

Immunization Information Systems for a New Era

# ExIS Usability Best Practices Catalog Webinar

### Introduction

Ulrica Andujar, CDC

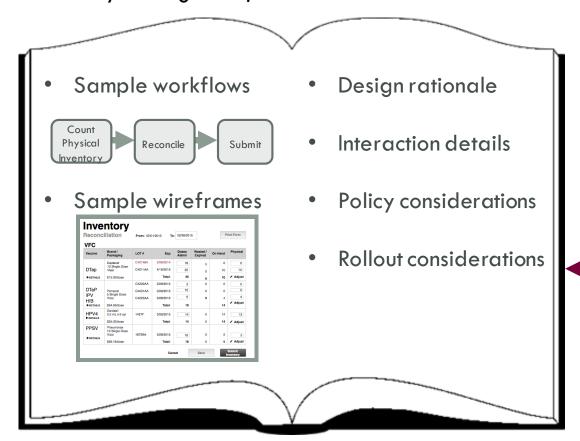
## Agenda

- Background
- Developing the ExIS Usability Best Practices Catalog (UBPC)
- A Look Through the Catalog
- User Centered Design
- What's Next?

### Background

#### **Objective**

Document usability best practices for vaccine ordering, inventory management, and related functions



#### **Audience**

- Awardees considering new ordering and inventory tracking functions
- Awardees seeking to improve usability of existing functions

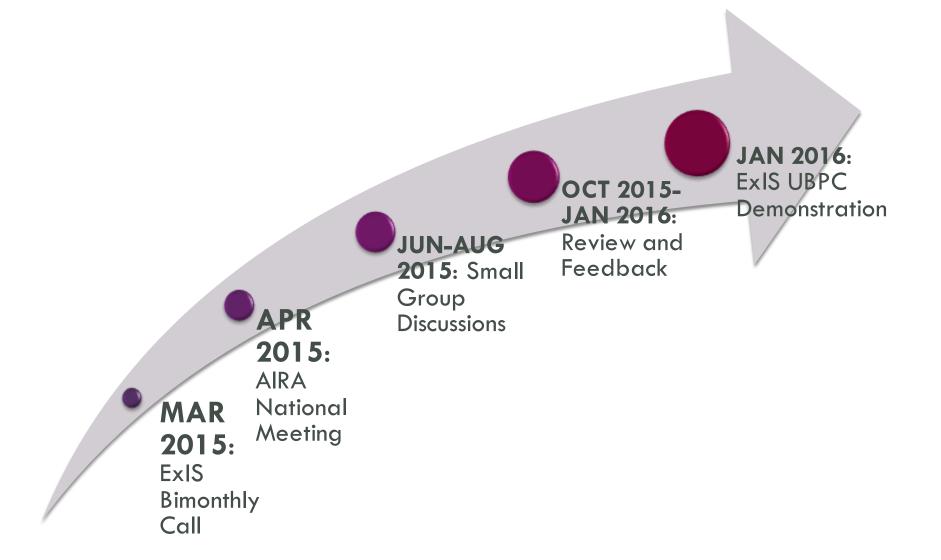
#### Inputs

- Design observations
- Available training
- Small group discussions

# Why Develop the Catalog?

- Address a need to make vaccine ordering and inventory functions easier for IIS users, particularly providers
- Provide awardees a best practice resource to guide their efforts in building easy to use systems based on industry standard usability guidelines
- Consolidate existing vaccine ordering and inventory best practices into an accessible resource

# **Activity Timeline**



Please share any pain points that your providers experience when using IIS vaccine ordering and inventory management functionality.

Short answer

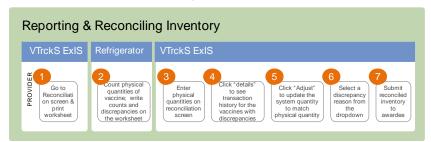
### A Look Through the ExIS Usability Best Practices Catalog

# ExIS Usability Best Practices Catalog, February 2016

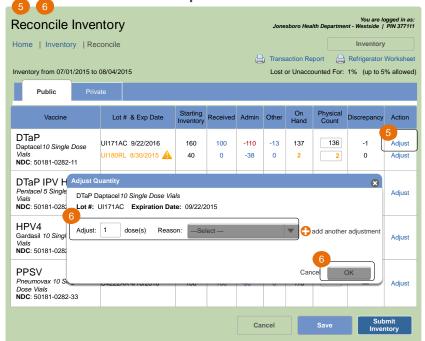
#### Tasks included:

- Receiving Shipments into Inventory
- Transferring Inventory to Another Location
- Adjusting Vaccine Inventory
- Reporting and Reconciling Inventory
- Ordering Vaccine
- Approving Vaccine Orders
- Flu Prebooking

#### Sample workflows



#### Sample wireframes

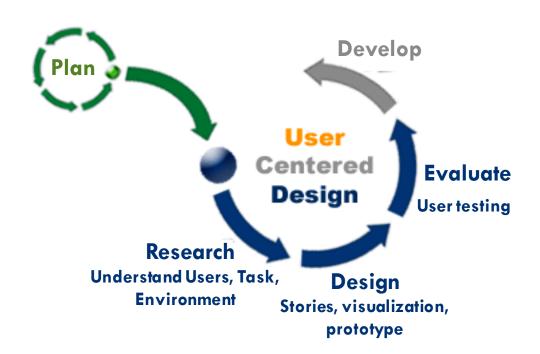


### **Demonstration**

- ExIS Usability Best Practices Catalog
  - Accessing the Catalog
  - Navigating through the Catalog
  - Receiving Shipments Workflow

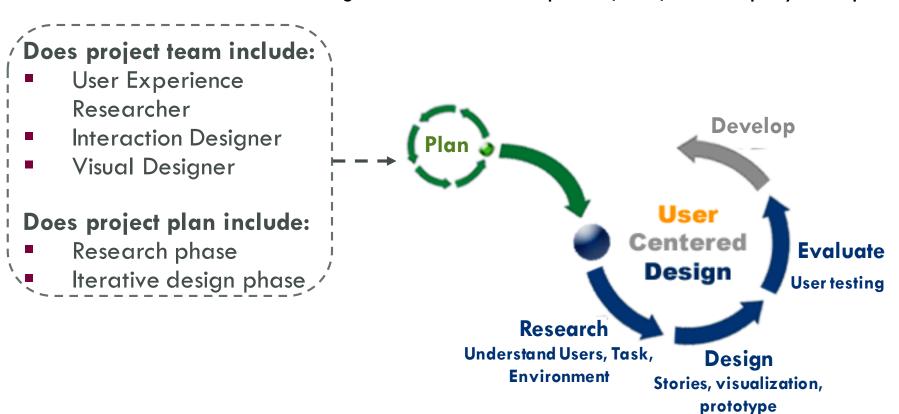
### User Centered Design

"User Centered Design (UCD) is an approach that supports the entire development process with user-centered activities, in order to create applications which are easy to use and are of added value to the intended users." -- Usabilitynet.org



# User Centered Design: Plan

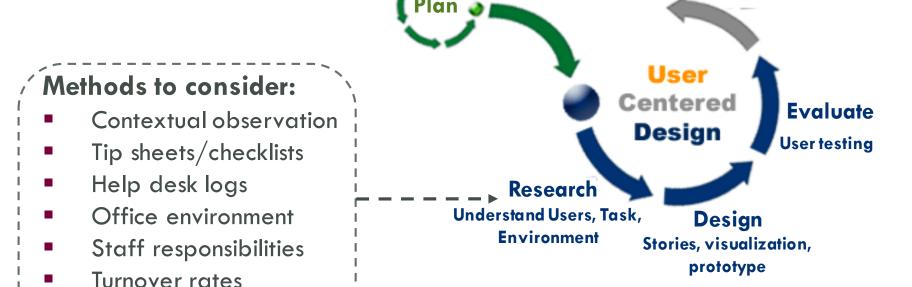
Include people on team with user experience expertise. Plan time at the beginning to understand user need, prototype concepts, and evaluate designs prior to development. This has the effect of shortening the actual development, test, and deployment phases.



# User Centered Design: Research

"Industry surveys have clearly shown that the majority of failed projects can be attributed to incomplete or inaccurate requirements. The biggest cost benefit that UCD can provide is by more accurately defining requirements." -- Usabilitynet.org

Develop

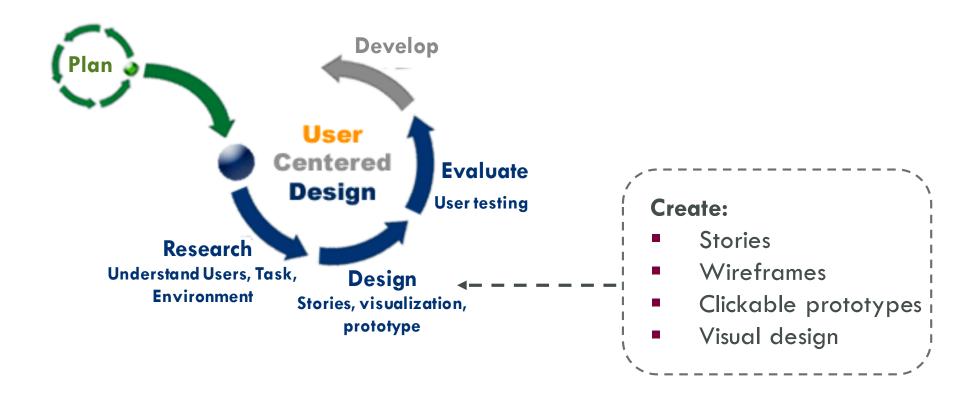


Training requirements

## User Centered Design: Design

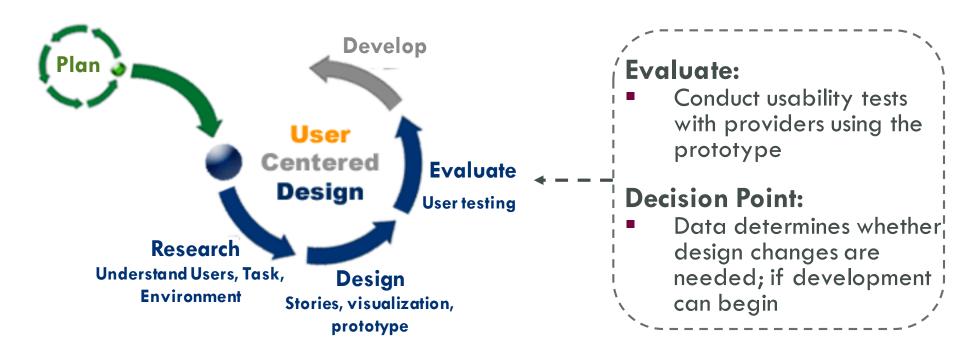
"The difference between UCD and other approaches is that UCD methods are used to develop simple models, mock-ups or prototypes on parts or all of the designs. "

-Usabilitynet.org



## User Centered Design: Evaluate

"A design change made late in the design process will typically cost ten times more than if identified during requirements. Making changes to working systems will cost about one hundred times more." --Usabilitynet.org



### Usability Testing vs. QA Testing

#### **Usability Testing**

- <u>Audience</u>: End users of the software do the testing (e.g., providers, program staff)
- Answers the question: How easy or difficult is it to use the software?



#### Quality Assurance (QA) Testing

- Audience: QA Specialists & development staff do the testing; end users are not involved
- Answers the question: Does the software do what it is supposed to do per specification?



### Question

Do you plan to include usability testing as part of your development cycle?

- Yes
- No
- Maybe

What's Next?

Ulrica Andujar, CDC

### Resources

- www.usability.gov
- VTrckS ExIS Community Site
  - ExIS Usability Best Practices Catalog
  - ExIS Community Discussions

### Need VTrckS ExIS Community Access?

- ExIS Usability Best Practices Catalog is accessible via the VTrckS ExIS Community Site
- If you want to join and have not done so yet, send a request to <u>VTrckSExIS@cdc.gov</u>



### Guided Assistance:

### Reconciliation & Approving Orders

#### Who?

Awardees planning inventory reconciliation and ordering enhancements

#### What?

Demonstration and small group discussion

#### When?

- March 7, 2016
- 4:00pm 5:00pm Eastern

#### Why?

 Forum for awardees interested in inventory and ordering best practices to ask questions and share perspectives

#### How?

If interested, send an email to <u>VTrckSExIS@cdc.gov</u>

# Call for Participation

- Usability best practices small group discussions planned Spring/Summer
- Topics:
  - Returns & Wastage
  - Notifications
- Small group participants will benefit by:
  - Discussing and sharing best practices
  - Previewing efficient and easy-to-use approaches for new task areas
- Results will be published in the ExIS Usability Best Practices Catalog
- For more information:
  - Email <u>VTrckSExIS@cdc.gov</u>
  - Attend the next ExIS Bimonthly Call, March 22, 2016 at 3:00pm EST

### Questions?

Contact Email: <u>VTrckSExIS@cdc.gov</u>



# Thank You