



### **ESS Web Beta 1.0 Status**

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### **ESS Desktop's Biggest Problems:**

Data resides on individual user's computers

- ESS requires an ArcGIS license per desktop, which adds license costs, certification and accreditation cost for each military service, and can limit ESS usability depending on approval and funding limitations.
- Antiquated code repositories.





### **Web-Based ESS Benefits**

- Removal of user requirement to have a local copy of ArcGIS
- Centralized storage to ensure data integrity and standardization.
- Enhanced collaboration among multiple users
- Platform for site plan submission and approval process
- Simplified IA compliance across multiple Military Services
- Accelerated product deployment
- Load balanced and scaling capacity
- Capability to access enterprise data





### **Schedule**

- October 2015; DDESB / EXWC partnered with DISDI for Hosting:
- April 2016; Project requirements defined.
- September 2017; Task order awarded
  - o Initial design | Web-based ESS V. Beta 1.0 & V. 1.2 requirements defined
- December 2018; ESS web broke ground
  - Re-write of key ESS features
  - Four to five spiral development with evaluation periods
- March-June 2019; ESS Web v1.2 Capable of generating and submitting site plans
  - Repository for NEES data
- TBD; Web-Based ESS v1.3 and beyond
  - o RBESS-Tier 1, 2a, and 2b
  - Automation of GIS, RPI, and PES data updates
  - Re-work site approval process

2015

Project =

defined

order awarded

2018 ESS

Web Beta

2018 ESS \_\_ Web v. 1.2

TBD ESS .

Web v. 1.3





### **Collaboration with DISDI**

- Solidified in Late 2017; DDESB / EXWC partnership with DISDI:
- DISDI currently host ESS application within DISDI Dev Portal
- The host site is Amazon Web Services. Gov. Cloud
- Pursuing accreditation that includes ESS being bundled with the existing DISDI accreditation.

#### **ESS Welcome Screen**

Follow the Below Steps

Installation Option

**Facility Selector** 

Measure Units

Analysis Settings

Confirmation



#### Welcome!

The Explosives Safety Siting Application automates the calculation and display of Explosives Safety Quantify Distance (ESQD) arcs for explosives storage or handling sites and assist with the development of the site plan packages.

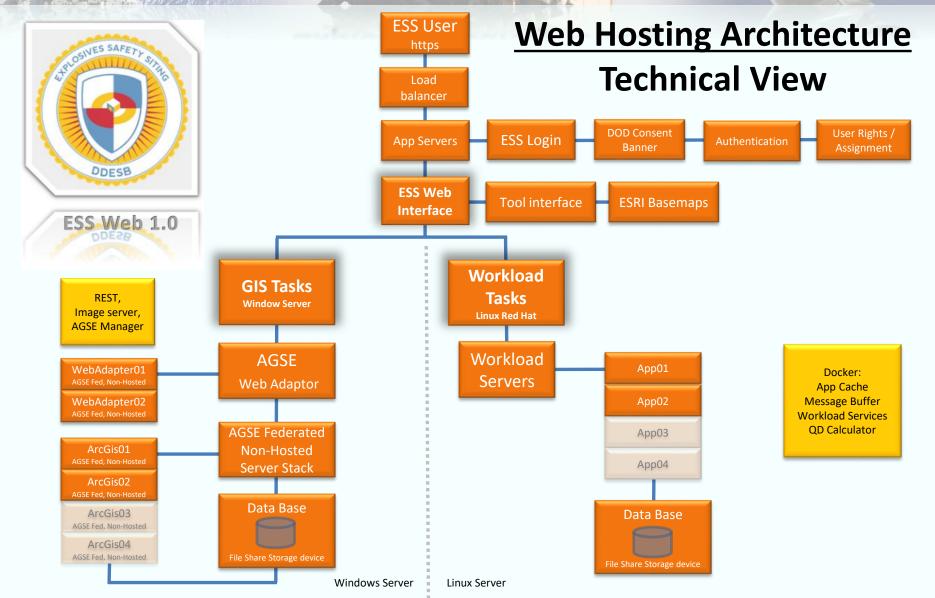
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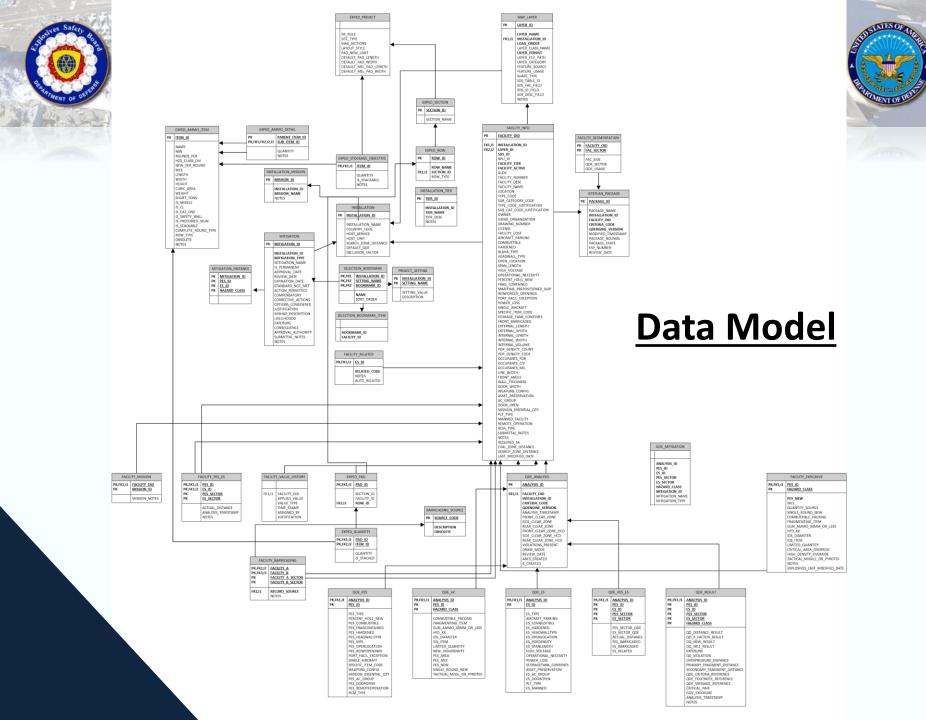










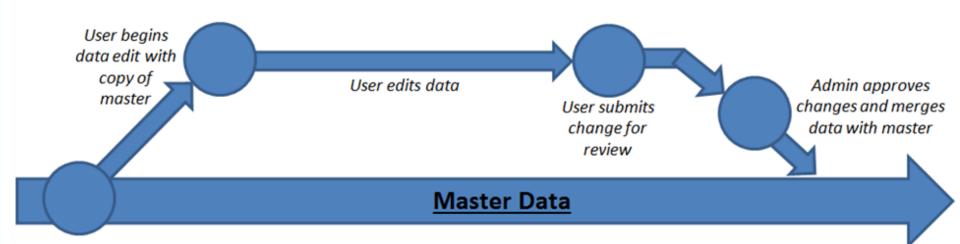






### Web ESS Dataflow

#### Scenario 1- Single User Edit



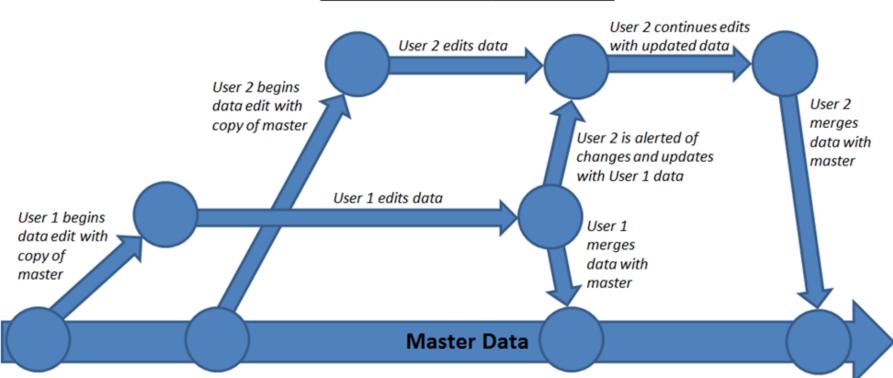
#### **ESS Data Timeline**





### **Web ESS Dataflow**

#### Scenario 2- Multiple User Edit



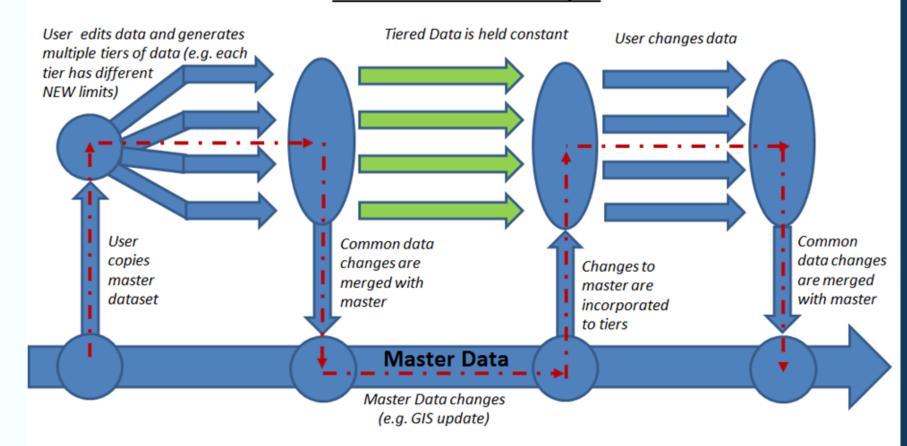
#### **ESS Data Timeline**





### **Web ESS Dataflow**

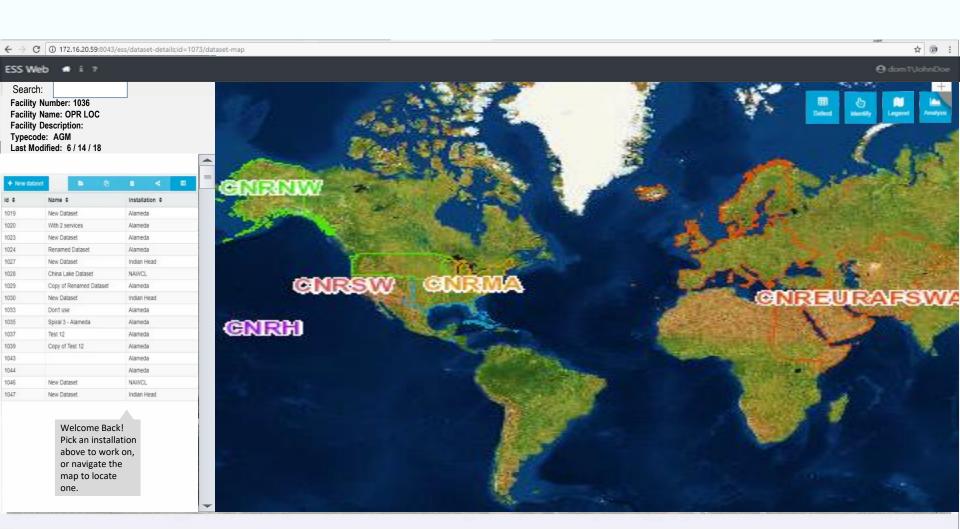
#### **Scenario 3- Tiered Analysis**



#### **ESS Data Timeline**

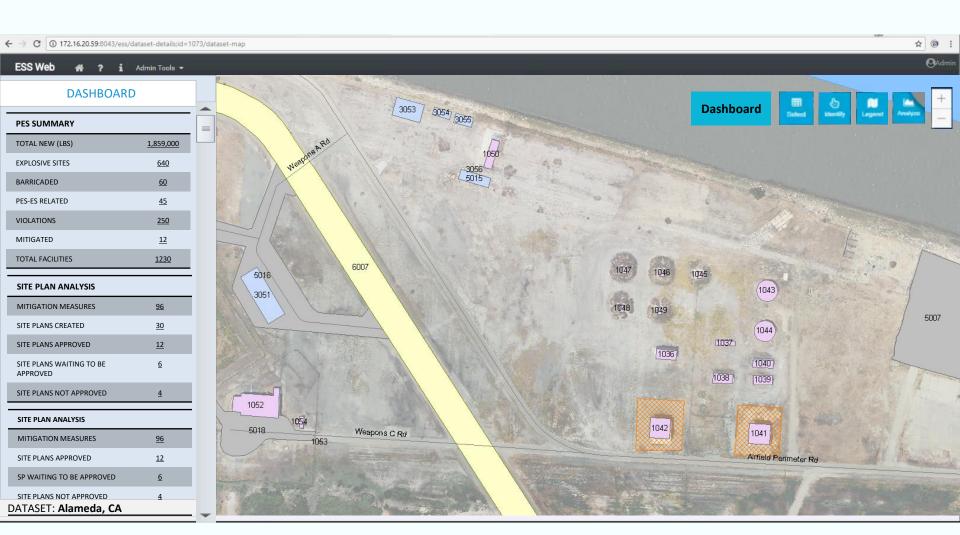






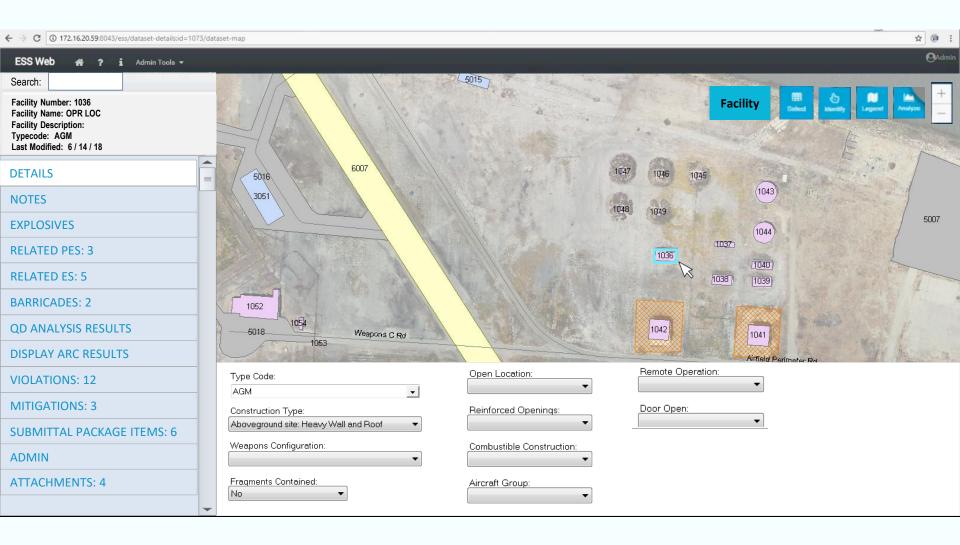






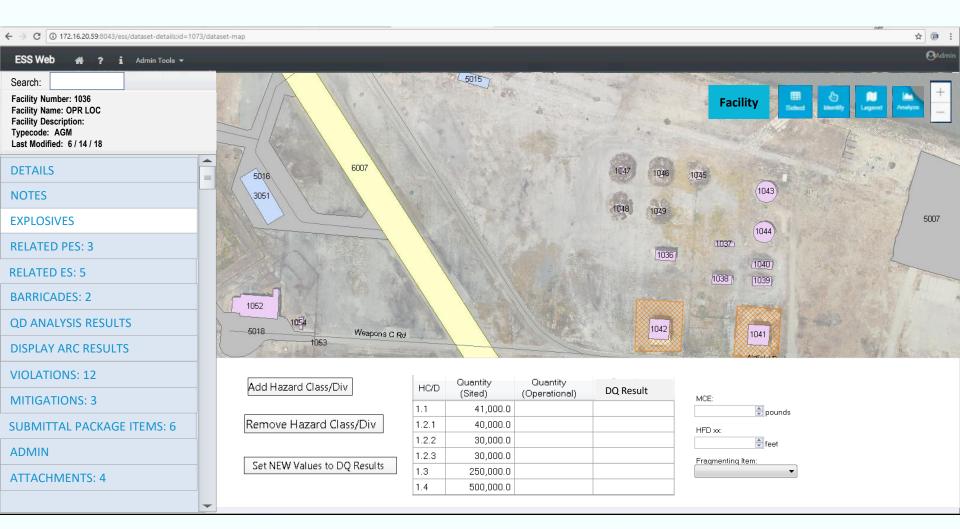






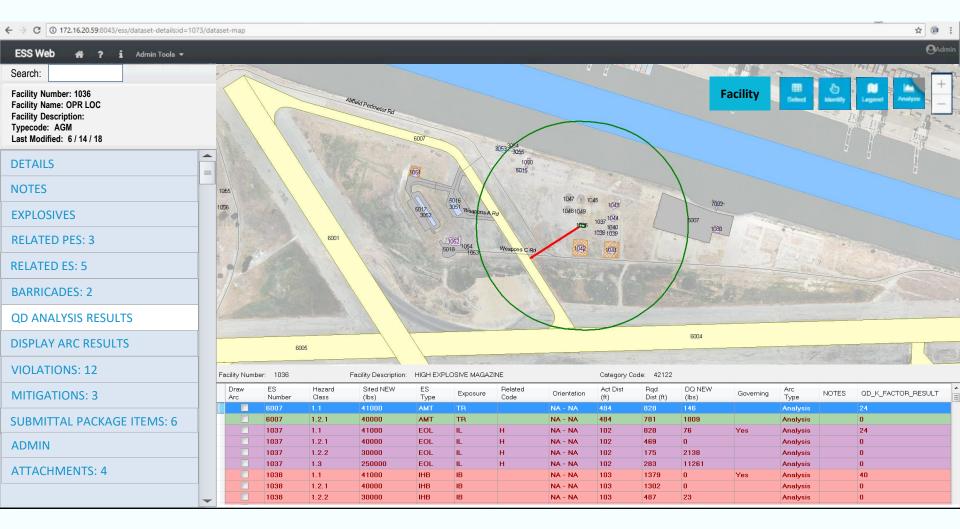






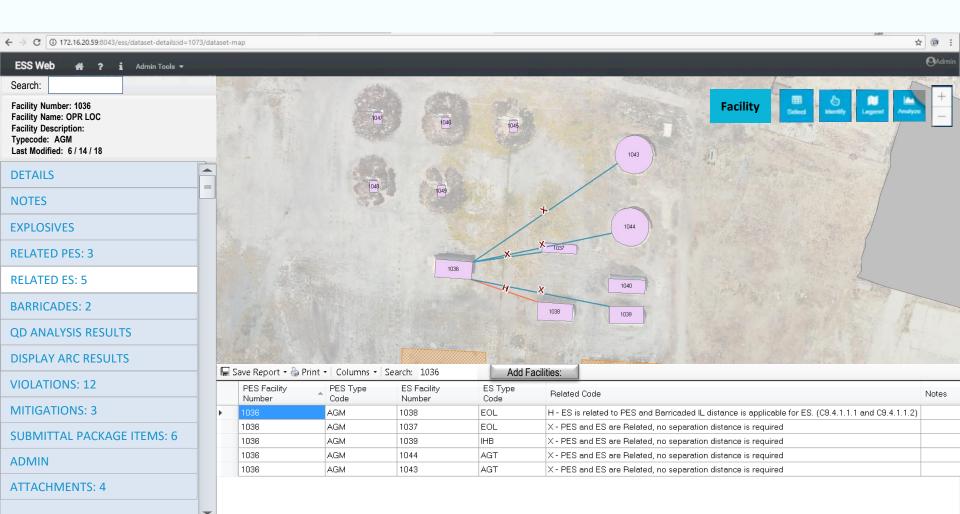






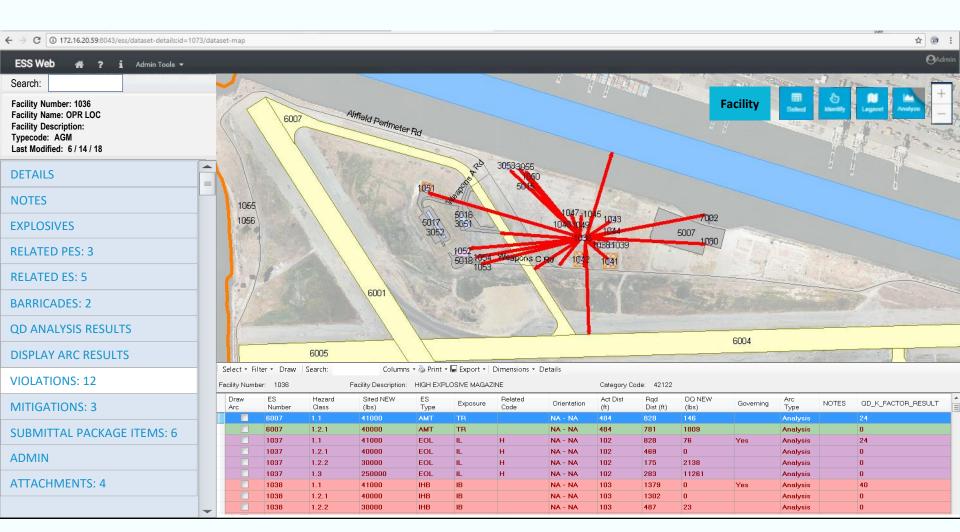






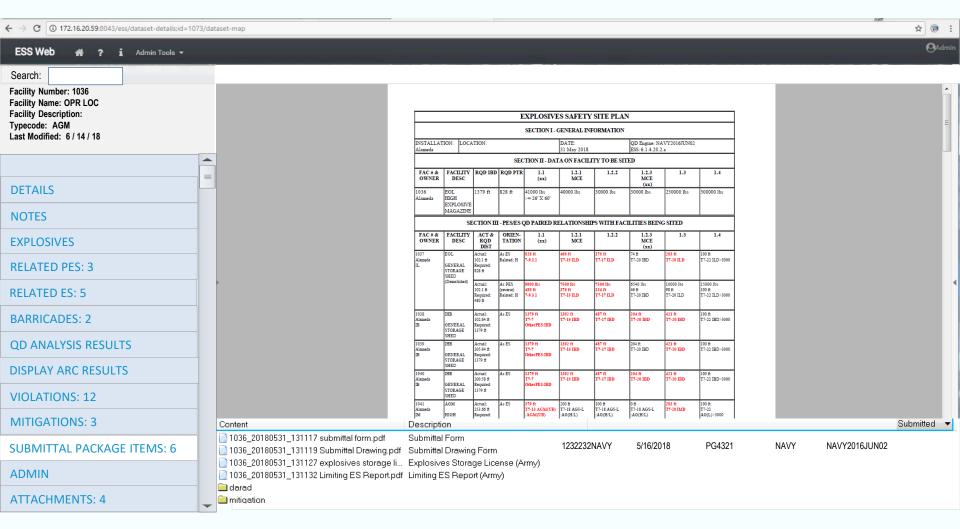
















### **Web ESS Status**

- Notable achievements:
  - Host site at Amazon Secure GovCloud established through DISDI Portal
  - GIS mapping and editing developed
  - Facility editor developed
  - Spatial and QDE analysis near completion
- Web-Based ESS v1.2 planned for June-September 2019
  - Capability to generate and submit site plans
- Web-Based ESS v1.3 and beyond
  - RBESS- Tier 1, 2a, and 2b
  - Automation of GIS, RPI, and PES data updates
  - Electronic site approval process

### **Questions?**

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