

# Implementation Fest

## The Last Decade

Dr. Kristy Murray

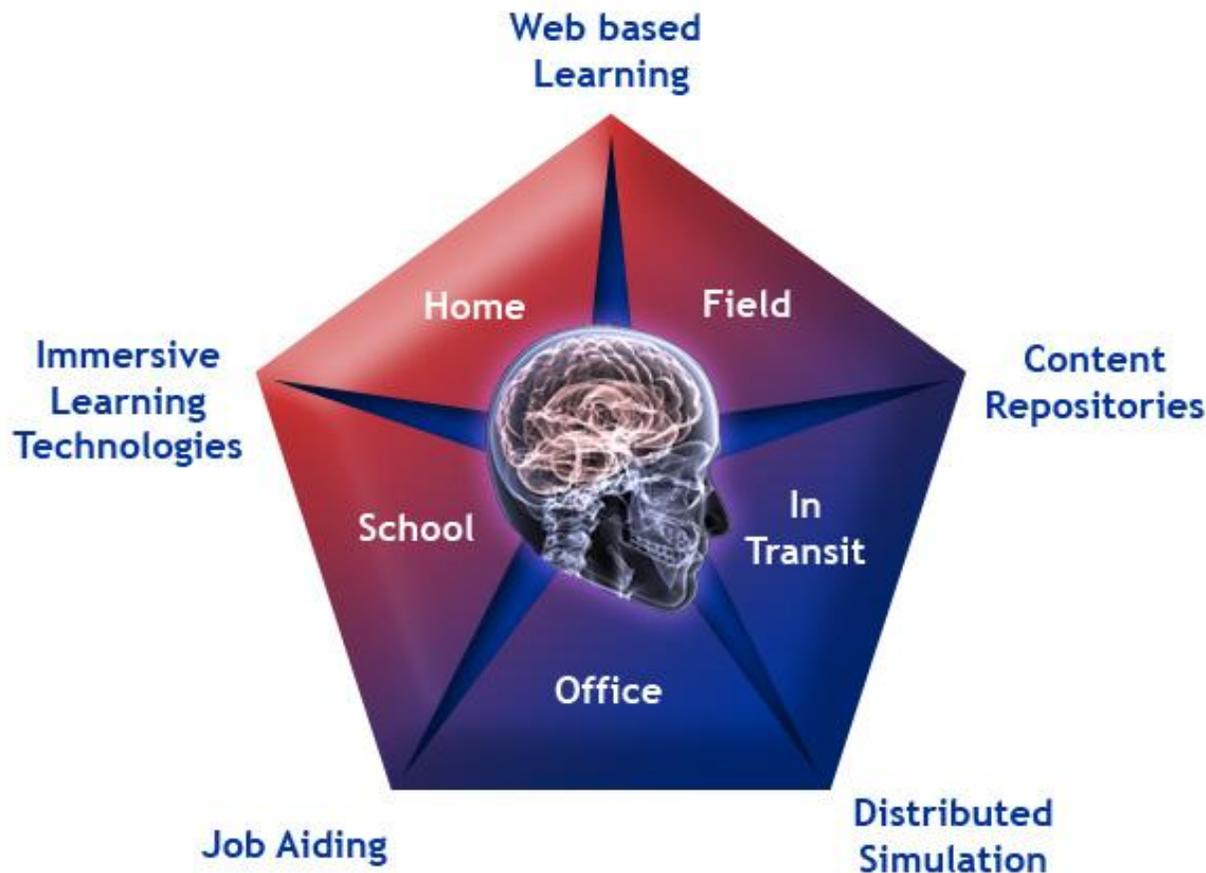
# Report Documentation Page

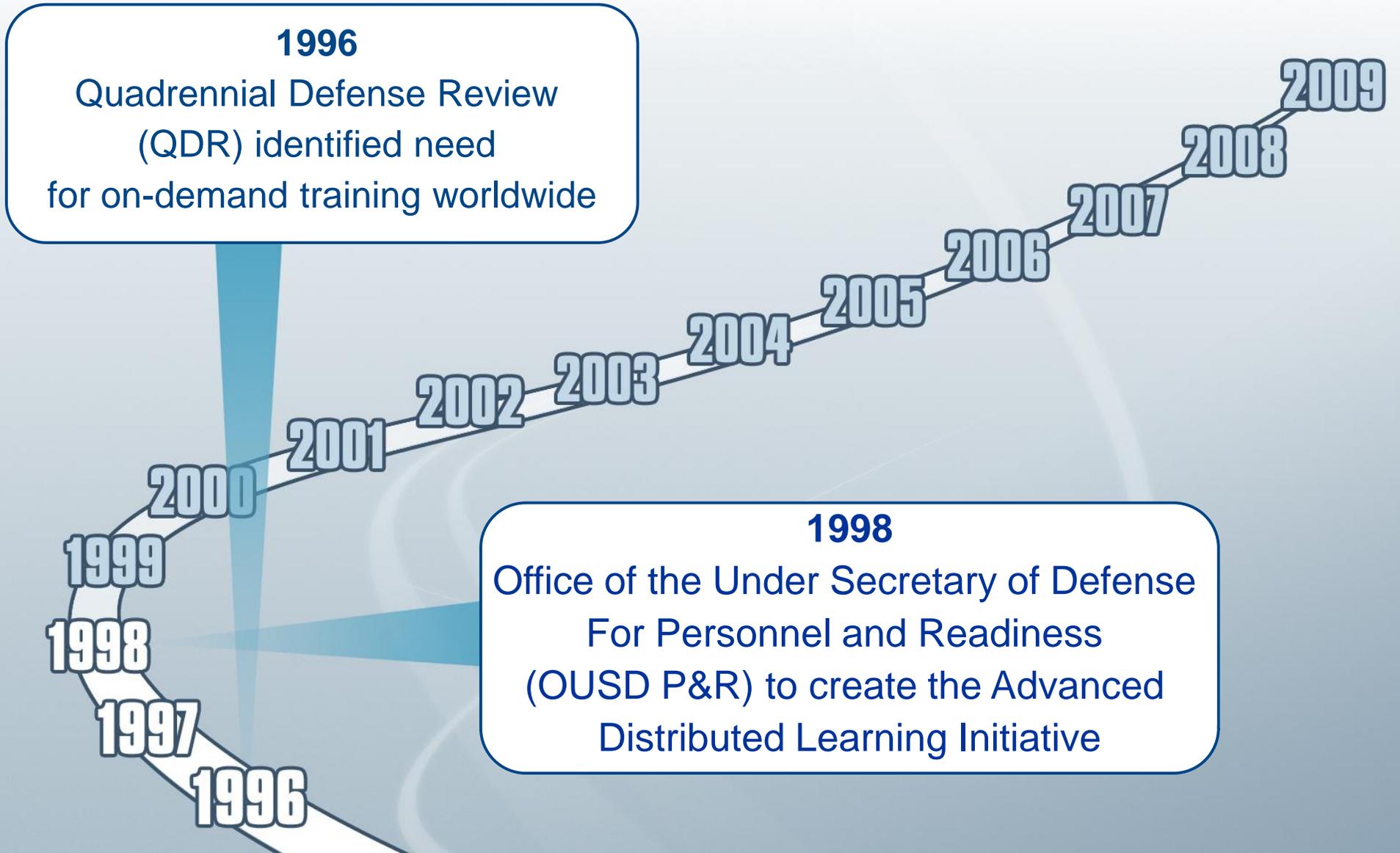
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**Provide access to the highest quality education and training, tailored to individual needs, delivered cost effectively, anywhere and anytime.**





# ADL Initiative

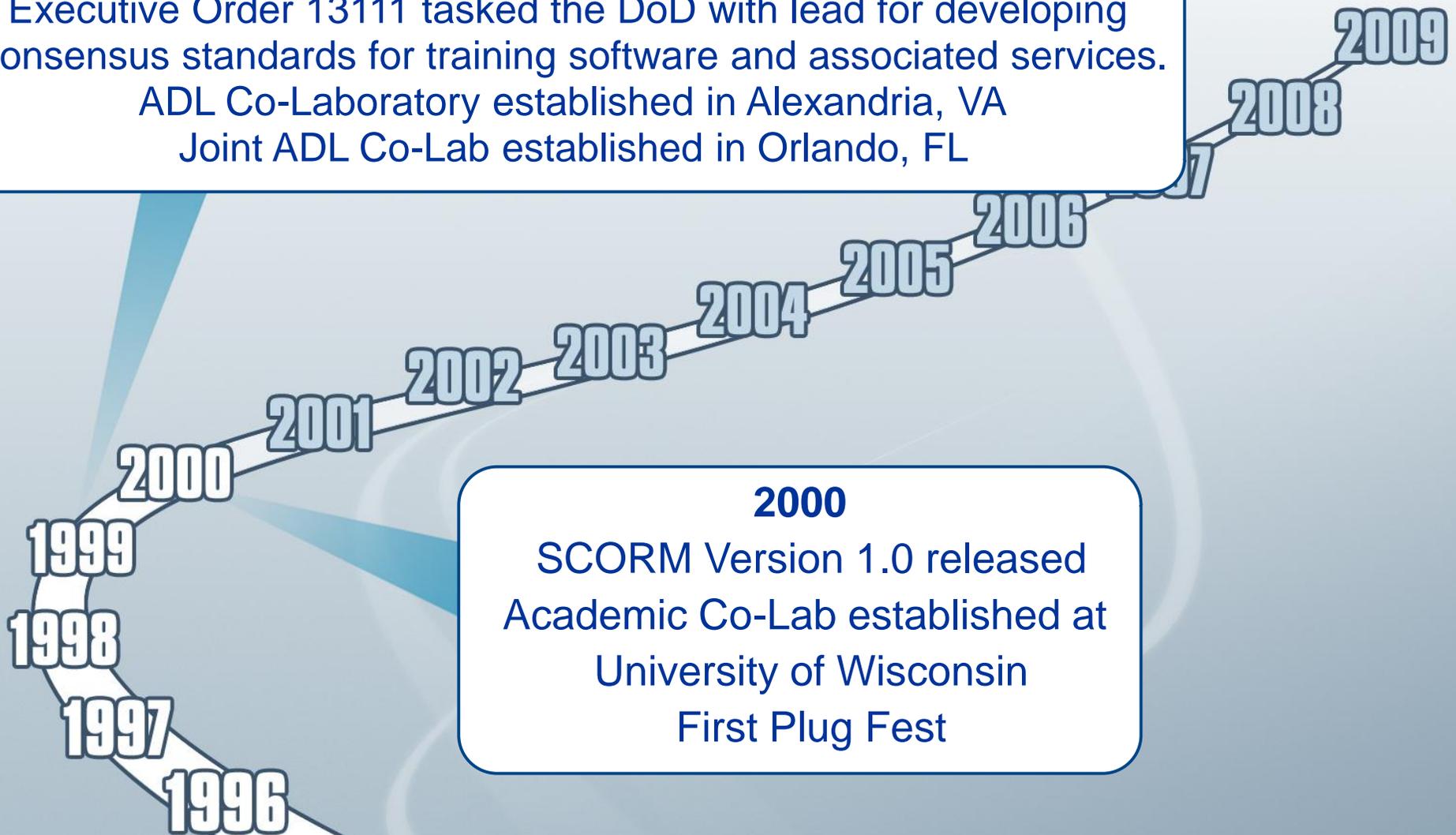


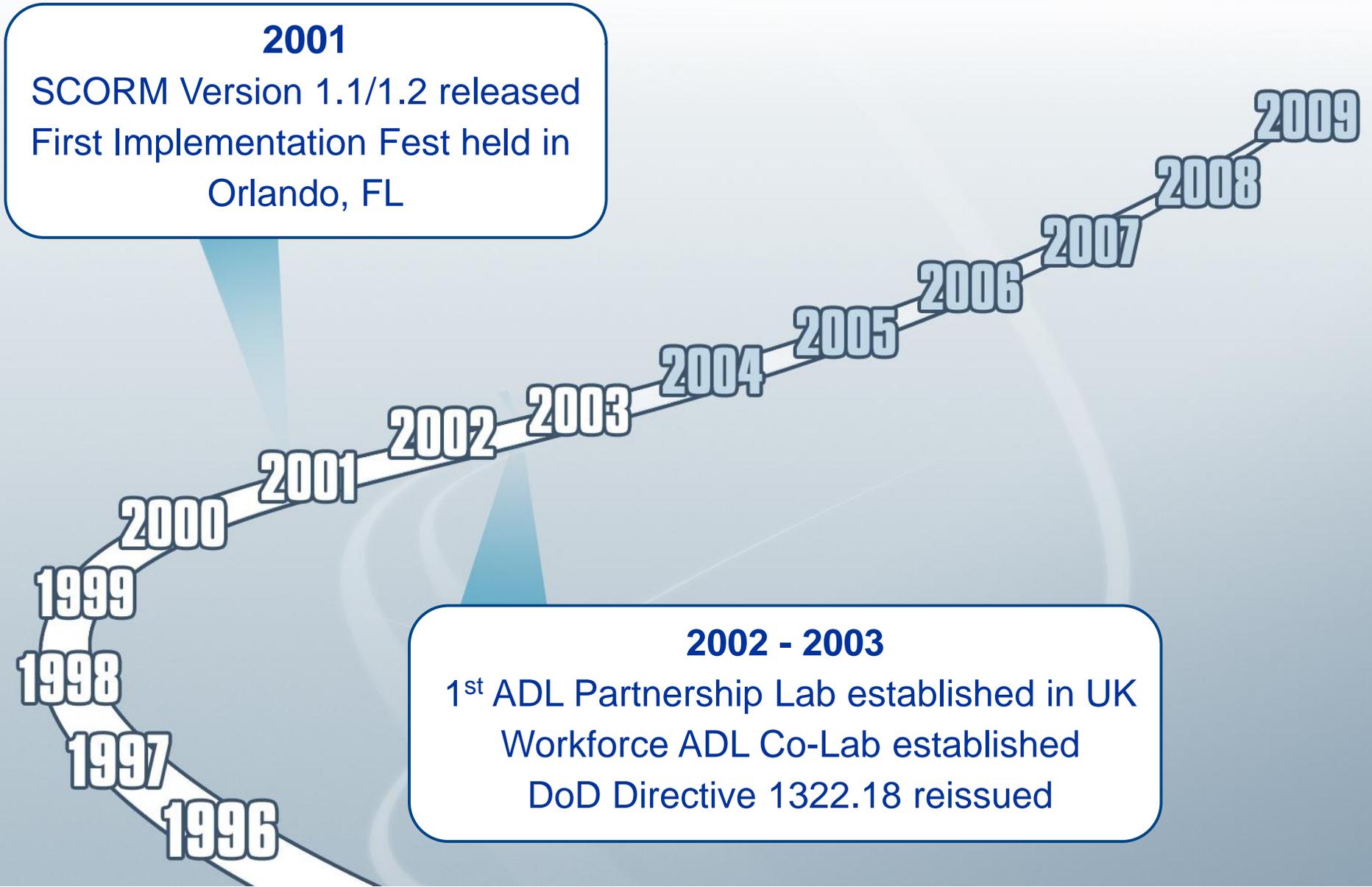
## 1999

Executive Order 13111 tasked the DoD with lead for developing consensus standards for training software and associated services.  
ADL Co-Laboratory established in Alexandria, VA  
Joint ADL Co-Lab established in Orlando, FL

## 2000

SCORM Version 1.0 released  
Academic Co-Lab established at University of Wisconsin  
First Plug Fest





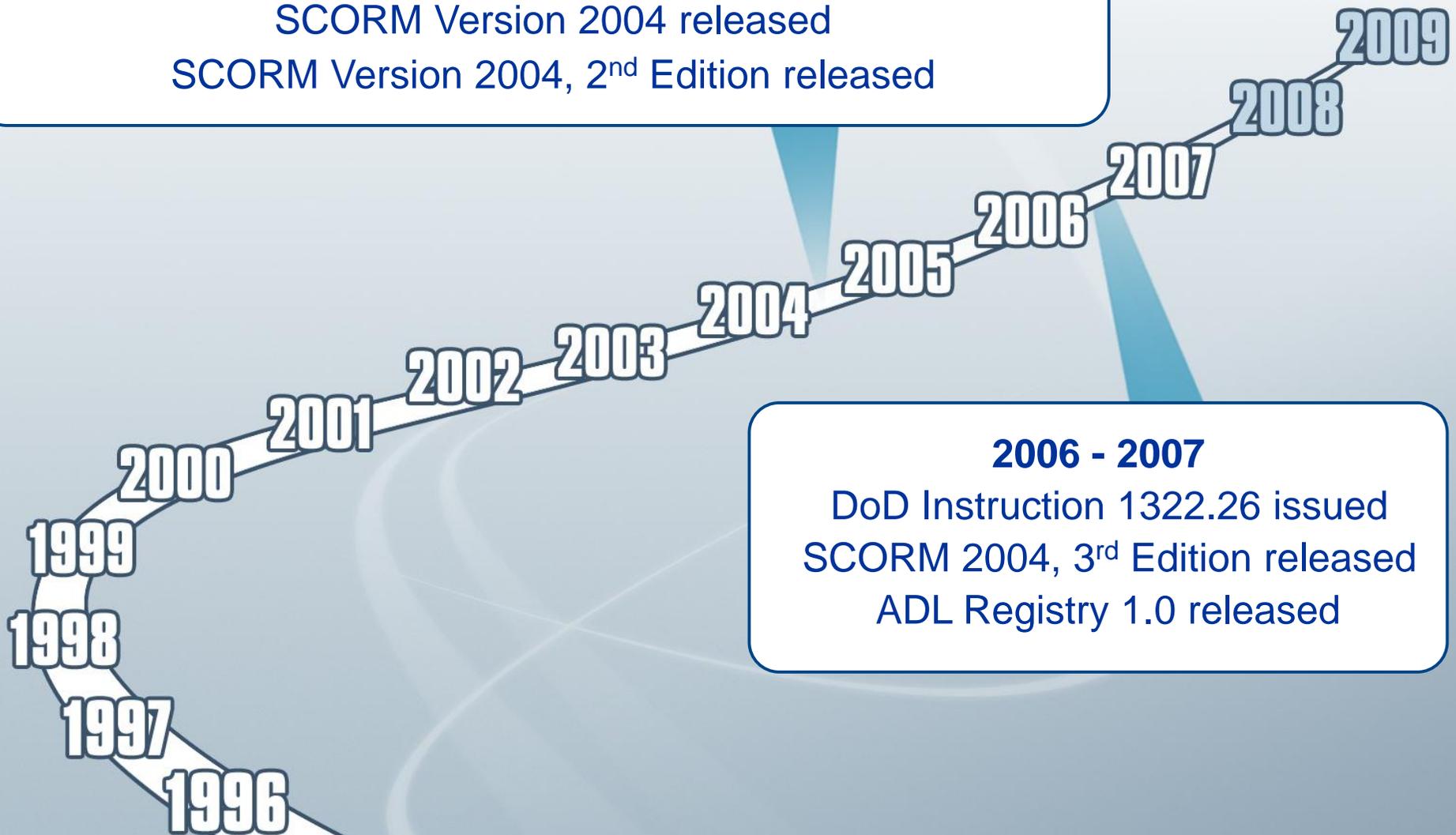
# ADL Initiative

## 2004 - 2005

First International Plug Fest conducted in Zurich, Switzerland  
SCORM Version 2004 released  
SCORM Version 2004, 2<sup>nd</sup> Edition released

## 2006 - 2007

DoD Instruction 1322.26 issued  
SCORM 2004, 3<sup>rd</sup> Edition released  
ADL Registry 1.0 released



# ADL Initiative



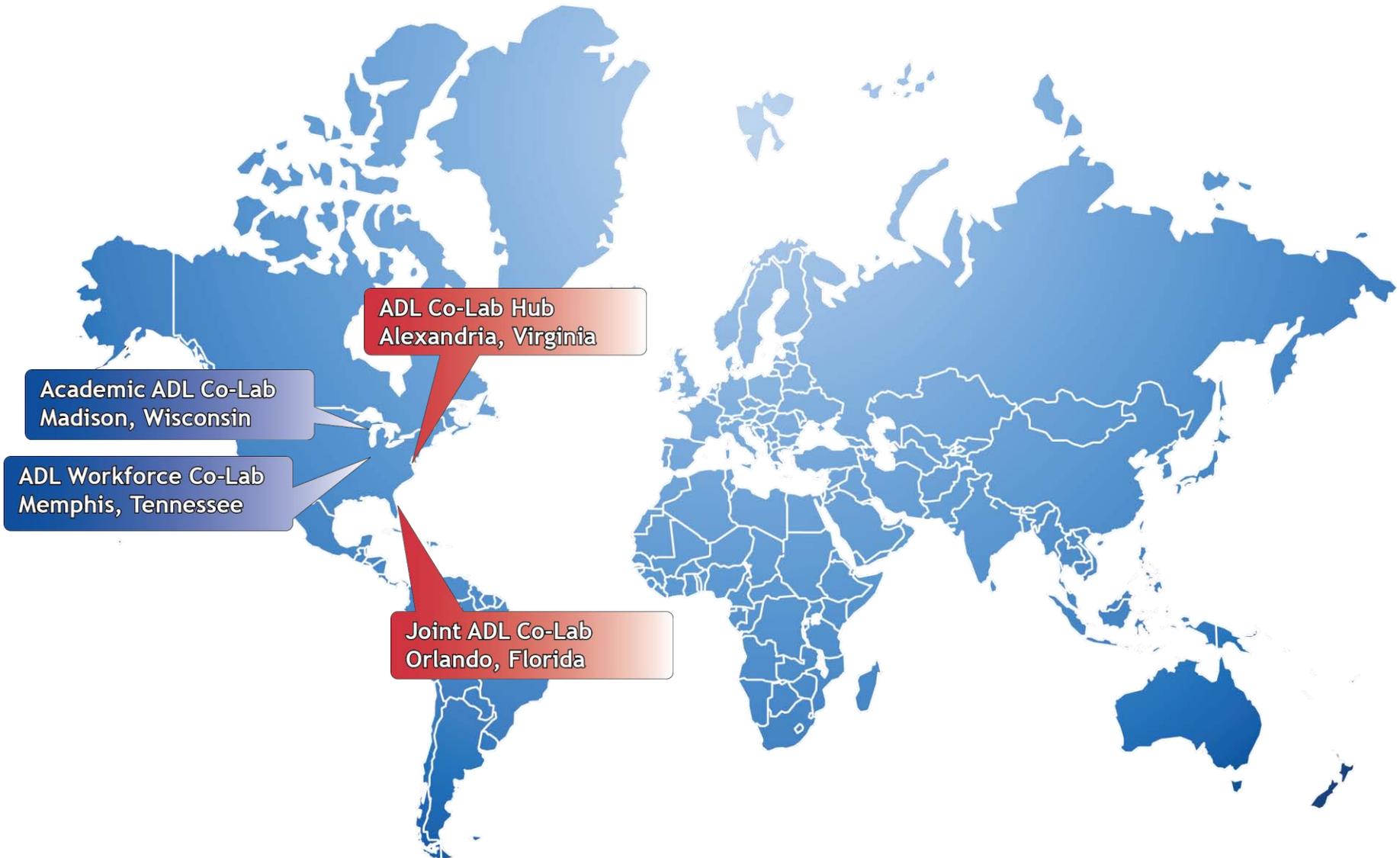
**2008**

Defense ADL Action Team established  
Defense ADL (DADL) Working  
Group established

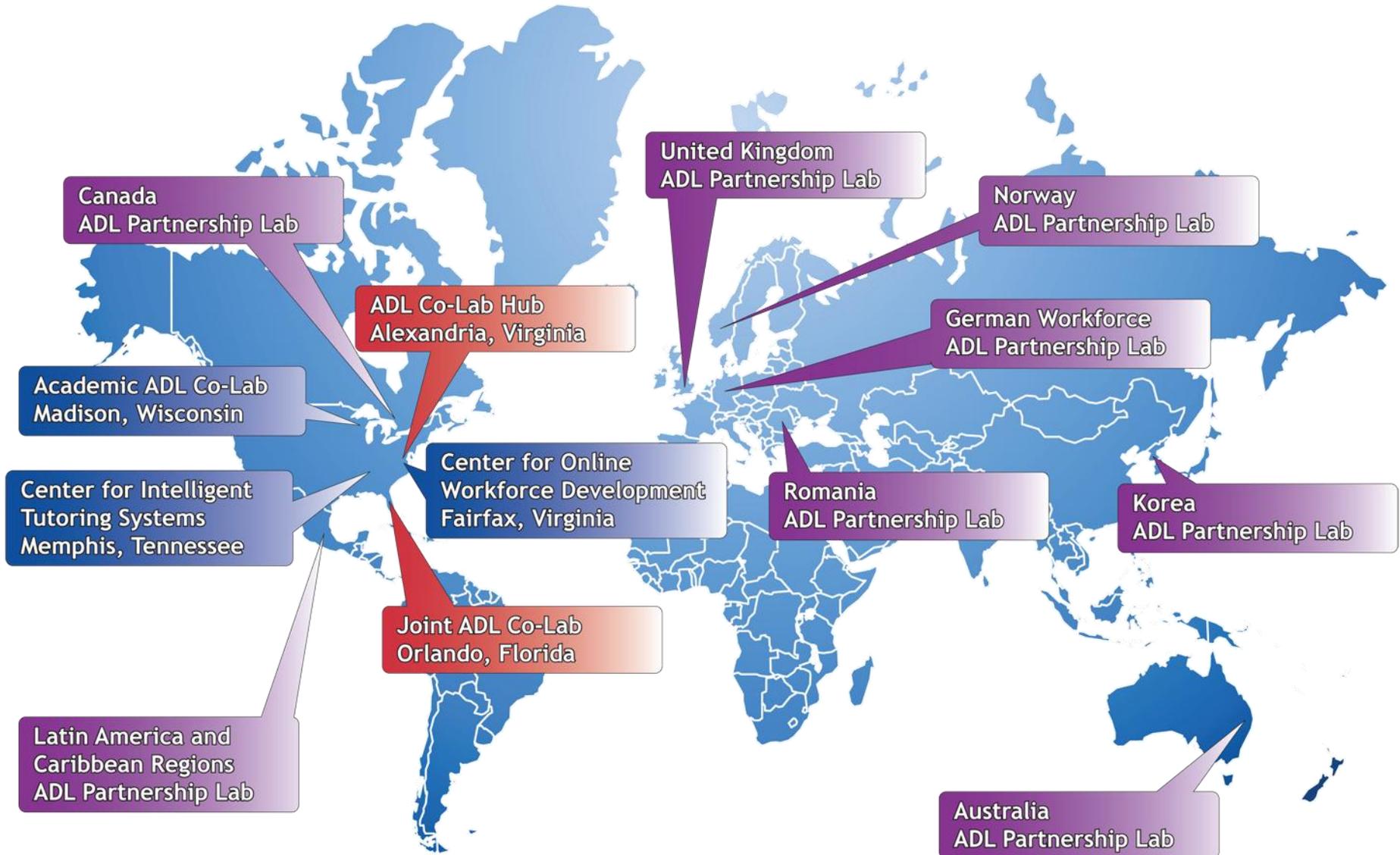
**2009**

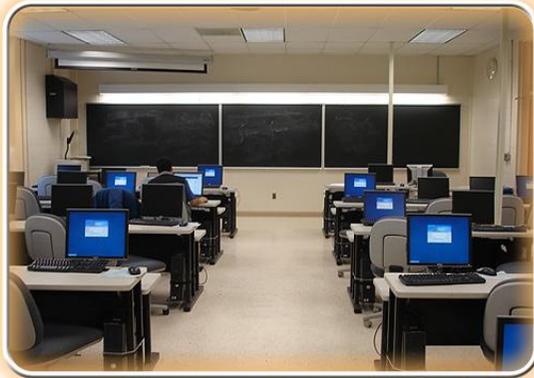
**2009**

ADL Registry Version 1.7 released  
SCORM 2004, 4<sup>th</sup> Edition released



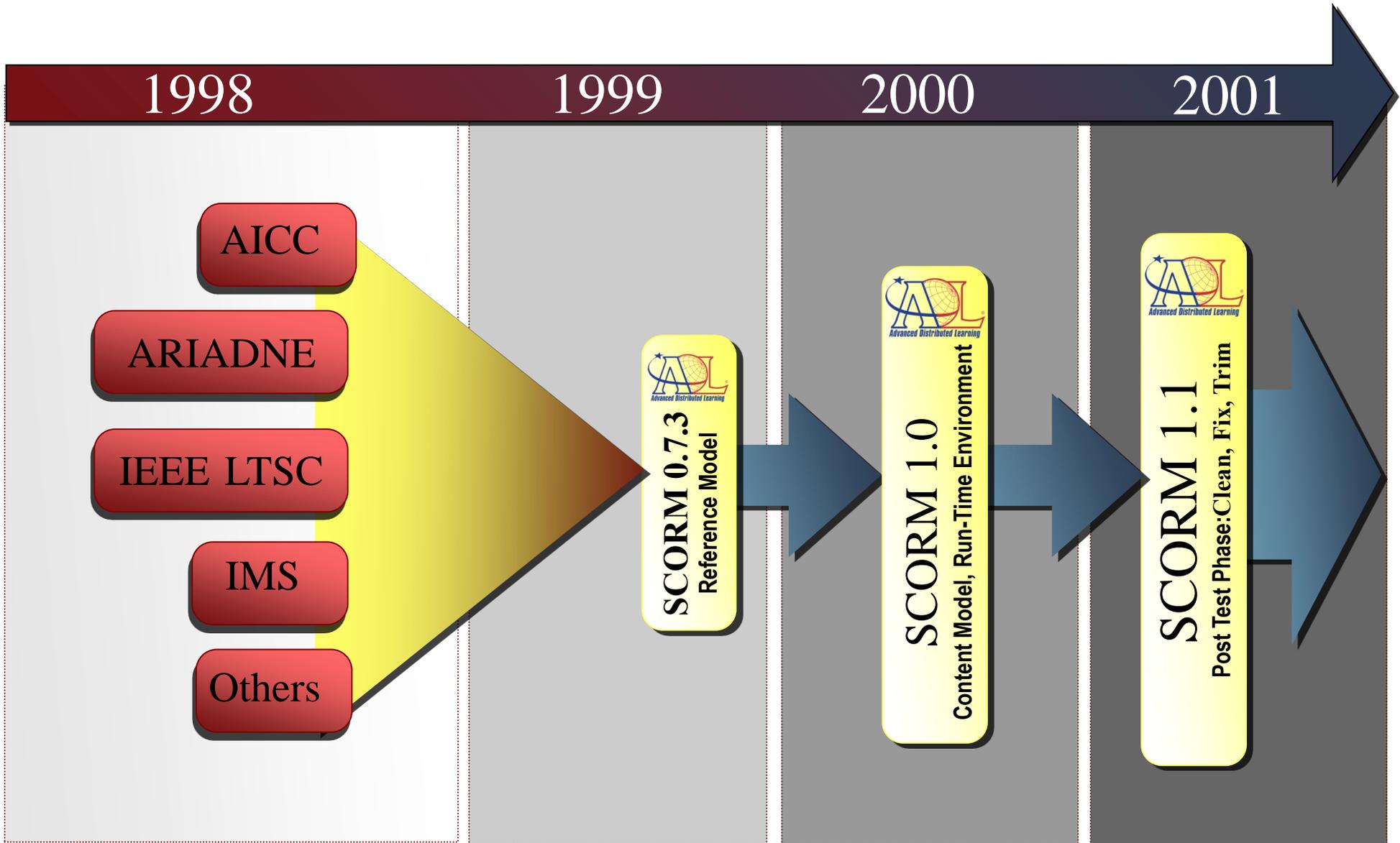
## International Collaboration





# Technology's Effects to Instructional Systems Design - Today





## SCORM 1.1

**Content Aggregation Model:**  
Metadata + Binding

**Run Time Environment:**  
API + Data Model

## SCORM 1.2

**Content Aggregation Model:**  
Metadata + Binding;  
Adds: Content Packaging & Content Organization

**Run Time Environment:**  
API + Data Model  
(updated/fixed)

## SCORM "2004"

**Content Aggregation Model:**  
Metadata + Binding;  
Content Packaging & Content Organization  
(updated/fixed)

**Run Time Environment:**  
API + Data Model  
(updated/fixed)

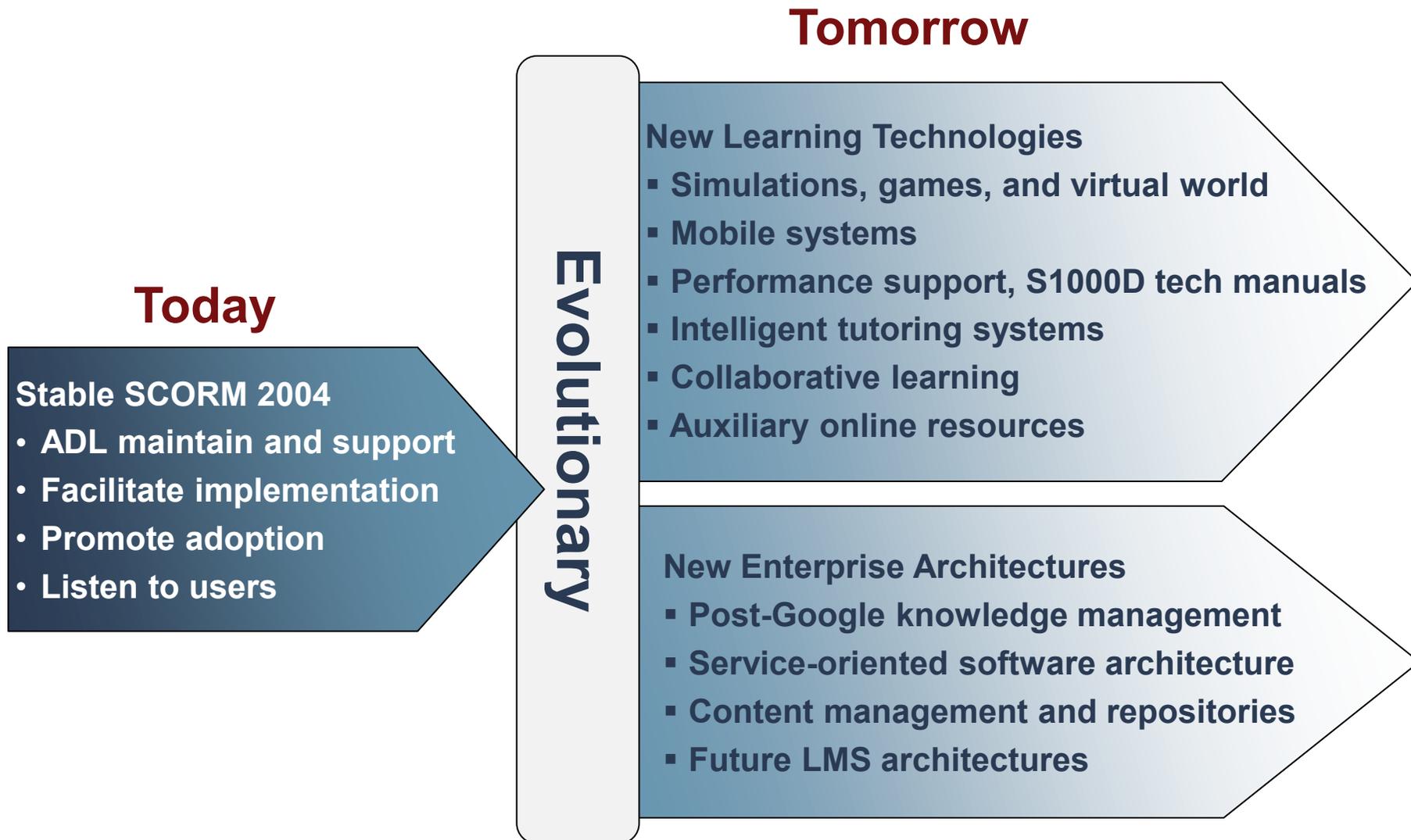
**CAM 1.3**

**RTE 1.3**

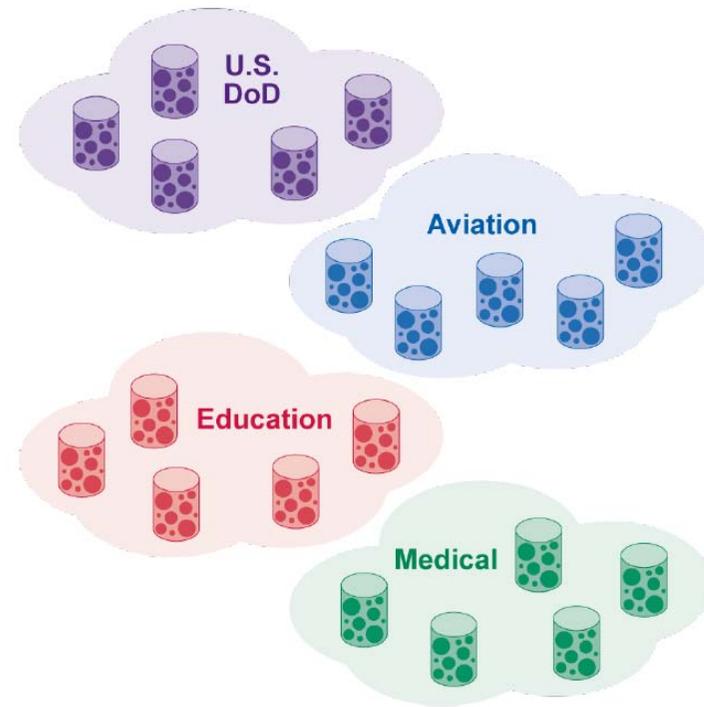
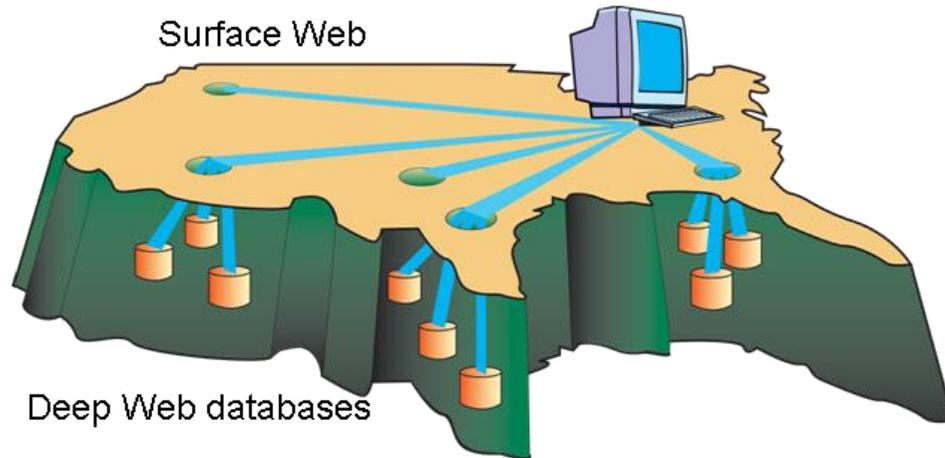
SCORM Certified Products 305  
SCORM Adopters 334

**Sequencing & Navigation:**  
Rules and Behaviors  
(new)

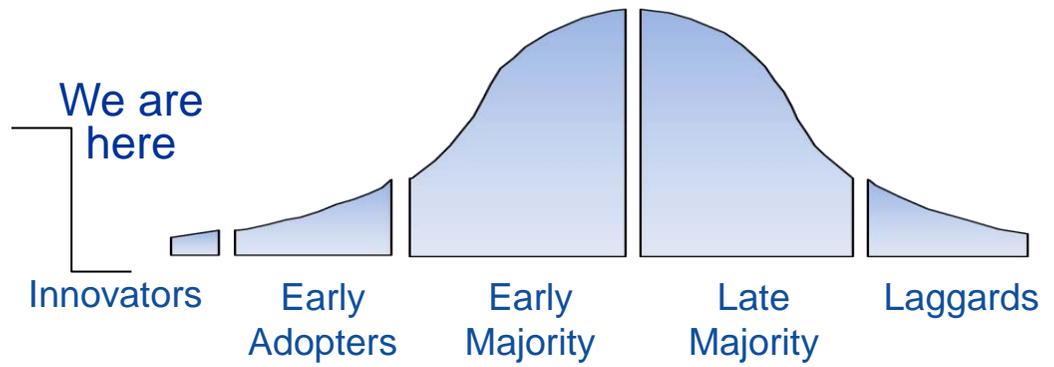
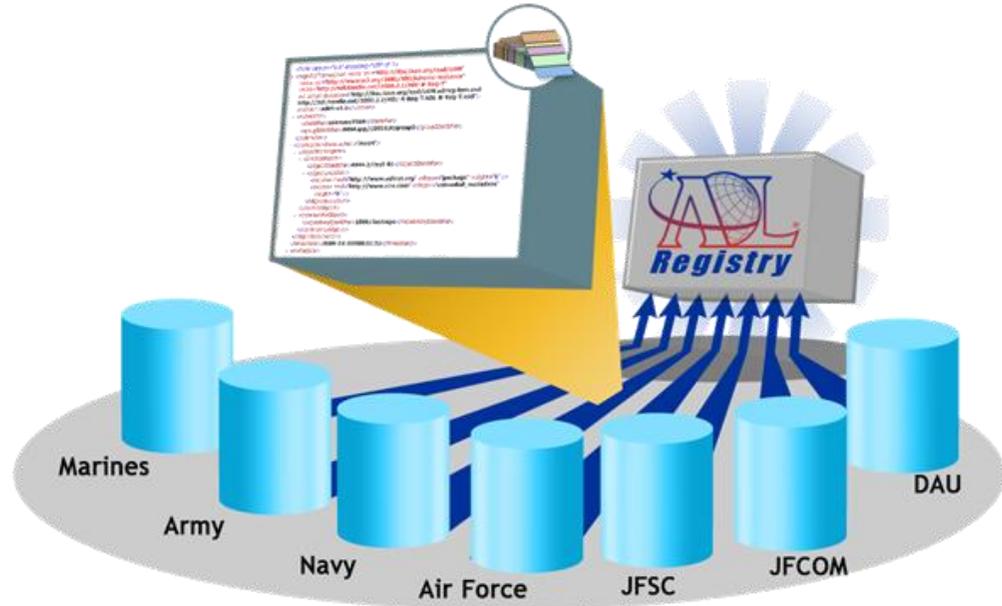
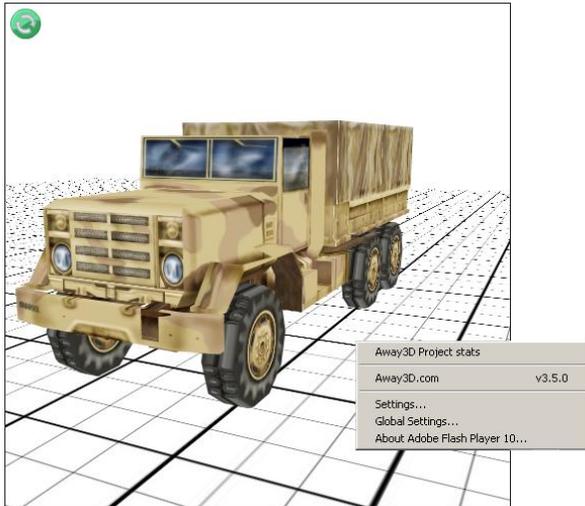
**S&N 1.3**



“It doesn’t do much good to have interoperable and reusable digital objects if people can’t find and use them”

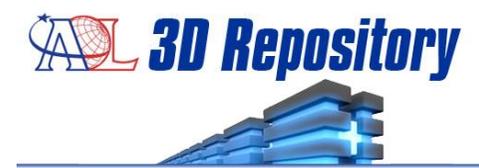
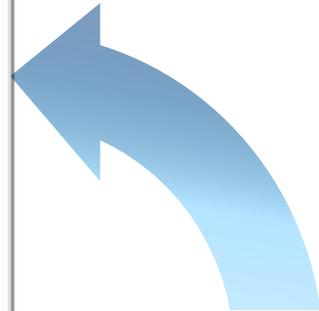
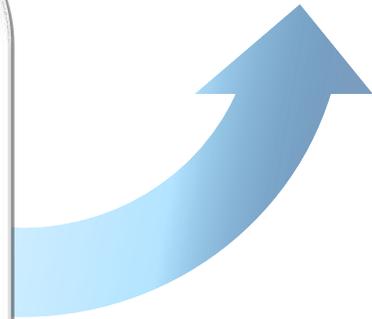


# CORDRA Today





THE  
**LEARNING REGISTRY**





## Technical Data



IETM



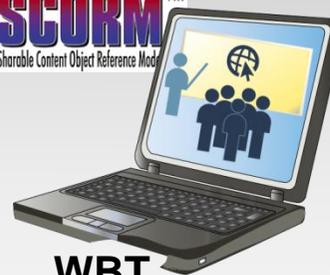
Technical  
Publication

## Training Materials



Multiple  
Format  
Types

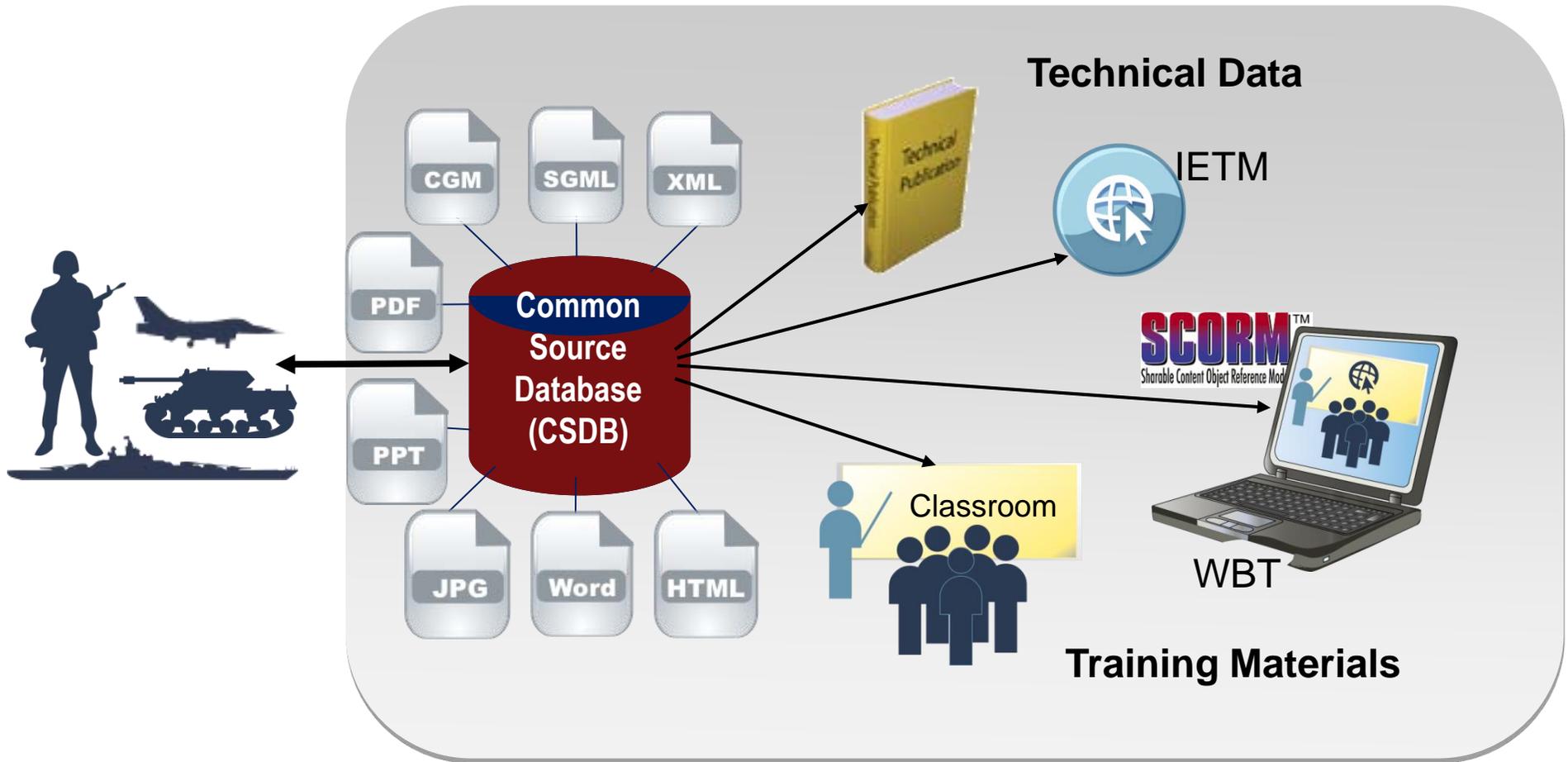
**SCORM**<sup>TM</sup>  
Sharable Content Object Reference Model



WBT



Classroom



# Immersive Learning



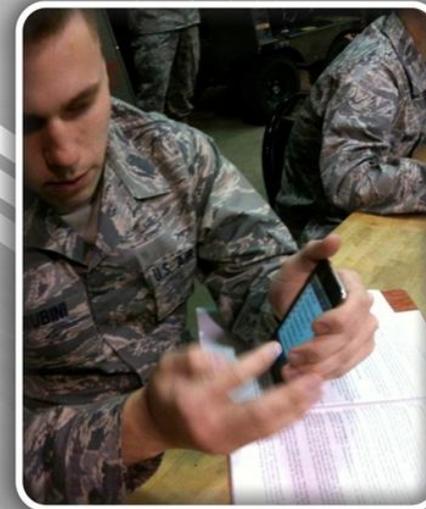
Games – 08/09 revenues of \$41billion



Virtual Worlds - 1.5 million Second Life users in the last 60 days



Social Networking - more than 400 million Facebook users

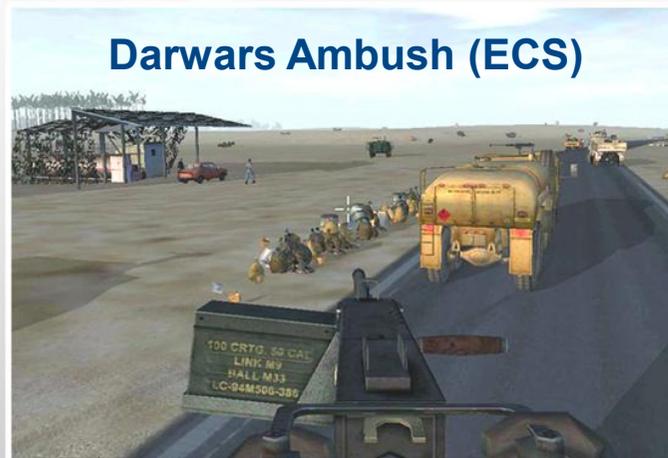


Mobile - Phones are outselling PC's 3:1 with Smart Phone users spend ~80-90 min./day using apps

# Games Yesterday



**USMC Tactical Combat Casualty Care (TC3)**



## Enhanced Learning Environment using Creative Technology – Bilateral Negotiations Trainer (Elect BiLat)



Red Owl Sniper Bot



VBS2



+ + +  
+ + +  
+ + +  
+ + +



Back to the Future

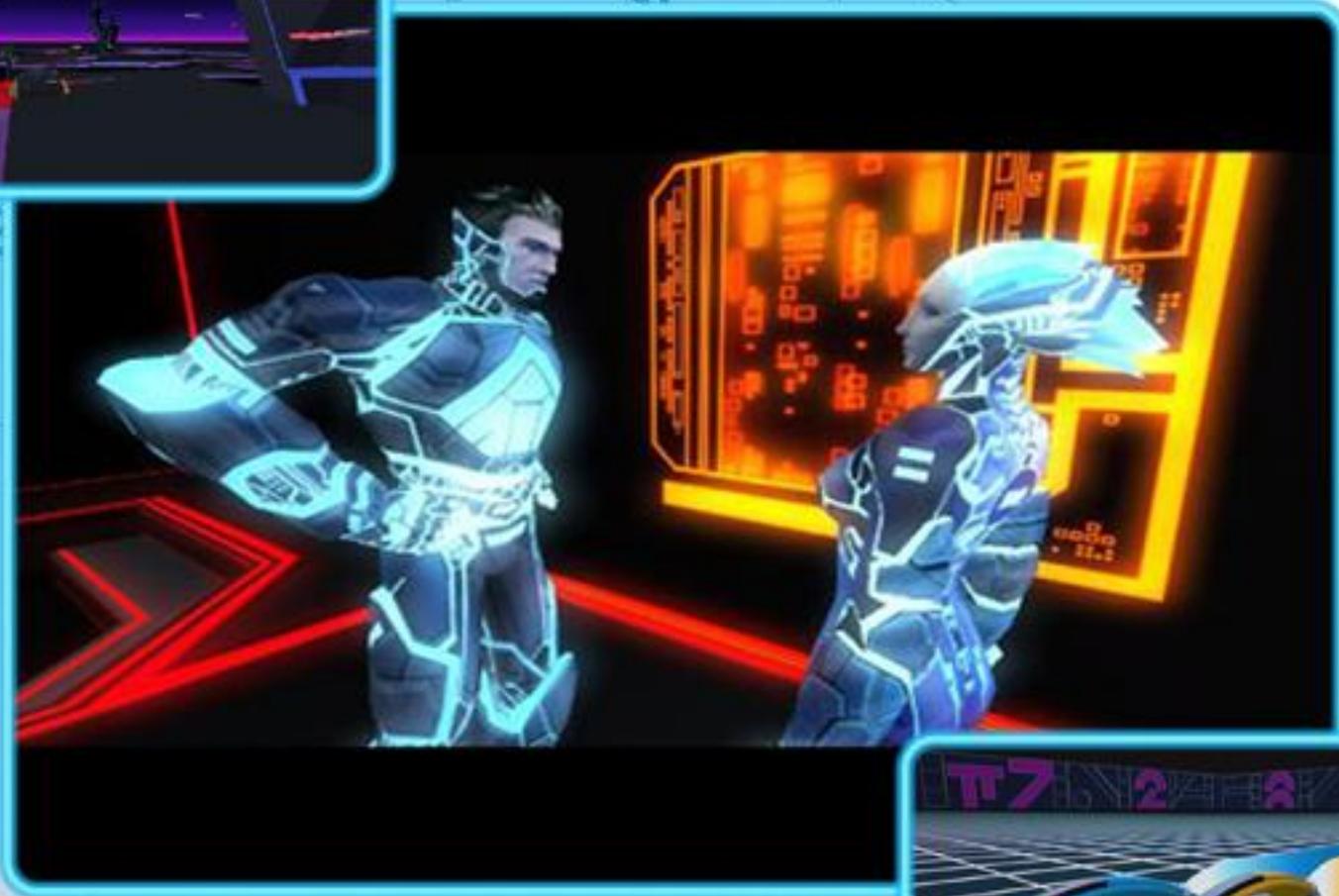


Microsoft Kinect



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# Virtual Worlds Yesterday



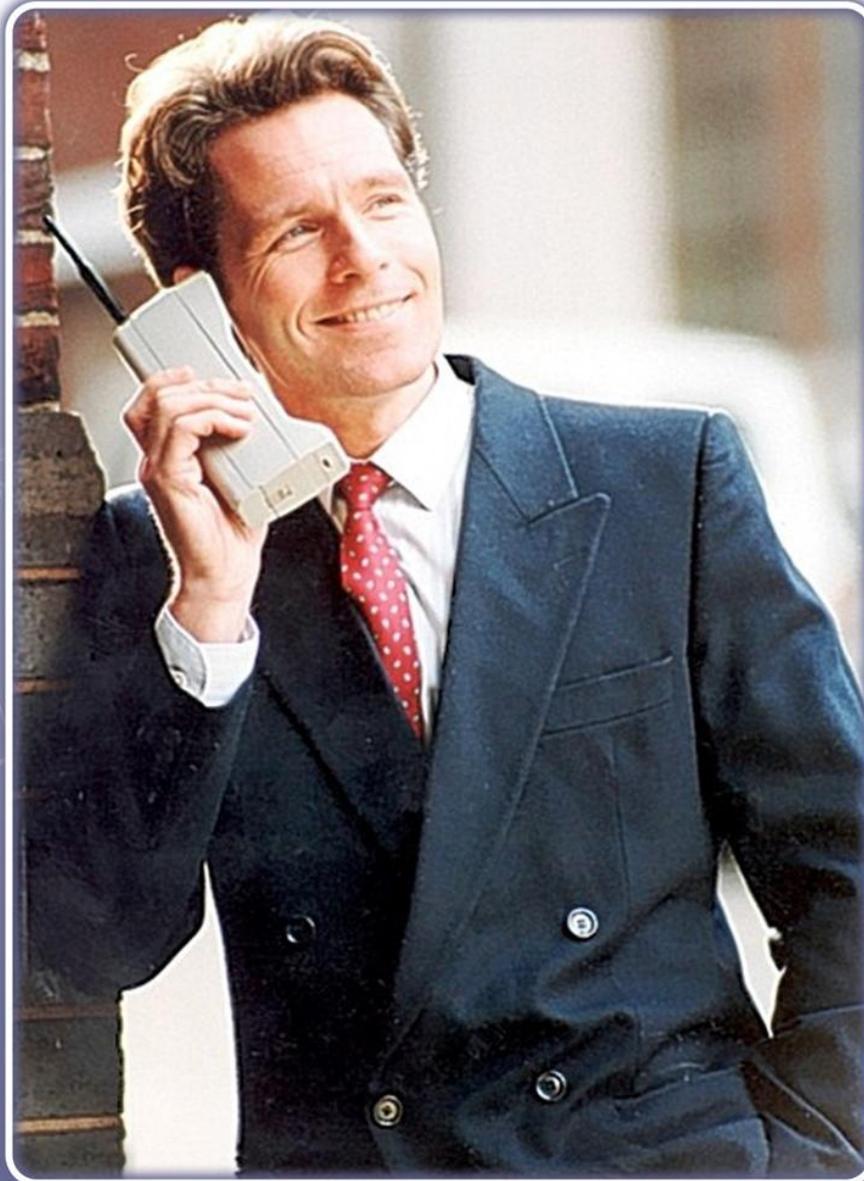
TRON



# Virtual Worlds Future



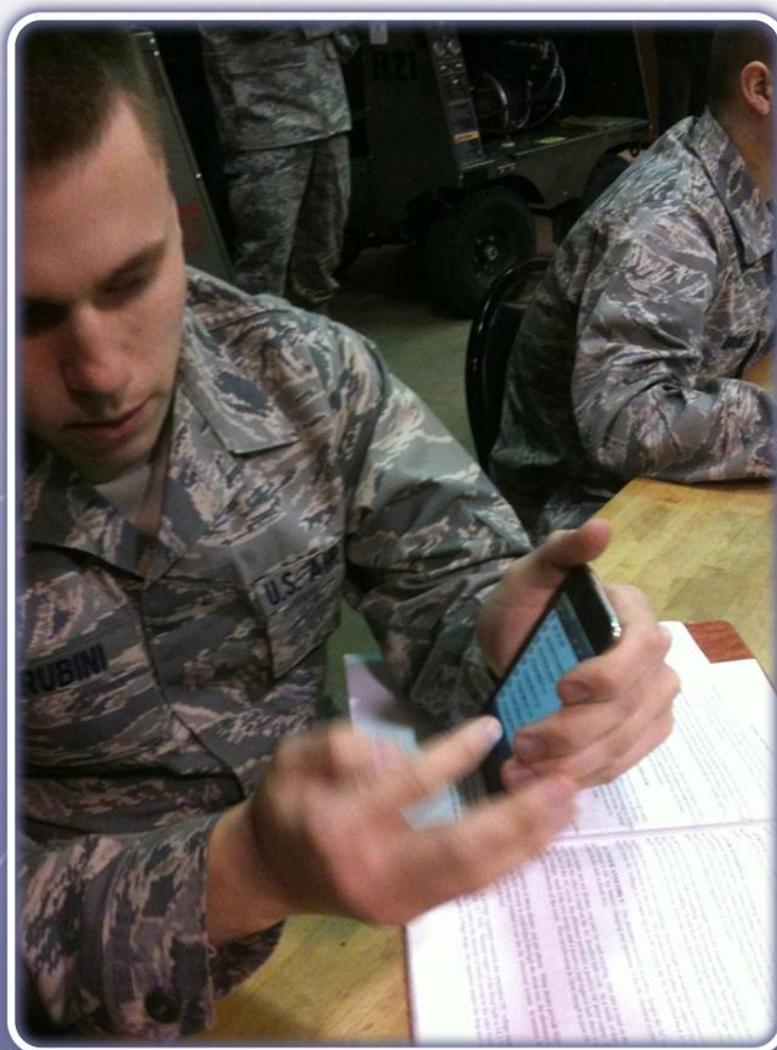
# Mobile Yesterday



# Mobile Today

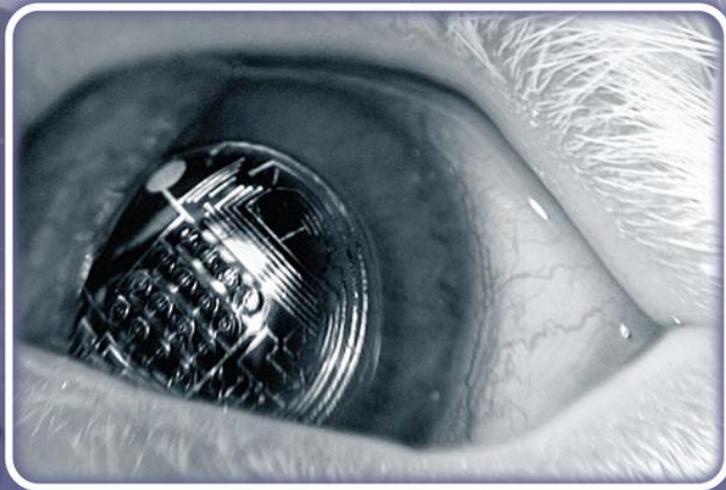
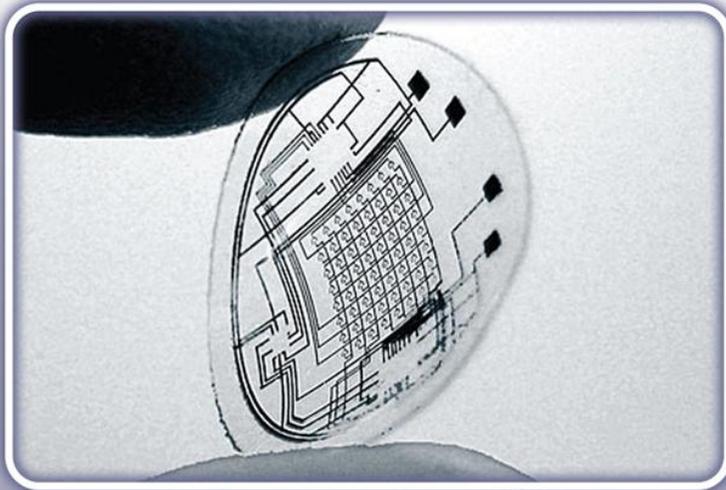


**V Communicator**



**Apps for Army Program**

# Mobile Future



*The Future*

# Social Media Yesterday



## Web 1.0

"the mostly read-only Web"

250,000 sites



published content



user generated content



45 million global users

1996

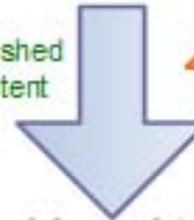
## Web 2.0

"the wildly read-write Web"

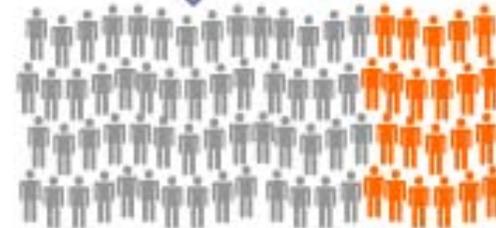
80,000,000 sites



published content



user generated content



1 billion+ global users

2006



“For leaders, ... it's really important to be connected to that and understand it... I think communicating that way and moving information around that way -- whether it's administrative information or information in warfare -- is absolutely critical.” **Navy Adm. Mike Mullen, Chairman of the Joint Chiefs of Staff**

- Since the beginning the focus of the R&D program has been to fund research to further the ADL Initiative
- Approximately \$1.5M per year was awarded starting in 2000
- In a nutshell, the general “focus” over the first seven years:
  - 2000-2003 – Incentivize SCORM development and courseware best practices
  - 2003-2005 – Investigated: repository/registry mechanisms, sequencing development, and serious games
  - 2005-2007 – Integrated Prototype Architecture and continued research in simulations/games integration



## Eduworks and College of Continuing Education USMC



The image shows two overlapping windows. The background window is the website for the United States Marine Corps College of Distance Education and Training. The foreground window is the ADL Desktop Registry Tool interface.

**United States Marine Corps**  
**College of Distance Education and Training**

General Info Programs Stud

PME Distance Education Programs

- Command and Staff College
- Expeditionary Warfare School
- Weekend Seminars for Reserve Officers
- Satellite Campuses & Regional Coordinators

MarineNet

- Learning Resource Centers
- Courseware Development

Related Links

- Marine Corps University
- MCCDC Home

Welcome to CCE: Training For **MarineNet** The Future

Learning Resources

[www.tecom.usmc.mil/ccce](http://www.tecom.usmc.mil/ccce)

**ADL Registry Desktop Registry Tool**

Submit to ADL Quick Scan

Drag-and-drop files here or browse for a file.

**Workflow:**

1. Select content
2. Generate registry record
3. Edit record
4. Register content
5. Get receipt

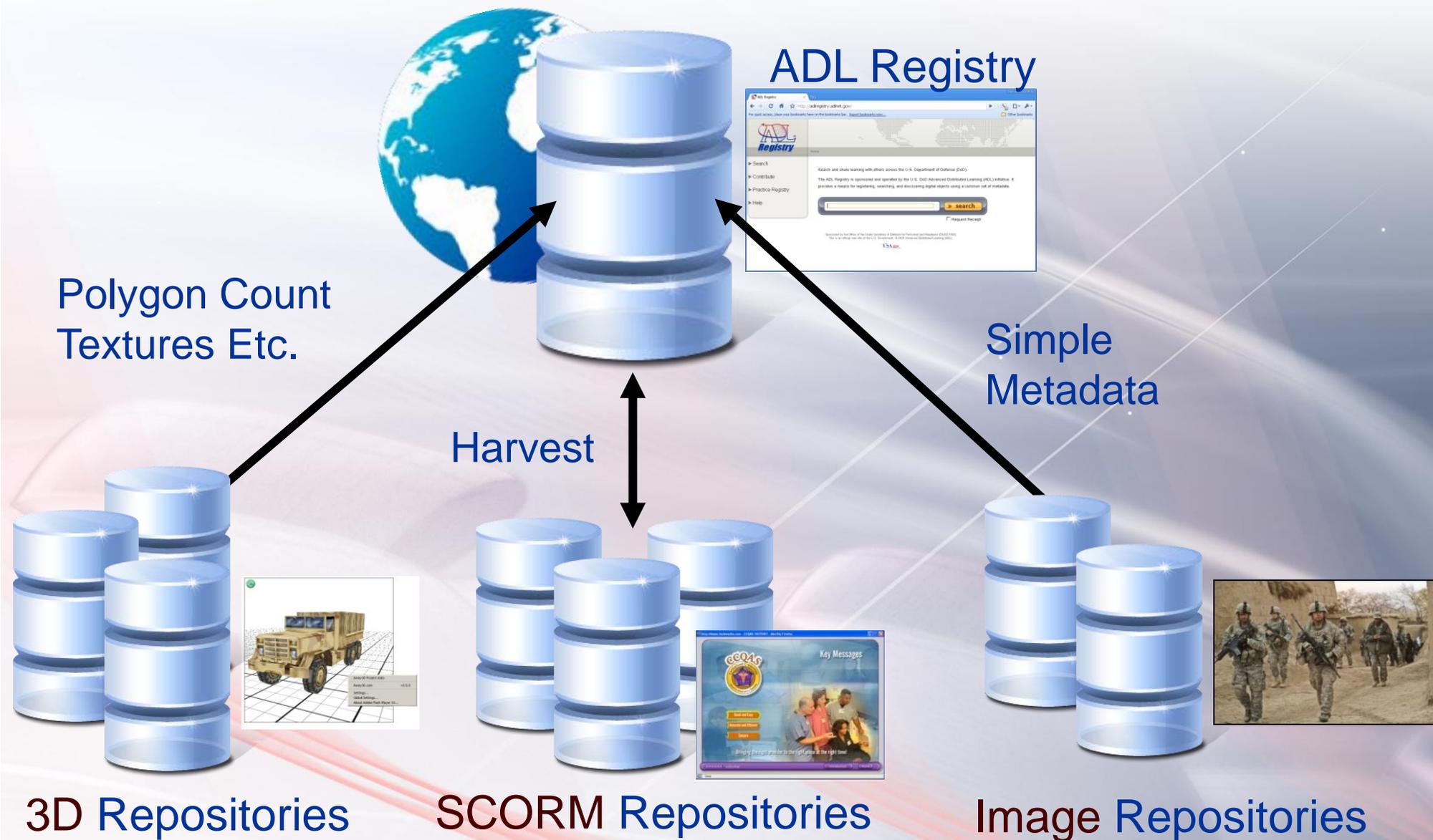
**About**

This tool auto-generates the information needed to register zipped courses and individual files in the ADL Registry. You can then edit and submit the information. See the documentation to change the default settings or customize the keyword weighting.

This tool was developed by Eduworks Corporation with support from the ADL.

ADL-R Status: Client IP address does not match as specified in the Client Access Key

## Corporation for National Research Initiatives



## Mobile content delivery platforms



Adaptive Stance Study with Ministry of Defense Advisors (MODA)

SCORM Communications Framework Modernization

Anonymous Data Brokering

E-learning Reuse Integration, Automation, and Support System

Assessment in Complex Simulations

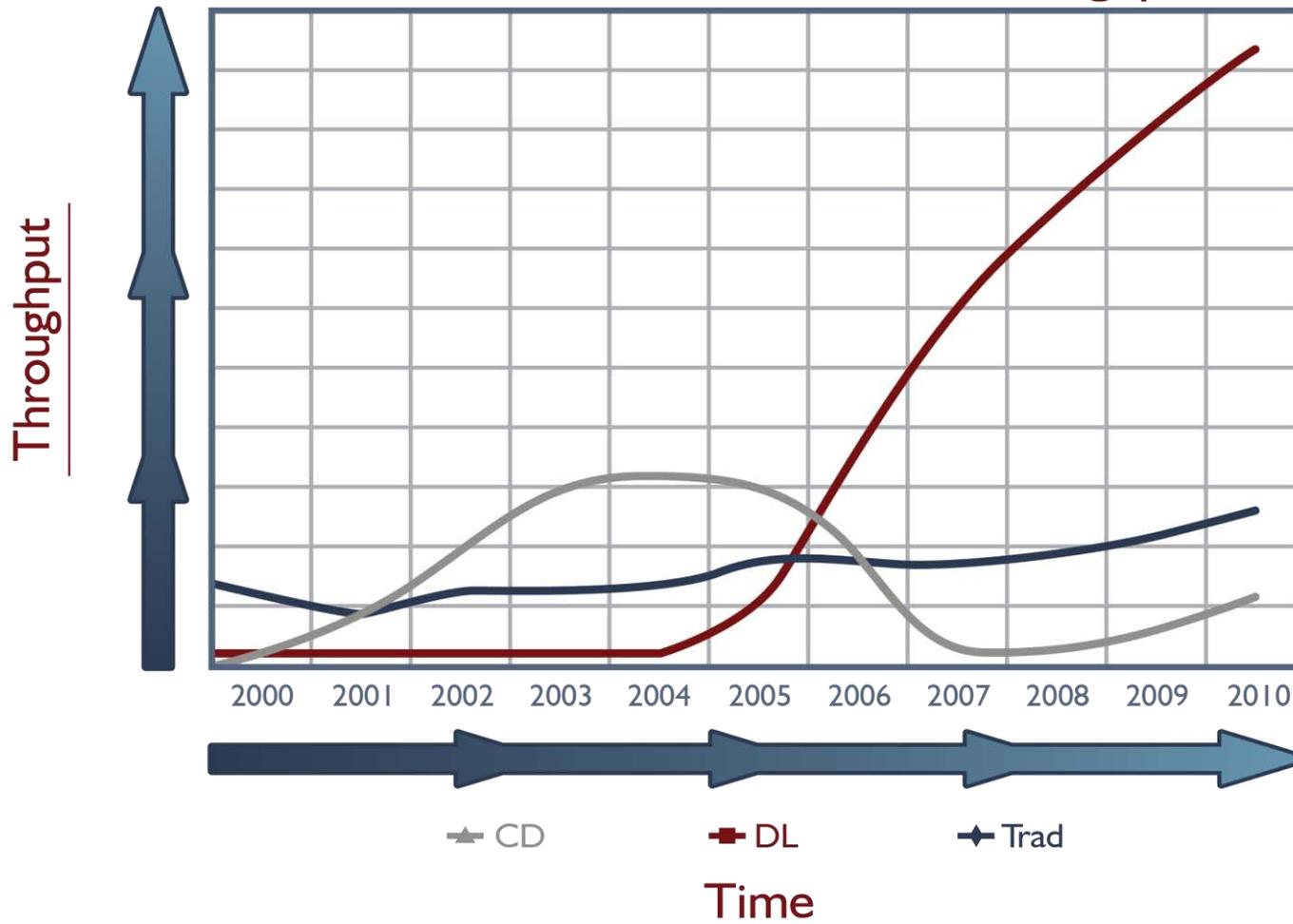




## Impact

### ADL: The Last Decade

Increased Access = Increased Throughput





## Impact

- USMC
  - Enrollments: 1,215,349
  - Completions: 698,965
- Army
  - Enrollments: 1,143,644
  - Completions: 543,570
- Navy
  - Enrollments: 6,228,331
  - Completions: 5,441,794
- Air Force
  - Enrollments: 7,678,210
  - Completions: 7,181,833



**Evolve Standards**

**Identify Research Areas needed to achieve potential**

**Expand International Collaboration**

**Evolve Registry/Repository**

**Improved Content Discovery**



**ImplementationFest 2010**  
**10-12 August**  
**Rosen Centre, Orlando, FL**

**Dr. Kristy S. Murray**  
**Director, ADL Initiative**