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# ADL 3D Repository: A Platform for Sharing 3D Models

I/ITSEC 2010

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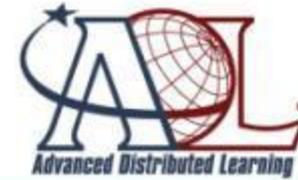
# About ADL



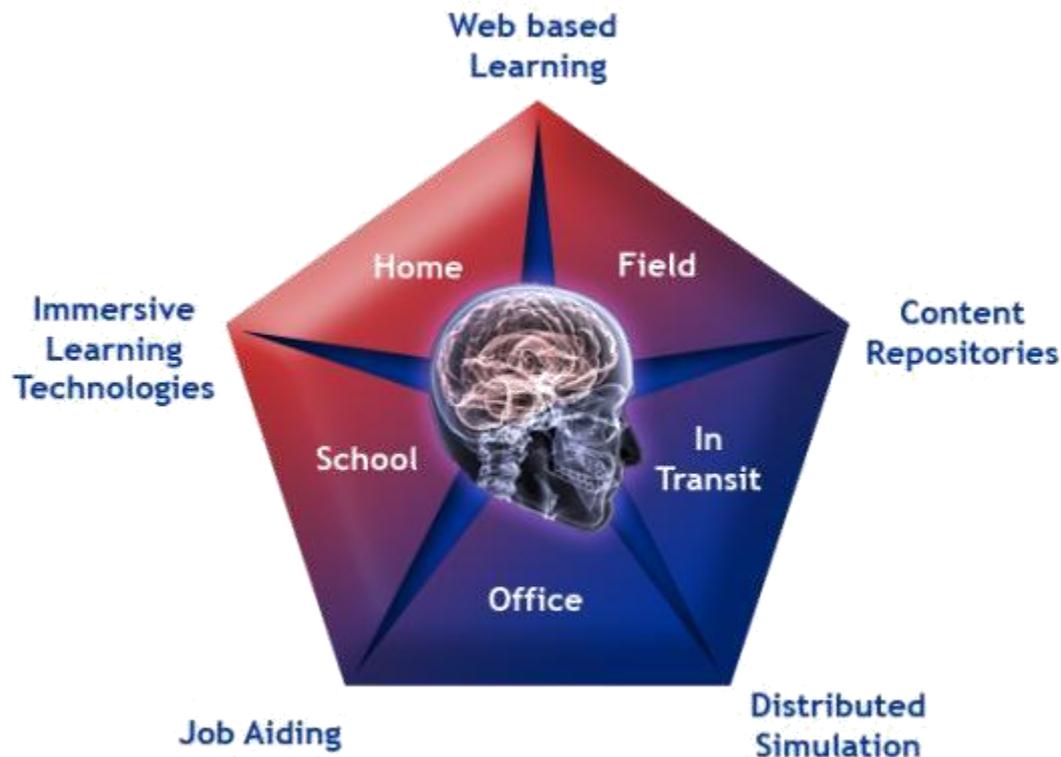
- Advanced Distributed Learning (ADL) Initiative
  - Founded in 1997 to standardize and modernize delivery of training and education in the U.S. Department of Defense (DoD)
  - Collaborate with government, industry, and academia to promote international specifications and standards for designing, managing, and delivering learning content
  - Operate under the direction of the DoD Office of the Under Secretary of Defense for Personnel and Readiness (OUSD P&R)



# ADL Vision



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





# Problem Space



- Increased use of immersive learning technologies for education and training: Simulations, Virtual Worlds, Games
- 3D content is difficult to create and expensive
- For artists
  - Reusing 3D models can save them time
  - “On average, customers save over 20 hours of modeling time when they buy a 3D model” (TurboSquid)
- For non-artists
  - Reusing 3D models may be all they have



# 3D Content Sharing Landscape





# ADL 3D Repository



**Goal:** Share 3D content as openly as possible

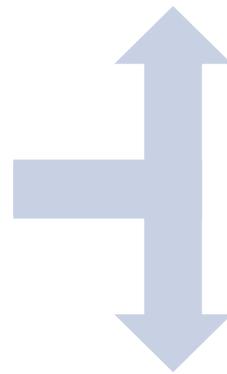
**Artists and  
Non-Artists**



Upload



Download



**Artists and  
Non-Artists**

**Any Environment**





# Features



- View in 3D
  - O3D and Flash
  - Wireframe and Textures
- Convert and download
  - .fbx, .dae, .3ds, .obj
- Ratings and reviews
- Interactive upload
  - Built-in screenshot tool
  - Contributor markings
  - Creative Commons and public domain licensing



# Roadmap



## Community Focus

- Updated upload process
  - Modeled after YouTube
  - AJAX and JSON - fast
  - Interactive - lots of feedback
- Privacy and sharing settings
- Integration
  - with 3D/game simulation engines
  - with approaches to Virtual Worlds in browsers

## Infrastructure Focus

- Federation
  - Defense Information Systems Agency Net-Centric Enterprise Services
  - 3D Registry
- Search



# Pilot Members





# Please Participate



- Sign up for an account  
<http://3dr.adlnet.gov>
- Join our Google Group  
<http://groups.google.com/group/3d-repositories>



# Related Presentations



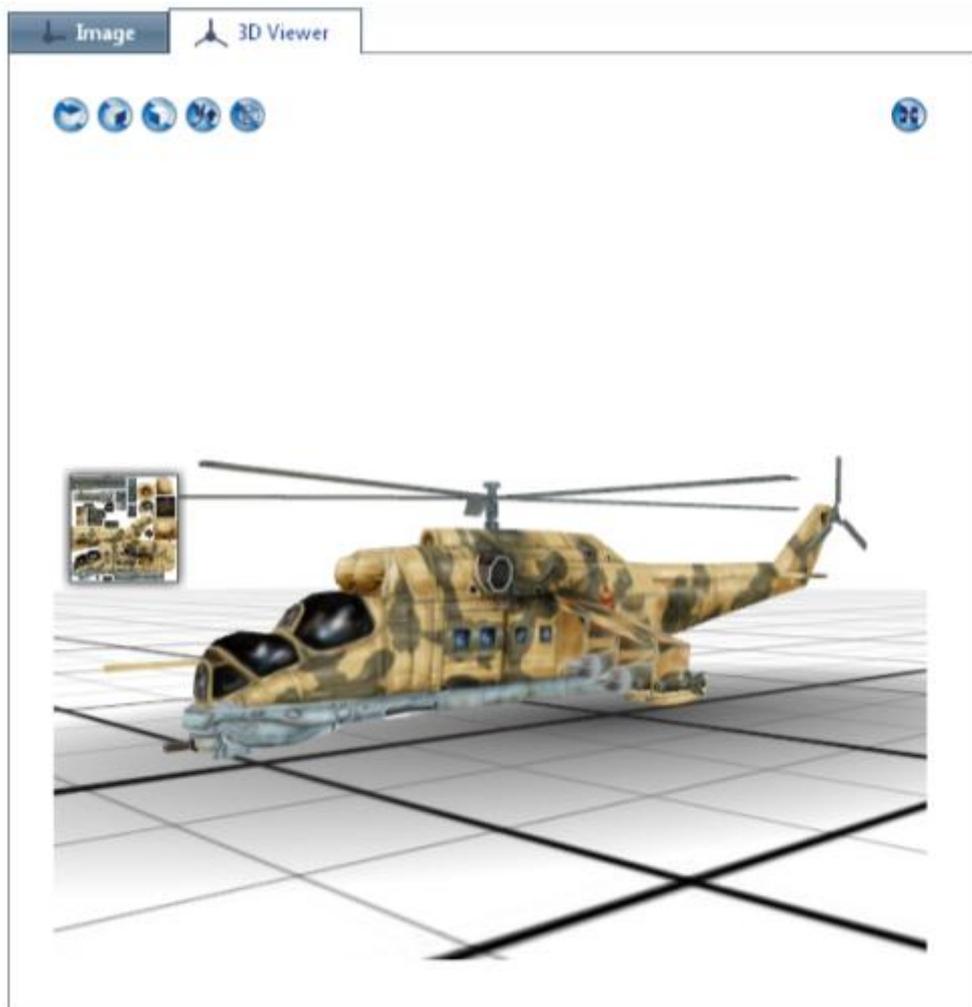
- Technical Challenges to 3D Content Interoperability
  - Rob Chadwick
- Virtual Worlds in DoD: A Demonstration
  - Jeff Mills
- ADL 3D Repository: How to Contribute
  - Austin Montoya

**Questions?**

# BACKUP



# View and Download



## 3D Asset

### MI24

Soviet Mi24 Hind Attack Helicopter [Report a Violation](#)



Keywords: [military](#) [attack\\_helicopter](#) [air](#)

Available File Formats

## Developer Information



Developer Name: [Delta3D](#)

<http://www.delta3d.org>

## Sponsor Information



Sponsor Name: Naval Postgraduate School



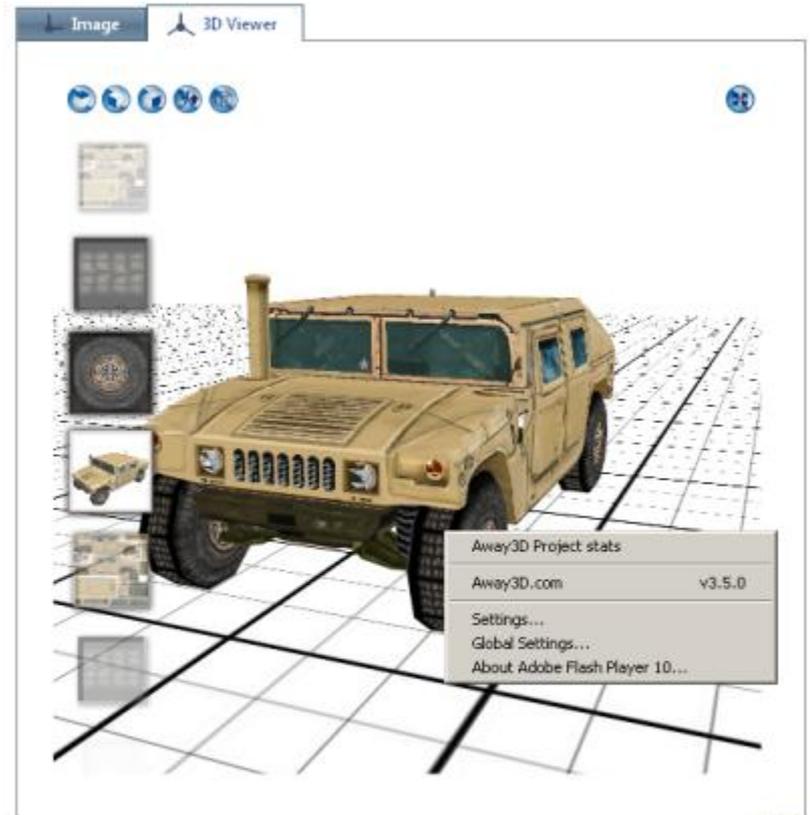
# 3D Viewers



## O3D (Hardware)



## Flash (Software)



[Hide](#)

You are using the Flash version of the 3D Viewer, which may cause performance issues when viewing large models. This page is optimized for the O3D Plugin.

[Click here](#) to download O3D.



# 3D Viewers

## Wireframe and textures





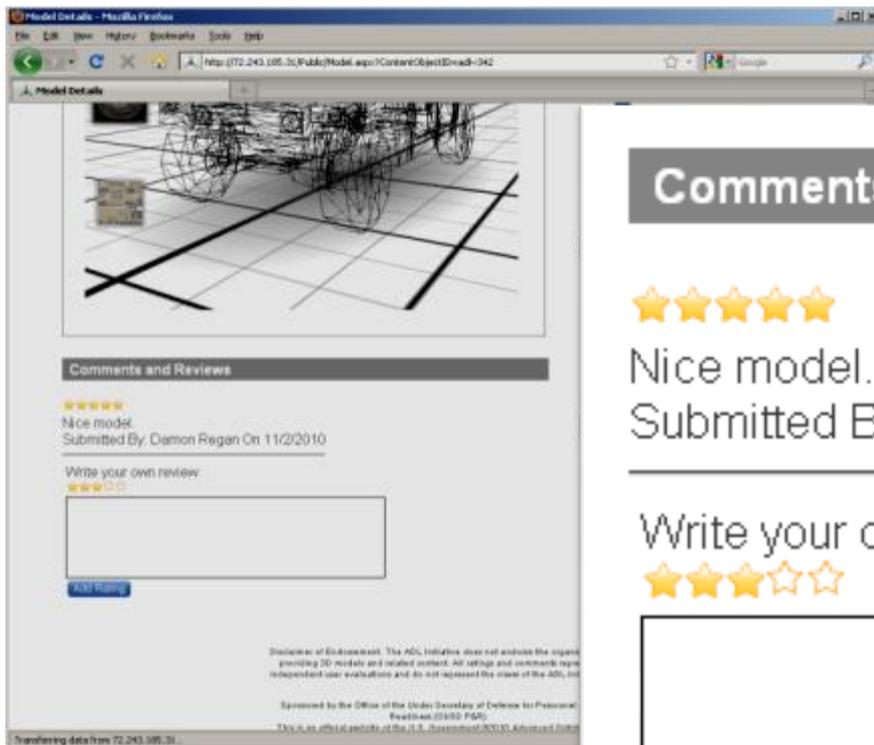
# 3D Viewers

## Fullscreen





# Ratings and Reviews



## Comments and Reviews



Nice model.

Submitted By: Damon Regan On 11/2/2010

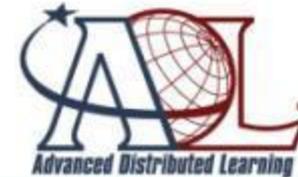
Write your own review:



Add Rating



# Upload

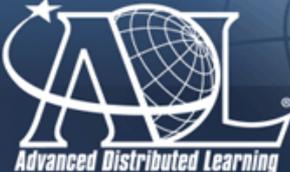


Upload - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://3dr.adlnet.gov/Users/Upload.aspx

Welcome damon.regan.ctr@adlnet.gov | [My Account](#) | [Logout](#)



## 3D Repository



[Home](#) [About](#) [Upload](#) [Contact Us](#)

### Upload Asset

Asset Type:  ?

Title\*:

File Upload\*:   ?

Thumbnail\*:

Creative Commons License:  [View](#)

### Optional Information



# Optional Metadata



**Developer Logo:**  Upload Logo  
 None  
C:\Documents and Sett

**Developer Name:**   
**Artist:**

---

**Sponsor Logo:**  Upload Logo  
 None  
C:\Documents and Sett

**Sponsor Name:**

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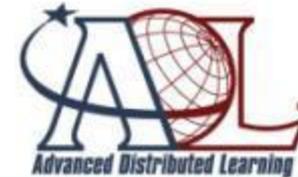
**Format:**   
**Description:**

**More Information URL:**

**Tags:**



# Validation



Unit Scale:

Up Axis:  Y  
 Z

Number of Polygons:

Number of Textures:

Textures UV Coordinate Channel:

Thumbnail:



# 2D Thumbnail Snapshot



Unit Scale:

Up Axis:  Y  
 Z

Number of Polygons:

Number of Textures:

Textures UV Coordinate Channel:

Thumbnail:





# Model Uploaded



## Comments and Reviews

Not yet rated. Be the first to rate!

Write your own review

Edit

## 3D Asset

Mounted  
Division  
HMMWV



Keywords:  
[military](#) [vehicle](#)

Available File Formats

No Conversion

Download

## Developer Information



Developer Name: [Engineering & Computer Simulations \(ECS\)](#)

## Sponsor Information



Sponsor Name: Defense Acquisition University (DAU)

## Asset Details

Format: 3D Studio Max