ImmuNet User Interface and Navigation Redesign

In Collaboration with DXC Technology

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2018 AIRA National Meeting



ImmuNet Background

1999







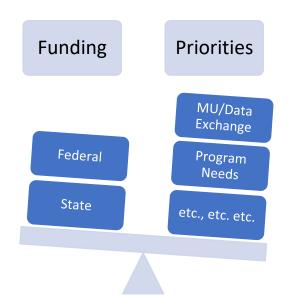




MARYLAND
Department of Health

2010



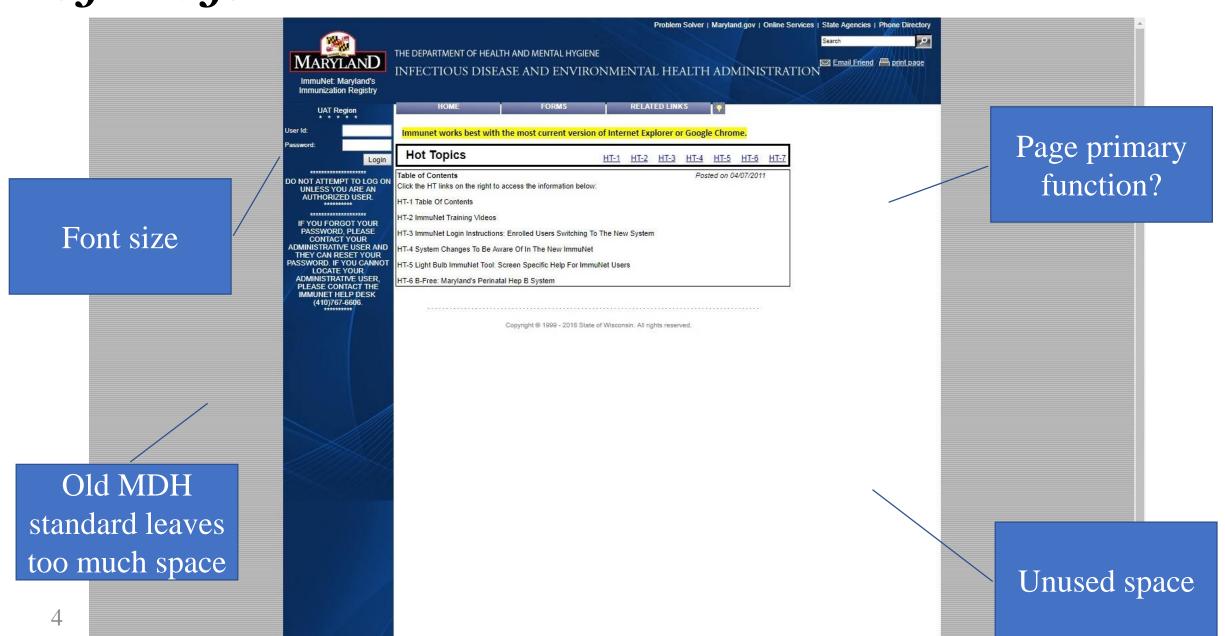


Why Redesign Now?

- Primary driver for redesign → Maryland's 2017 VFC Provider mandate to use the User Interface (UI) inventory feature to order vaccines and to report administered doses
 - MDH must support existing and new users (from ~800 VFC sites) to use UI inventory feature that were not previously accessible
- ImmuNet UI from original 1999 design followed internet/web standards at that time
 - Lacks intuitive interface and intuitive navigation



Login Page



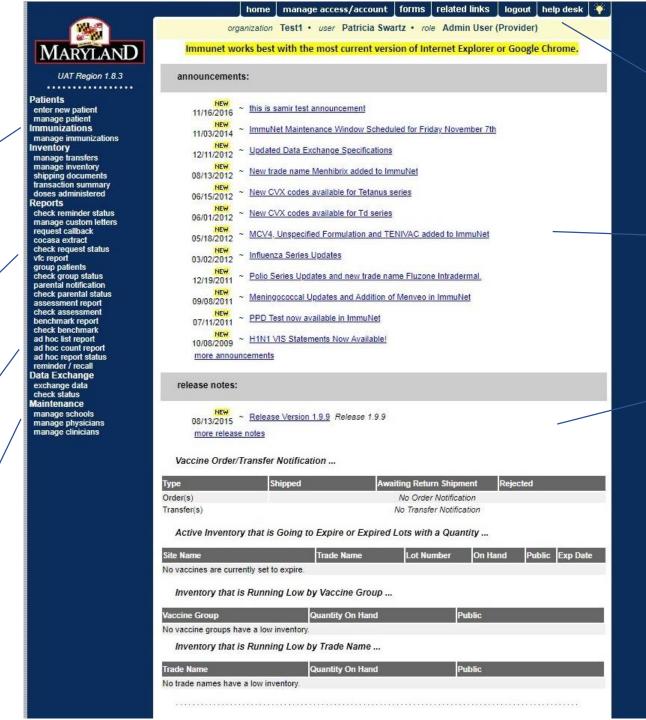
Home Page

Points to same function

Menu options

Font size

Labels (where is....?)



Account /
Menu
options

Page primary function?

Relevant info or Noise?

Unused space

Goals & Objectives

- Increase user independence and reduce Help Desk calls
 - Improve the ease for users to find a particular screen
 - Improve the effectiveness of the labels

 Align to Maryland's web-based application standards



Define Project Scope



Style Sheet (font/layout) Focus Menu Group (set of options) Login Page Items Home Page Common user tasks

March 2016 January 2017



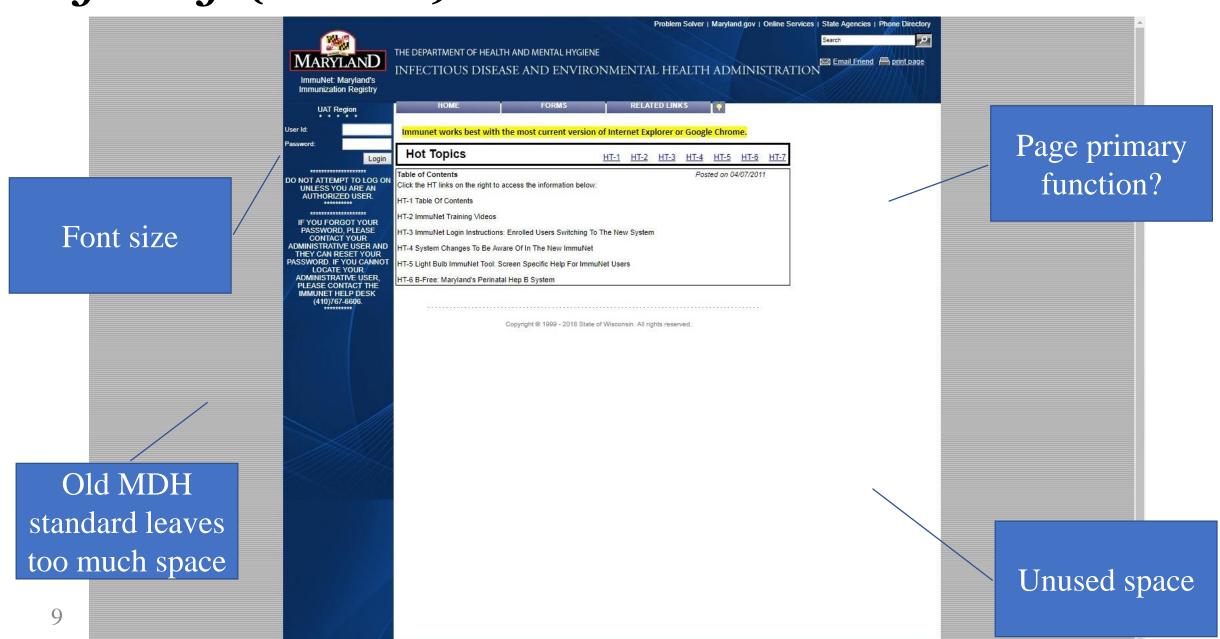


DXC Recommendations

- Style Sheet updates
 - Grouped the style sheet for easier update, single standard style sheet
 - Standard makes coding more efficient and timely
 - Cascading the style sheet across the application should go faster
- User Interface elements
 - Restructured navigational components to align closer to user workflow experience
 - Updated input controls and informational components to reduce clutter



Login Page (BEFORE)



Login Page (AFTER)

Accommodated new MDH standard





Page primary function

Font size



For Healthcare Providers

How to gain access to ImmuNet use ImmuNet and other resources that Healthcare Professionals may need. Click here for more....



For School

How to gain access to ImmuNet and use ImmuNet to view student Immunization records. Click here for more....



For Public

How to obtain an Immunization record for yourself or your child. Click here for more.... Filled unused space

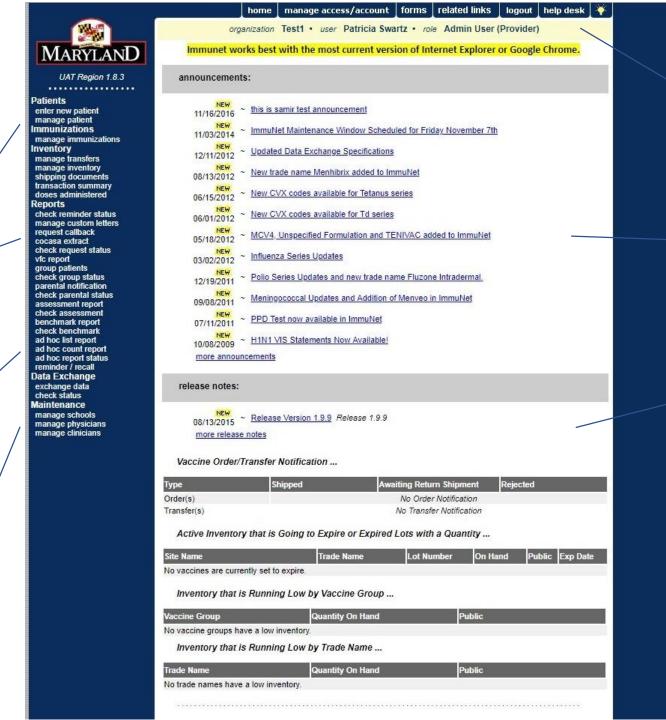
Home Page (BEFORE)

Points to same function

Menu options

Font size

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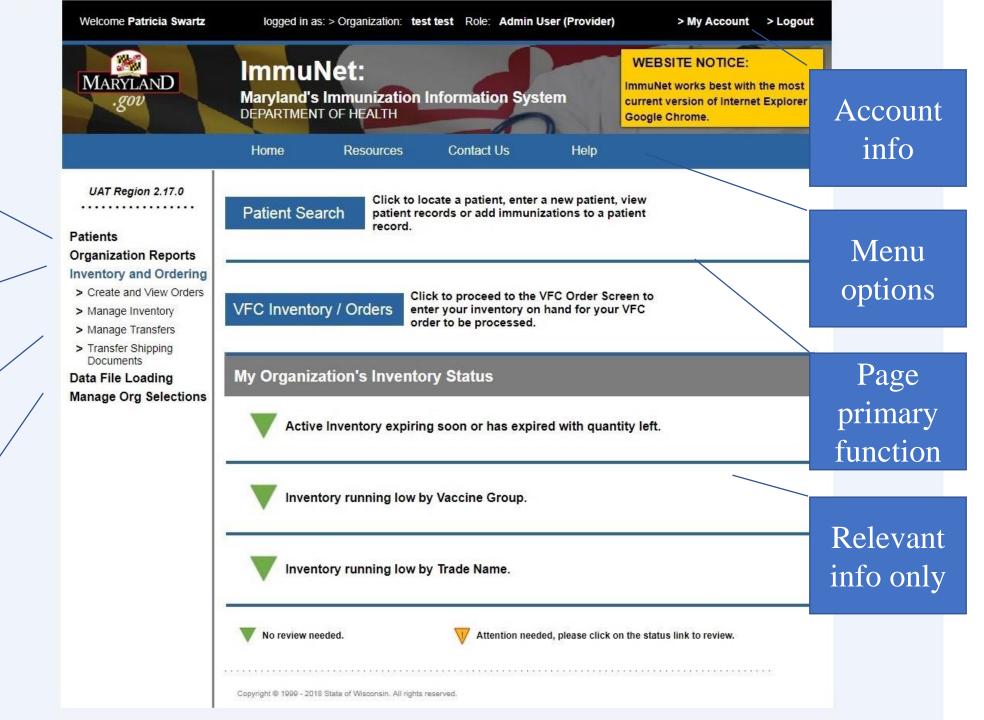
Home Page (AFTER)

Consolidated links to same page

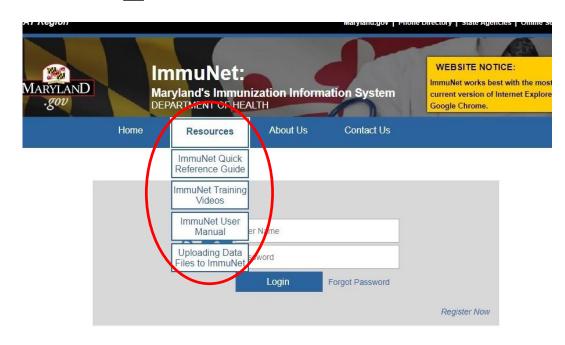
Menu options

Font size

Labels (where is...?)



Prepare VFC Providers for Mandate



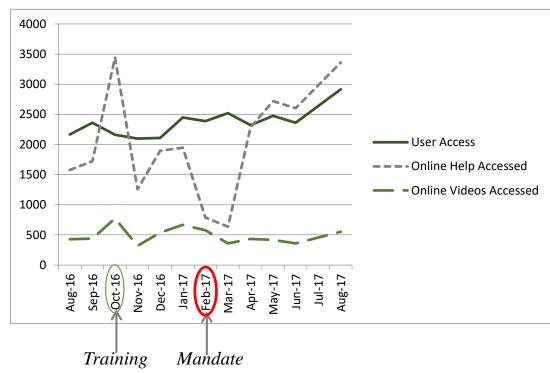
For Healthcare Providers For School For Public How to gain access to How to gain access to How to obtain an ImmuNet,use ImmuNet and ImmuNet and use ImmuNet Immunization record for other resources that to view student yourself or your child. Healthcare Professionals Immunization records. Click here for more may need. Click here for more Click here for more ...

- Prepare VFC providers
 - Webinar training for provider offices
 - Resources posted in ImmuNet and website
 - Links to Quick Reference Guides, training slides/videos, FAQs, etc.

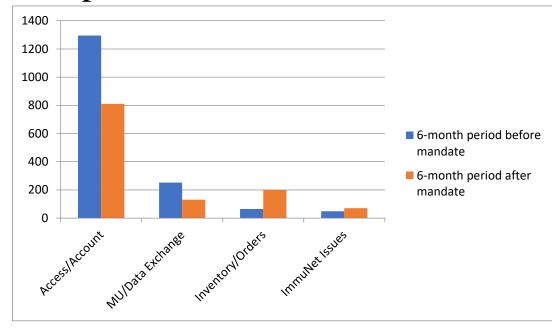


Successful Deployment

User Access



Help Desk calls and emails wrt mandate



More on ImmuNet access than UI/navigation issues

→ Redesigned UI did not create barrier to comply with VFC mandate



Limitations

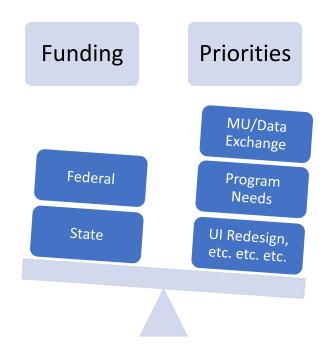
- Cost and Time!
 - Not able to include end-user input or pre/post usability studies
 - Excluded other commonly used functionalities, for example, organization reports, manage clinicians/physicians, account access, inventory module, etc.



Conclusion



Navigated ideas from differing opinions



- Focus has been on MU/Data Exchange past few years
- ➤ VFC mandate to use UI paved way to prioritize UI redesign
- UI redesign still held value and remains important keep users in mind



Progressive Enhancements

- Focus on meeting 2018-2022 Functional Standards
 - Improve reports usability to meet FS requirements, e.g. coverage rates
 - May update home/landing page with pertinent reports information for providers, e.g. reporting status (as with inventory status)
- UI updates to other commonly used functionalities
 - Wishlist
 - As funding and time allows!



Acknowledgements

DXC Technology

- Katie Reed (defined project scope)
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Thank you!

Questions

