

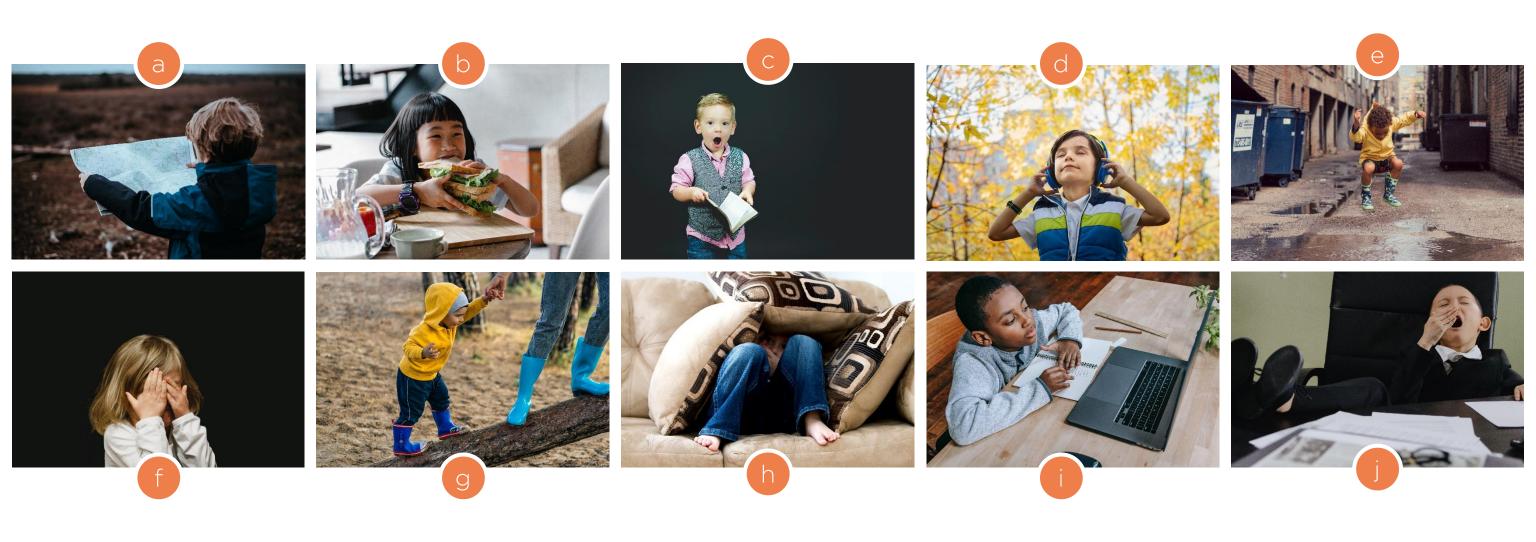
# How do you feel?



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# How do you feel?







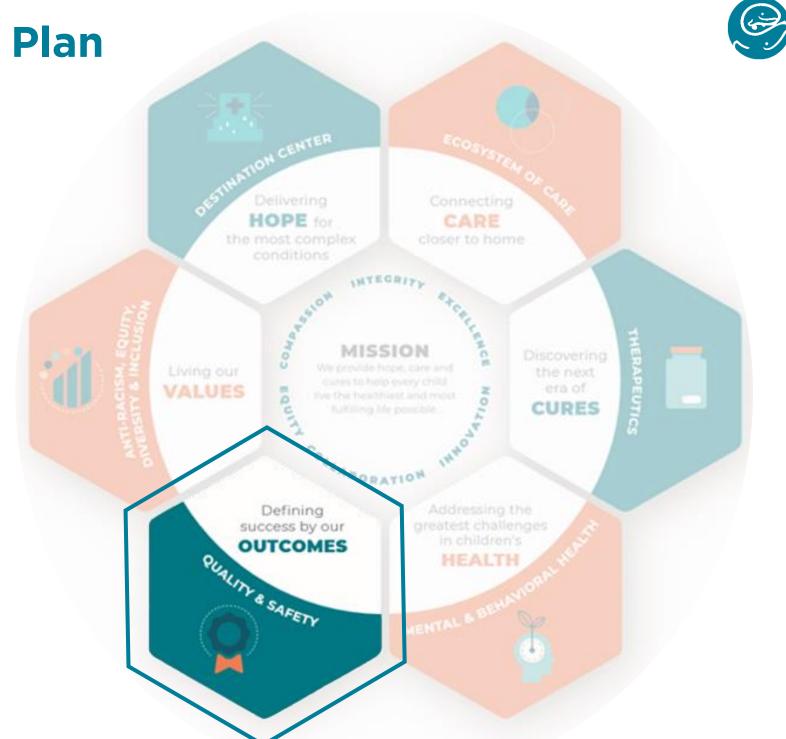
# Continuous Improvement and Innovation Team at Seattle Children's

- Challenge historical processes and help transform healthcare from its inside
- Empower and ease the day-to-day life of those who work at Seattle Children's
- Improve the Quality & Safety, and Experience of Care that our families and patients receive
- We offer end-to-end support to our colleagues at Seattle Children's
- Combine our expertise with those who live in the problem (staff, families, and patients)
- We are a system resource

Seattle Children's Strategic Plan

#### **Quality & Safety Strategic Imperative**

- Quality Strategic Plan
- Culture of Safety Improvement Initiative (COSII)
- Destination Program Outcomes





#### **Background**

Preventable harm does not occur in the process of care

A patient has a 1 in 300 chance of being harmed in the process of care\*

85% of (quality) problems detected are process or system-related, whereas 15% are traceable to individuals

Humans make errors.

How do we learn from mistakes and make systemic changes to prevent / mitigate future harm.

#### **Project Goals**

Increase the total number of patient safety events submitted by 25% from FY20 to FY23.

 Recognizing: Increased reporting tied to a stronger safety culture tied to a decrease in preventable harm.

Increase the scores by a statistically significant amount on the following Safety Culture Survey questions:

- "When a mistake is reported, it feels like the focus is on solving the problem, not writing up the person".
- "I can report patient safety mistakes without fear of punishment."



#### **Measuring Success**

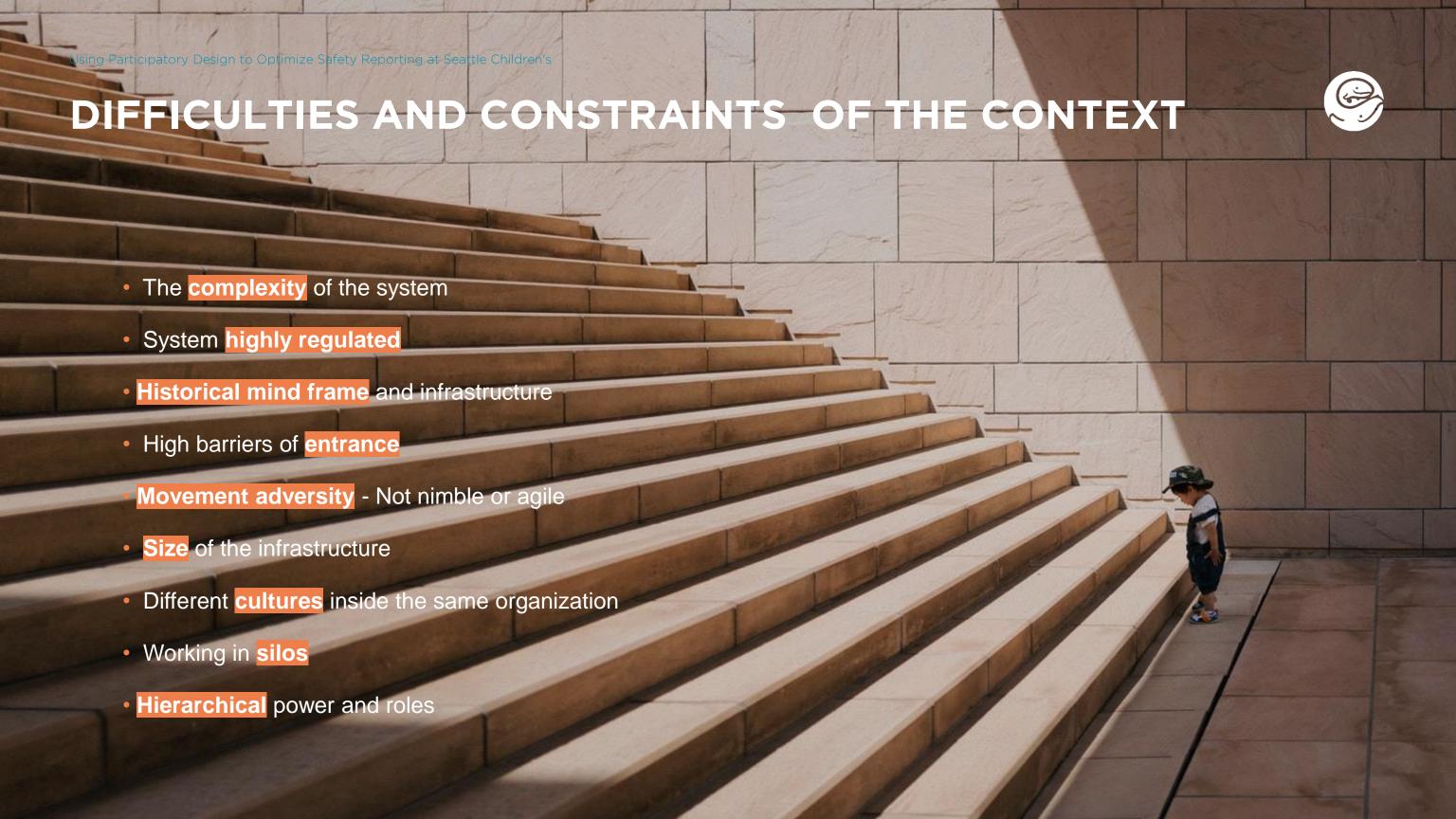
#### Inputter metrics

 Decrease time to report (reduce # of clicks, # of required fields, direct link from electronic health record to incident reporting form)

#### **Follow-Upper metrics**

- Increase # of submissions closed in our system
- Decrease time to closing (e.g., establish TAT expectations for closing out a file)







#### **Our Challenge**

How might we

optimize our incident reporting system, acknowledging human capabilities and limitations in the design of a product and processes

to encourage reporting to identify, learn from and prevent/mitigate our system-related safety vulnerabilities?

# **Our Challenge**



THE NEED OF A **NEW FOCUS** 



# de-sign /da 'zīn

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### ...Design?



The focus is on the main user/customer.

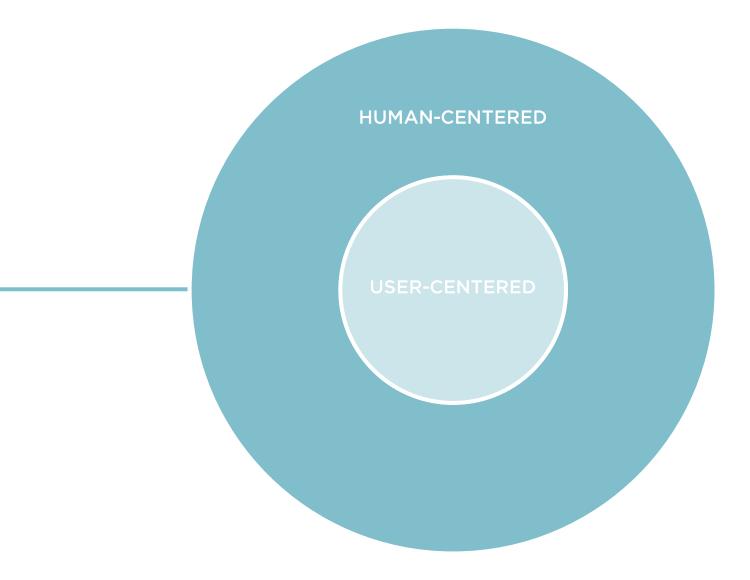
It views design solutions from the perspective of a user's needs and interests.

### ...Design?



The focus is on the different users involved.

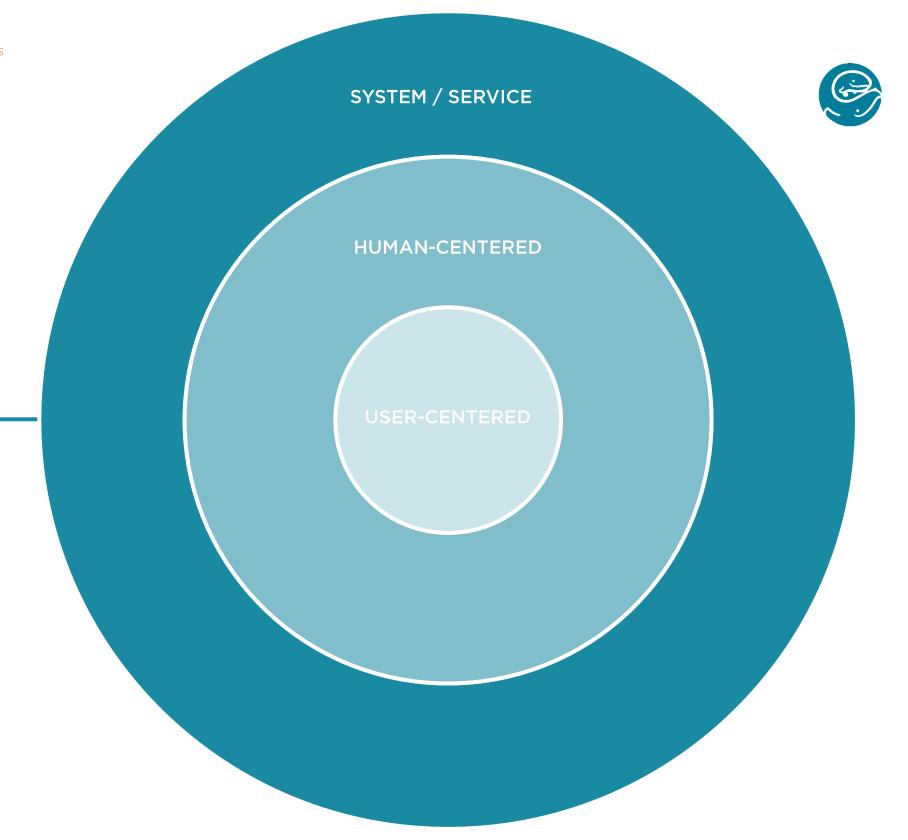
Addresses impacts on several stakeholders, not just those typically considered as users.



### ...Design?

The focus is on the different relationships and interactions.

It considers the multiple stakeholders of the service/system, their roles, their needs, and barriers, and addresses how they are impacted by other's actions



#### Service...?

# Good services are verbs

# Bad services are nouns



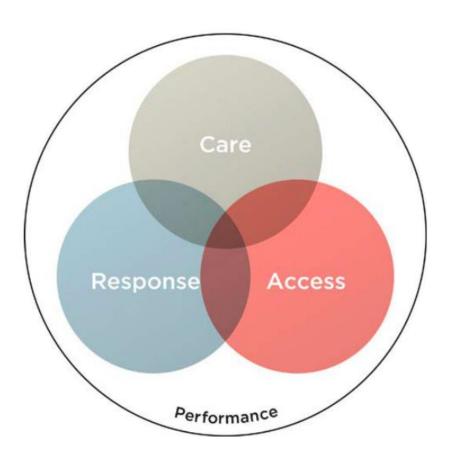


#### GOODS-DOMINANT LOGIC

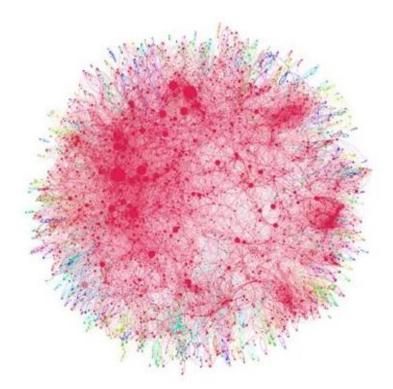
Value creation comes from identifying features that consumers want.

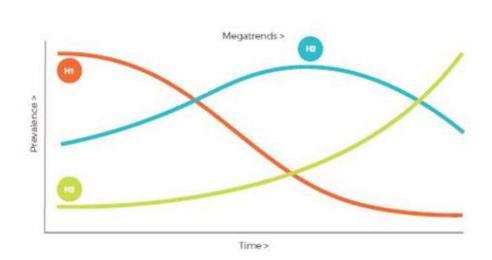
# **SERVICE-DOMINANT**LOGIC

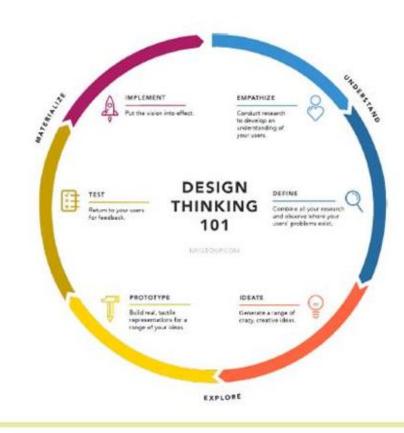
Value creation comes from delivering people access, care and/or response.



#### [Service] Design Mindset





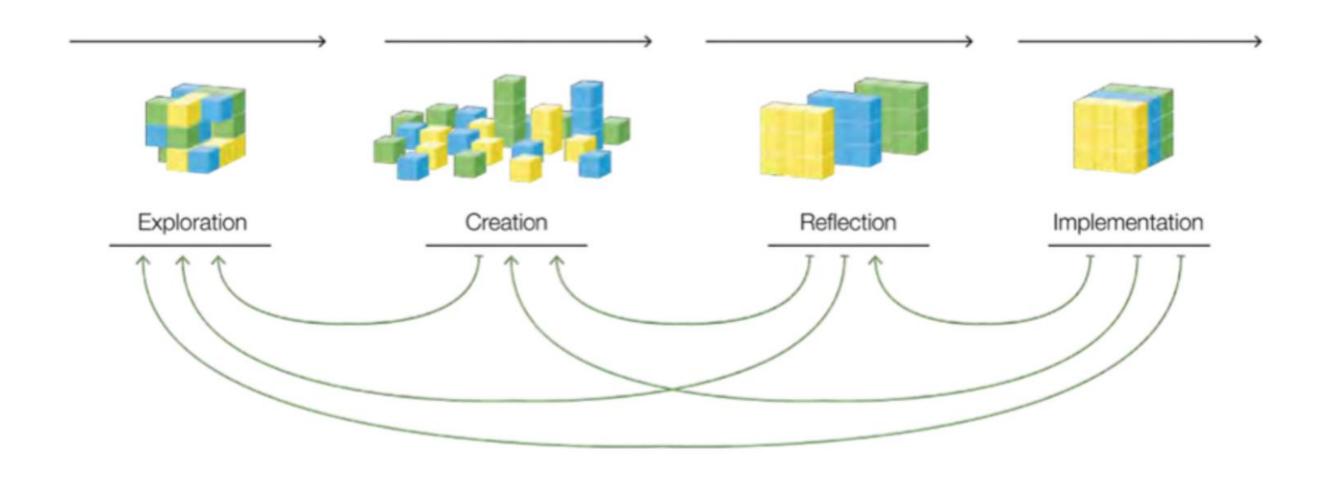


**SYSTEMS THINKING** helps shift our mode of thinking or perspective - to see the bigger picture, the complex environments that our businesses operate in, and how everything is connected.

**FUTURES THINKING** helps businesses to probe a range of plausible futures, link to the present and apply strategic interventions.

**DESIGN THINKING** is the creative process that designers use to solve complex problems. It is human-centric and relies on prototyping + testing to explore design challenges of all sizes.

# [Service] Design Approach



### [Service] Design Approach





#### **HUMAN-CENTERED**

People are at the center of the service design



#### **CO-CREATIVE**

Involve people who are part of the system or service



#### **SEQUENCING**

Visualized by sequences, or key moments



#### **EVIDENCING**

Customers need to be aware of the elements of a service



#### **HOLISTIC**

Consider the entire experience

#### Why Participatory Design?



# DESIGNING FOR THE USER

Actively **involve and engage representations of all the stakeholders in the design process** to ensure that services and products **meet the needs and expectations of the people** that they serve.

# **Why Participatory Design?**





Bringing **DIFFERENT VOICES**from the system



Triggering **COLLECTIVE CREATIVITY**from users



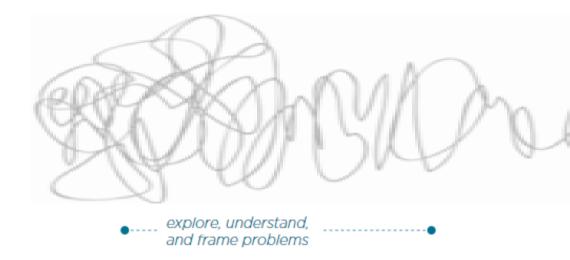
Enhancing
CHANGE OWNERSHIP
and adoption

#### **Our framework**



18 CLINICAL UNITS

**46**/OICES



• ... alignment and .... ideate solutions

# Frontline Interviews

March-May 2022

A one-hour-long (remote) 1-on-1 conversation with the user(s) to better understand their needs, pains, and hopes for building a better *Safety Reporting Platform* system.

# Shadow & Observations

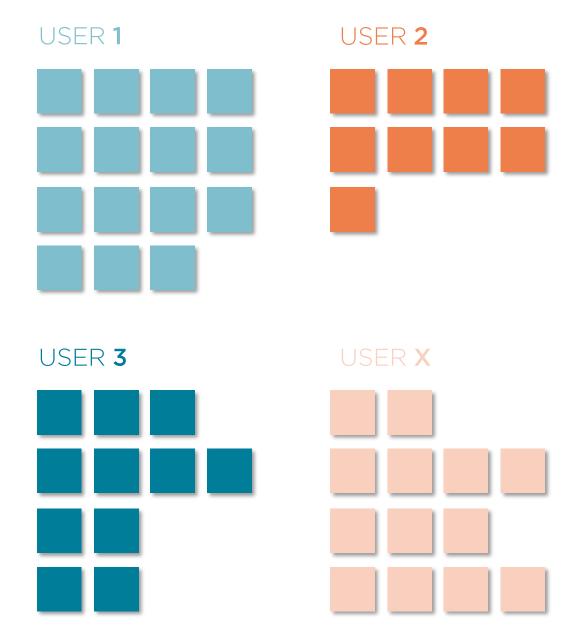
May 2022

A two to four-hour-long session to observe the actual context and the impact of the environment on the product/ experience.

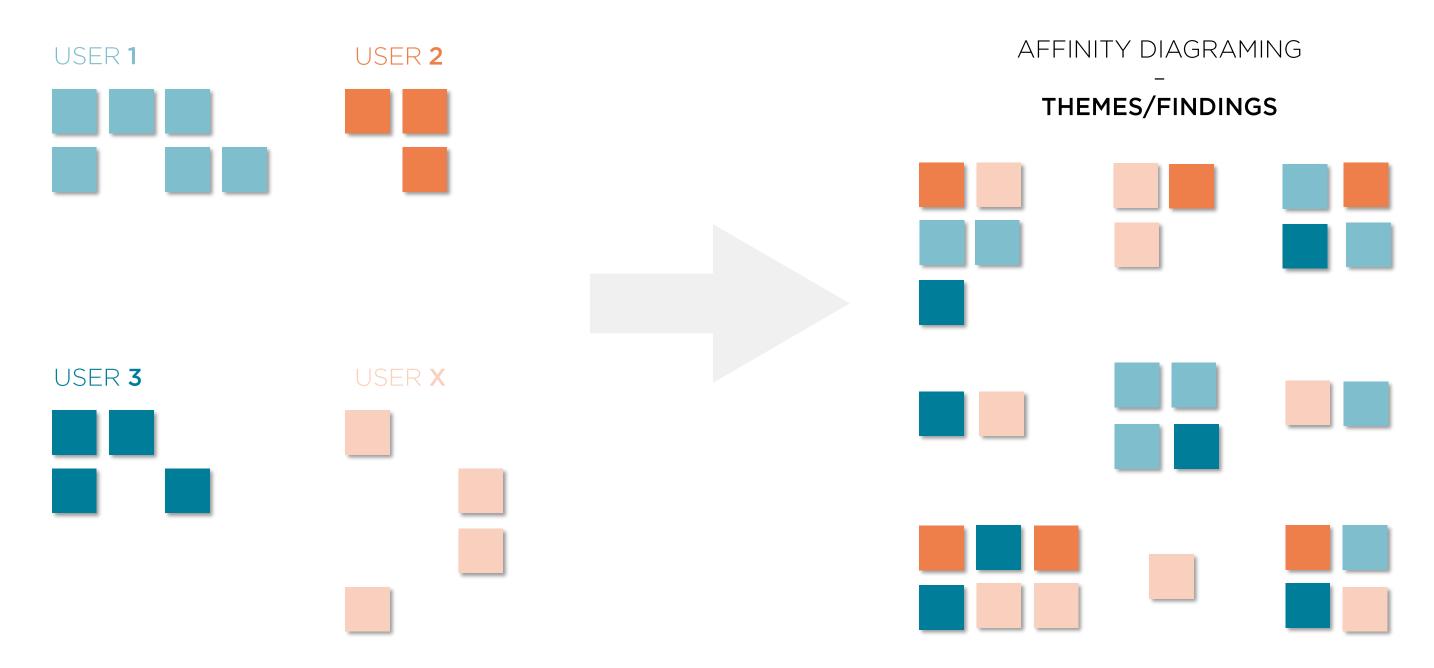
### Co-Creation Sessions

July 2022

A series of three half-day workshops over the course of two weeks to collectively rethink how we may improve and optimize Safety Reporting at Seattle Children's

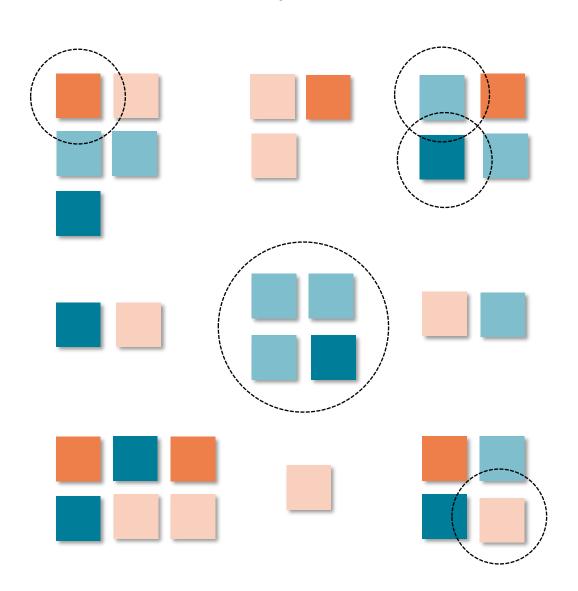






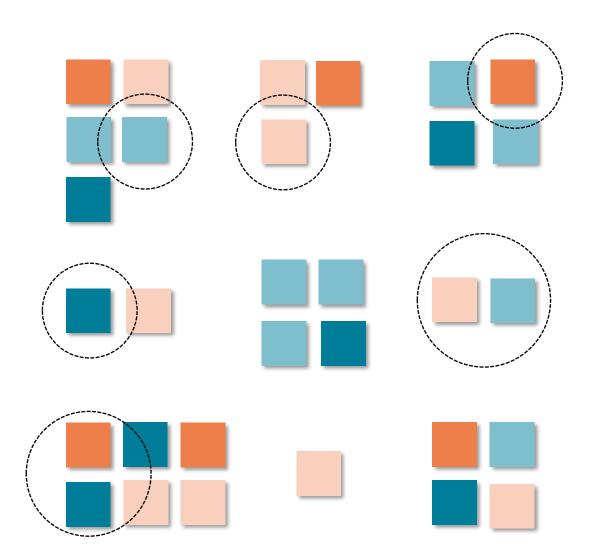


AFFINITY DIAGRAMING THEMES/FINDINGS





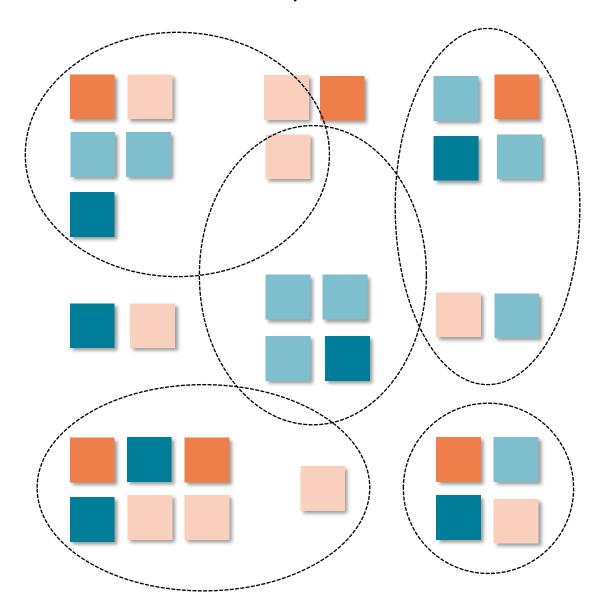
# AFFINITY DIAGRAMING THEMES/FINDINGS







AFFINITY DIAGRAMING
THEMES/FINDINGS



# insights) formulated



The level of training depends on who it comes from.

Our Safety Reporting Platform by itself is not enough.

Reporting feels like a monologue, when it should be a dialogue.

Our Safety Reporting Platform doesn't address urgency.



# The level of training depends on who it comes from.

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Our Safety Reporting Platform doesn't address urgency.



- Introduction to the tool occurs at different moments and mediums. How the tool gets introduced, by whom it is handled and when our staff uses it (and why) for the first time will influence the future user-tool relationship.
- There are different avenues to learning the tool.
- Training and usage of the tool is not uniform across the organization.

It was briefly mentioned in my orientation, but nobody gave us a walk through or told us how it works...I had asked about it and I taught myself.

[To escalate safety concerns] it's just whatever your preceptor shows you. There is not a formal class offered on the unit-level list.

I did get some training [...] after a few weeks of being here [...] which was helpful, but honestly looking back I should have scheduled a follow-up training because it was still so new to me that some of the stuff the trainer went over. Didn't I didn't have a lot of context for it.

The level of training depends on who it comes from.

# Our Safety Reporting Platform by itself is not enough.

Reporting feels like a monologue, when it should be a dialogue.

Our Safety Reporting Platform doesn't address urgency.



- Our *Safety Reporting Platform* almost always requires a complementary tool, such as Epic, Excel, ServiceNow, RedCap, and Tableau.
- Other resources, relationships, conversations, initiatives, and actions are necessary for staff to process safety event submissions.

Our Safety Reporting Platform to us is a secondary system.

We'll escalate things to the appropriate folks via email [...] I can't remember the last time I submitted an event using our Safety Reporting Platform

I can say it's not a great process [track events] because mostly relies on my brain to just remember these themes.

[Most of time, I don't have the patient's information so] I need to look into this patient's chart to figure out things like "When did this patient come down from PICU, and who are all the people who cared for them in that time" so that I can provide coaching to all of those staff members.

The level of training depends on who it comes from.

Our Safety Reporting Platform by itself is not enough.

# Reporting feels like a monologue, when it should be a dialogue.

Our Safety Reporting Platform doesn't address urgency.



- Staff invest time to submit a file with no acknowledgement or communicated resolution in return, leading to feeling unheard and unvalued.
- Cross-communication between units/departments in and outside of the tool are necessary for a thorough investigation and resolution.
- There's a need for honest, human dialogue.

I think [our Safety Reporting Platform is,] because we get no response back, it's a waste of time. [...] But it's a pain in the \*\*\*\* because you got to take time in the busy day to go through somehow make this work.

I personally have never gotten a message back from any eFeedback I put in telling me what happened from that eFeedback.

As far as full follow up, depending on the issue it could take a lot of time. But I will, at least thank them for putting it in our Safety Reporting Platform, which might be part of the reason why [my nurses] are really good reporters.

The level of training depends on who it comes from.

Our Safety Reporting Platform by itself is not enough.

Reporting feels like a monologue, when it should be a dialogue.

# Our Safety Reporting Platform doesn't address urgency.



- Perceived as a reporting mechanism, not a solution mechanism.
- Inputters don't receive "rapid" results after submitting a file.
- Sometimes, staff prefer to go to someone they trust and know can solve the problem.

A lot of times we just sort of want to reach out and have a conversation about it.

I should be able to say this is important like this is an urgent request.

I think that you're always going to experience some resistance to using one tool, right? I think that the nature of clinical care is verbal when they have an issue, it's usually an issue that needs to be resolved right now. And so, it has to be done quickly. Our Safety Reporting Platform is not quick.

#### **Guiding Principles**

- Improve the user experience on submitting and managing safety events/concerns within our incident reporting system
  - Ease of entry and decrease time to complete
  - Make the platform intuitive, and easy to navigate with minimal explanation required
  - Alleviate current pain points and barriers
  - Embed closed-loop communication
  - Provide effective training
  - Define clear roles and standard work for file managers
  - Embed systems/allocate resources to hold file managers accountable to expectations
- **Leverage data** to identify trends, learn from safety events/near misses & inform improvement work
- Optimize the platform (tool) to redesign the system



How might we

reporting using a market solution and within an environment that is reinforcing our safety culture at Seattle Children's?



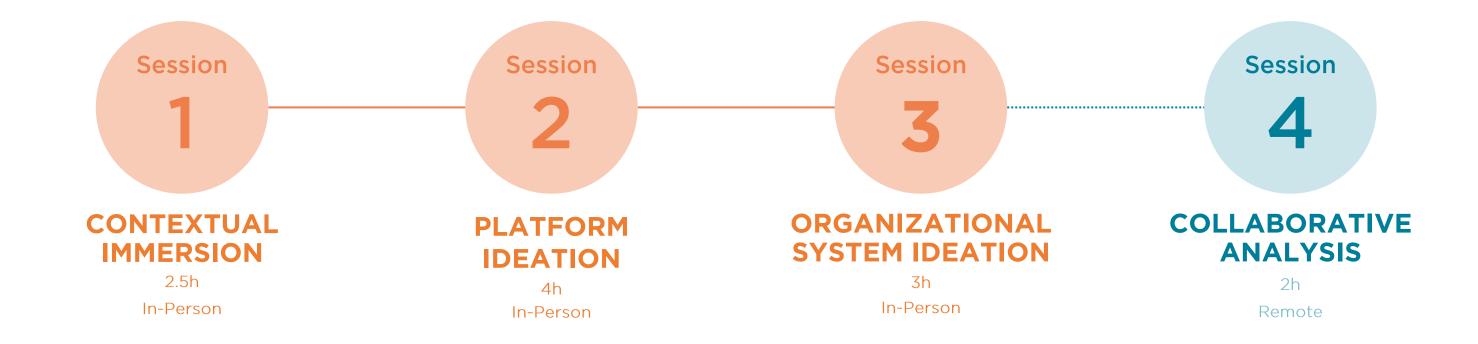
# What is Co-Creation?

Co-creation is the **facilitation of spaces**, where different representations of the service/system gather, to **provoke their creativity** by using design thinking tools.

The different **objectives of co-creation** are to:

- Provide common language
- Understand the relevant needs of the different stakeholders
- Align the design opportunities with organization's strategy objectives
- Find new product(s), service(s), and process/business opportunities
- Translate those needs into actionable solutions
- Optimize resources
- Lead to innovation in design

#### **Co-creation Sessions Framework**





# CONTEXTUAL

Wednesday, July 13<sup>th</sup> 1 – 3.30 PM (2.5h)

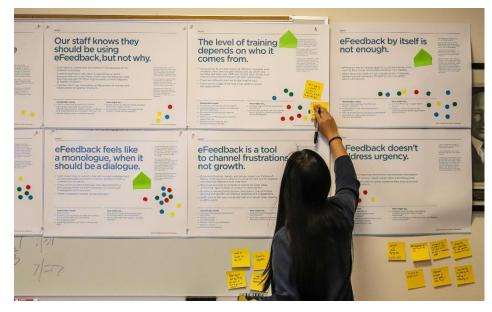
#### Goal

- Set the tone for co-creation and build trust between participants
- Share Design Research Results
- Understand and empathize with different user experiences
- Align on current needs and future state expectations

- Learned more about the co-creation process (session goals and dynamics)
- Shared past/present experiences about how we submit and manage Safety Events at Seattle Children's, and shared expectations about what the new system should become
- Discussed, dissected, reviewed, and validated Design Research Results (Insights and User Journey Map)
- Defined the most critical moments in our user journeys











#### Goal

- Envision the ideal (digital) platform experience
- Comprehend platform capabilities and limitations
- Generate artifacts that illustrate new solutions for our Safety Reporting Platform
- Identify remaining platform's pain points and barriers

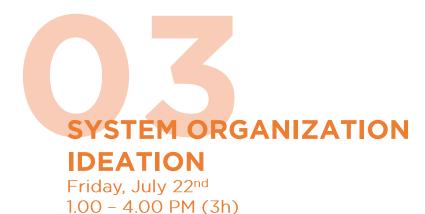
- Explored ideal future platform experience
- Understood possible ways to modify the current safety event submission platform, which is a market solution
- Explored ways to optimize our Safety Reporting Platform
- Designed preferred workflow (journey) for each role and platform (artifacts) to better support the specific user needs













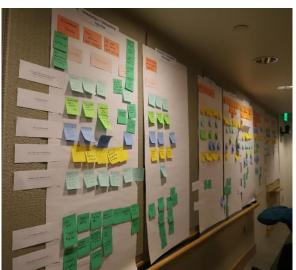
- Recap past sessions, share updates (from vendor) and revisit project goals
- Report-Out Platform optimization for Follow-Uppers
- Ideate organizational initiatives to support dynamics of culture and relationships
- Identify and define people involved in each stage of the process

- Ensured focus, understanding, and alignment on the purpose of the cocreation sessions, the project, and expectations
- Ideated potential future states for Seattle Children's Safety Event Submission and Management System
- Define value-added changes









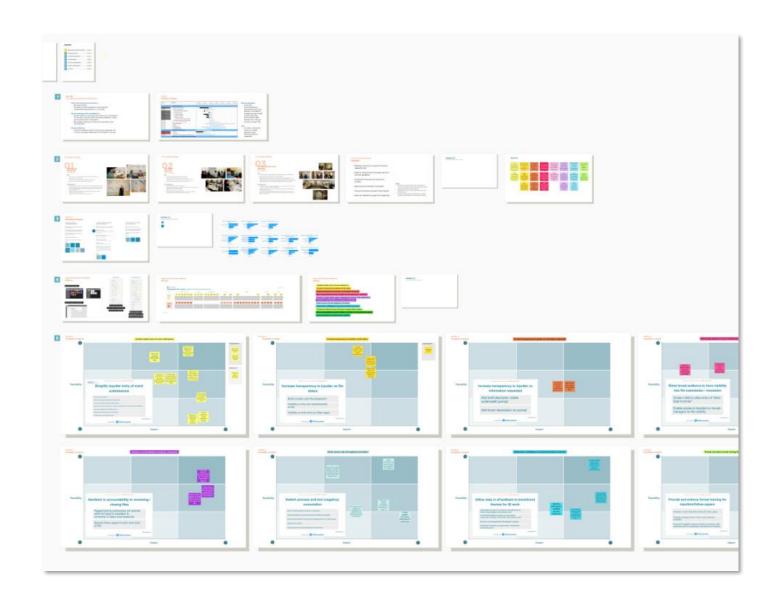


# COLLABORATIVE ANALYSIS Monday, Aug 8th 1 - 3 PM (2h)

#### Goal

- Share and refine co-creation results with Leadership and Core Team Members
- Provide awareness of participants' desires and ensure the success of the final solution
- Align on feasibility and action items

- New system goals and expectations
- Priority Plan definition
- Guidance to Refined Platform Low-Fi Prototype
- Approve key concepts/implementations to build User(s) Journey and New Service Blueprint



#### **Co-Creation Sessions Recap**



https://www.youtube.com/watch?v=CoBm9HzRIcw

#### **Co-creation session results**



- Linking our electronic health record to our incident reporting system to support one-piece flow when a safety event/concern is identified
- **Restructuring our submission form** into an SBAR format to reinforce high-reliability tools (report is informative and objective)
- Redefining the required/optional fields
- Identifying initiatives to recognize/appreciate staff for reporting
- **Defining** (time and accountability) **standards** for reporting across the organization
- Switching connotations of what reporting means
- Positive learning system from reporting

# ideas generated

# **Gaps and Barriers**







- Recruiting in Healthcare and including diverse representatives
- Tech/product limitations
- Design is (still) not at the core of the organization
- Change Readiness

#### **Project Learnings To Date**



- Establishing clear expectations around the project schedule when Participatory Design/Exploratory Phase is included in a project
- Create more options to engage participants
- Make sure we set clear expectations and understanding (project & approach)
- Cross-communication among dependent/similar projects
- Set the stage for other related projects in the organization



#### What is **NEXT**



#### Phased implementation of recommendations

For technical changes:

- Build in **Test**
- Validate new concept(s) with end users
- Training
- Rollout changes

#### For process changes:

- Assessing value with project leadership
- Validate new concept(s) with end users
- Change Management, Communication, Education, and Training
- Implement & Launch new system
- Iterative Refinement

#### The **beginning** phase of HC/Service Design

Opportunity to apply the approach in our safety and clinical work

Expand the use of it in other System/Service Design projects





#### Thank you so much!

- for your attention and feedback -

