

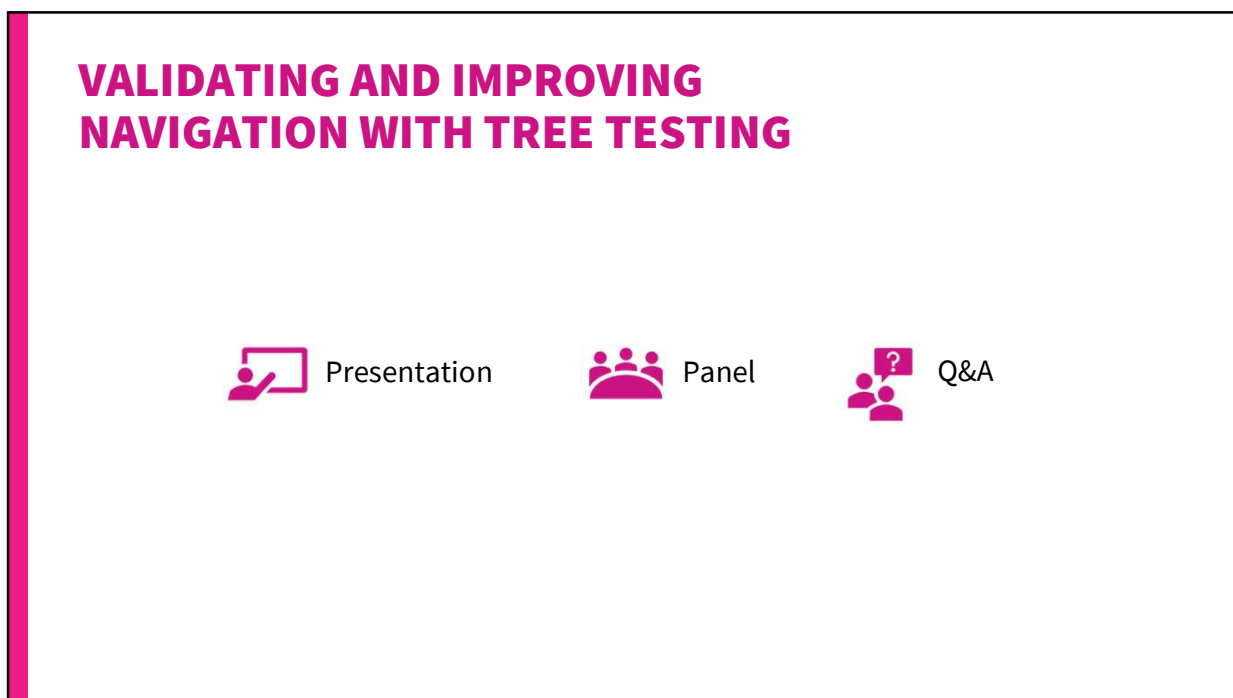
**CREATE & APPLY
SHARE
HUMAN
CENTERED
DESIGN KNOWLEDGE**

**Validating and Improving
Navigation with Tree Testing**




HCD Community of Practice
August 28, 2020

**Human-Centered
Design**
Center of Excellence (CoE)

1



**VALIDATING AND IMPROVING
NAVIGATION WITH TREE TESTING**





 Presentation  Panel  Q&A

2




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SPEAKERS

			
<p>Mike Eng Senior UX Researcher HQR</p>	<p>Ian Lowrie UX Research Lead HQR</p>	<p>Stephanie Warren UX Content Strategist HQR</p>	<p>Chelsea Hunt Sr. Design Strategist HCD CoE</p>

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HCD Community of Practice

Validating and Improving Navigation with Tree Testing











Mike Eng, Ian Lowrie, Stephanie Warren


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Project Team

				
Mike Eng Senior UX Researcher	Libby Kaufer Senior UX Researcher	Ian Lowrie UX Research Lead	Charlie Steininger UX Strategist	Stephanie Warren UX Content Strategist
				


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Agenda


1. Tree testing as a research method
2. Case study: HQR navigation
3. HQR's research process



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Tree Testing




Task 2 of 7

Find errors in eCGM files that you or your team have uploaded.

▼ Home

- Dashboard
- Submissions & Results
- Program Results
- Payments
- Administration
- Help



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Tree Testing Finds Problems and Validates Navigation Approaches

Best used when:

1. You want to pinpoint navigation problems in an existing site
2. You have one or multiple navigation ideas to validate



9

Tree Testing Allows for Rapid Iteration

Requirements:

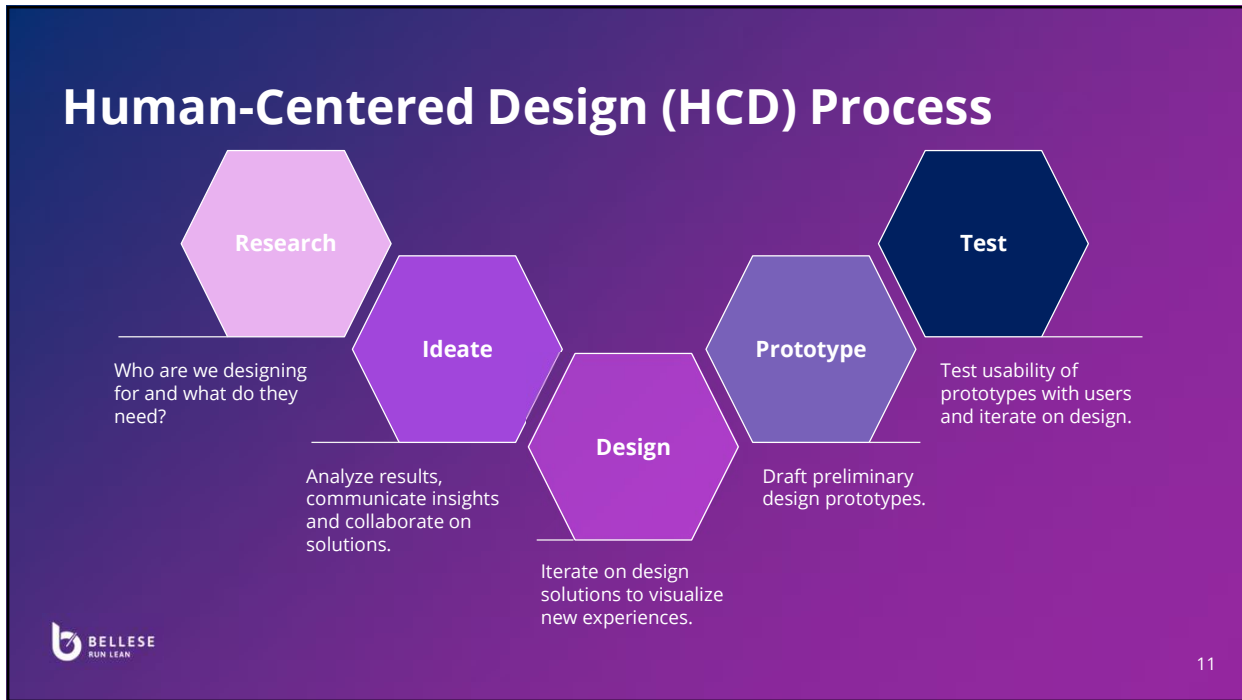
1. One or multiple "trees"
2. Set of navigation tasks for users to complete
3. (optional but helpful) Tree testing tool like [Treejack](#), [UserZoom](#), or [Maze](#)

Can be done moderated or unmoderated

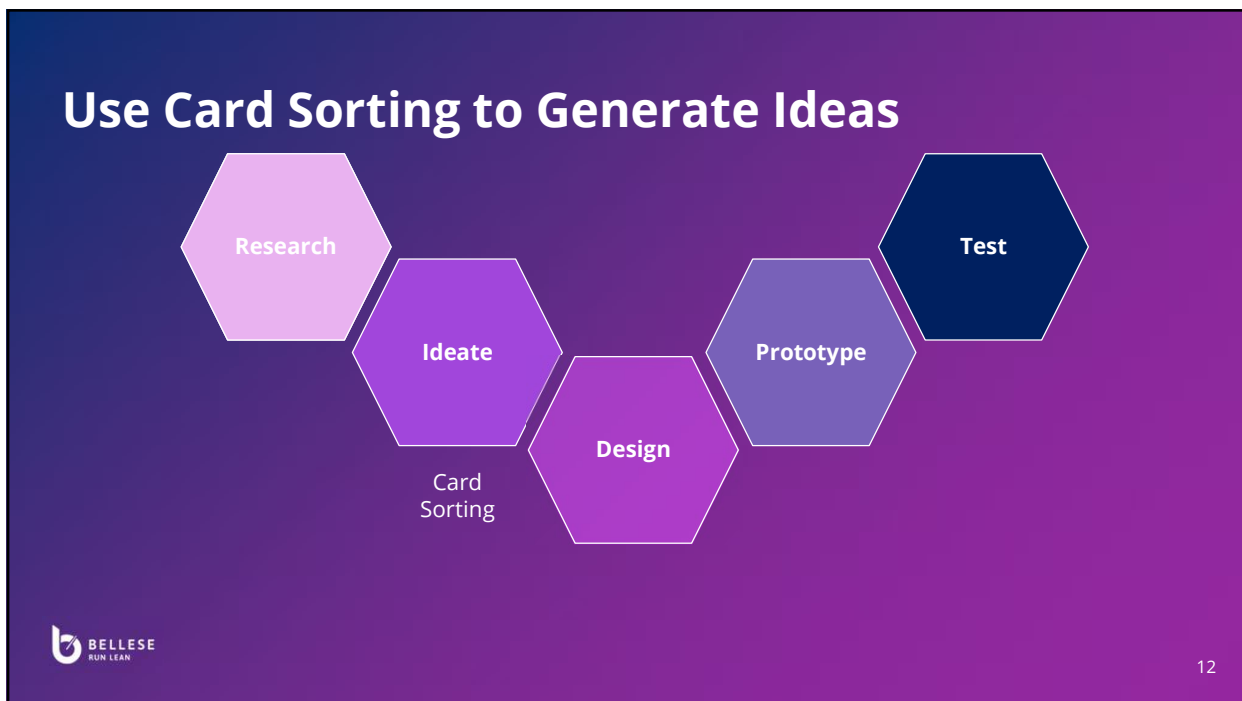
Can do additional rounds after revisions



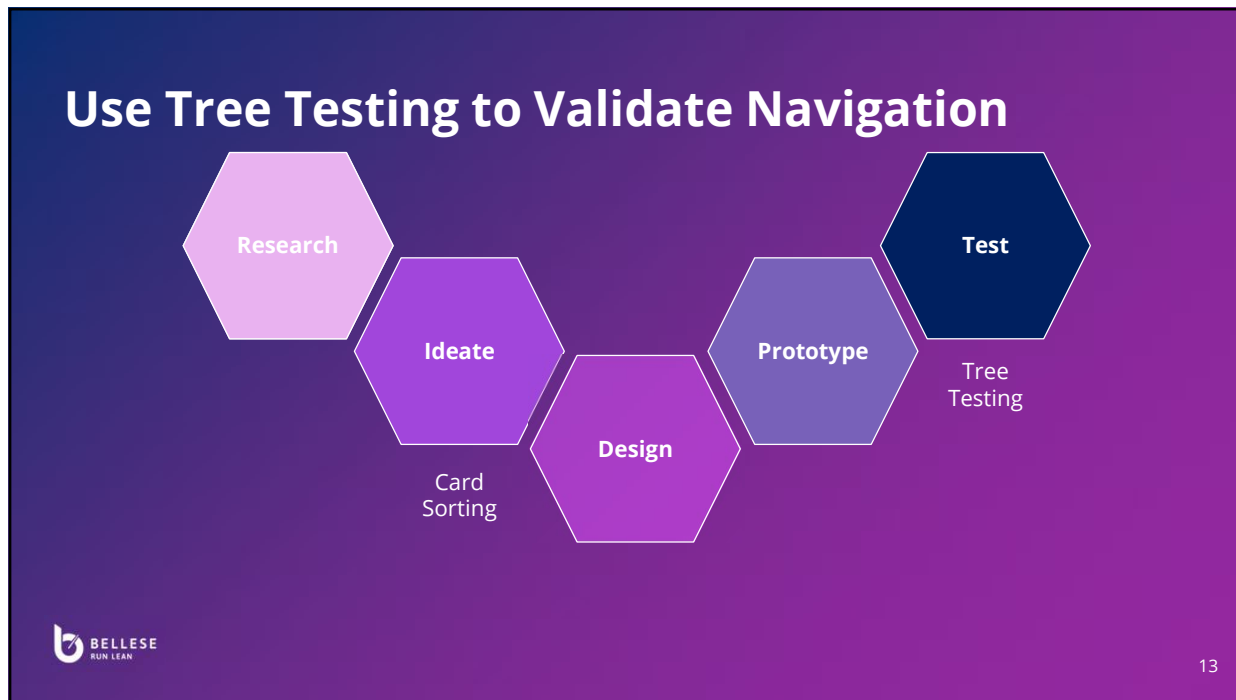
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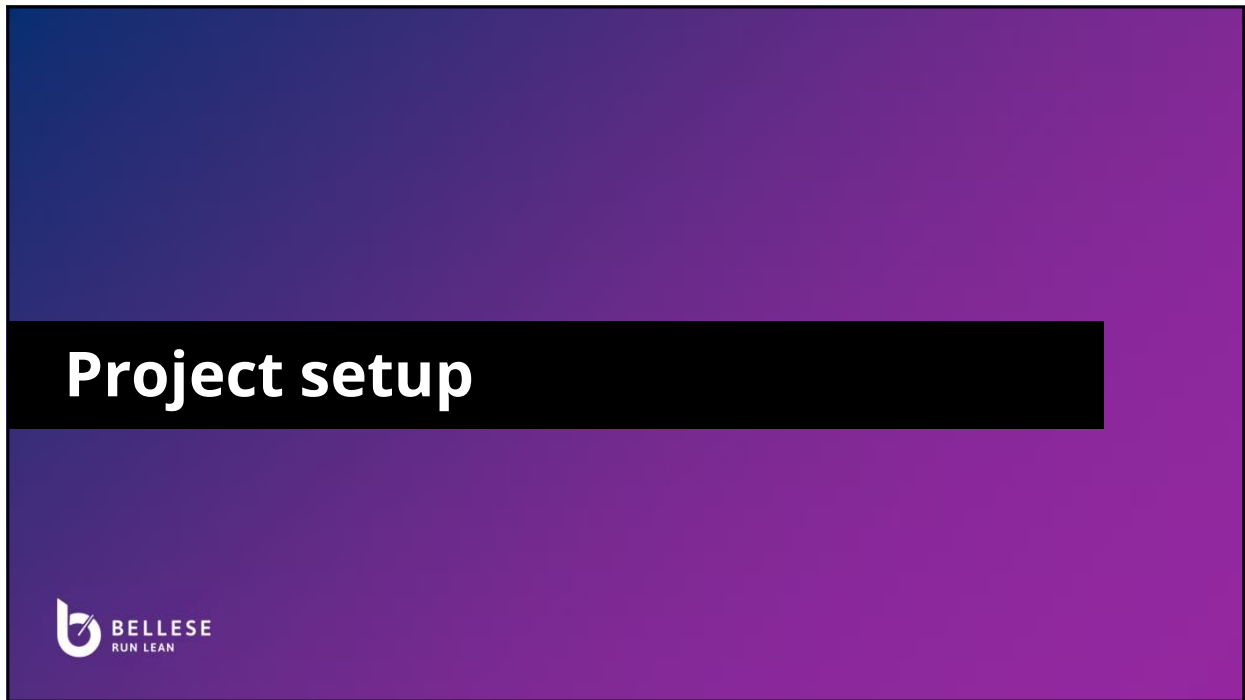
Case Study

HQR Navigation


- Dashboard
- Submissions & Results
- Program Reporting
- Payments
- Validation
- Administration

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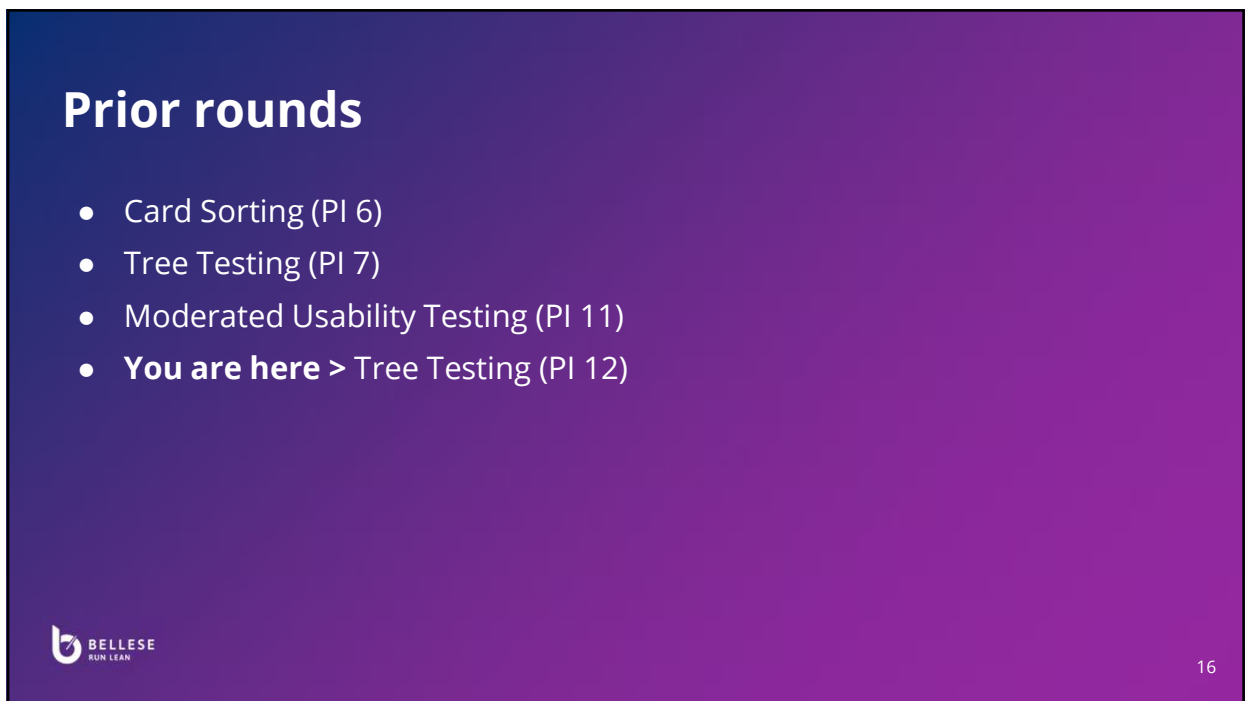
14

A presentation slide with a purple-to-blue gradient background. The title "Project setup" is centered in a black horizontal bar. The Bellese logo is in the bottom left corner.

Project setup


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A presentation slide with a purple-to-blue gradient background. The title "Prior rounds" is in the top left. A bulleted list follows. The Bellese logo is in the bottom left corner, and the number "16" is in the bottom right corner.

Prior rounds

- Card Sorting (PI 6)
- Tree Testing (PI 7)
- Moderated Usability Testing (PI 11)
- **You are here** > Tree Testing (PI 12)

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Two Navigation Approaches Tested

V2

Data Submissions	
eQMs	File Upload File Accuracy
Chart-Abstracted	File Upload File Accuracy
Population & Sampling	File Upload File Accuracy Data Forms
HCAHPS	File Upload File Accuracy Data Forms
Audit Validation	File Upload File Accuracy
Web-Based Measures	File Upload File Accuracy Data Forms
Data Results	
eQMs	
Chart-Abstracted	
HCAHPS	
Audit Validation	
Web-Based Measures	

V3

Submissions & Results	
eQMs	File Upload File Accuracy Measure Results
Chart-Abstracted	File Upload File Accuracy Measure Results
Population & Sampling	File Upload File Accuracy Web Forms
HCAHPS	File Upload File Accuracy Web Forms
Audit Validation	File Upload File Accuracy Measure Results
Web-Based Measures	File Upload File Accuracy Measure Results
Claims Details	

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Participants

Mix of all programs
User roles: Hospital, Hospital System, Vendor

V2: 8 participants
V3: 7 participants



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Analysis & Findings

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**Multiple paths to
success**

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“Find whether your team has provided all the data needed, or if there’s something else CMS needs”

A journey...

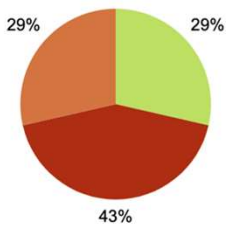


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v3

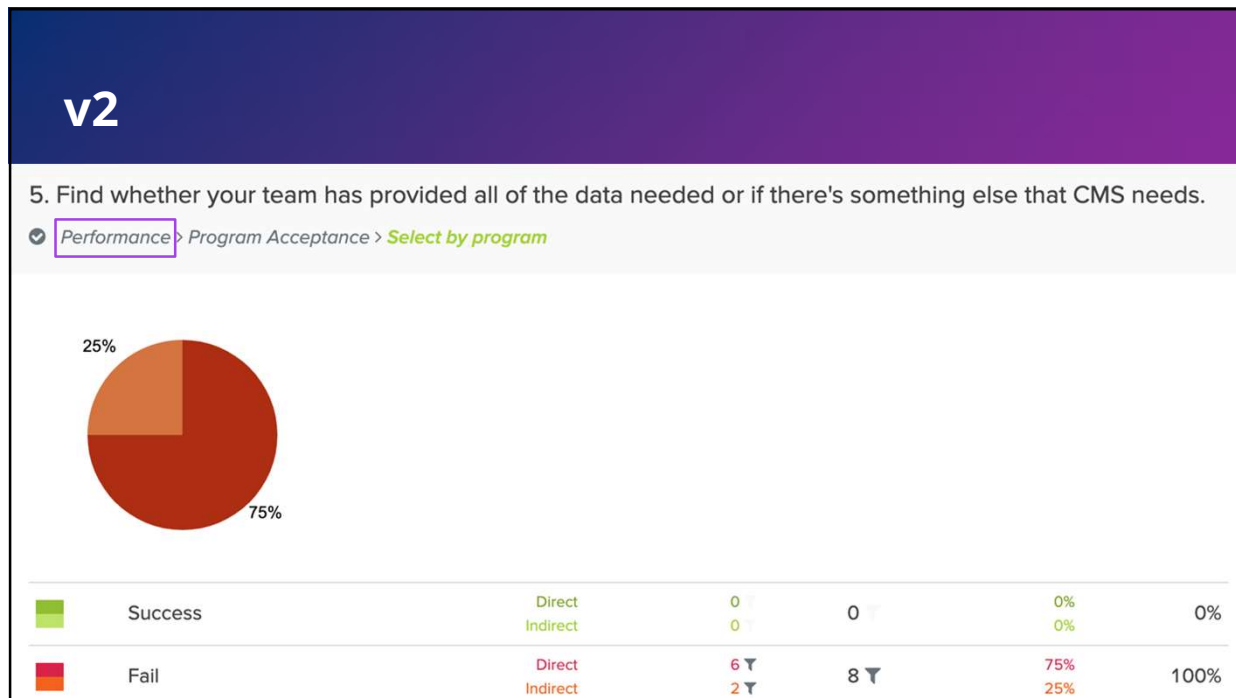
5. Find whether your team has provided all of the data needed or if there's something else that CMS needs.

Program Results > Reporting Requirements > [Select by program](#)

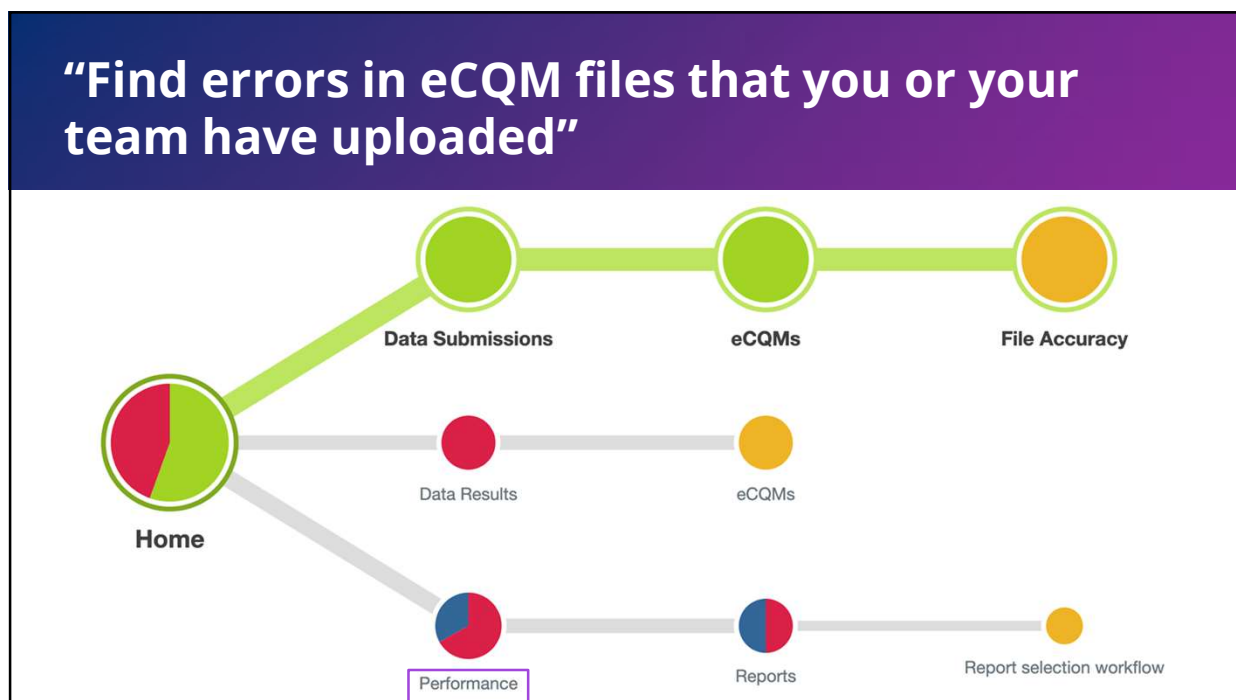


Success	Direct	0	2	0%	29%
	Indirect	2		29%	
Fail	Direct	3	5	43%	71%
	Indirect	2		29%	

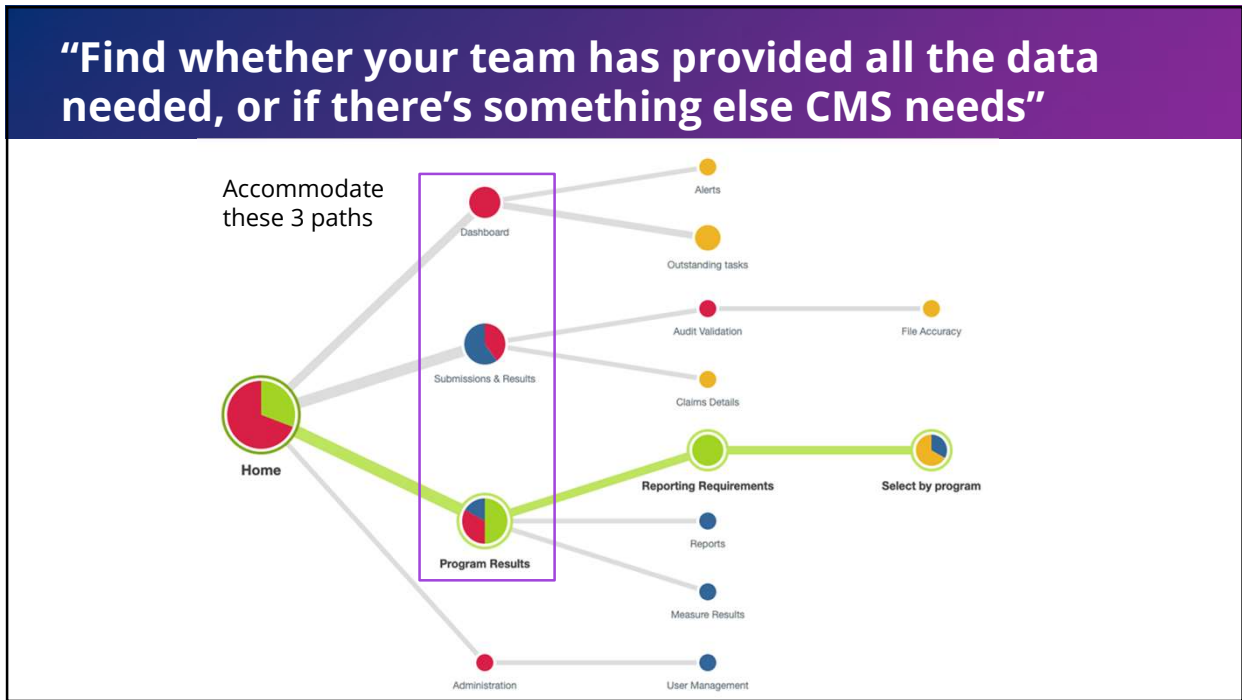
22



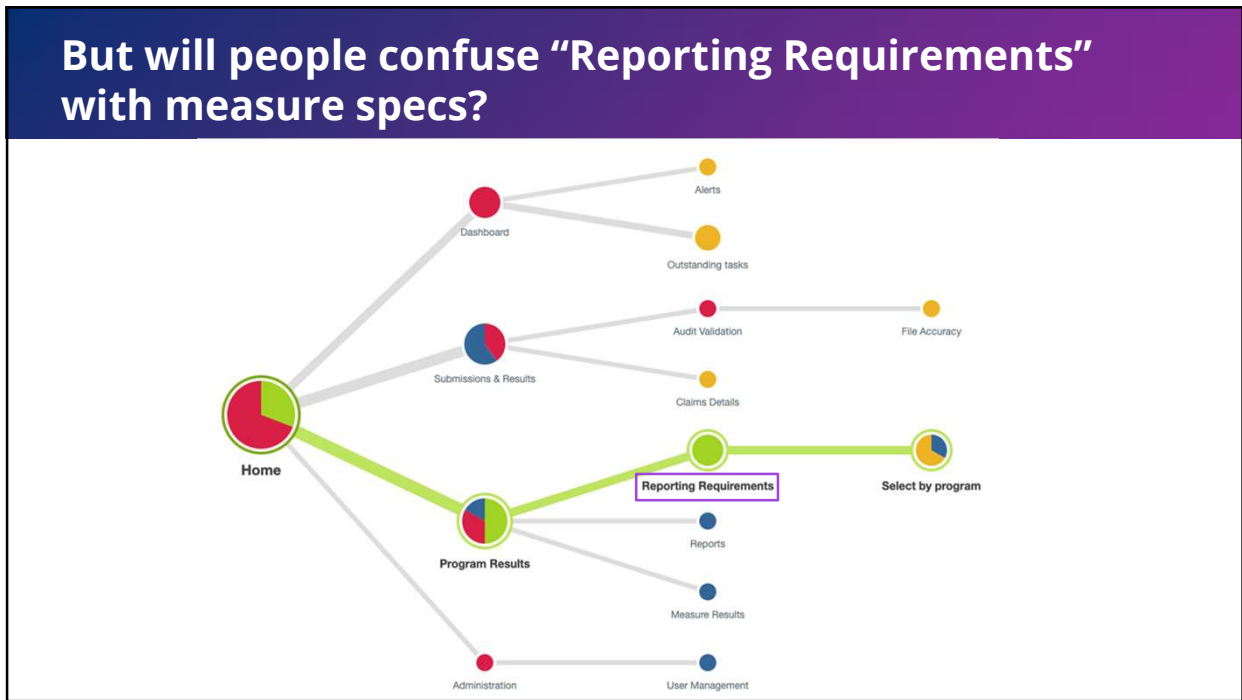
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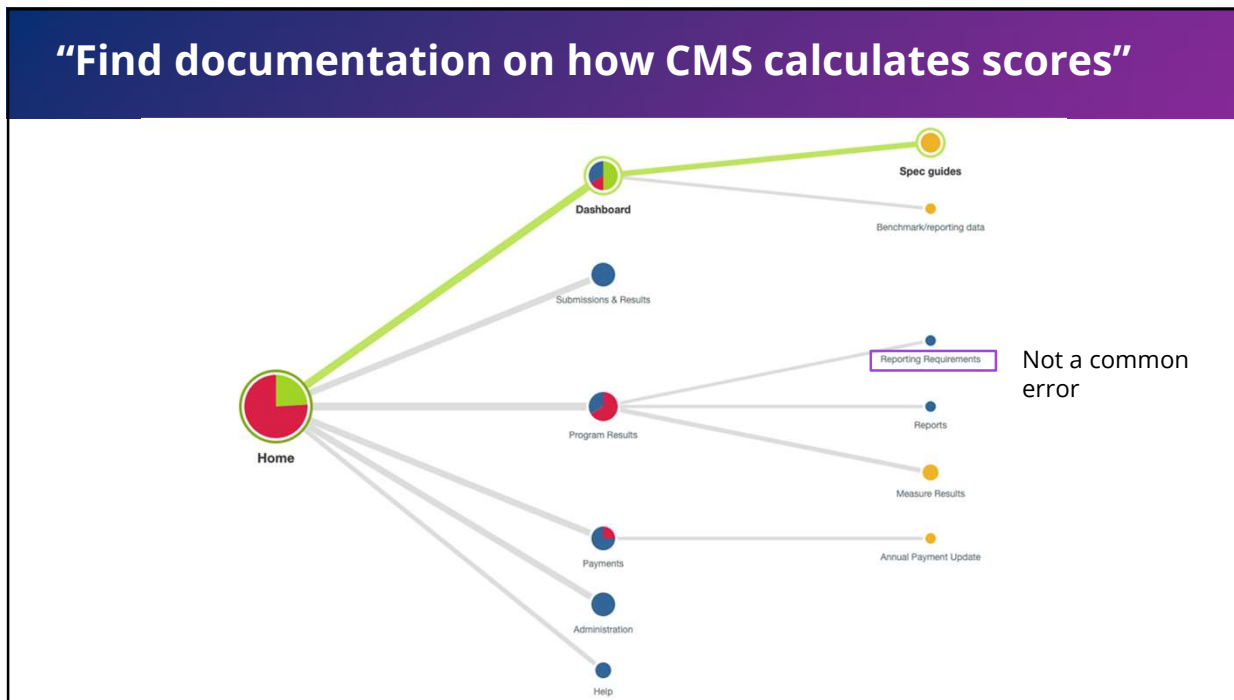
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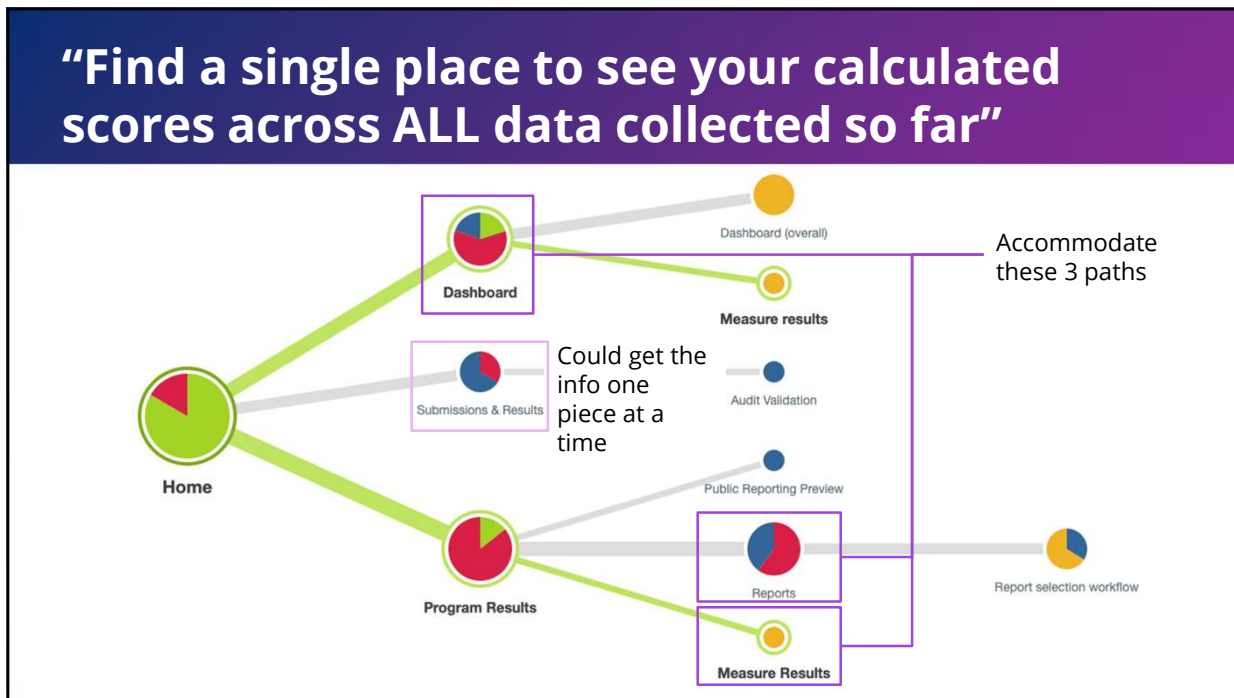


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Solution: where to see if you've met reporting requirements

1. Dashboard
2. Submissions & Results
3. Program Results > Reporting Requirements

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“Find a single place to see your calculated scores across ALL data collected so far”

1. Dashboard
2. Reports
3. Program Results > Measure Results

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Other Findings

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Submissions & Results separated vs combined

<u>V2</u>			<u>V3</u>		
Data Submissions			Submissions & Results		
	eQMs	File Upload File Accuracy		eQMs	File Upload File Accuracy Measure Results
	Chart-Abstracted	File Upload File Accuracy		Chart-Abstracted	File Upload File Accuracy Measure Results
	Population & Sampling	File Upload File Accuracy Data Forms		Population & Sampling	File Upload File Accuracy Measure Results
	HCAHPS	File Upload File Accuracy Data Forms		HCAHPS	File Upload File Accuracy Web Forms
	Audit Validation	File Upload File Accuracy		Audit Validation	File Upload File Accuracy Web Forms Measure Results
	Web-Based Measures	File Upload File Accuracy Data Forms		Web-Based Measures	File Upload File Accuracy Measure Results
Data Results				Claims Details	
	eQMs				
	Chart-Abstracted				
	HCAHPS				
	Audit Validation				
	Web-Based Measures				

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People expect file accuracy and measure results to be combined

v3 with "Submissions & Results" more successful than v2 for:

1. Finding if a file submitted has errors
2. Checking whether you've met IPP
3. Finding a single place to see scores across all data collected
4. Overall satisfaction



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Quality is a Team Sport

1 "I don't enter all these things so I might not know where to go for HCAHPS or even eCQM but I need to be sure all is entered."

"I don't enter all the data myself so some of the questions didn't pertain to me. It is important to understand that **hospitals have many people that HELP enter data.**"



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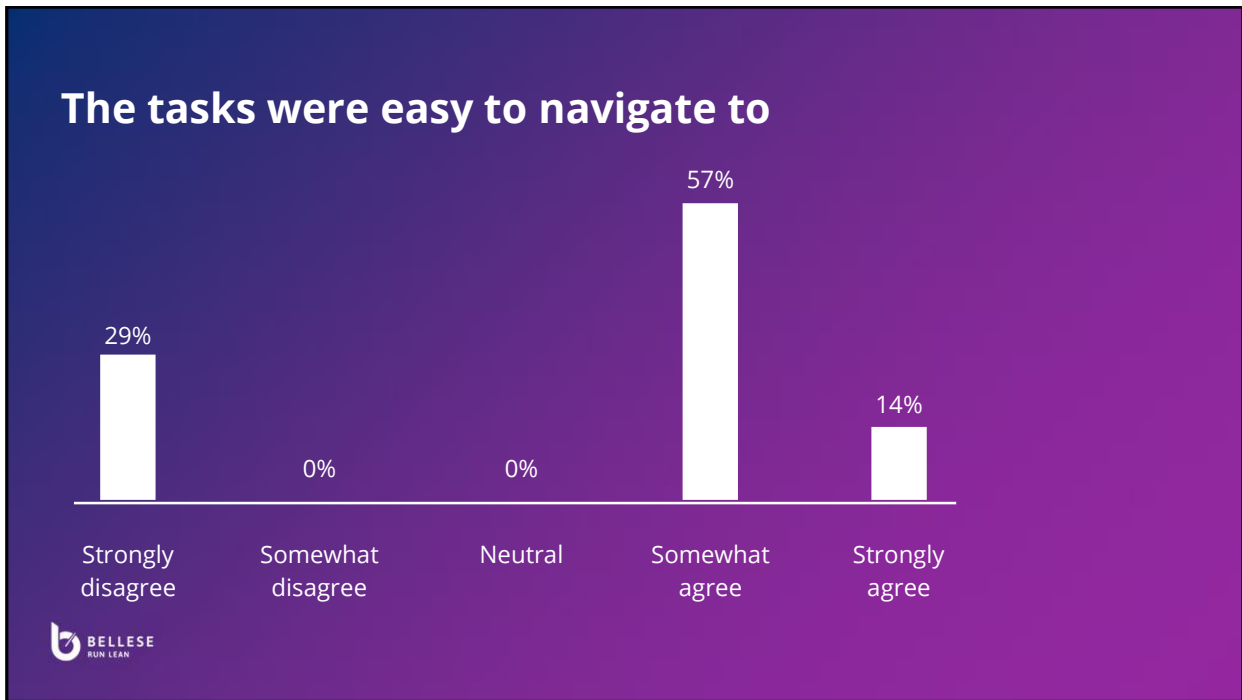
34

Slide 34

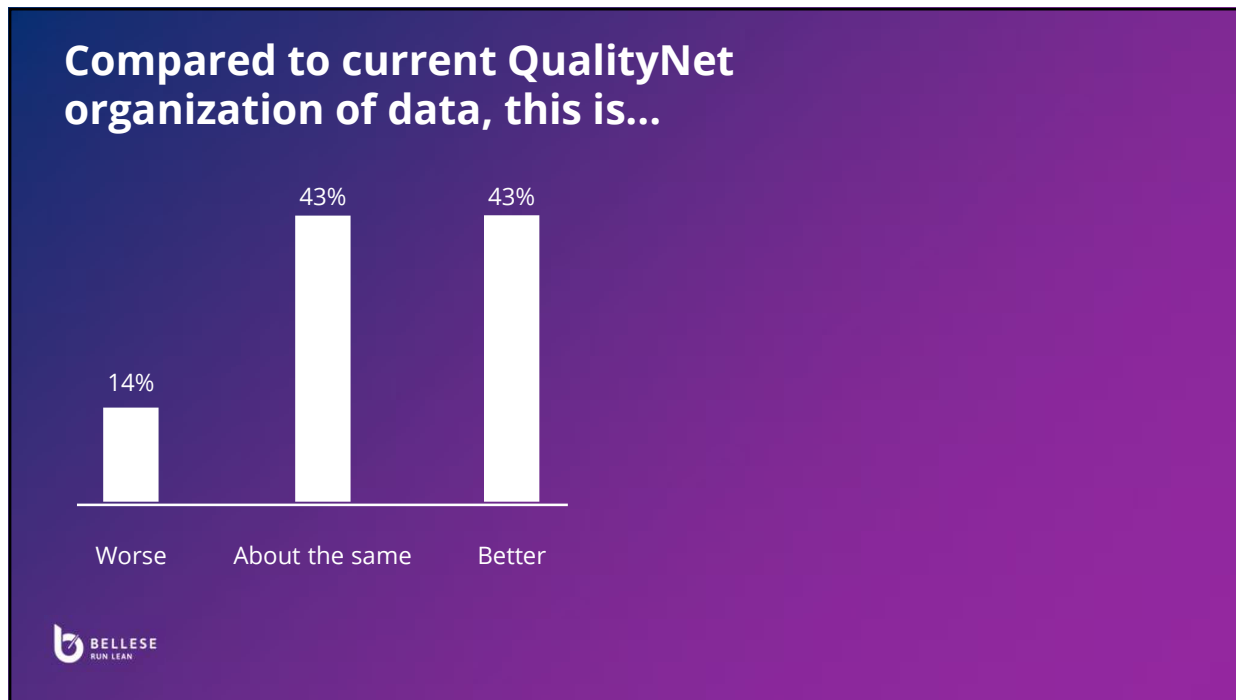
- 1 Can we get user types / titles, if known, here? (and throughout)
Ian Lowrie, 8/27/2020
- 1 Unfortunately we don't have that for this one since we didn't track identities
Mike Eng, 8/27/2020

Satisfaction ratings

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“I would strongly prefer this over QualityNet.org - especially the 'new' set up of their pages. I would just need more time to understand where everything was housed.”

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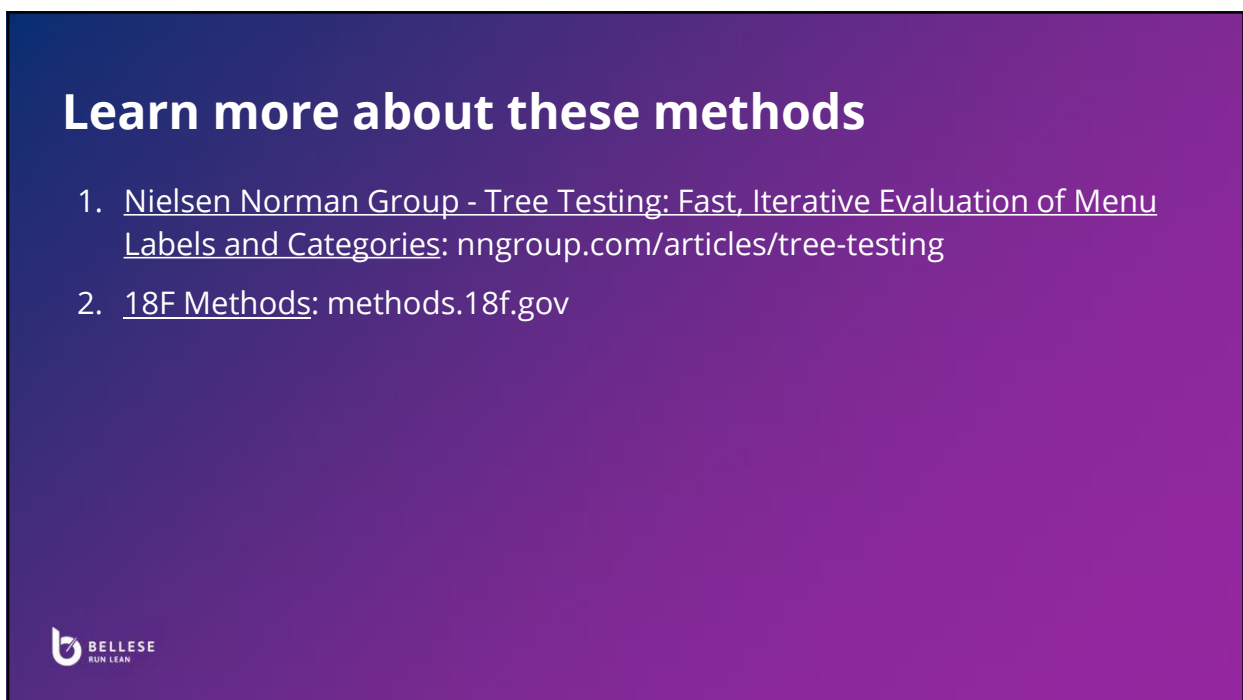


Resources

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Learn more about these methods

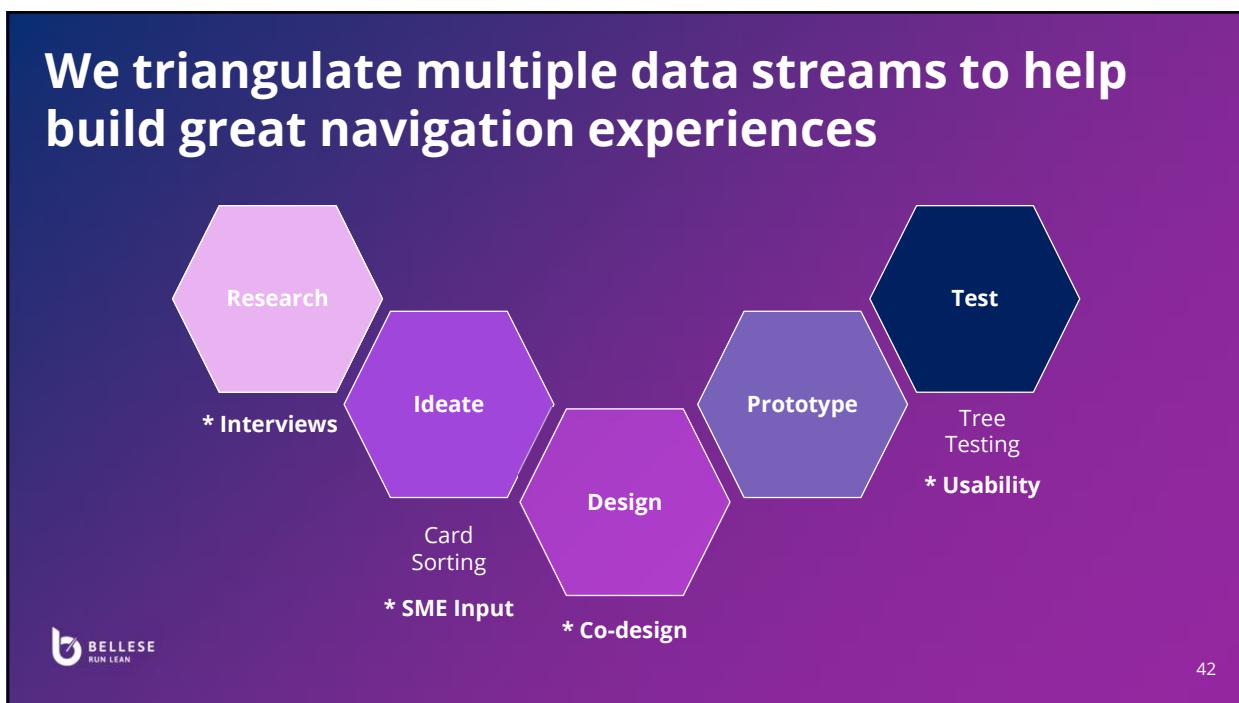
1. [Nielsen Norman Group - Tree Testing: Fast, Iterative Evaluation of Menu Labels and Categories: nngroup.com/articles/tree-testing](https://nngroup.com/articles/tree-testing)
2. [18F Methods: methods.18f.gov](https://methods.18f.gov)

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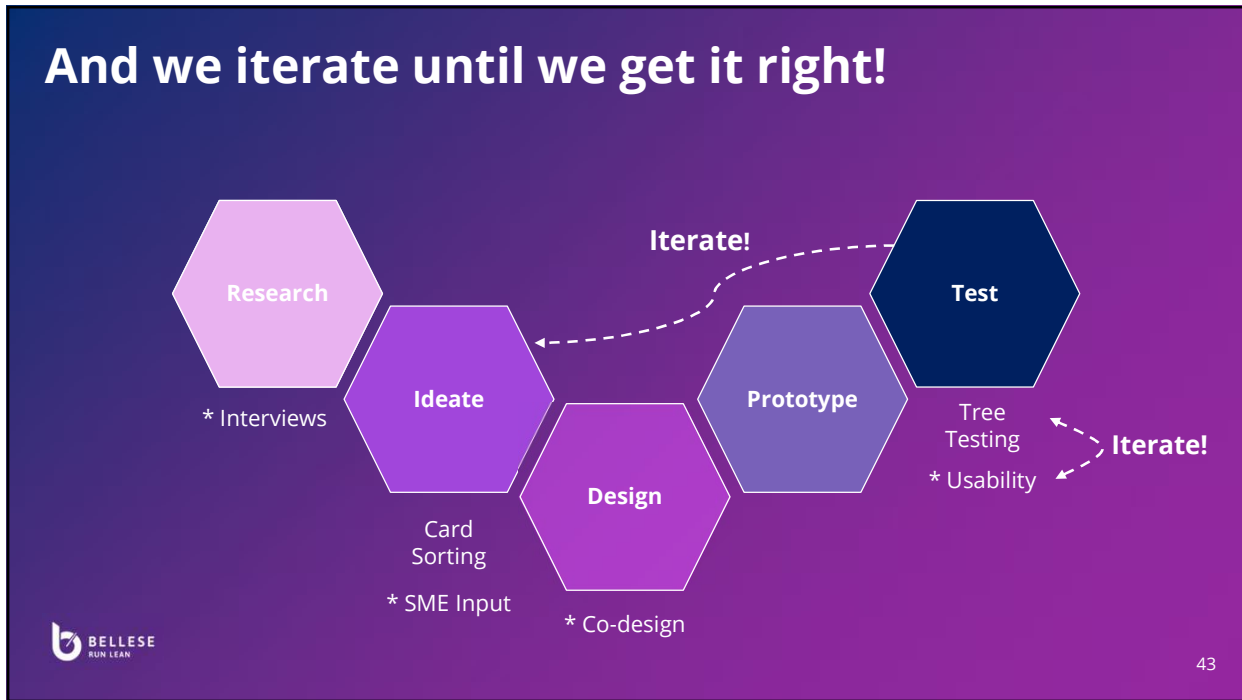
40



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Our team has moved to Figma and Maze for rapid prototyping and testing

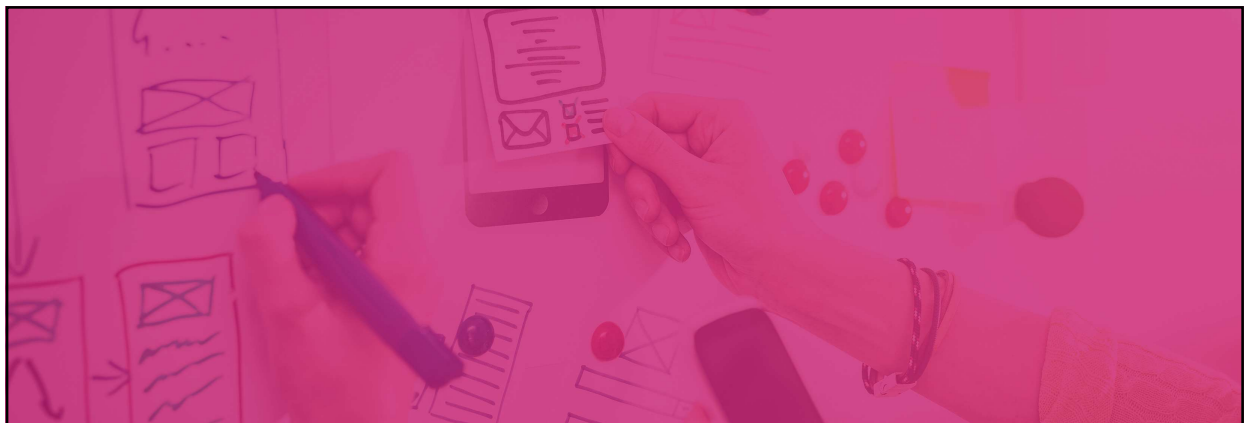
- Figma prototypes are quick to build and “high enough” fidelity for iterative testing
- Maze lets us use one tool for both discovery and usability
- Heatmaps add an additional layer of insight into navigation
- Great “participant experience” and “researcher experience”
- Low cost and responsive support

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PANEL



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Prioritizing Information Architecture Research

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Operationalizing Findings

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Getting Started

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Q&A

Unmute
or Zoom chat



Photo by [Camylla Battani](#) on [Unsplash](#)

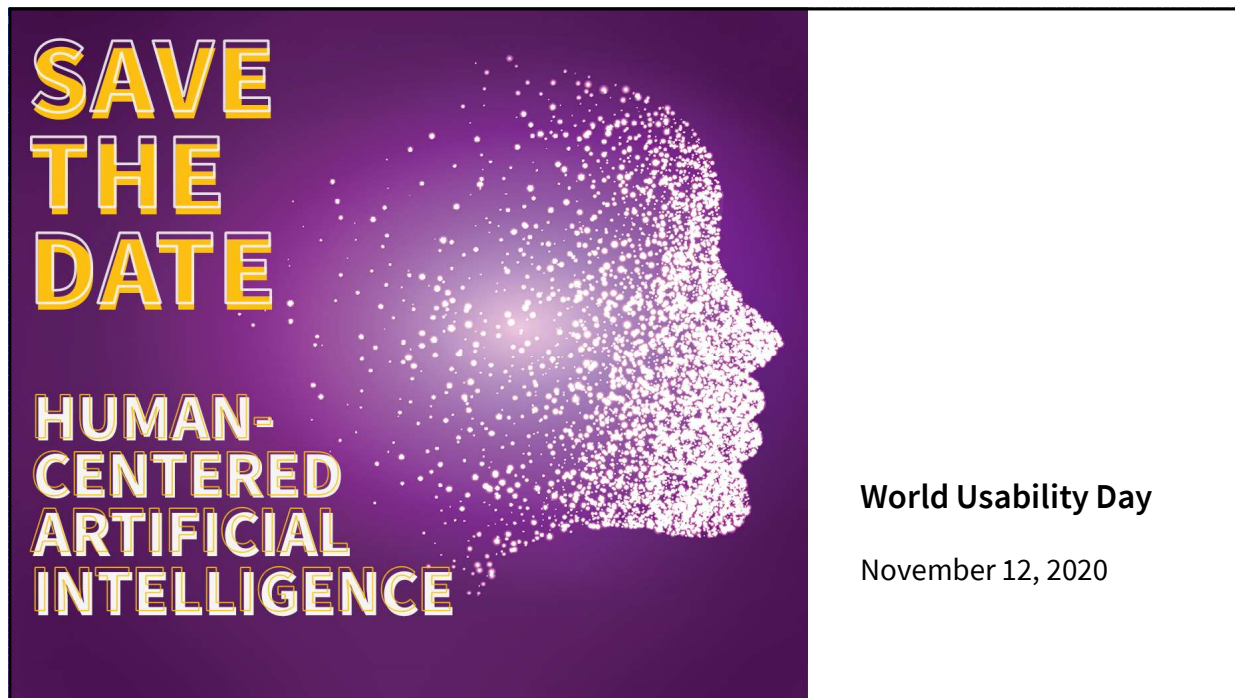
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QUICK INFO



Photo by [Ramiz Dedaković](#) on [Unsplash](#)

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A graphic for World Usability Day 2020. The left side features a dark purple background with the text "SAVE THE DATE" in large, bold, yellow-outlined letters. Below it, "HUMAN-CENTERED ARTIFICIAL INTELLIGENCE" is written in smaller, white-outlined letters. To the right, a silhouette of a human head is formed by a cluster of white and purple dots. The right side of the graphic is white with the text "World Usability Day" and "November 12, 2020" in black.

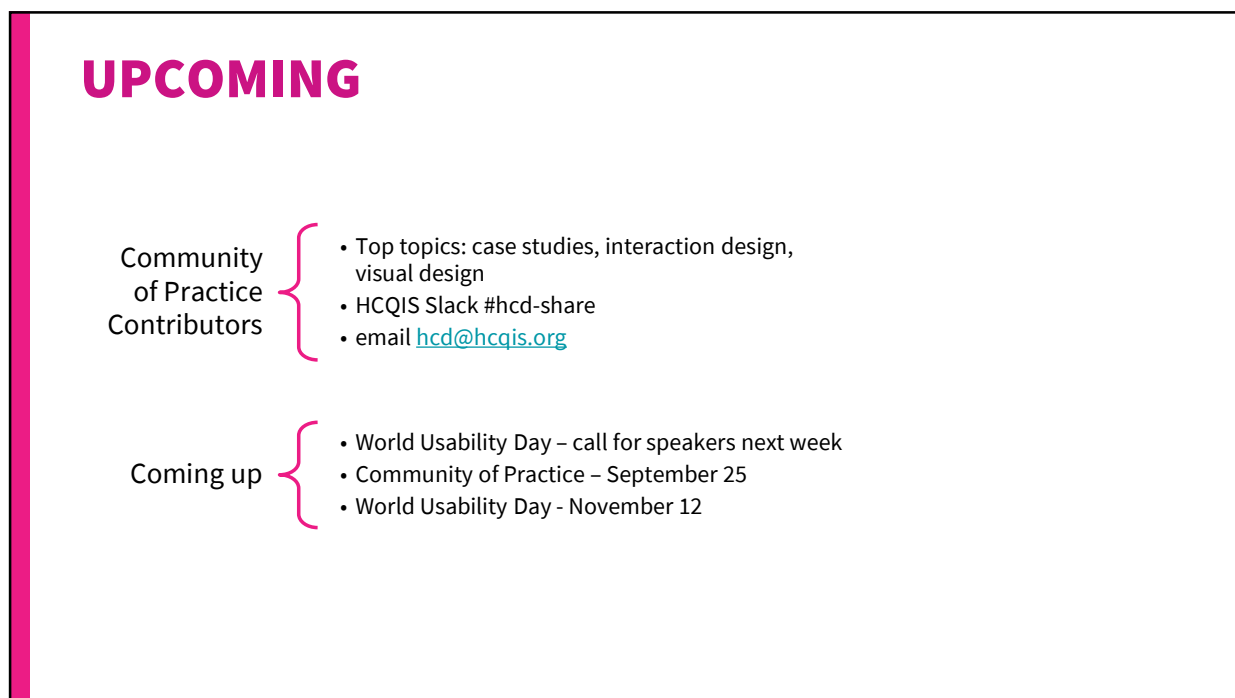
SAVE THE DATE

HUMAN-CENTERED ARTIFICIAL INTELLIGENCE

World Usability Day

November 12, 2020

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A slide titled "UPCOMING" in bold pink letters. It lists two categories of upcoming events: "Community of Practice Contributors" and "Coming up". Each category is followed by a list of items, with a pink curly bracket grouping the items. The "Community of Practice Contributors" list includes top topics, a Slack channel, and an email address. The "Coming up" list includes World Usability Day calls for speakers and community events.

UPCOMING

Community of Practice Contributors {

- Top topics: case studies, interaction design, visual design
- HCQIS Slack #hcd-share
- email hcd@hcqis.org

Coming up {

- World Usability Day – call for speakers next week
- Community of Practice – September 25
- World Usability Day - November 12

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MUCH APPRECIATION



Mike Eng
Senior UX Researcher
HQR



Ian Lowrie
UX Research Lead
HQR



Stephanie Warren
UX Content Strategist
HQR



Chelsea Hunt
Sr. Design Strategist
HCD CoE

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CONTACT

HCQIS Slack #hcd-share

hcd@hcqis.org

<https://confluence.hcqis.org/display/HCD>



Standards



Services

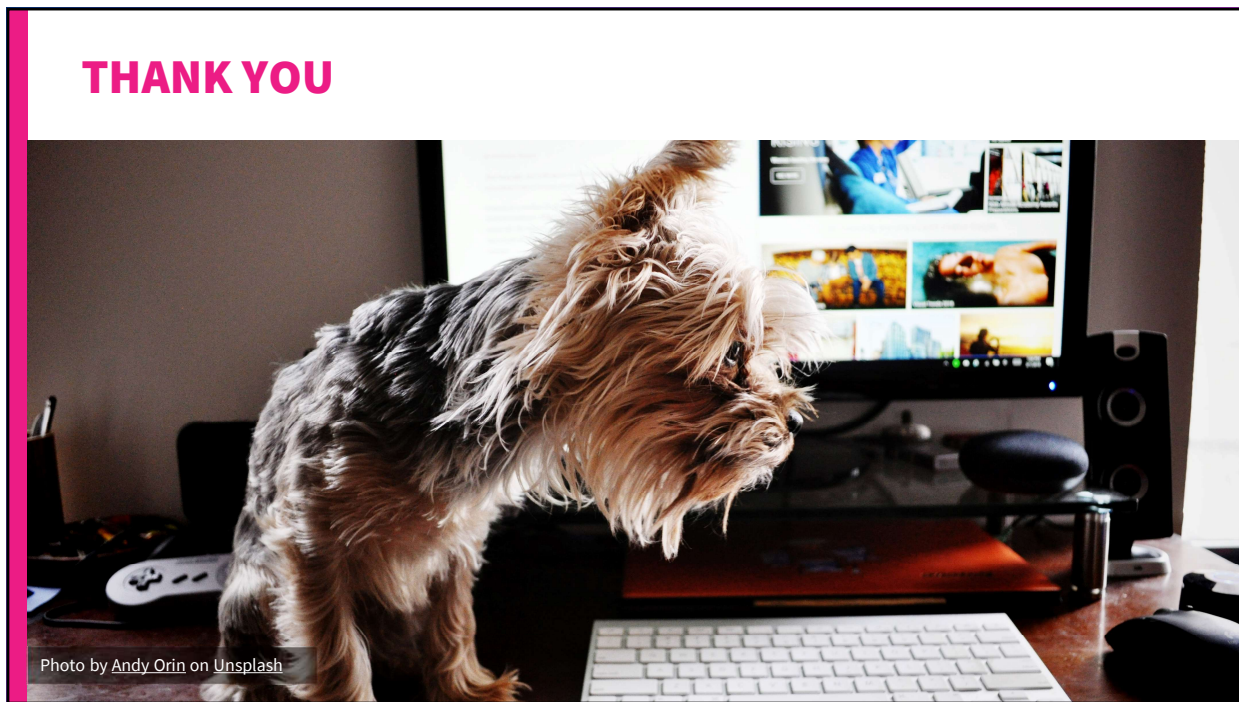


Advocacy



Resources

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SHARE
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HCQIS Slack #hcd-share
hcd@hcqis.org
<https://confluence.hcqis.org/display/HCD>

Human-Centered Design
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