



“Digging Out an Engine”

(Forklift, Pallet Jacks and Personnel Movements)

Navy MANTech's



62 MOVEMENTS (VIA FORKLIFT)

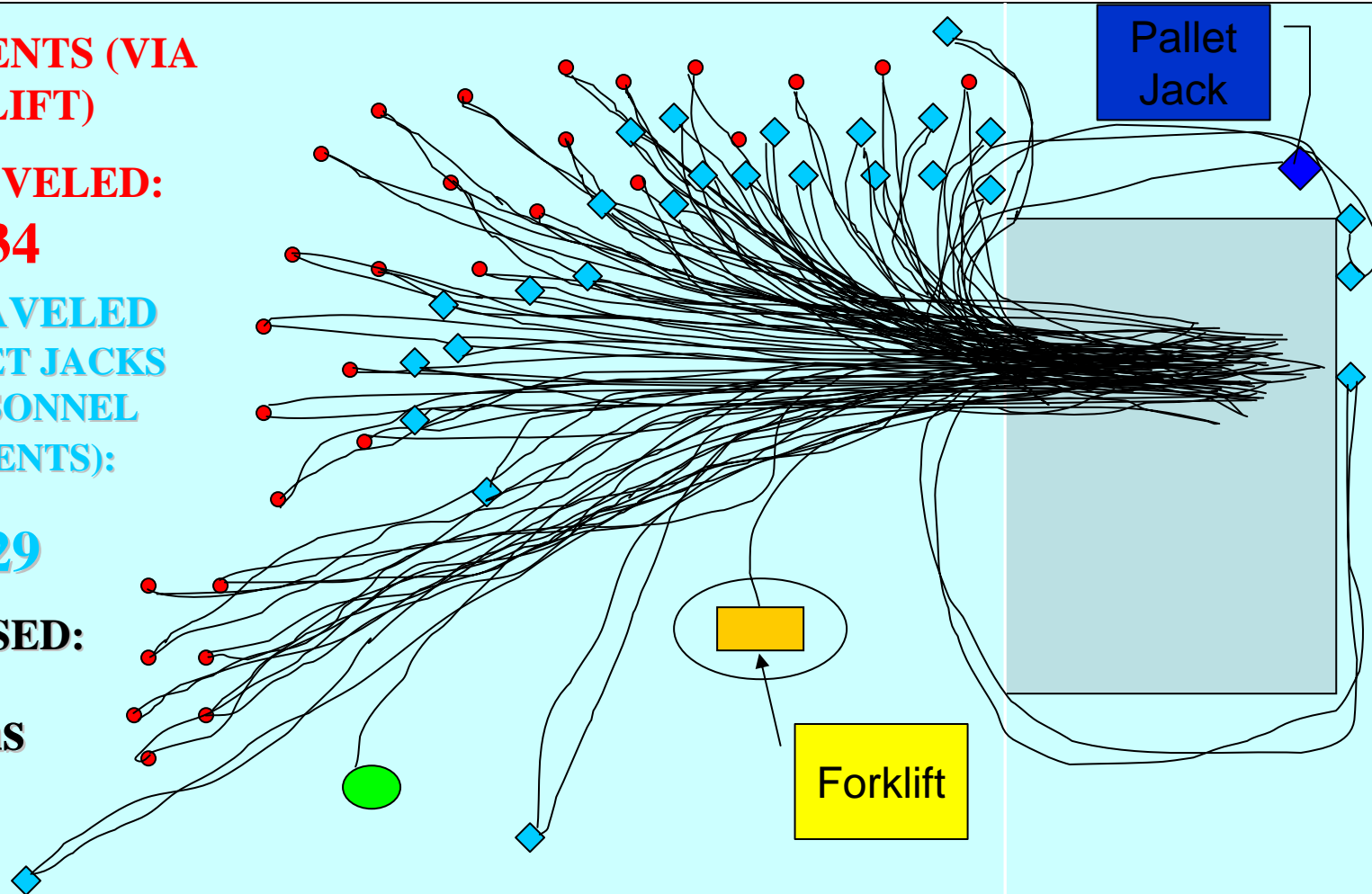
**FEET TRAVELED:
2,834**

**FEET TRAVELED
(VIA PALLET JACKS
AND PERSONNEL
MOVEMENTS):**

7,929

TIME ELAPSED:

110 mins



Engine

AIRSpeed
The Way Ahead



FUTURE STATE "Digging Out an Engine"

TOTAL DISTANCE TRAVELED:

840 FEET

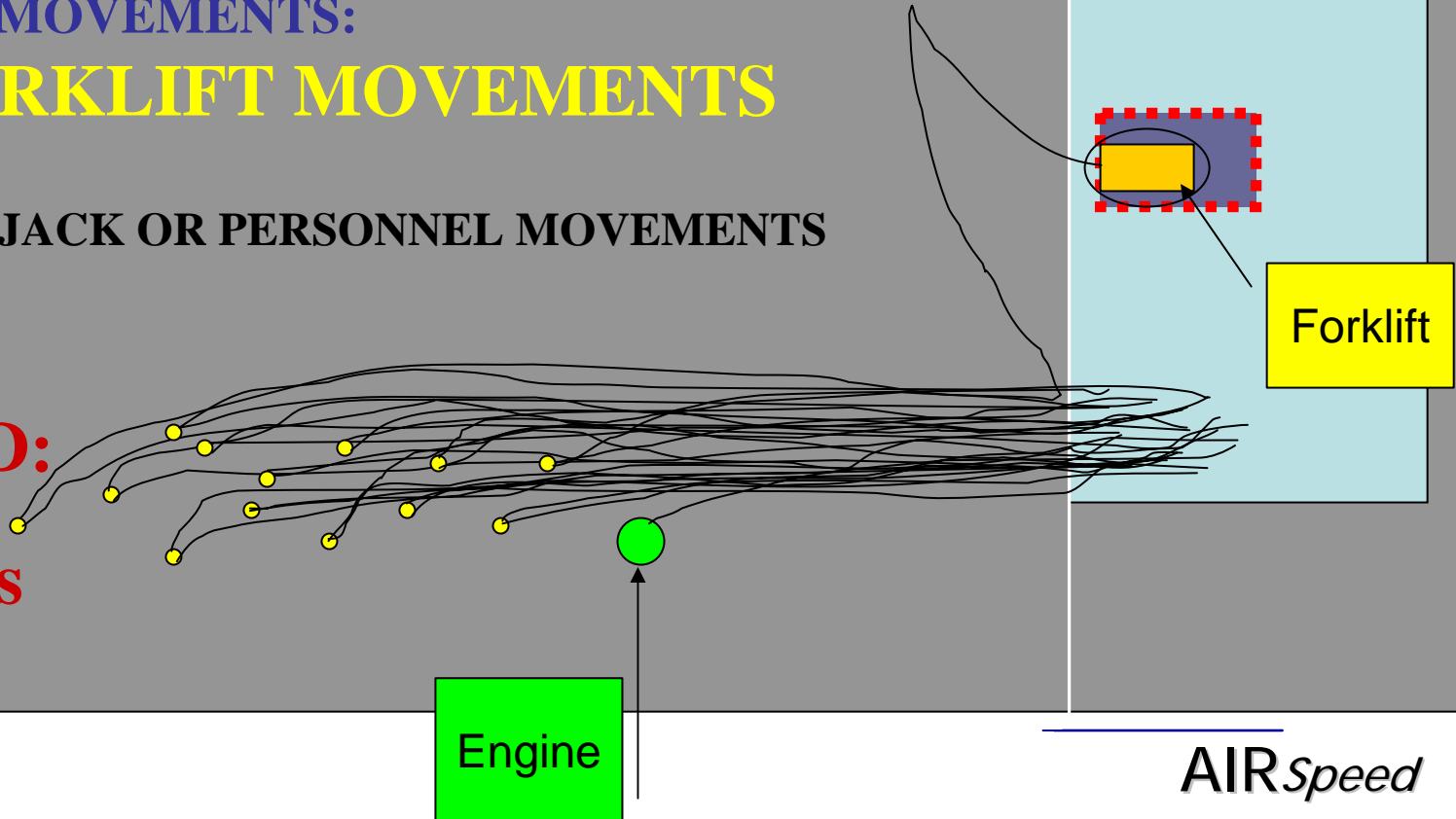
TOTAL MOVEMENTS:

27 FORKLIFT MOVEMENTS

NO PALLET JACK OR PERSONNEL MOVEMENTS

**TIME
ELAPSED:**

≈ 45 mins





Output:



Instant Productivity

	Current State	Future State	Change
People travel	5,727 ft	1,380 ft	↓ 76%
Forklift travel	2,790 ft	695 ft	↓ 75%
Parts travel	1,395 ft	348 ft	↓ 75%
Volume of Mtn	35,190 ft ³	29,954 ft ³	↓ 15%
5S Level	1.5	3.5	↑ 2 levels

Order of Magnitude Change!





What's Ahead

- **Roll out to all large decks**
- **Continue to support the CVN-21 design team**



ASN (RD&A) Lean Six Sigma FY 05 Training and Execution Plan Guidance

* RD&A Direct Reports & Deputies

	Recommended Training		Q4 04	Q1 05	Q2 05	Q3 05	Q4 05	Q1 06
Level 0/1 FLAG/SES	Champion		Initial * Training	C	C	Execute	Execute	Execute
Level 2 06/GS-15	Champion		Initial * Training	C	C	Execute	Execute	Execute
Level 3 04/05/GS-12-14	Exposure 100%		Champion Planning / Green Belt/Black Belt selection		E	E	E	
Level 3 04/05/GS-12-14	Green Belt (5%)				G Execute	G Execute	G Execute	G Execute
Level 4 01-03/GS07-11	Exposure 100%				E	E	E	
Level 4 01-03/GS07-11	Green Belt (5%)				G Execute	G Execute	G Execute	G Execute
Workforce	No Training (98%)	Green Belt (2%)				G Execute	G Execute	G Execute
"Black Belts" 1-2%	Lean, TOC, 6σ Black Belt				B	B	B	B

- **Initial training – 4 hours**
- **Champion: ~ 5 day tool overview for leadership role**
- **Exposure: 1-2 day tool overview**
- **Green Belt: ~ 5 day tool overview + small project**
- **Black Belt: 4 week/month in-depth study + big project**

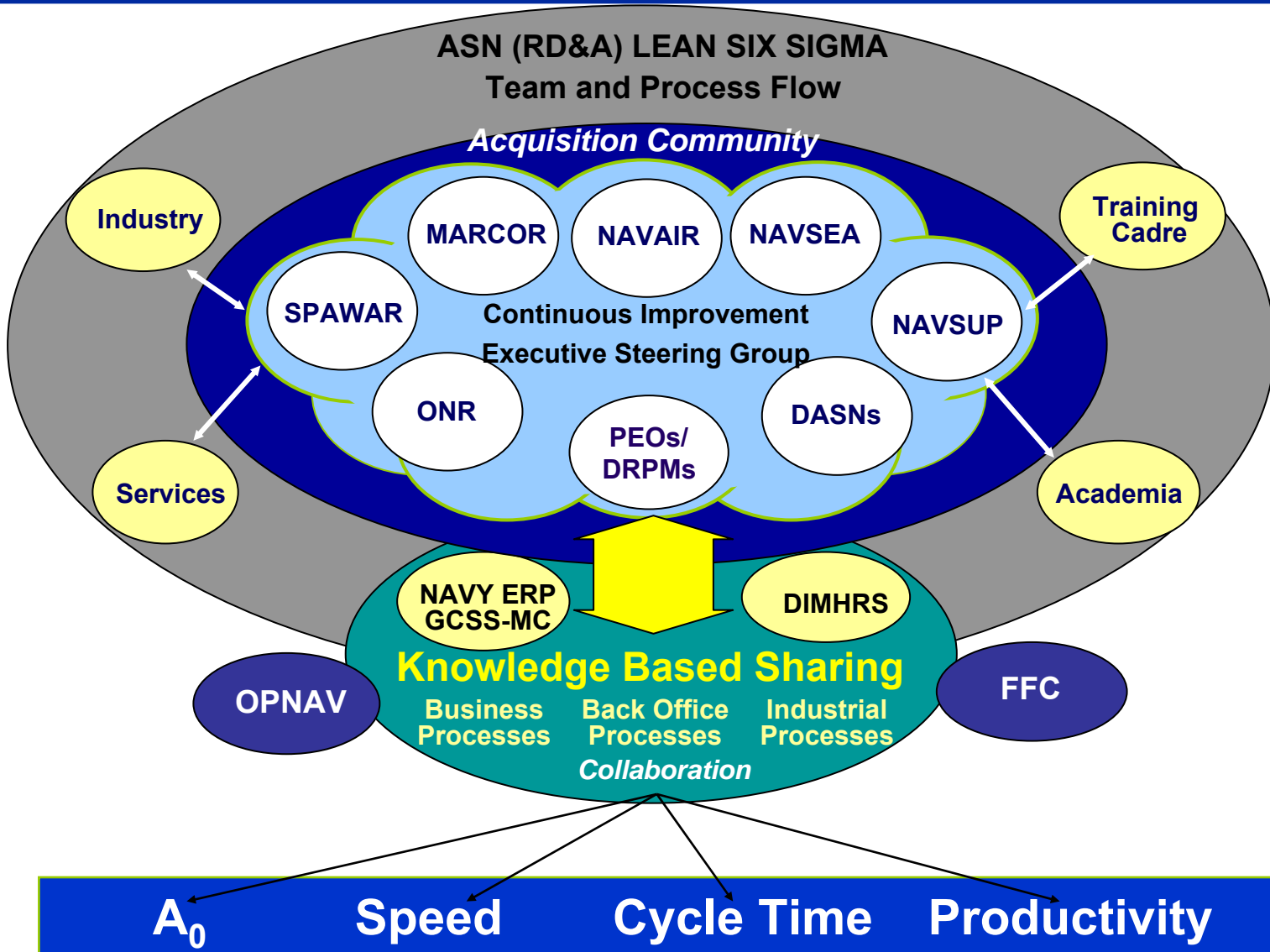
Workshops/Events Penetration

AIWS 10%	AIWS 25%	AIWS 75%	AIWS 100%
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Continuous Improvement (CI) Innovation Lab

Framework for
Training Standardization
Roll Out Scalability
Knowledge Based Sharing





CI Innovation Lab

Knowledge Based Sharing

