



Navy, X3D Share the Love

A presentation

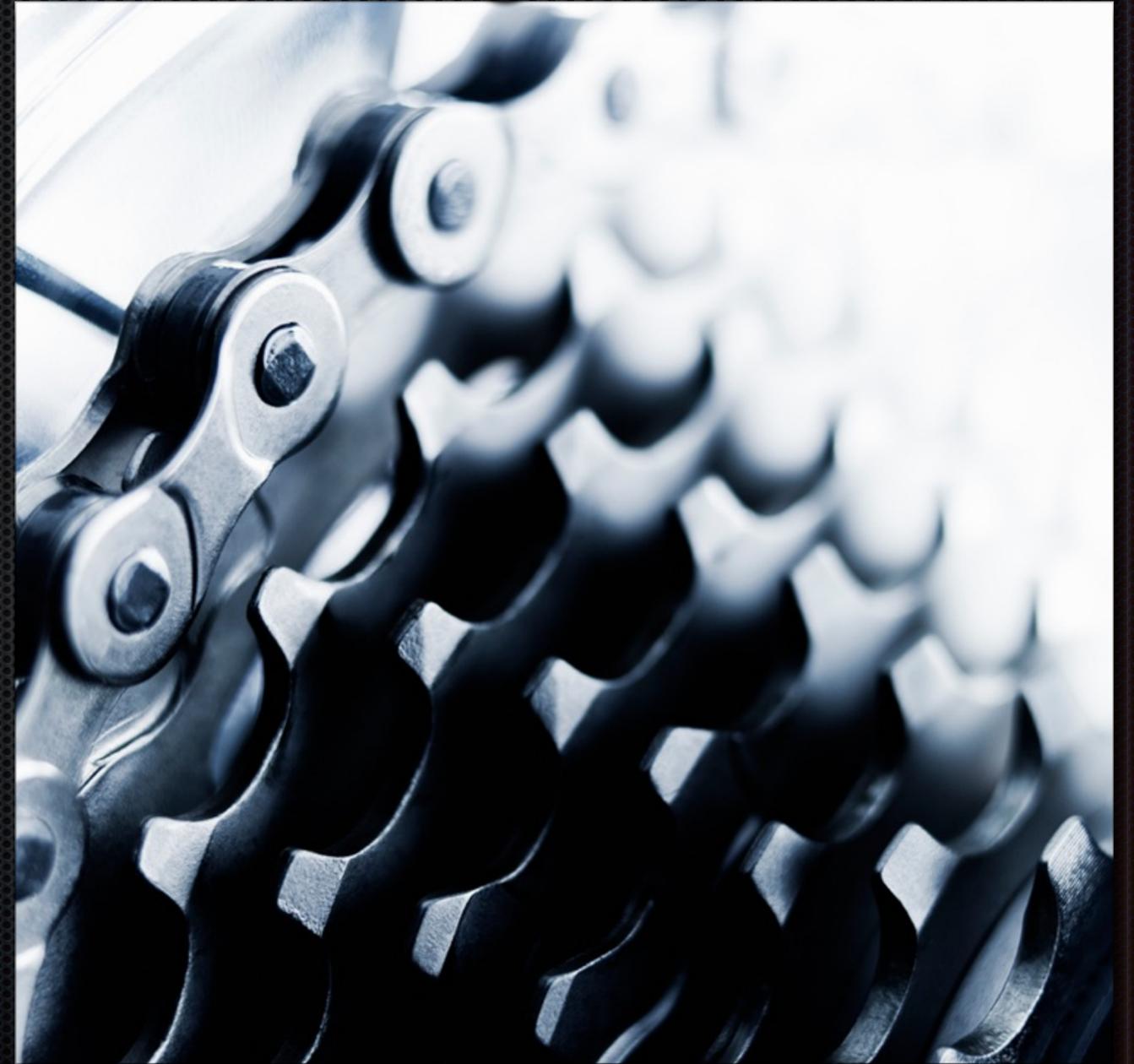
Problem

Navy needs to support planning of new platforms (planes, ships, vehicles, etc) using new and existing Shore facilities

Decision Support:

What are the obstacles when making decisions?

- How do we describe complex scenarios to many people at the same time?
- How do we engage all interested parties/stakeholders?
- How do we capture consensus?



Decision Support:

What are the tools and techniques we currently use to support decisions?

Photos



Paper



Powerpoint



GIS



CAD



Do these techniques answer the questions defined by the obstacles?

- ✦ No

Deficiency identified

- Current tools and techniques did not support decision making
- Result: Planning and acquisition support slows down, adding unnecessary cost and time

Areas for improvement

- ✦ Create a tool to allow multiple users access to:
- ✦ Real locations
- ✦ Real products
- ✦ Real facilities

Areas for improvement

- ✦ Allow the users to
- ✦ Manipulate the models
- ✦ Save and modify configurations
- ✦ Markup views
- ✦ Share

Solution

SPIDERS 3D

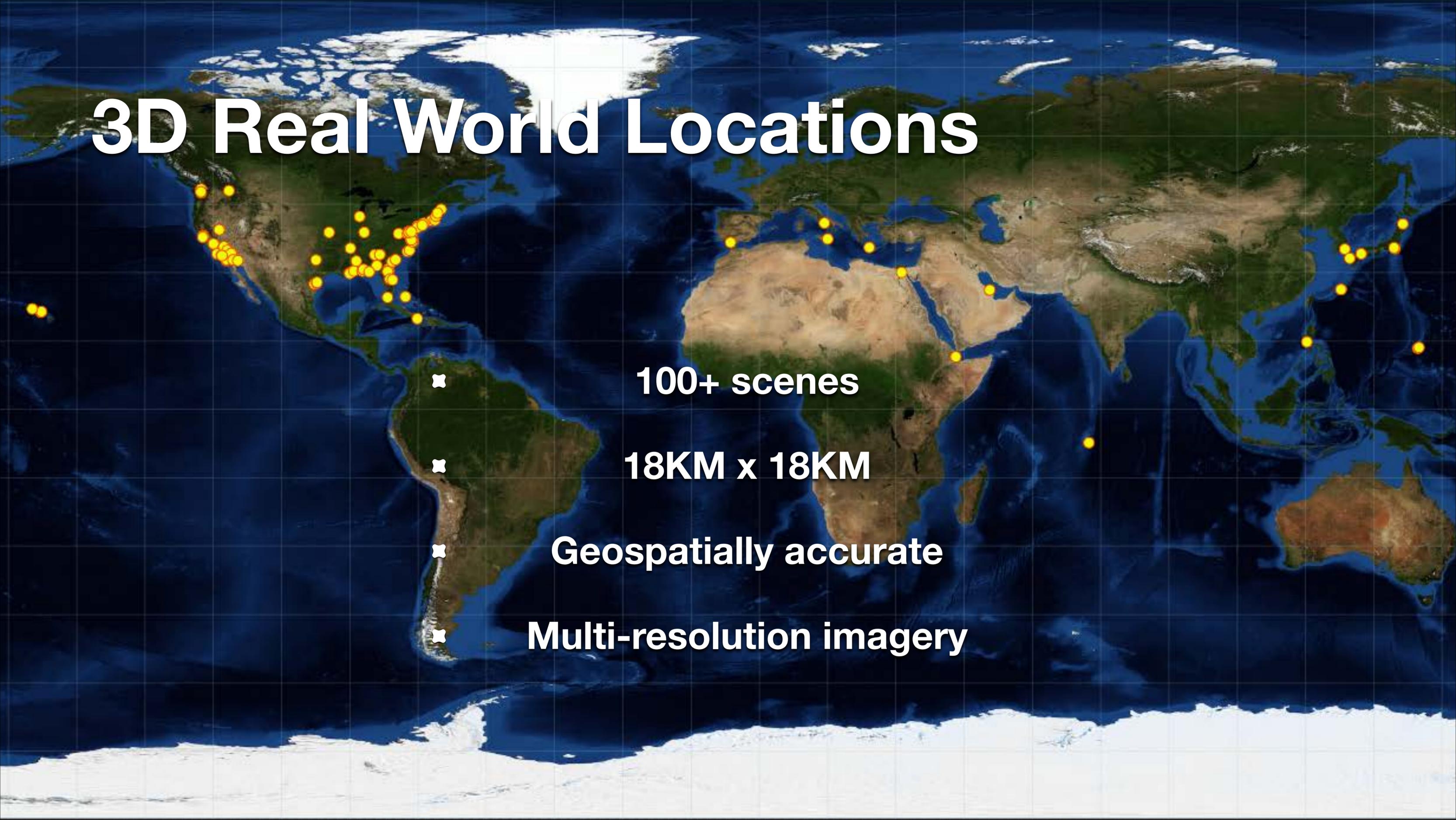
SPIDERS 3D

An Interactive web-based 3D Tool

- ✦ 3D real world locations
- ✦ Product Models
- ✦ Facility Models
- ✦ Simple Interface
- ✦ Multi-User



3D Real World Locations



✘ 100+ scenes

✘ 18KM x 18KM

✘ Geospatially accurate

✘ Multi-resolution imagery

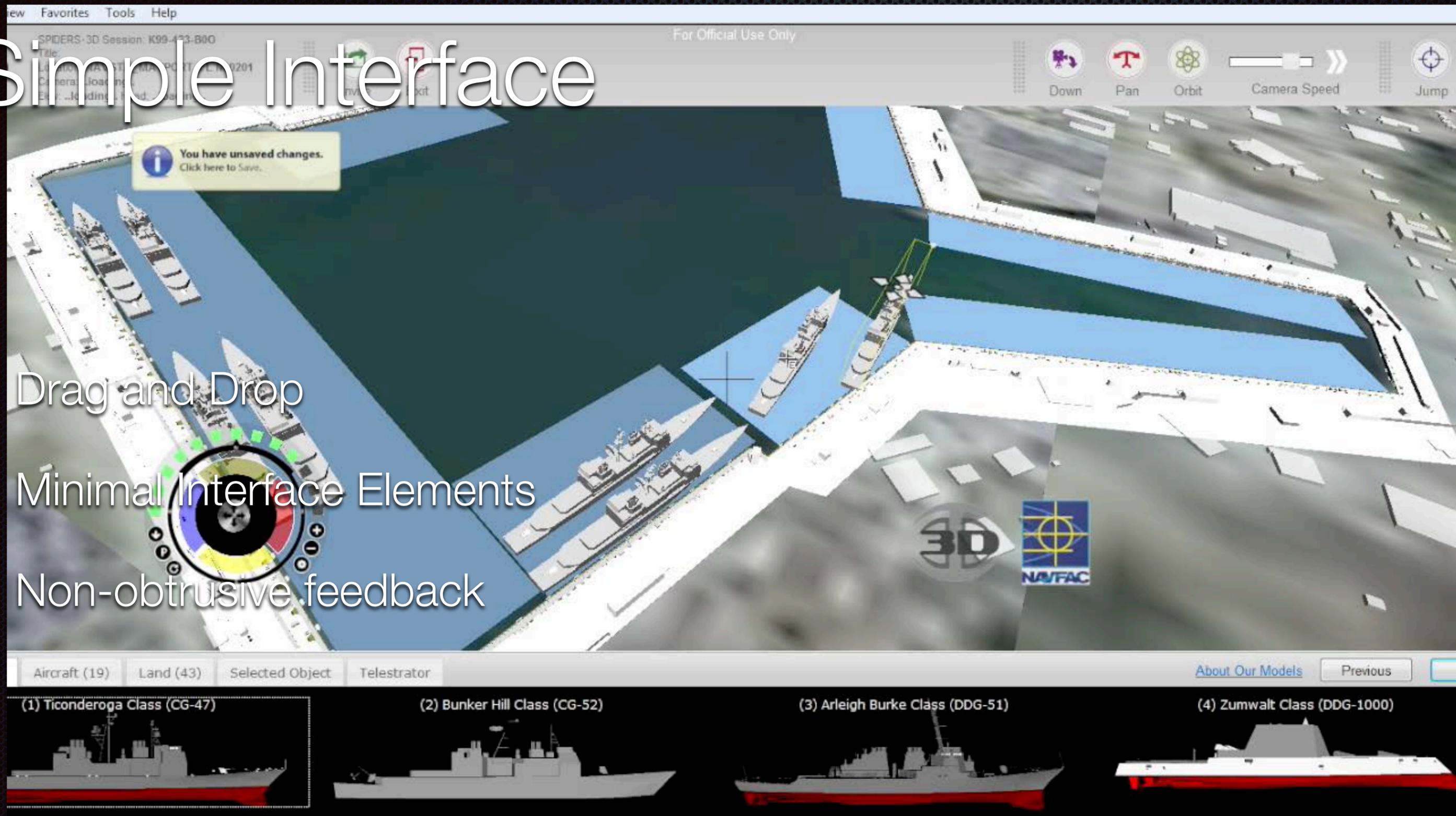
Product and Facility Models

- ✦ Over 90 models
- ✦ Original file format examples
 - ✦ 2D/3D CAD
 - ✦ 3DSMax
 - ✦ STEP
 - ✦ Paper



Simple Interface

- ✦ Drag and Drop
- ✦ Minimal Interface Elements
- ✦ Non-obtrusive feedback





Multit-User Collaboration
SPIDERS 3D

NMCI

- ✦ Network and Security
- ✦ Available Software
- ✦ Client Machines



Network and Security

- ✦ Oracle Single Sign-on
- ✦ Built for 800,000+ users (not speed)

Available Software

- ✦ Can not install software on client machines without approvals
- ✦ Internet Explorer 8
- ✦ BitManagmeent

Client Machines

- ✦ Windows 7
- ✦ Intel 3000/4000 graphics
- ✦ Less than 8 GB ram
- ✦ Core i5

Interactive web-based 3D technologies are leading the development of new opportunities in health, geospatial, and defense

- ✦ The Navy is using web-based 3D
 - ✦ For Planning and Acquisition Support
 - ✦ Leveraging Collaboration
 - ✦ To enhance Decision Support