



Engineering, Operations & Technology
Boeing Test & Evaluation

A horizontal banner with a dark background and a golden glow. On the left, there is a line graph with fluctuating yellow lines. The words "Test & Eval" are written in large, white, sans-serif font across the center of the banner.

ITEA Conference 2012

*Speeding Toward Operational Test with Enhanced Government/Industry
T&E Teaming— Smart Choice for Future Systems*

19 September 2012

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Agenda

- **Setting the Stage**
- **Test Evolution**
- **Government / Industry Teaming**
- **Summary & Recommendations**

“The focus of this presentation is on successful operational test.”

Intro: Why am I here? Why are you here?

**Industry
Contractor**

Dedicated group of professionals with expertise to provide solutions to the warfighter. This entire team must cohesively build and provide those solutions in a successful and timely OT.

Easier said than done.

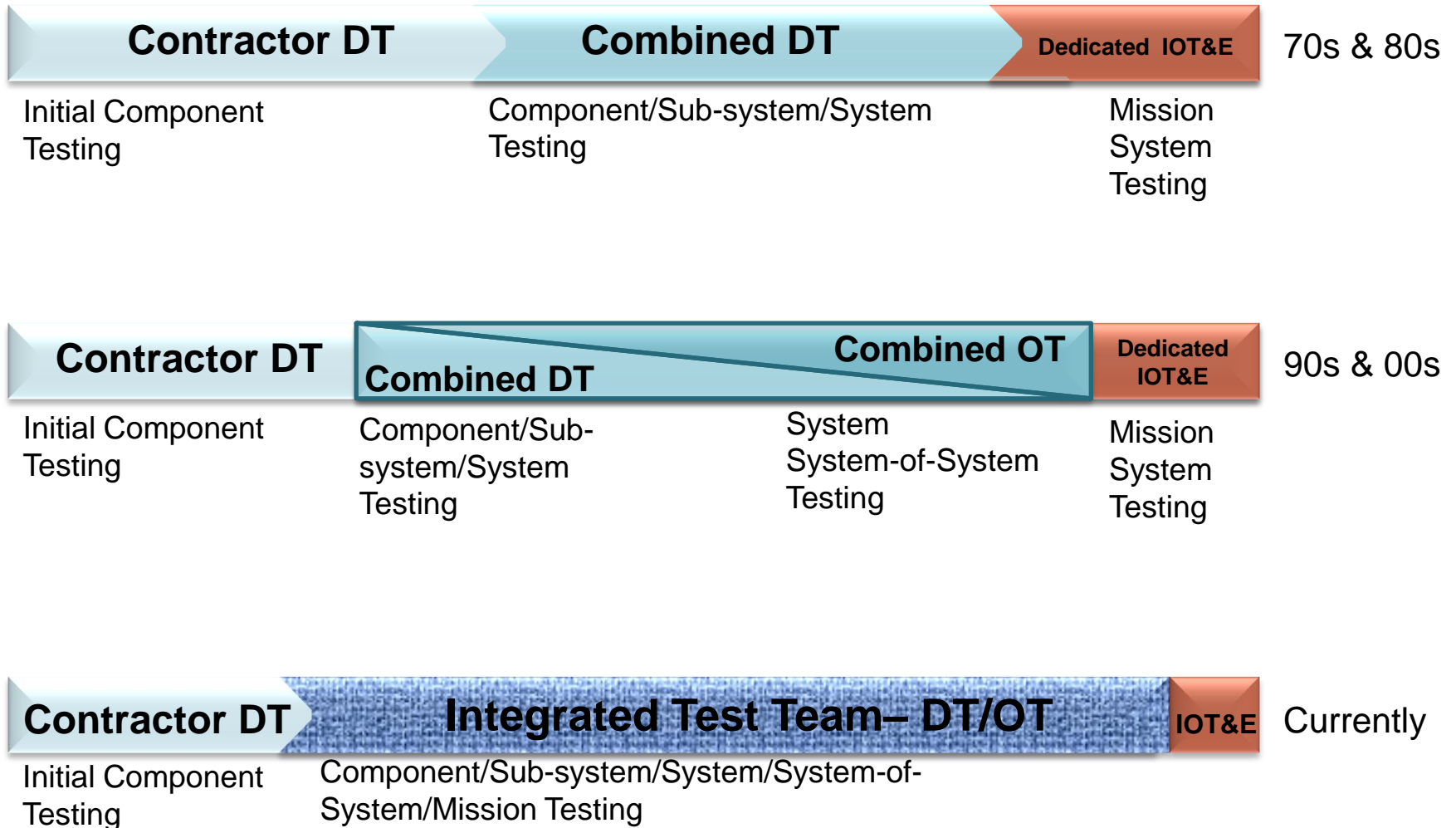
**Government
OTA**

**Government
Acquisition
Agency**

Warfighter



Evolution of DoD Testing



Current Notional Timeline & Team

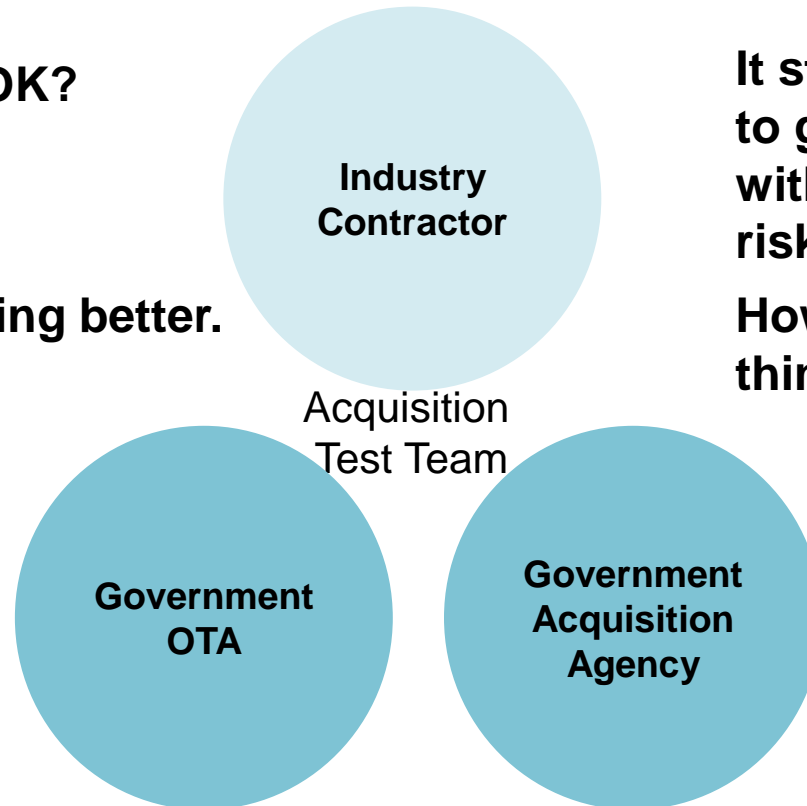


Are we doing OK?

Yes, we are doing better.

It still takes us too long to get into and out of OT without unnecessary risk!

How can we speed things up?



Simplistic View of Operational Test

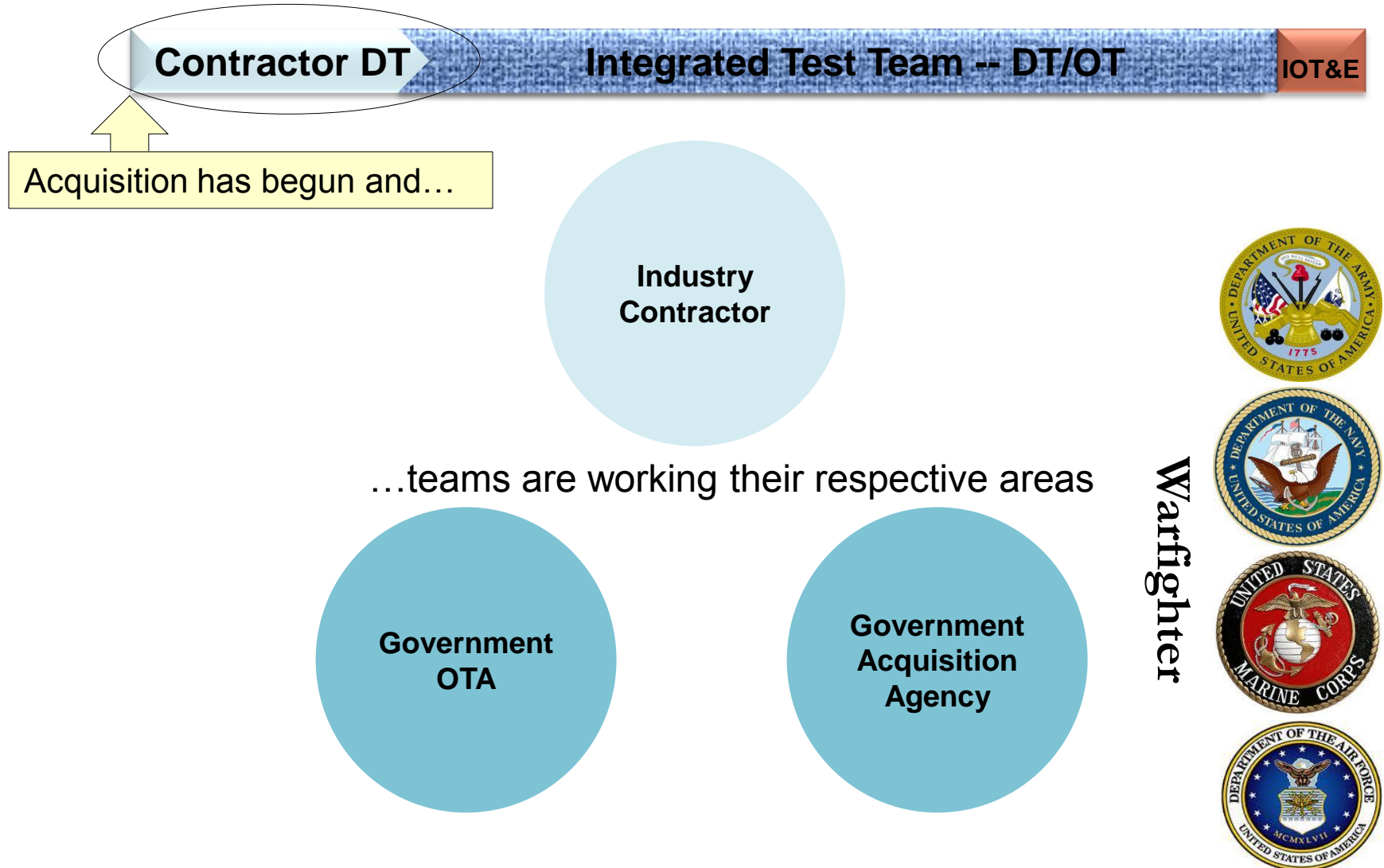
- **What is OT?**
 - An open book test
 - Done by real operators
 - In realistic environment
 - Using a real end item/system
- **What could be more simple and direct?**
- **Sometimes it just does not seem so simple and direct and that is our opportunity here**
- **At last year's symposium Dr Gilmore spoke about program delays and test. He stated:**
- “ Testing and test requirements do not cause major program delays, the results of testing do”

Proposal: Better, more open and continuous team communication may improve results and speed testing.

Government/Industry (At contract award) ITT

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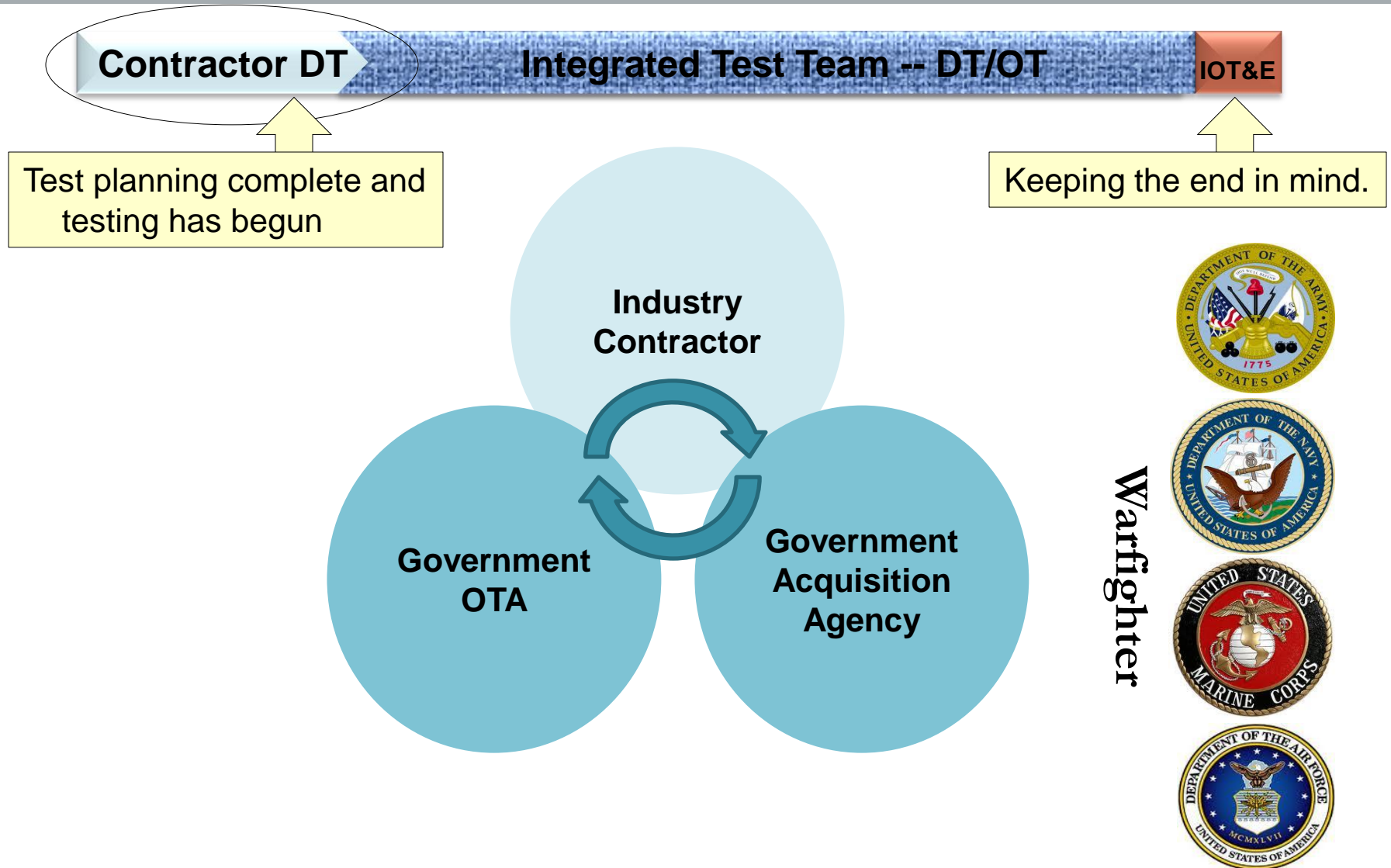
Test Program Integration



Government/Industry (prior to ITT standup) Integrated Test Teaming

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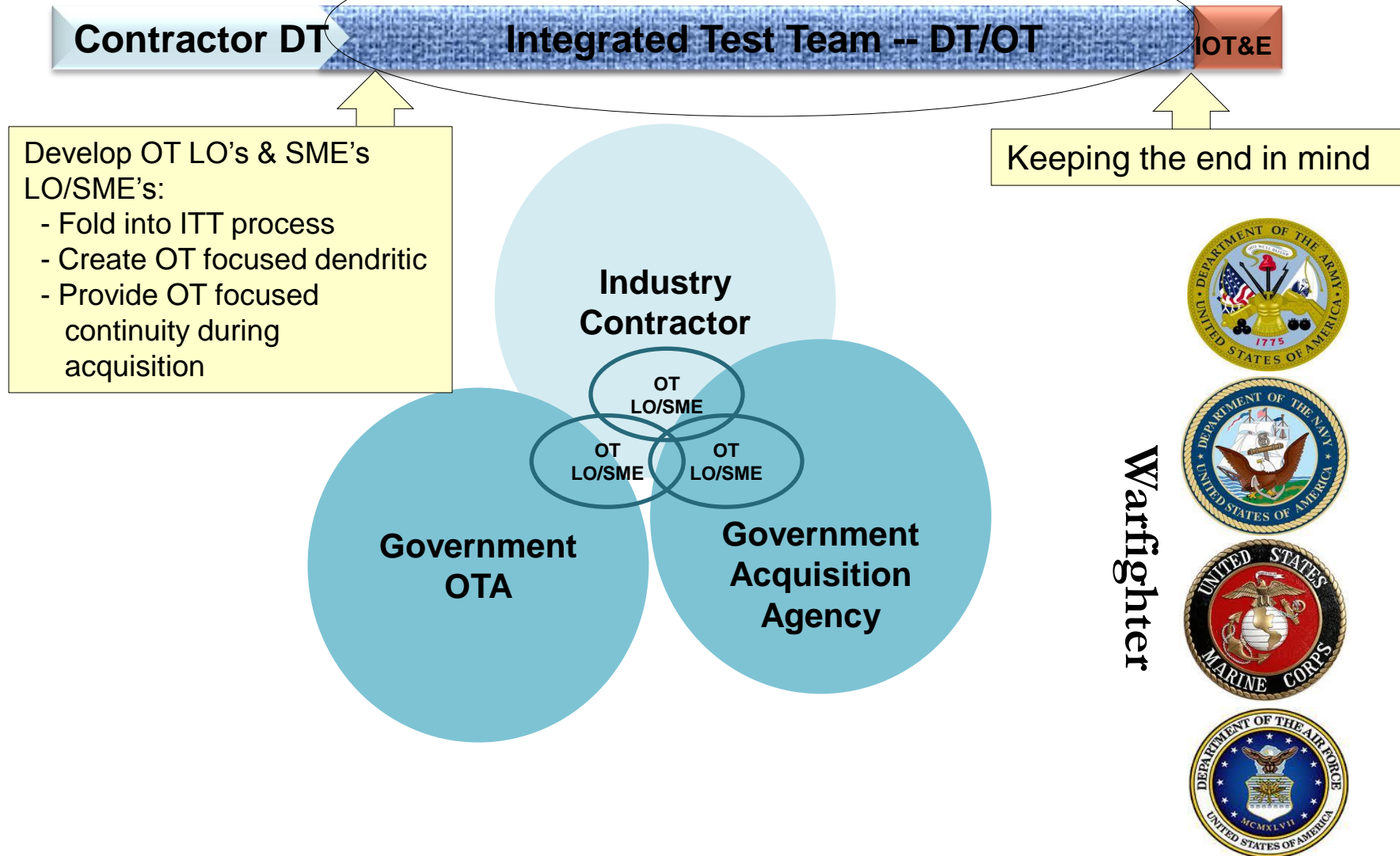
Test Program Integration



Government/Industry (After ITT standup) Integrated Test Teaming

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Test Program Integration

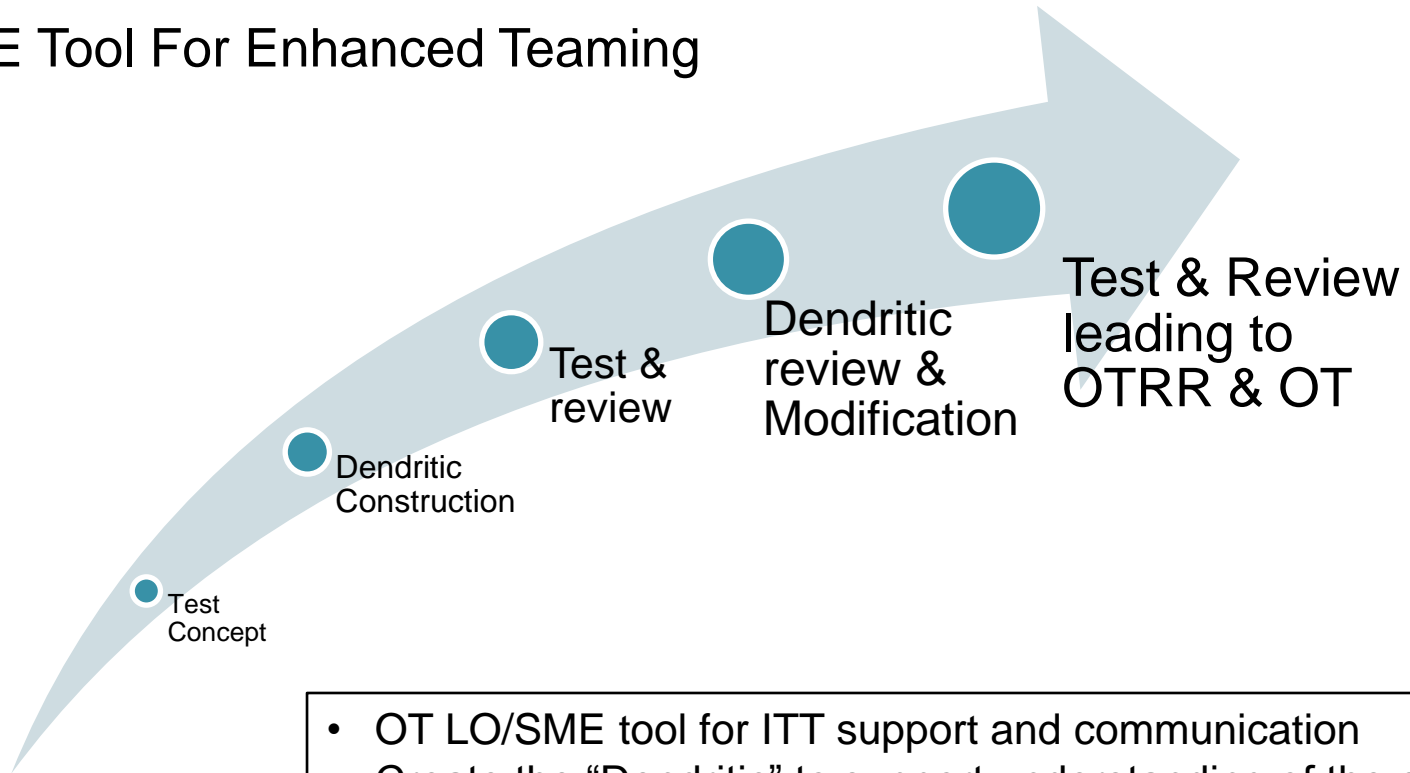


OT Focused LO/SME Test Dendritic Approach

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Test Program Integration

LO/SME Tool For Enhanced Teaming



- OT LO/SME tool for ITT support and communication
- Create the “Dendritic” to support understanding of the end goal, “OT”
- Review and modify as program matures—maintain thread from start to finish

Government/Industry (At OTRR) Integrated Test Teaming

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Test Program Integration

Contractor DT

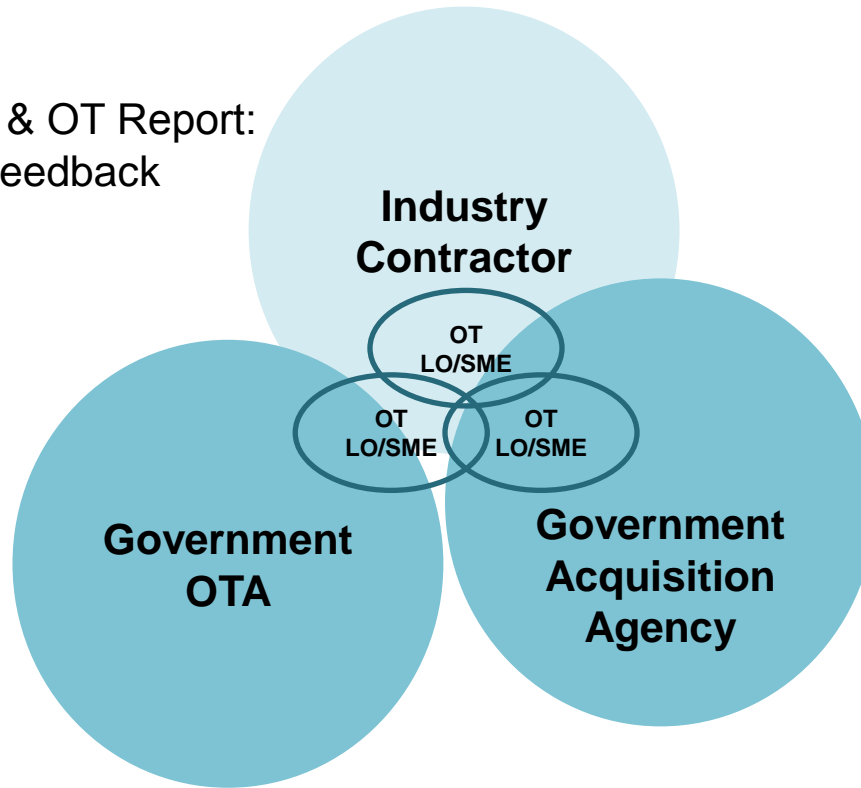
Integrated Test Team -- DT/OT

IOT&E

Keeping the end in mind!

LO/SME's after OTRR & OT Report:

- Lessons Learned feedback
- Future efforts



Warfighter



Summary

- **Clear Concise Proactive Communication Of Operational Test Requirements From The Start Of Acquisition All The Way To OTRR**
 - OTA to Program Office & Industry
 - Acknowledgement by Program Office and Industry with actions In ITT
 - Continuous Process Throughout Acquisition
- **Develop Operational Test SMEs For All Stakeholders**
 - Provides Continuity
 - Provides Lessons Learned
 - Provides Single Focus point
- **Test Dendritic Tool**

Recommendations

■ Contractor

- Trained/experienced OT SME
- Find out what you need to know
- If you don't hear it, ask, don't delay

■ Acquisition Agencies

- Find out what you need to know and assist Industry with that knowledge
- OT SME leads the effort

■ Operational Test Agencies

- Don't hold back
- Make sure everyone knows what is expected – no surprises at IOT&E
- You are the final test
- You have the final say
- Be pro-active from the beginning

■ Questions?

