

Victor Zapanta & Liz Fox Solving User Problems Outside the Product Box



Who are we and what's our deal?



Victor Zapanta Principal User Researcher Skylight

victor@skylight.digital



Liz Fox Design Studio Delivery Manager BESPIN Software Factory, USAF

elizabeth.fox@teambespin.us

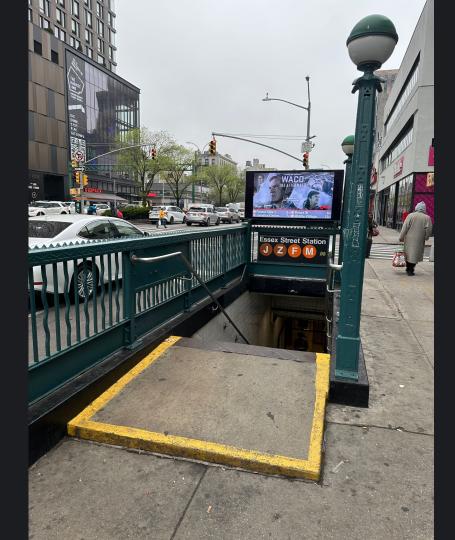
Agenda

What is Service Design?	30 min
Overview	
Case Study: Simple Report	
Toolkits & Frameworks	
Q&A, Break	10 min
Stakeholder Mapping	35 min
Overview	
Activity	
Share & Reflect	

Content warning: We will be talking about the COVID-19 pandemic

What is Service Design?

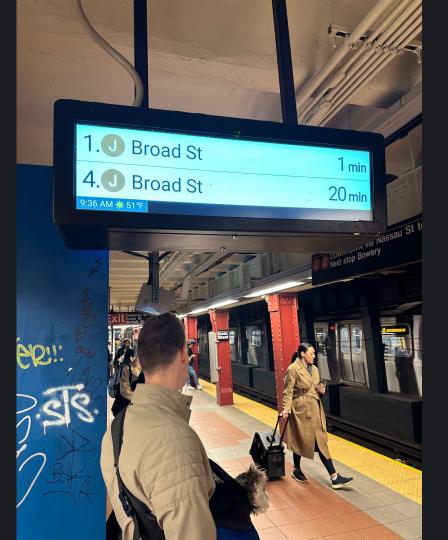


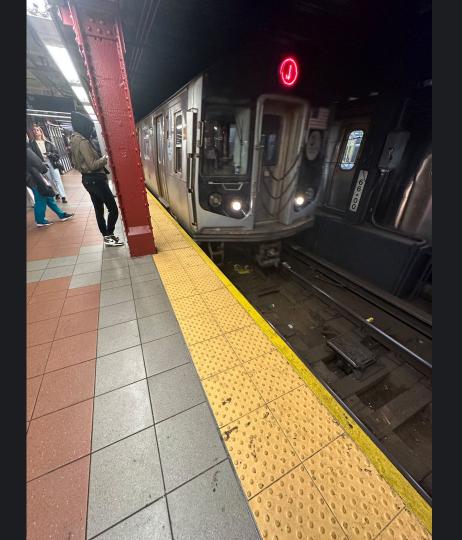


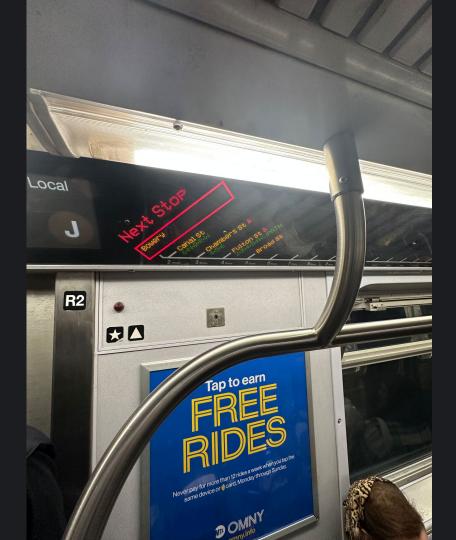


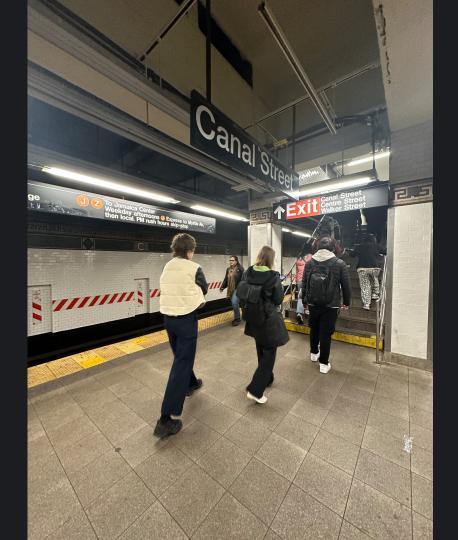


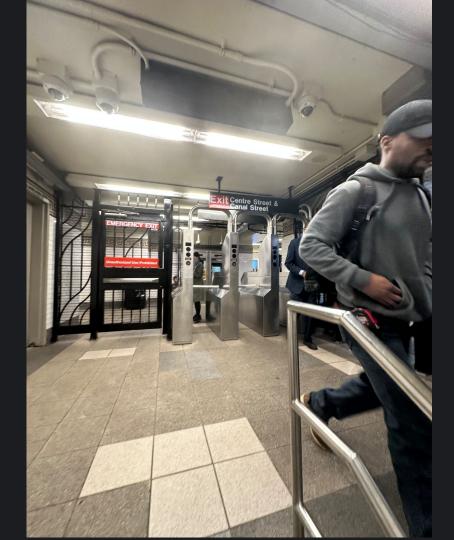




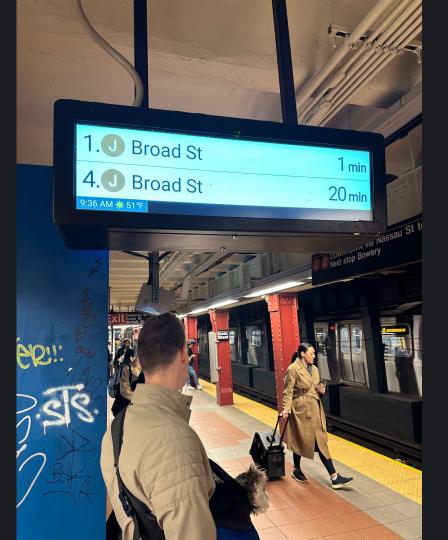








What is Service Design?





Service Design

Service design is a subset of human-centered design. Service design enables organizations to create high quality experiences for both customers *and* providers of the services they interact with.

When you focus only on improving customer service or using new technology, **without improving the supporting systems**, those improvements will actually create **frustrating** experiences.

How we used service design as a part of the COVID-19 response

Account

...

The Coronavirus's Rampage Through a Suburban Nursing Home

Two-thirds of Life Care Center's residents and 47 of its workers fell ill. Thirty-five people died. We investigated what went wrong.

"WE ARE HAVING A RESPIRATORY OUTBREAK"

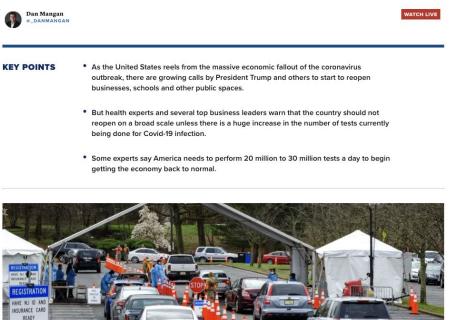
Long-term care facilities were ground zero for the pandemic.

POLITICS

HAVE PHONE NUMBER READY TO DISPLAY

The US economy can't reopen without widespread coronavirus testing. Getting there will take a lot of work and money

PUBLISHED THU, APR 16 2020+3:17 PM EDT | UPDATED THU, APR 16 2020+5:12 PM EDT



				D DHSS Use Only rity 1 O Priority 2			
			OPho	ity 1 O Phonty 2			
	CD	C 2019-nCoV ID:	Form Ap	proved: OMB: 0920-1011 Exp. 4/23/2020			
	PATIENT IDE	TIFIER INFORMATION	IS NOT TRANSMITTED TO CDC				
Patient first n	ame	Patient last name	Date of birth (MM/	/DD/YYYY):			
			IS NOT TRANSMITTED TO CDC				
CDC	Human Ir	fection with 2	2019 Novel Coronavir (PUI) and Case Repo	us			
eporting jurisdiction:		Case	e state/local ID:				
eporting health departm	nent:		2019-nCoV ID:				
ontact ID *:	antions is a known constant of orders	NNC	DSS loc. rec. ID/Case ID b: Using CDC 2019-nCoV ID and sequential contact ID, e.g.	Configurations CAMPORTERS has contacted			
CA102034567 -01 and	CA102034567 -02. ^s For NND5S repo	rters, use GenV2 or NETSS patient id	entifier.	Commission CALOUS 4567 has contacts			
Interviewer i	nformation						
Name of interviewer: L		First					
Affiliation/Organizatior			ne Email				
·		relepho	Ernan				
Basic informa							
What is the current status Patient under investi		Ethnicity: Hispanic/Latino	Date of first positive specimen collection (MM/DD/YYYY):	Was the patient hospitalized?			
Laboratory-confirme	d case	Non-Hispanic/					
Report date of PUI to CDC (MM/DD/YYYY):		Latino	Unknown 🗌 N/A	If yes, admission date 1			
Report date of PUI to CDC	(MM/DD/YYYY):	Not specified	Did the patient develop pneumonia?	(MM/DD/YYYY) If yes, discharge date 1			
Sex:			Yes Unknown	(MM/DD/YYYY)			
Report date of case to CD	C (MM/DD/YYYY):	Male Gamala	□ No	Mine also marine a desider des se			
		Female	Did the patient have acute	Was the patient admitted to an intensive care unit (ICU)?			
County of residence:		Unknown Other	respiratory distress syndrome?	Yes No Unknown			
State of residence:		-	Yes Unknown	Did the patient receive mechanical			
Race (check all that apply) Asian		lian/Alaska Native	research the second second	ventilation (MV)/intubation?			
Black	_	iian/Alaska Native	Did the patient have another diagnosis/etiology for their illness?	Yes No Unknown If yes, total days with MV (days)			
		many estiler racine isidfider	Yes Unknown	in yes, total days with INTV (days)			
White Other, specify:			□ No				
Date of birth (MM/DD/YY	YY):		Did the patient have an abnormal	Did the patient receive ECMO? Yes No Unknown			
Age: Age units(yr/mo/day):			chest X-ray?				
			Yes Unknown	Did the patient die as a result of this illness?			
				Yes No Unknown			
Symptoms present	If symptomatic, onset	If symptomatic, date of	symptom resolution (MM/DD/YYYY):	Date of death (MM/DD/YYYY):			
during course of illness: Symptomatic	date (MM/DD/YYYY):	Unknown symptom status	Date of death (MM/DD/YYYY):				
Asymptomatic	Unknown	Symptoms resolved	, unknown date	Unknown date of death			
Unknown	a worker in the United Stat	es? 🗌 Yes 🗌 No 🗌 U	oknown				
Does the patient have a hi	story of being in a healthca	re facility (as a patient, wor	ker or visitor) in China? 🗌 Yes 🗌 No 🗌	Unknown			
			osures (check all that apply):				
Travel to Wuhan Travel to Hubei		community contact with and ab-confirmed COVID-19 cas		patients with severe acute lower nown etiology			
Travel to mainland C	hina 🗌 /	ny healthcare contact with	another Other, specify:	-0/			
Travel to other non-l specify:		b-confirmed COVID-19 case Patient Visitor	T HCW				
Household contact w	ith another lab-	nimal exposure	Travel Departure Date:				
confirmed COVID-19			Travel Return Date:				
			e? Yes, nCoV ID of source case: Clinical evaluation leading to PUI determ	No Unknown N/			
			n of travelers; if checked, DGMQID				
Contact tracing of case		the second s					
Contact tracing of case	r, specify:						

A STREET, ST.	
11	CDC
24	CDC
Sum	Convenion one Parcentes

CDC 2019-nCoV ID:

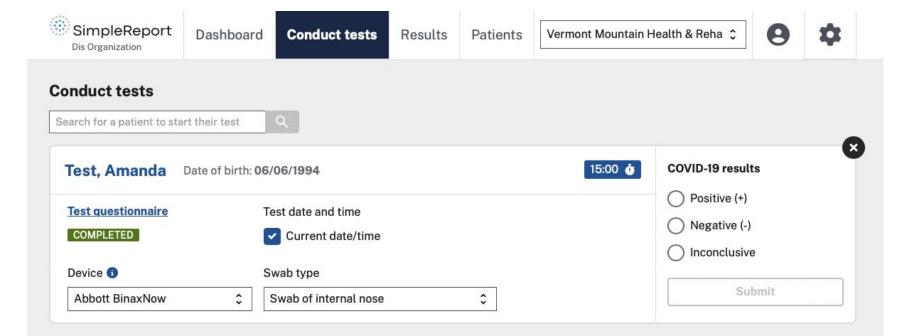
Form Approved: OMB: 0920-1011 Exp. 4/23/2020

Human Infection with 2019 Novel Coronavirus Person Under Investigation (PUI) and Case Report Form

Symptoms, clinical course, past medical history and social history collected from (check all that apply):
Patient interview
Medical record review

uring this illness, did the patient experience any of the following symptoms?				Symptom Present?								
ever >100.4F (38C):							No		Unk			
Subjective fever (felt feverish)					Yes	C]No		Unk			
Chills					Yes		No		Unk			
Muscle aches (myalgia)					Yes		No		Unk			
Runny nose (rhinorrhea)					Yes		No		Unk			
Sore throat							No		Unk			
Cough (new onset or worsening of chronic cough)				Yes	_	No		Unk			
Shortness of breath (dyspnea)							No		Unk			
Nausea or vomiting							No		Unk			
Headache					Yes		No		Unk			
Abdominal pain							No		Unk			
Diarrhea (≥3 loose/looser than normal stools/24	nr period)				Yes	-	No	_	Unk			
Other, specify:			1					-				
re-existing medical conditions?									Yes No	Unknown		
hronic Lung Disease (asthma/emphysema/COPD)	Yes	No	Unknown	n								
liabetes Mellitus	Yes	No	Unknown	n								
ardiovascular disease	Yes	1 No	Unknown	2								
hronic Renal disease	Yes	No	Unknown	n								
hronic Liver disease	Unknown	n										
mmunocompromised Condition	Yes	No	Unknown	n								
ieurologic/neurodevelopmental Yes No Unknow				n	(If	YE	S, specify)_				
Other chronic diseases	Yes	No	Unknowr	wn (If YES, specify)								
female, currently pregnant	Yes	No	Unknown	n								
urrent smoker	Yes	No	Unknown	n								
ormer smoker	Yes	No	Unknowr	n								
espiratory Diagnostic Testing				Sper	imen	s fo	or COVID-	19	Testing			
Test Pos Neg Pend. Not done		Specimen Specim			Speci	me	n Date	Sent to	State L			
1001000 000000000000000000000000000000					Туре		10)	Collected	CDC	Teste	
Influenza rapid Ag 🗆 A 🗆 B				NP	Swat	5						
Influenza PCR 🗆 A 🗆 B				OP Swab								
RSV 🗌				Sputum								
H. metapneumovirus				Ot	her,							
Parainfluenza (1-4)				Sp	ecify:							
Adenovirus												
Rhinovirus/enterovirus				100								
	<u> </u>											
			- H									
Coronavirus (OC43, 229E, HKU1, NL63)		H	H									
Coronavirus (OC43, 229E, HKU1, NL63)												

Public reporting burden of this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. As agency many not conduct or sponser, and a person is not required to respond to a collection of information unless it diaguates a currently vial Oblic Control Intures. Texas Comments regarding this burden estimate or any other aspect of this collection of information including suggestions for reducing this burden to CDC/ATSDR Reports Clearance Officer; \$400 Clifton Read NK, MS D-74 Atlanta, Georgia \$3033; ATTN: PNA (0920-1011).



Case study: Expanding SimpleReport to prepare for the 2021 school year



THE COMEBACK CHICAGO PUBLIC SCHOOLS

Chicago schools are fully reopening for the first time in more than 500 days. Here's what to know.

By Cassie Walker Burke and Mila Koumpilova | Aug 27, 2021, 2:39pm EDT

f 🔰 REPUBLISH



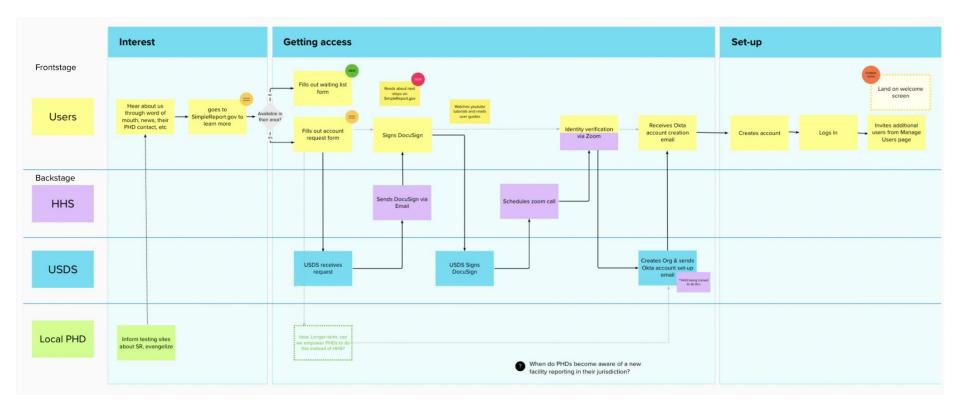
Chicago schools are fully reopening for the first time in 533 days after a scaled-back spring reopening when only a fraction of students returned to compuses. | Max Herman for Chalkbeat

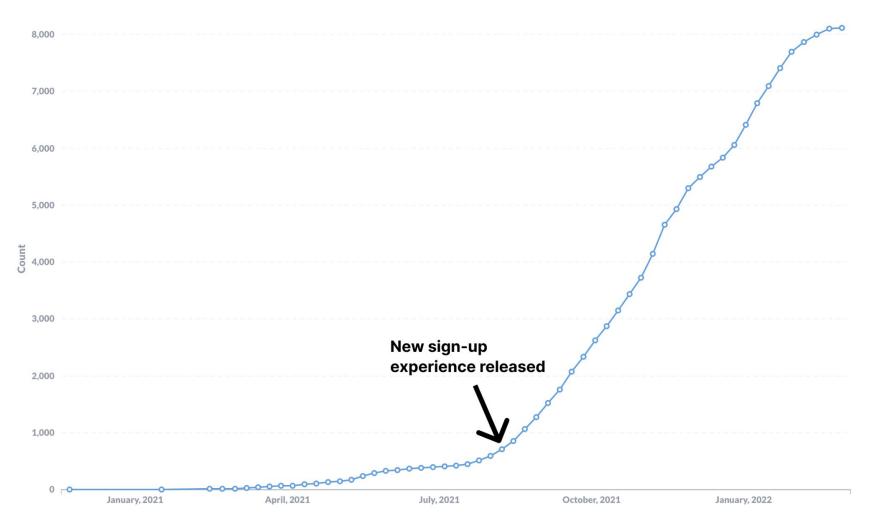


A new school year begins in Chicago Monday. There will be familiar rites of passage - new backpacks, teachers, and classmates - and some unfamiliar ones as schools navigate The fight to rebuild school communities after years of pandemic-era uncertainty. evolving rules amid a pandemic that is constantly changing shape itself. Here's what to know.

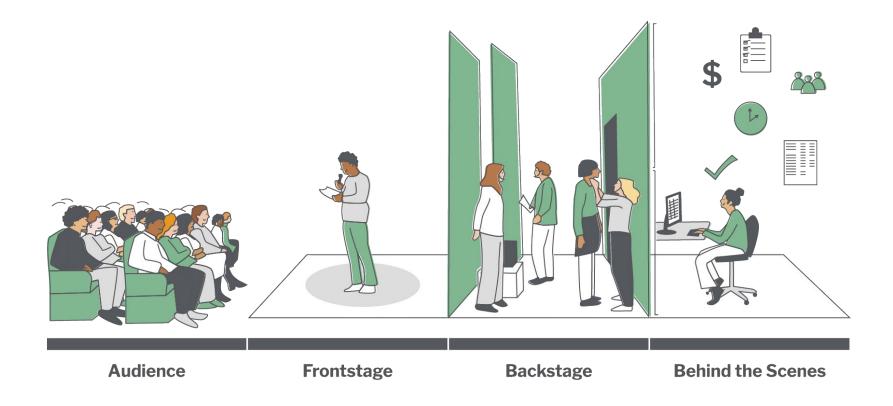
1. Some familiar COVID mitigations will be back - masks, abundant hand sanitizer - but there will be notable

Service blueprint: SimpleReport onboarding (March 2021)





Toolkits & Frameworks



Look out for...

A really **big** problem.

- Lack of knowledge about the customers you serve
- Siloed communication, processes, and systems
- Outdated, fragmented, and insufficient technology systems
- Glacier buzzwords: "Lift and shift, "Single pane of glass," "Digital transformation"

Digital.gov

About Subscribe Write for us Contact



News Events Resources Communities Tools

← All Resources

Checklist of Requirements for Federal Websites and Digital Services

The relevant laws, policies, and regulations for federal agencies.

A Note

You should regularly review your agency's websites and other digital products and services to ensure they comply with all relevant laws, policies, and regulations.

Overarching Policies

These high-level policies cover basic requirements for all websites and digital services. Use this handy Requirements and Go-Live Checklist for Federal Public Websites and Digital Services (Excel spreadsheet, 69 KB, 14 tabs) at to ensure you've addressed all critical requirements.

- 21st Century Integrated Digital Experience Act (21st Century IDEA), including the required website standards, December 2018
- OMB M-17-06, Policies for Federal Agency Public Websites and Digital Services (PDF, 1.2 MB, 18 pages, November 2016)
- OMB Circular A-130, Managing Information as a Strategic Resource (July 28, 2016)
- Digital Government Strategy (May 2012)
- E-Government Act of 2002, Section 207
- See a full list of policies and regulations »
- See our list of Required Web Content and Links »

On this page

508

Overarching Policies Accessibility and Section

Analytics

Coordination During Incidents of National Significance

Copyright

Customer Experience

Design

Domains

Freedom of Information Act (FOIA)

Governance

Information Quality

Mandatory Content

Mobile

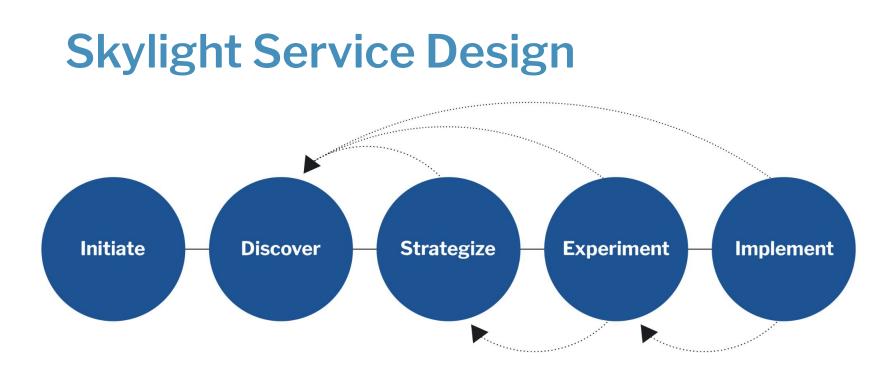
Multilingual Websites

Open Government, Data, and Content

Paperwork Reduction

Performance Measurement and Reporting

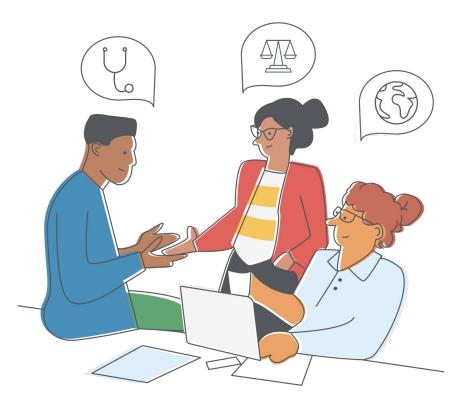
More on 21st Century IDEA 😏



Initiate

What do you need to start a successful project?

Align on the problem space, including goals, vision, constraints, and environmental factors.



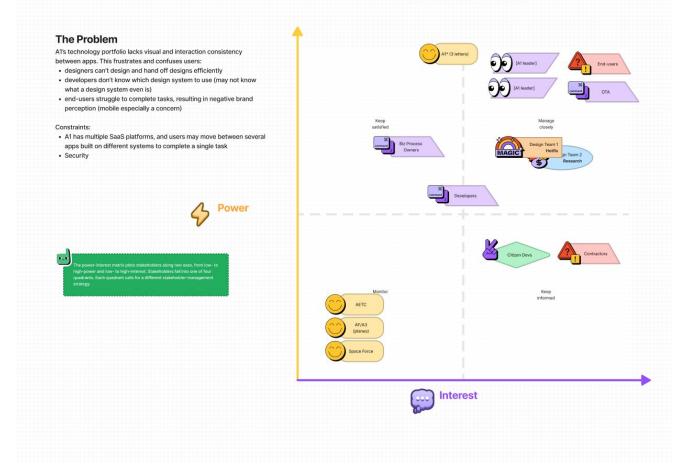
Account

...

The Coronavirus's Rampage Through a Suburban Nursing Home

Two-thirds of Life Care Center's residents and 47 of its workers fell ill. Thirty-five people died. We investigated what went wrong.

The Power-Interest Matrix



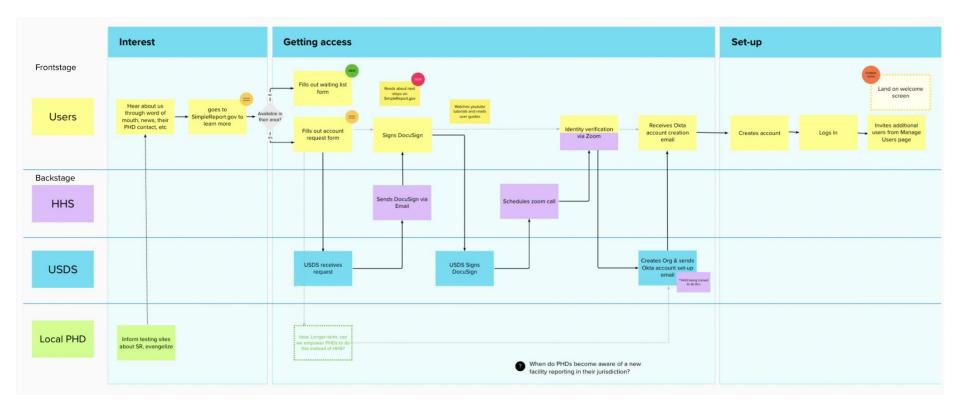
Discover

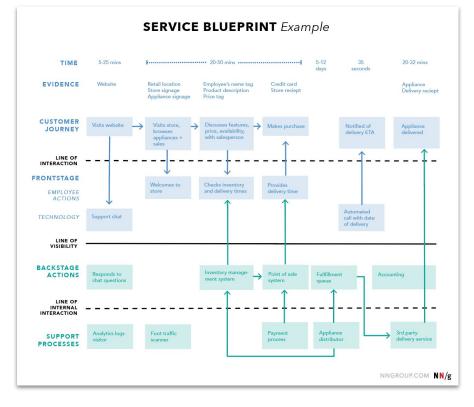
How do you know what to work on?

Develop a **deep understanding** of the systems, people, and activities that make up a service.



Service blueprint: SimpleReport onboarding (March 2021)







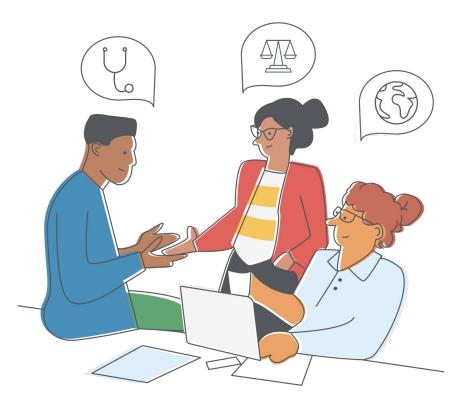
Practical by Design

Nielsen Norman Group

Strategize

How do you know where to start?

Brainstorming a **range** of solution ideas before you narrow in on which ones to **prioritize for experimentation.**





THE COMEBACK CHICAGO PUBLIC SCHOOLS

Chicago schools are fully reopening for the first time in more than 500 days. Here's what to know.

By Cassie Walker Burke and Mila Koumpilova | Aug 27, 2021, 2:39pm EDT

f 🔰 REPUBLISH



Chicago schools are fully reopening for the first time in 533 days after a scaled-back spring reopening when only a fraction of students returned to compuses. | Max Herman for Chalkbeat



A new school year begins in Chicago Monday. There will be familiar rites of passage - new backpacks, teachers, and classmates - and some unfamiliar ones as schools navigate The fight to rebuild school communities after years of pandemic-era uncertainty. evolving rules amid a pandemic that is constantly changing shape itself. Here's what to know.

1. Some familiar COVID mitigations will be back - masks, abundant hand sanitizer - but there will be notable

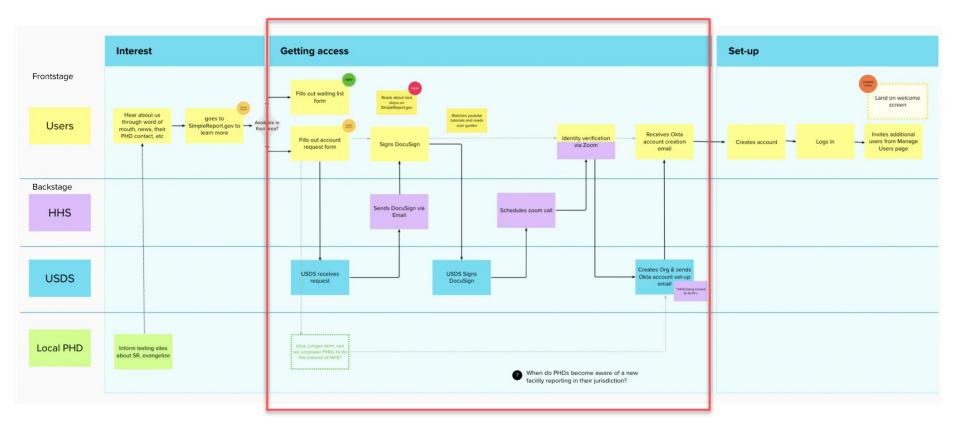
Experiment

How do you know what to build first?

Through prototyping and testing, **evaluate and reshape ideas** before you implement solutions.



Service blueprint: SimpleReport onboarding (March 2021)

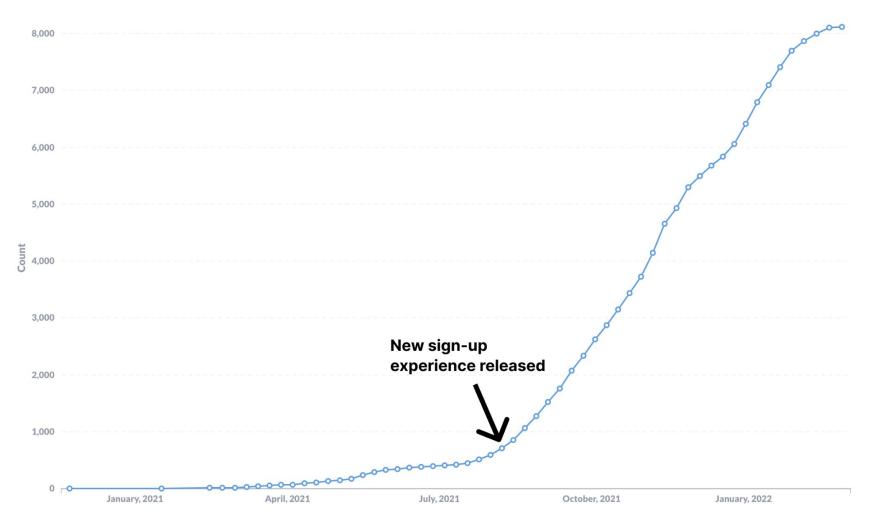


Implement

How do you make it happen?

Plan for any changes that your solutions require and begin to **roll them out**. Set up **metrics** to measure and improve the service.





What can you do now that you couldn't do before?

Summary:

Phases of Service Design

1. Initiate

Align on the problem space, including goals, vision, constraints, and environmental factors

2. Discover

Plan. Research, analyze, and synthesize. Socialize findings and artifacts

3. Strategize

Generate solutions; prioritize and plan; future visioning

4. Experiment

Create prototypes and tests to select the best solution, and iterate with user feedback

5. Implement

Actualize solutions and continue to measure, test, and refine

Skylight

Company Work Careers Thoughts Connect



Service design overview

Service design overview

The Skylight Service Design Framework	When the U.S. Air Force's Weather Systems Program Office (WxPO) asked Skylight to
Phase 1: Initiate	help them upgrade their services to the cloud, it had a simple brief: Ensure a great initial customer experience for service members and application development teams
Phase 2: Discover	onboarding onto the new cloud platform.
Phase 3: Strategize	As Skylight began to examine the pieces that made up customer experience $-$
Phase 4: Experiment	specifically, how service members and application teams interacted with the cloud
Phase 5: Implement	platform — we discovered it wasn't so simple to build a great customer experience. Beyond onboarding, there were many factors at play in the successes and failures of
Appendix A: Methods	the WxPO's technology migration, including how roles were structured, work
Appendix B: Templates	processes, communication materials, and more.
Appendix C: Glossary	Enter service design.

What service design is

Service design enables organizations to create sustainable and high-quality experiences for both customers and the providers of the services they interact with. Using a set of principles, activities, and methods, the discipline takes a holistic look across a service ecosystem. This includes the "frontstage" (what a customer sees) and the "backstage" (behind-the-scenes organizational structures).

Questions?

Break!

Back at XX:XX

Stakeholder Mapping

Get a worksheet packet from Victor while Liz gives an overview

Workshop Goals

Shift our perspective from "product" to "service" by:

- Building an understanding of stakeholder mapping and analysis
- Learning techniques that will help us better consider who should be at the table
- Participating in a simple activity to practice what we've learned

Part 1: Warmup

~5 min

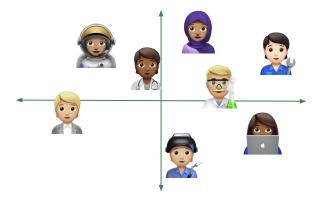
Packet page 1

- Think about a project you're working on.
 - In a nutshell, what's the project about?
- Quickly jot down all the stakeholders you think are or should be involved in your project.
 - Consider: Team members, project partners, communities, subject matter experts, other decision makers or influencers, etc.

What is stakeholder mapping?

Definition Breakdown





Stakeholders

Stakeholders are individuals or a group who are <u>involved in</u> or <u>affected</u> <u>by</u> the development, design, and/or outcome of a project.

Stakeholder Mapping

Stakeholder mapping is the activity of visually articulating an analysis of the individuals or groups involved in a project.



Analyzing:

Identifying and understanding your stakeholders, their relationship to one another, and their power and influence on the project

Mapping:

Visually representing your stakeholder analysis in a digestible way

Managing:

Building, engaging with, and taking care of your stakeholder relationships

Why do it?

Why do it?

Stakeholder mapping and analysis...

- Allows you to better assess the scope of your project early on in the process
- Gives us a quick and comprehensive view of who is involved in our project
- Helps us better assess stakeholders who might be missing
- Serves as a tool for transparency
- Enables us to start considering the larger systems and dependencies that may influence the project
- Enables buy-in from key decision-makers (leadership)
- Helps build trust and ownership with the end user / communities

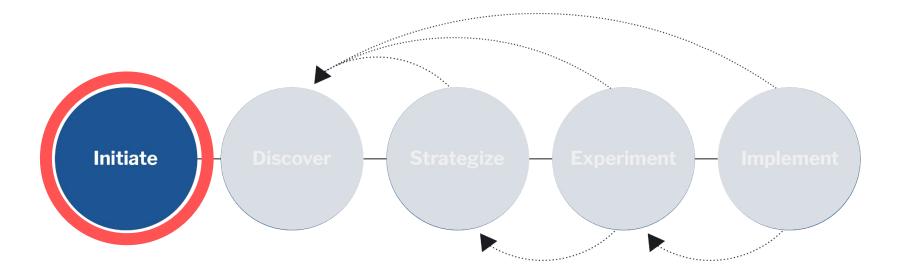
Partnerships and relationships are strengthened through ongoing and meaningful engagement. Investing in these relationships respectfully and with honesty is crucial to

building successful and sustainable programs, services, and products for our communities.

-Mari Nakano

When should we do it?

Skylight's Service Design Framework



Source: https://skylight.digital/work/toolkits/service-design-framework/the-skylight-service-design-framework/

Who should participate in creating a stakeholder map?

It depends!

Who should participate?

Some questions to consider:

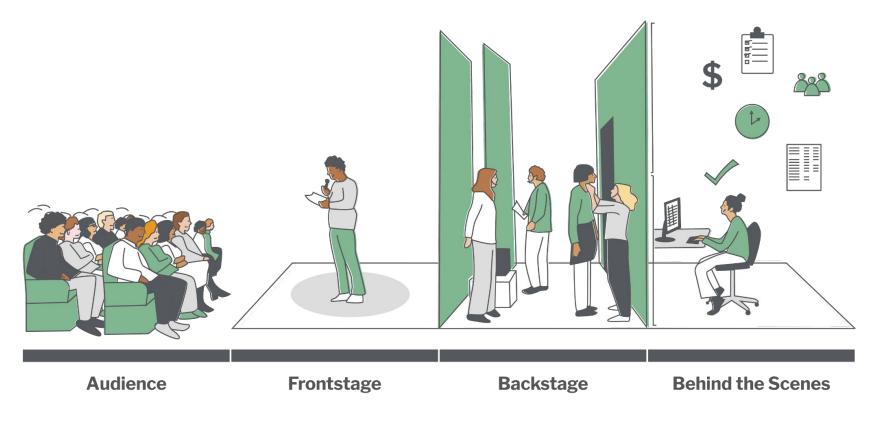
- What are your project's values?
- How involved or uninvolved do you want your stakeholders to be? Why?
- Do you and your team believe participation is an ingredient for success?
- Are you willing and ready to take on the responsibilities of managing multi-stakeholder relationships?
- Do you have a diverse range of mindsets, perspectives, and experiences in the room?

Common Participants

- Balanced project team (researchers and designers, engineers, product managers, etc)
- Architects or senior subject matter experts
- Customer Support/Success
- Marketers
- Relevant leadership
- End-users or others who will use what you build
- Customers

Who should be included in our stakeholder maps?

It depends!



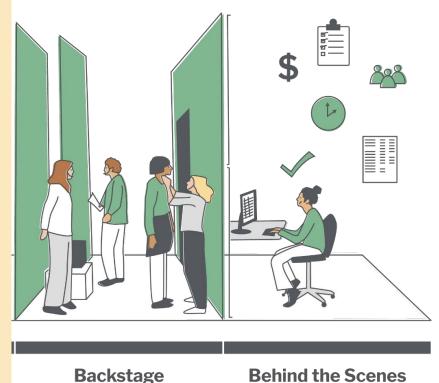
Source: https://skylight.digital/work/toolkits/service-design-framework/

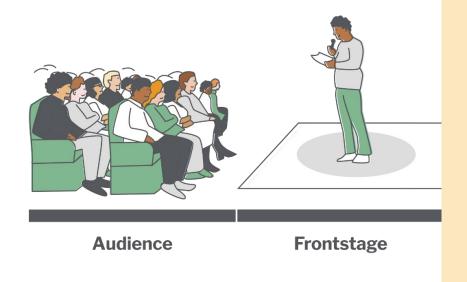
Backstage / Behind the Scenes

Those who support the delivery of the product or service (and who are not usually visible to the frontstage)

For example:

- Operations + Administrative teams
- Data scientists, engineers
- IT teams
- Legal
- Communication teams
- Funders
- Policy makers
- Subject matter experts





Frontstage / Audience Those who will receive, use and/or deliver the service

For example:

- Program administrators / frontline staff
- Facility staff (for location-based services)
- Customers / clients / users / community members
- **Customers / clients / users / community members' support networks** (eg. family, friends, social service orgs, community navigators, etc.)
- The broader public audience

DON'T FORGET TO ASK YOURSELVES Who is not at the table? Who's missing?

(and why?)

Inclusive

Consider who is involved in the frontstage and backstage. Aim for equitable representation and diversity.

Exhaustive

Zoom out and think about your end to end process and the larger systems at play.

Specific ——• Get beyond types and identify actual people.

Content adapted from Service Design Studio, NYC Mayor's Office for Economic Opportunity

Part 2: Revise Your List ~5 min

Packet page 2

- 1. Review the list of stakeholders you made during our warm-up.
- 2. Add to or edit your list of stakeholders.
 - a. Who is missing from the table? Why?
 - b. Is your list inclusive, exhaustive, and specific?
 - c. Who would you want to ask for help fleshing out your list?

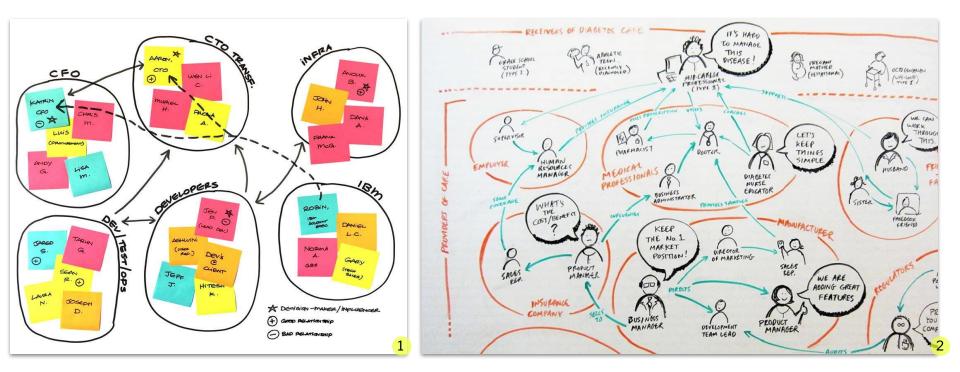
Ways to Map

Part 3: Let's Map! ~10 min Packet page 2, 4-10

Add stakeholders to one of the map templates on pages 4-10 of the handout.

If you need help deciding, pick a template using the first letter of your LAST NAME:

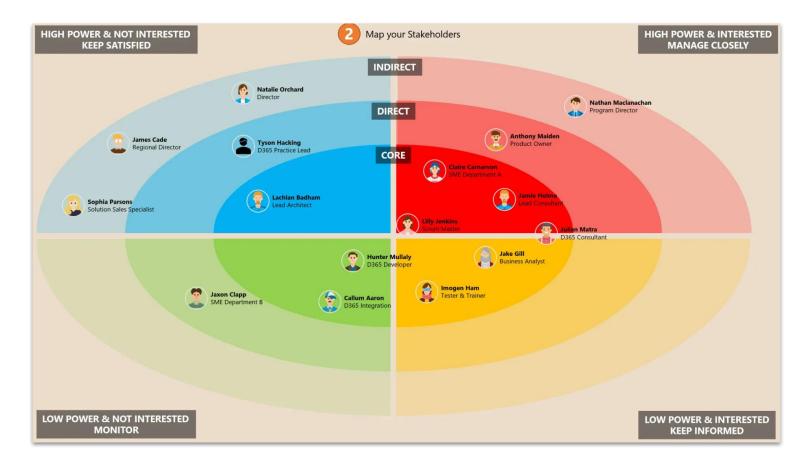
- 1. A-D: Use template A, List
- 2. E-I: Use template B, Influence/Interest Matrix
- 3. J-M: Use template C, Power/Influence Matrix
- 4. **N-R:** Use template D, Stakeholder Types
- 5. S-V: Use template E, Awareness/Support matrix
- 6. **W-Z:** Use template F, Aim for the Bullseye
- 7. Wildcard/"Not a rules-follower" option: Try template G, FOMO Scale



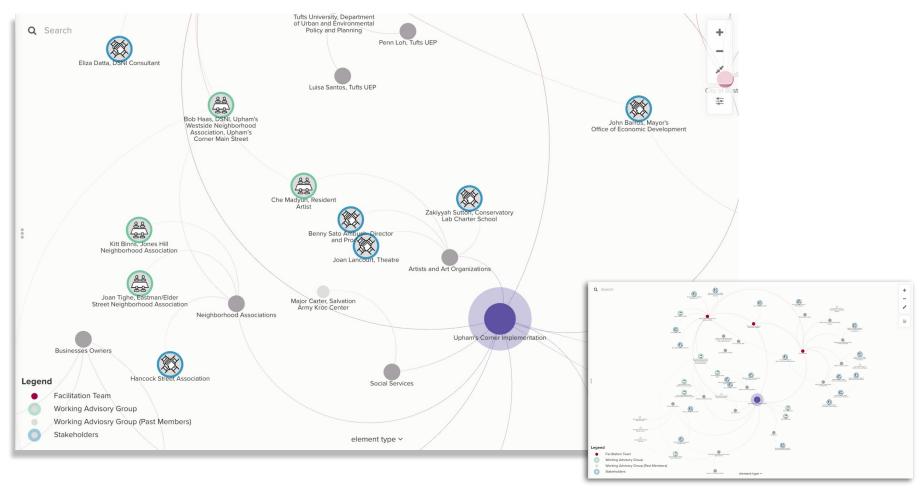
Sources:

1. https://www.ibm.com/design/thinking/page/toolkit/activity/stakeholder-map

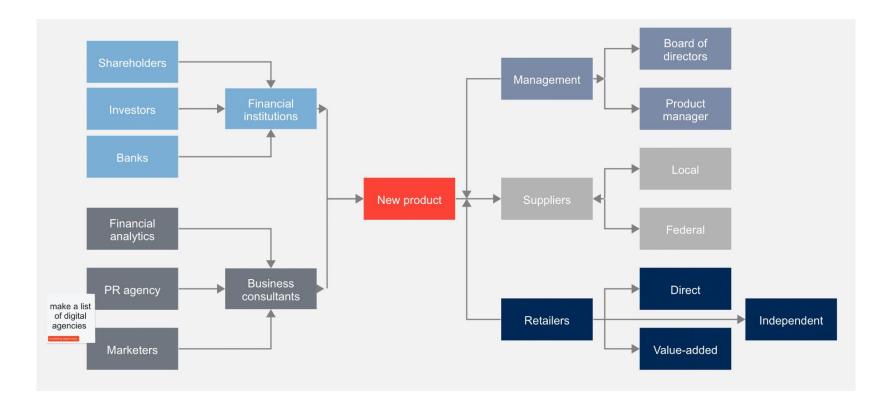
2. Naude, David | https://medium.com/dawidnaude/problem-solving-methods-i-use-stakeholder-mapping-5e9dbcbc7079

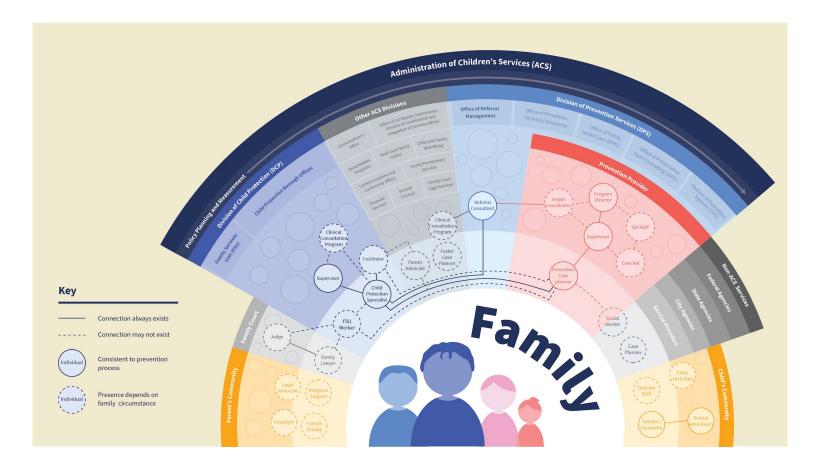


Source: Kahil, Dani | https://danikahil.com/2021/03/stakeholder-mapping-for-dynamics-365-or-power-platform.html/



Source: https://sites.tufts.edu/uit/stakeholder-map/





Source: NYC Mayor's Office for Economic Opportunity, Service Design Studio

Part 4: Reflect & Share

~5 min

Packet page 3

- 1. What impressions or observations can you share about how your exercises evolved today?
- 2. What's one takeaway you have from today?
- 3. Do you have any general impressions or questions of today's session?

Thank you!



Victor Zapanta Principal User Researcher Skylight

victor@skylight.digital



Liz Fox Design Studio Delivery Manager BESPIN Software Factory, USAF

elizabeth.fox@teambespin.us



Join Agile Alliance today!

Become an Agile Alliance member and help support our non-profit mission, while gaining access to valuable benefits like online events, in-person conference discounts, and event session videos.



#AGILE2023