

## An Agile Approach to Providing Product Solutions In A Post COVID-19 World

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#### Overview

1. What Is Agile and Why Should I Care?

2. How the COVID Response Further Identified the Need for Agile Development of IIS

Products

3. What Does This Look Like in Practice, What Is Different, and How Am I Involved?

4. How Can I Help Drive Change Forward?

5. Questions and Open Discussion

Economist and futurists predict that by the year 2050, infections diseases will be the number one killer in the world, surpassing heart disease. The enemies are stealthy viruses, bacteria, fungi and parasites. They are caught, they are spread, and they evolve.

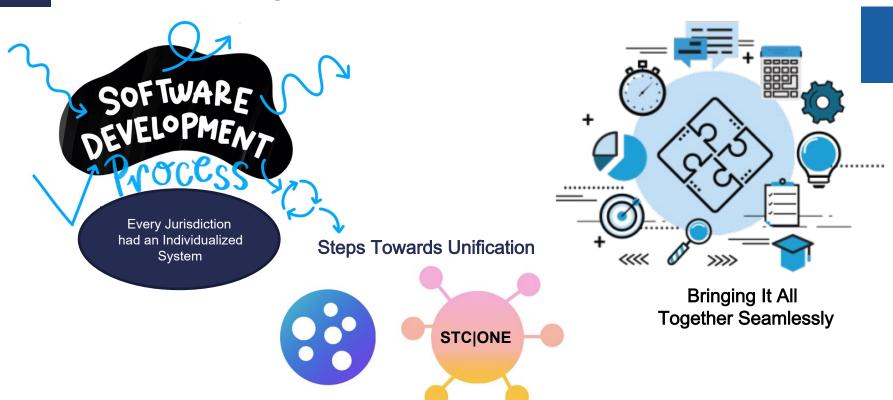
~ Texas Biomedical Research Institute

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## We must not only keep-up but get ahead!



#### The Progression of IIS Development



Platform

**Product Suite** 

#### What Is Agile?

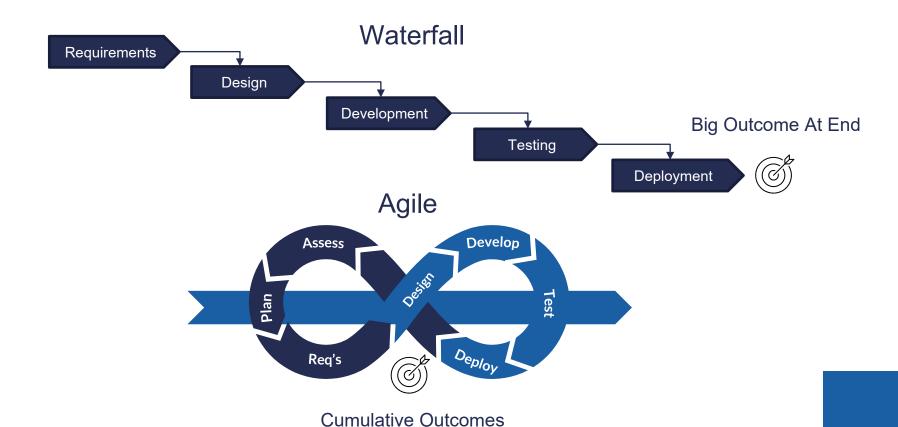
- Continuous Development
- Continuous Review
- Continuous Feedback

- Continuous Refinement
- Continuous Delivery
- Continuous Improvement

#### AGILE DEVELOPMENT



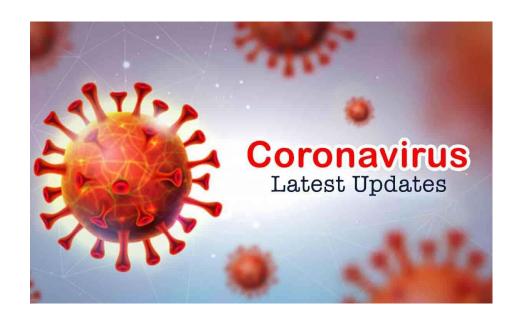
#### What Is The Difference?



#### How The COVID Response Further Identified The Need For Agile Development of IIS Products

Example: Adjustments Needed for Inventory alone as Information was Updated & Released:

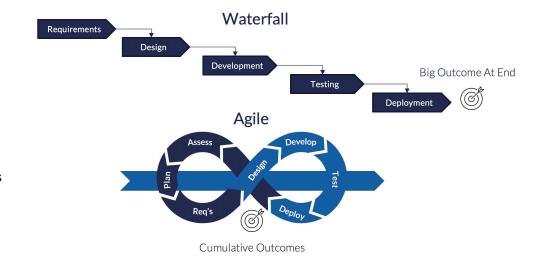
- Ordering with identifiers (PINs) that would work for the Pandemic while not interfering with VFC needs
- Ultra Cold Storage Requirements for Pfizer
- VTrckS changes for COVID19 Ordering
- Changes in Packaging Quantities for Pfizer
- Ordering for Pfizer, Pfizer + Moderna, then Pfizer, Moderna + J&J



### What Does This Look Like In Practice, What Is Different, And How Am I Involved?

#### Process, Practice & Principles:

- Communication, Communication
   with ALL user types
- Requirements Gathered Collectively
- Concept Designs, MockUps, Wireframes, Interactive Prototypes...
- Review and Iterations of Requirements & Designs
- Continuous Delivery of Incremental Value
- "Wash & Repeat"



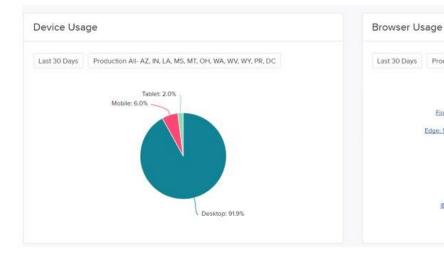
#### **Data-Backed Product Decisions**

Safarl: 5.5% Firefox: 4.6% Edge: 14.3%

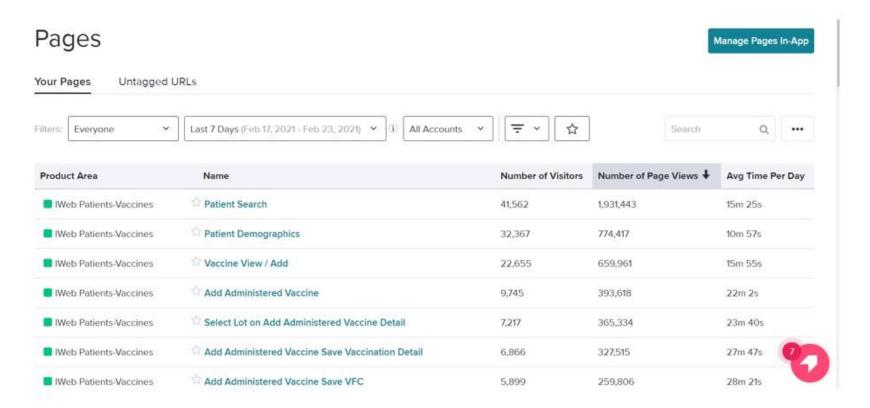
IE: 22.6%

Visitor Overview Everyone 13.5k 33.9k 103k 302k TODAY DAILY (DAU) WEEKLY (WAU) MONTHLY (MAU) Weekly Visitors Last 30 Days Weekly Everyone 150000 100000 Last 30 Days Production All- AZ, IN, LA, MS, MT, OH, WA, WV, WY, PR, DC Jan 24 Feb 7 Feb 21 Chrome: 52.6%

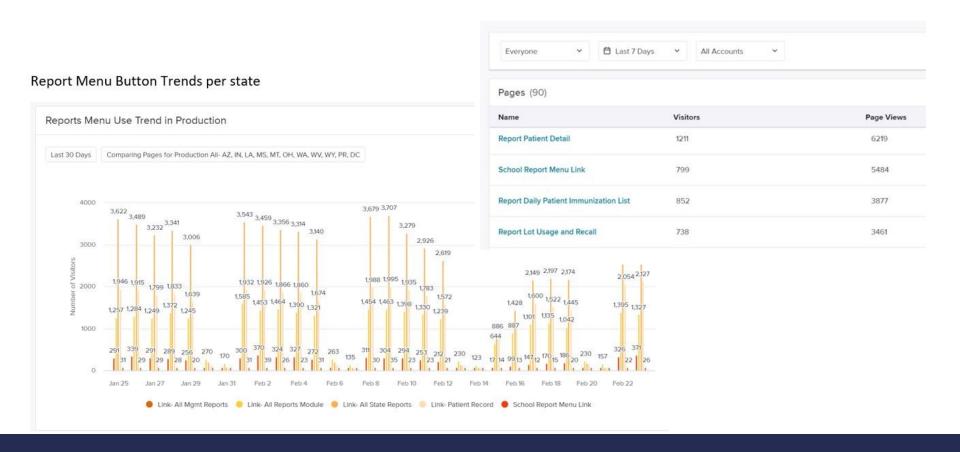
#### Device and Browser Usage for all states



#### **Data-Backed Product Decisions**



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#### Product Decision Driven By Community Input

- Consortium based deepdive discussion to ensure that all requirements for new functionalities are comprehensive and complete.
- Use of Industry Standards and Documentation to Ensure both Compliance and Comprehensive Programmatic Needs are met. Ex: AIRA, MIROW, CDC & PHII Guidelines and Published Documentation
- Service Desk determinization of Prioritized Initiatives
- Rapid Prototype & User Experience Testing

#### Deep-Dive for User Experience Assessments

General

observation

Main app

screen loading

takes too

much time to

load

even if the child 's

record not found, they

are added to the

profile. However, you

need to refresh the

page to see on the left.

This causes confusion.

Webpage: They

usually scroll down

and click the register

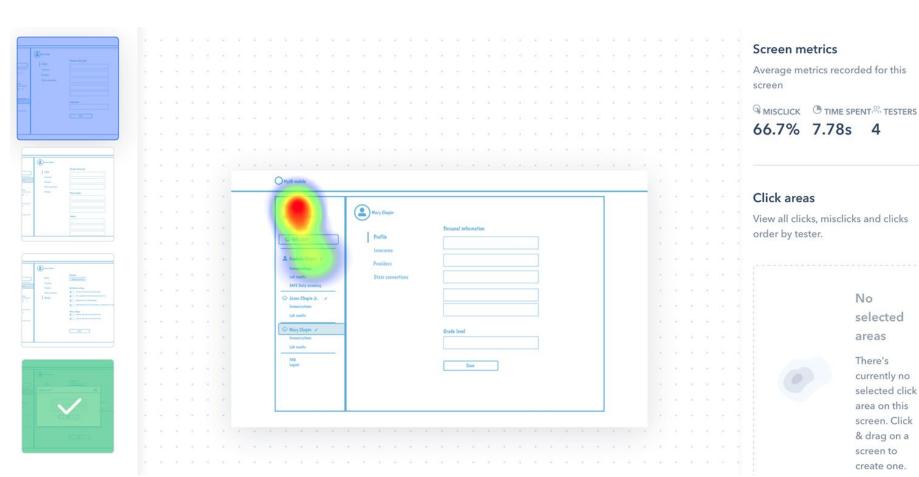
now button, not the

one in the

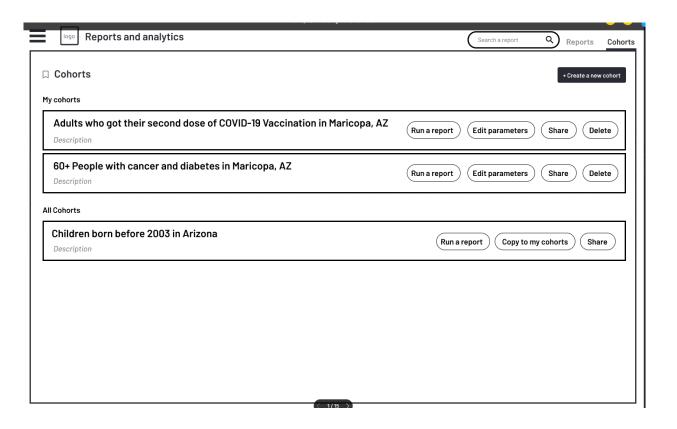
Navigation bar.



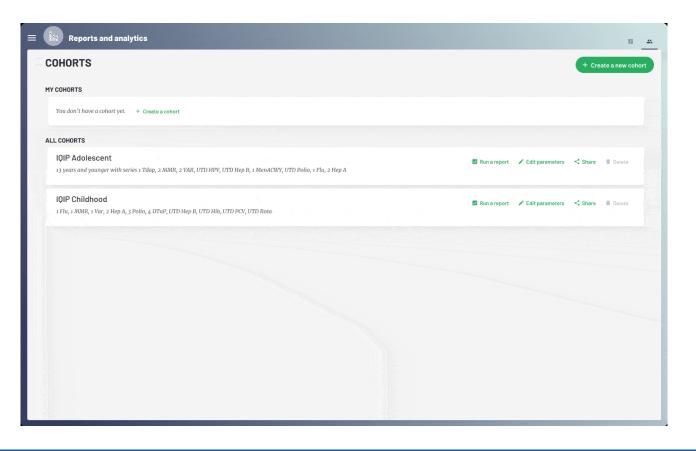
#### Rapid Prototype User Experience Testing



#### **Interactive Wireframes**



#### **Interactive Wireframes**



#### **Roll-Out Strategy**

- Build this new world in parallel with the legacy system
- Roll out feature by feature
- Establish a continuous feedback loop for new features and capability
- Avoid a big bang of switching from old to new system
- Utilize the modern UX/UI Platform

#### How Can I Help Drive this Change Forward?

- Advocate for Agile & Iterative Processes
- Encourage Engagement from All User Types
- Be a Trailblazer for the future of Public Health
- Be Tenacious and Continue to Pursue Agile Development until it becomes the New Norm



## We must not only keep-up but get ahead!



## Questions & Open Discussion

