



HEARTWOOD

www.hw3d.com

Why the Future of Training is

VISUAL, INTERACTIVE and **PORTABLE**

Introduction



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HEARTWOOD empowers companies to

Reduce Operation & Maintenance training costs

Accelerate employee learning

Decrease expensive live training

By deploying **3D Interactive Training**



KOMATSU

Raytheon



Sikorsky

A United Technologies Company



What's going to happen **NOW?**

1. Issues/problems that exist

Quick Audience Poll

2. Today's Solution for Today's Needs

3. DEMO Videos!

Quick Audience Poll

4. Real Customers

“How is *your* training
conducted

TODAY?”

RESPONSE #1

Classroom/Facility - INSTRUCTOR LED
Practice on ACTUAL EQUIPMENT



RESPONSE #2

PPT. STYLE e-learning courses via LMS



The background is a dark green, textured surface with faint, light green technical drawings and sketches of mechanical parts, including gears, shafts, and bearings, scattered across the entire area.

“What do you
LIKE / DISLIKE
about these
METHODS?”

RESPONSE #1

Classroom/Facility - **INSTRUCTOR LED**
Practice on **ACTUAL EQUIPMENT**



MANAGERS / LEADERS

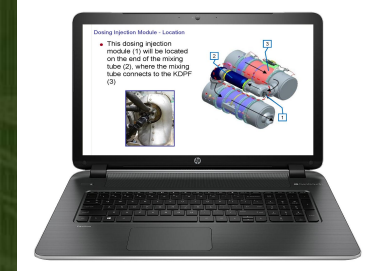
- ✗ Travel Cost
- ✗ Equipment Cost
- ✗ NOT Scalable or Portable
- ✗ Resource Issue – SMEs, Instruct.
- ✗ Production Downtime

TRAINEE / EMPLOYEE

- ✓ Engaging, with Practice
- ✗ Inconvenient
- ✗ NOT Accessible later

RESPONSE #2

PPT. STYLE e-learning courses via LMS



MANAGERS / LEADERS

- ✓ Deploy on scale, Cheaper
- ✗ Lot of *SEEING*, not much *DOING*
- ✗ “No PRACTICE, No Training”
- ✗ Drop in retention

TRAINEE / EMPLOYEE

- ✓ Accessible anywhere
- ✗ Tedious, Unengaging
- ✗ No PRACTICE

The background is a dark green, textured surface with a faint, intricate pattern of technical drawings and mechanical parts, including gears, shafts, and various components, rendered in a lighter green color. The overall aesthetic is industrial and technical.

QUICK Poll

If...

Live Training – expensive, not scalable

eLearning – not engaging, no practice

... How do we

Bridge this **GAP**?

I hear, I FORGET

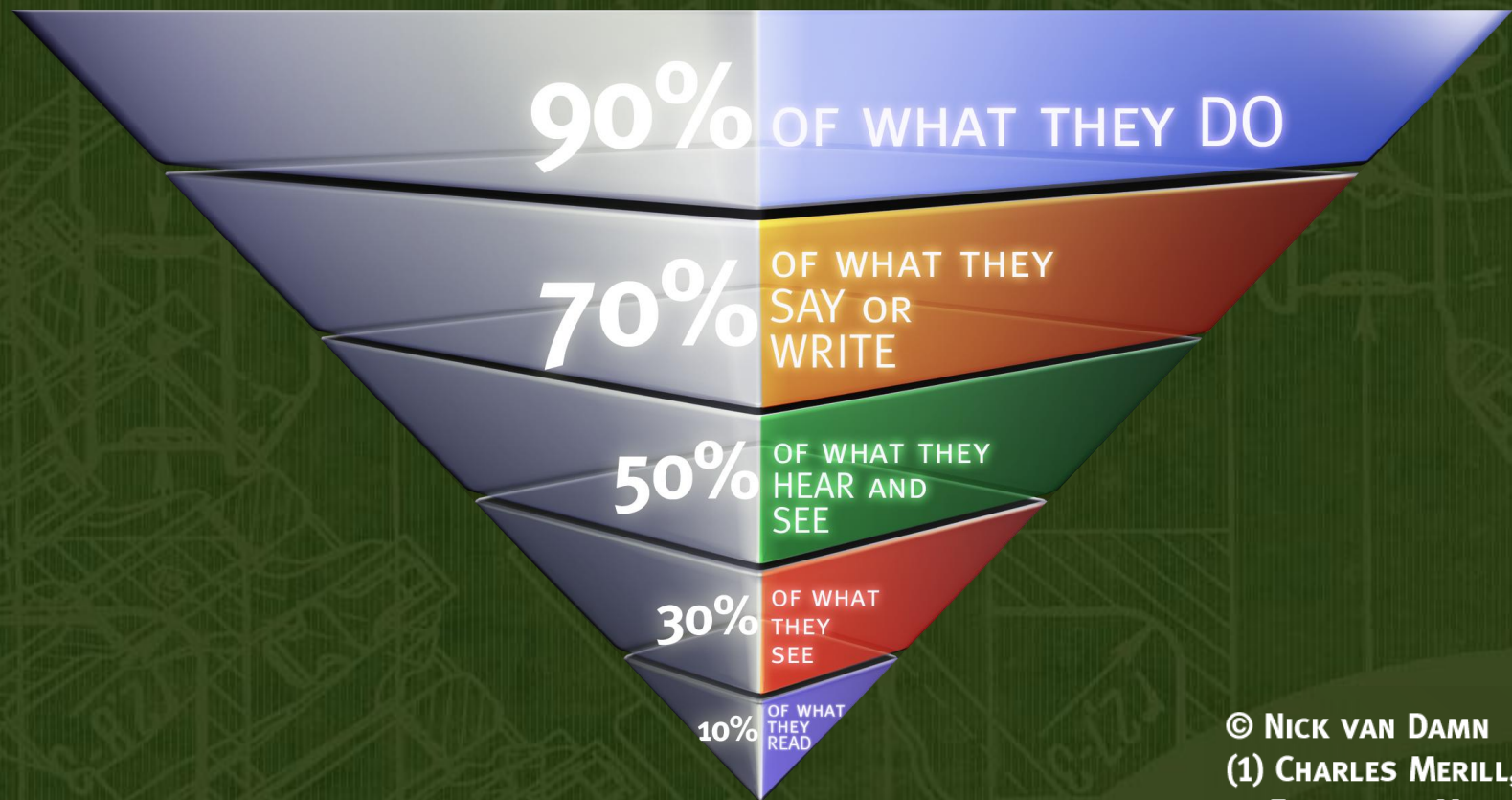
I see, I REMEMBER

I DO, I UNDERSTAND.

CONFUCIUS
(551 BC - 479 BC)



PEOPLE REMEMBER



© NICK VAN DAMN
(1) CHARLES MERILL, 1960
EDUCATION MEDIA

The background is a dark green color with a dense, light green technical drawing pattern. The pattern consists of various mechanical sketches, including gears, shafts, bolts, and structural frames, rendered in a fine-line, etched style. The overall effect is that of a technical manual or engineering blueprint.

10,000 HOUR Rule

“...Innate gift and talent and a certain amount of intelligence are important, but what really pays is ordinary experience... the magic number..for Mozart and for so many outliers...appears to be **10,000 (HOURS)**”

Malcolm GLADWELL

“An average high schooler will have played
10,000 HOURS of games by graduation – only
100 hours less than they will have spent in the
classroom.”

Jane MCGONIGAL



From learning by listening to **LEARNING BY DOING...**
Education and learning will become as much fun as
VIDEOGAMES. And we call it 'full body learning.'

Bing Gordon **PARTNER, KPCB**

SO...

1. The more you **DO** yourself, more you learn authentically
2. For mastery, **PRACTICE** makes perfect
3. Today's users are tuned to **INTERACT**
4. Learning can be made **ENGAGING !**

If it's supposed to be

all **VISUAL**,

Then why am I still

TALKING?



DEMO VIDEO



3D INTERACTIVE TRAINING

Learn-by-doing
Visual & Interactive
Portable

MOBILE & TOUCH Friendly



Generation **T** (TOUCH)

KEEPS

- ✓ Deploy on scale, Cheaper
 - ✓ Engaging
 - ✓ Practice
 - ✓ Accessible

DISCARDS

- ✗ Travel Cost
- ✗ Equipment Cost
- ✗ NOT Scalable or Portable
- ✗ Resource Issue – SMEs, Instruct.
 - ✗ Production Downtime
 - ✗ Inconvenient
- ✗ NOT Accessible later

“If the work will
ultimately involve

DOING,

shouldn't the

TRAINING too?”

The background is a dark green, textured surface with a faint, intricate pattern of technical drawings and mechanical sketches. The sketches include various components like gears, shafts, and structural frames, rendered in a light green color that blends into the background. The overall aesthetic is industrial and technical.

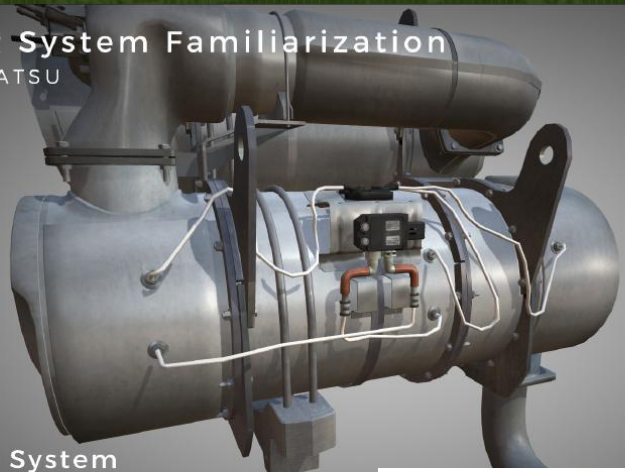
QUICK Poll

“WHO is using 3D Interactive
Training

TODAY?”

SCR System Familiarization

KOMATSU



DPF System

Mixing Tube

SCR Canister

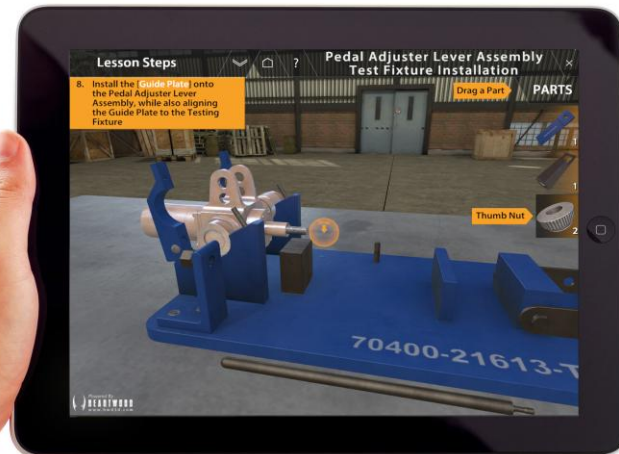
DPF System

A diesel particulate filter (or DPF) is a device designed to filter diesel particulate matter or soot from the exhaust of a diesel engine.

KOMATSU

Start Engine

Sikorsky
A United Technologies Company



RECAP

1. Reduce (*not eliminate*) **EXPENSIVE** live training
2. Learn-by-**DOING**, not-**SEEING** : No practice, No training
3. Train **ANYTIME, ANYWHERE** – Portable | Scalable | LMS | Apps
4. Mobile & **TOUCH** friendly

E-BOOK

The Future of Training is
VISUAL, INTERACTIVE and **PORTABLE**

Click Here!

solutions@hwd3d.com

What's NEXT?

- Stick around as we'll answer your questions now
- Or email at: solutions@hwd3d.com
- Thanks for joining us for today's webinar!

CREDITS

Slide 14,15,16 : Gamer to Operator - <http://markrondina.com>

Slide 17 : Mary Meeker - <http://www.kpcb.com/insights/2012-internet-trends>

Slide 22 : <http://www.ososimpletechnologies.com/wp-content/uploads/2013/09/Using-iPad.jpg>