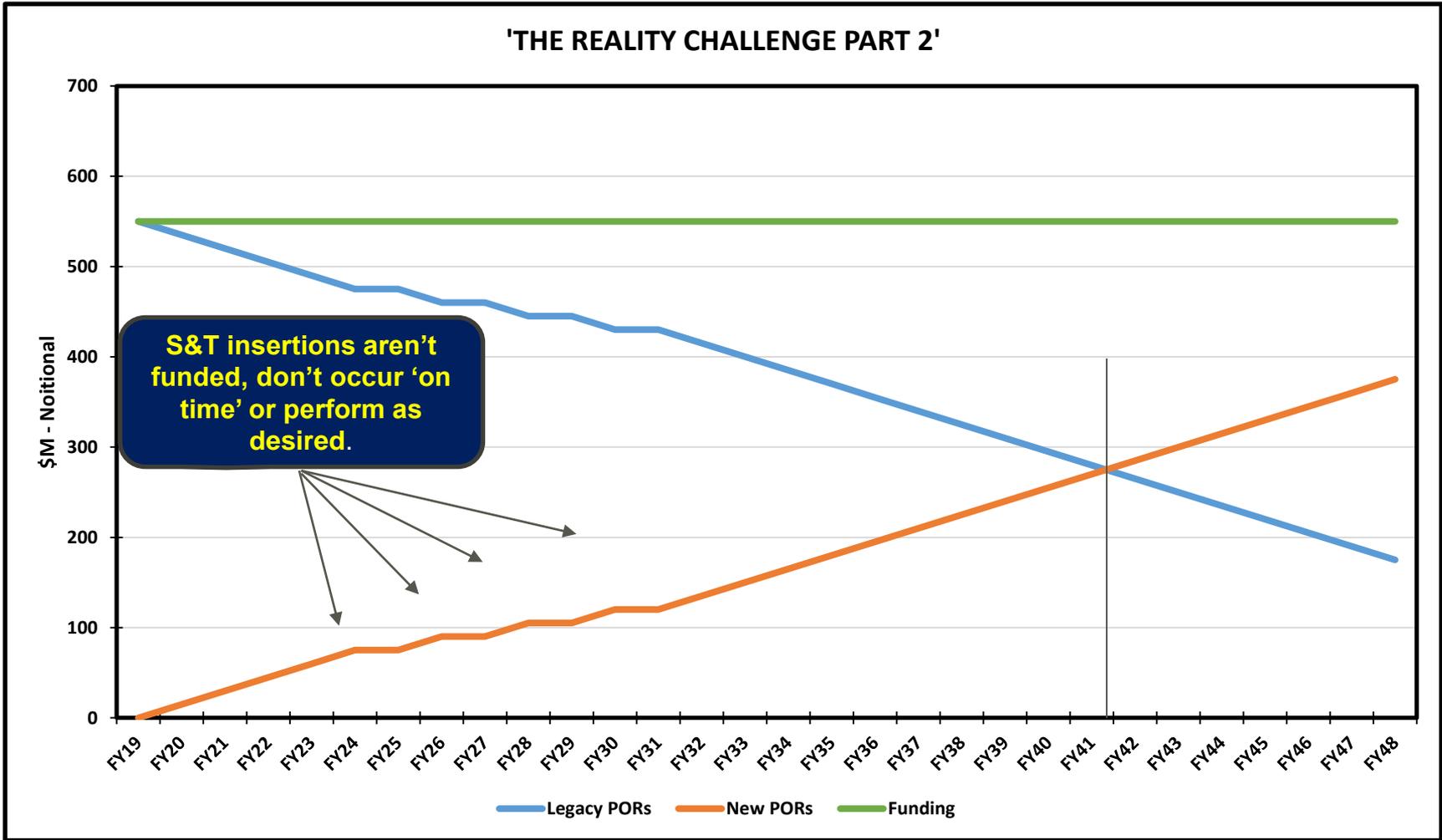
# IN A PERFECT WORLD...



# BUT IN THE REAL WORLD...



# ...AND THE BASELINE DOESN'T CHANGE.



**S&T insertions aren't funded, don't occur 'on time' or perform as desired.**

## SO HOW DO WE SUCCEED?

- Level of risk to (training) readiness the Army is willing to accept as it transitions to Future (NSTD) PORs
- Success is highly contingent upon
  - Resourcing the R&D necessary to provide the S&T insertions to resolve capability gaps
  - S&T insertions delivered on time, on budget...and performing to expectations

## STE

- Architecture
- Single Synthetic Environment
- One World Terrain
- Point of Need
- Big Data
- Adaptive Training
- Artificial Intelligence
- ...

## Live

- Architecture
- Next Gen TESS
- Mixed Augmented Reality
- Embedded
- Sensor Fusion
- Terrain Interoperability
- Cloud Computing
- ...

## Test/Cyber

- Architecture
- Next Gen TESS
- Enhanced Augmented Reality
- Sensor Fusion
- Embedded
- Cyber Representation and Effects
- Terrain
- ...

## Medical

- Architecture
- Synthetic Tissue
- Medical MILES
- Physiological/ Anatomical Fidelity
- Augmented Reality
- Manikin Instrumentation
- Processes
- ...

- Legacy systems will 'retire' over time
- Future PORs will replace them
- New opportunities
- R&D will be critical to the acquisition of Future PORs. You should:
  - Focus internal R&D...or
  - Purchase it from others...or
  - Pray/Get Lucky
- Same resource 'pie' but (potentially) different allocation of resources

**WE WORK FOR  
OUR SOLDIERS...  
IT'S THE BEST JOB  
WE'VE EVER HAD!**

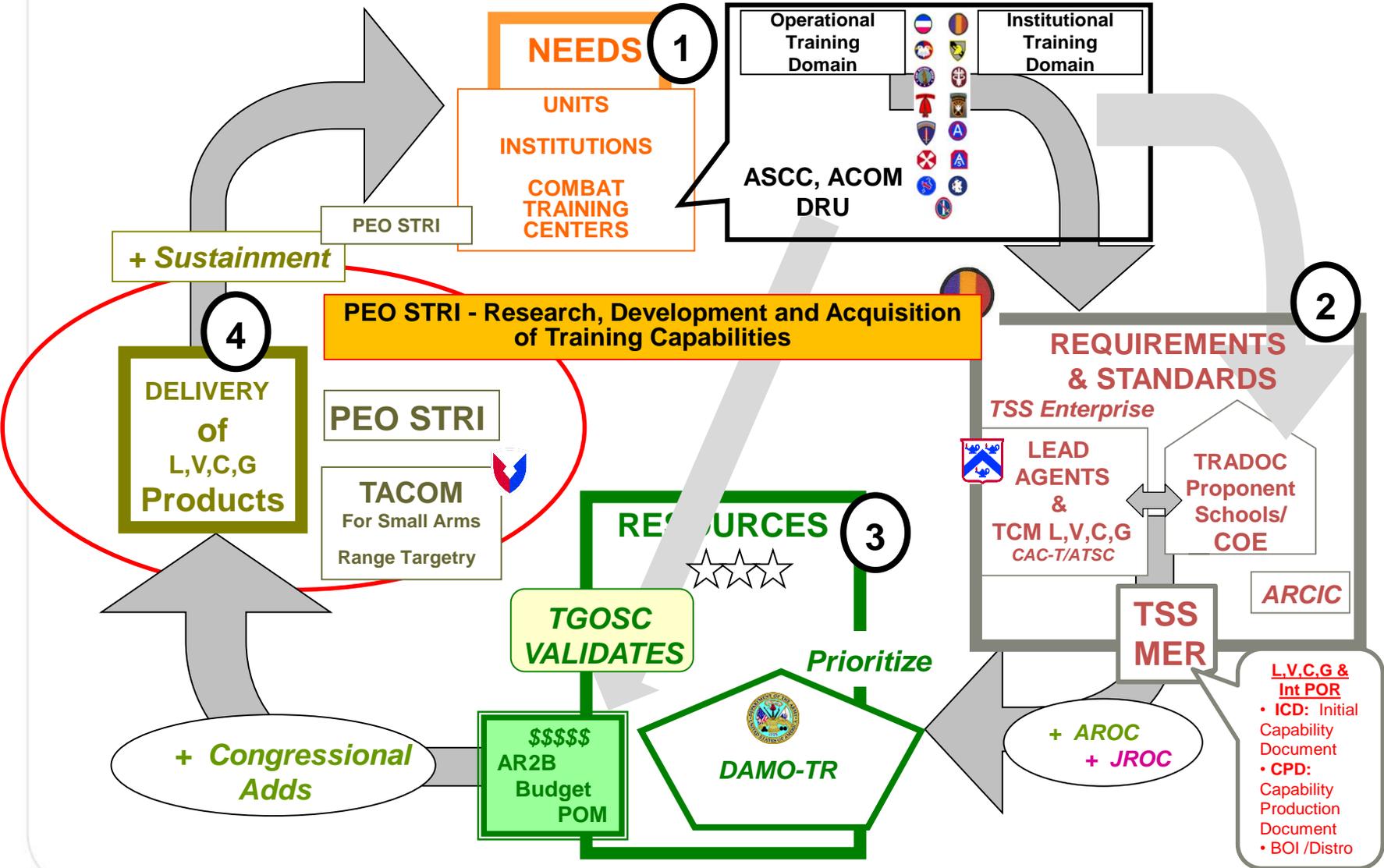


**U.S. ARMY**



# BACKUP SLIDES

# TSS MACHINE



**PEO STRI  
TSS Portfolio**



**Training Support  
System of Systems**

TSS ≈ 14% of TT PEG Portfolio  
PEO STRI ≈ 48% of TSS Portfolio

**Products**

**Services**

**Facilities**

**Deliverables:**

- Acquisition & Life Cycle Management of:
  - Live, Virtual, Constructive, Gaming TADSS
  - Integrated Training Environment
  - CTC IS/CTC-unique TADSS

- CivPay at Ccmds, CAC-T, USACE, PEO-STRI, Installations
- PEO STRI Core Budget
- Operating Funds – all programs & functions
- Worldwide TADSS Maintenance

- MILCON & “noses & tails” for:
- Ranges \*
  - Mission Training Complexes
  - Training Support Centers
  - Simulation Facilities
  - Training Land Acquisition

**Appropriations:**

RDTE, OPA3, MSLS, OMA

OMA, RDTE, OMAR, OMNG

MCA, MCAR, MCNG, OMA, OPA

# TRAINING SUPPORT SYSTEM (TSS) GOVERNANCE

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
<b>PPBE</b>													
		Army Posture	APG					SPG					
		POM Build						Program Review				POM Offsite	
					SRGs			BES					
<b>Training Governance</b>													
	HS/D CoC	TGOSC		ASRC	TGOSC		HS/D CoC	ATLDC	TGOSC		ASRC	TGOSC	ALC
<b>2<sup>nd</sup> Quarter / Winter (VTC)</b>			<b>3<sup>rd</sup> Quarter / Spring (Live)</b>			<b>4<sup>th</sup> Quarter / Summer (VTC)</b>			<b>1<sup>st</sup> Quarter / Fall (Live)</b>				
<b>TGOSC</b>	<ul style="list-style-type: none"> <li>•Provide the adjusted POM Plan (i.e. reflect POM Offsite guidance)</li> <li>•Review &amp; Approve PEG balance and risk</li> <li>•Review &amp; prioritize MYR UFRs</li> </ul>			<ul style="list-style-type: none"> <li>•Review emerging requirements for next POM</li> <li>•Review ATLDC agenda and key topics</li> </ul>			<ul style="list-style-type: none"> <li>•Shift planning horizon</li> <li>•Validate emerging requirements</li> <li>•Review Training Readiness Assessments (TCOP)</li> <li>•AAR previous POM build</li> </ul>			<ul style="list-style-type: none"> <li>•Conduct SRTRA to prioritize/ conduct trade space analysis</li> <li>•Provide guidance to TT PEG</li> <li>•Review POM Offsite input</li> </ul>			
<b>Acquisition</b>													
		ACAT Reviews	CSB			ACAT Reviews	CSB			ACAT Reviews	CSB		
									TSS Modernization Planning				
<b>Division Home-on-Home</b>													
<b>Evolution of Training</b>													
	EoT Forum			EoT Forum			EoT Forum			EoT Forum			
		EoT 06 WG				EoT 06 WG				EoT 06 WG			



# ACRONYMS

AWA – Army Warfighting Assessments

AI – Artificial Intelligence

AR – Augmented Reality

AT – Adaptive Training

BAA – Broad Area Announcement

BD – Big Data

CRADA –

F2025B – Force 2025 and Beyond

IR&D – Independent Research and Development

HD – Human Dimension

LIRA – Long Range Investment Requirements  
Analysis

M&S – Modeling and Simulation

MILES – Multiple Integrated Laser Engagement  
System

NIE – Network Integration Evaluation

OWT - One World Terrain

POM – Program Office Memorandum

PoN – Point of Need

RIF – Rapid Innovation Fund

S&T – Science and Technology

SBIR – Small Business Innovative Research

SSE – Single Synthetic Environment

STE – Synthetic Training Environment

STO – Science Technology Objective

STTC – Simulation and Training Technology Center

TaaS – Training as a Service

TESS – Tactical Engagement Simulation System

TRL – Technology Readiness Level

TTA – Technology Transition Agreement