Technology & Supporting Recovery from Substance Use Disorders

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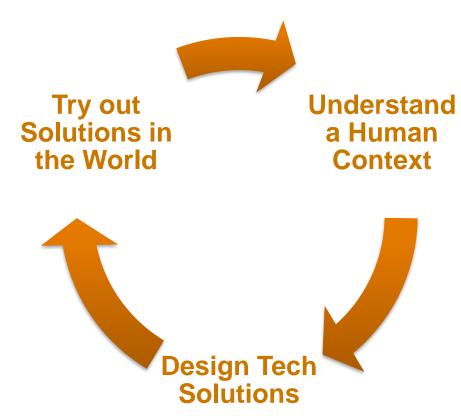
About Me

University of Maryland

Georgia Tech AT&T Labs Research University of Minnesota







Overview of My Work



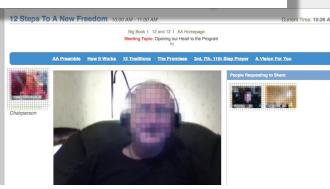




Designing Technology to Support Human Relationships



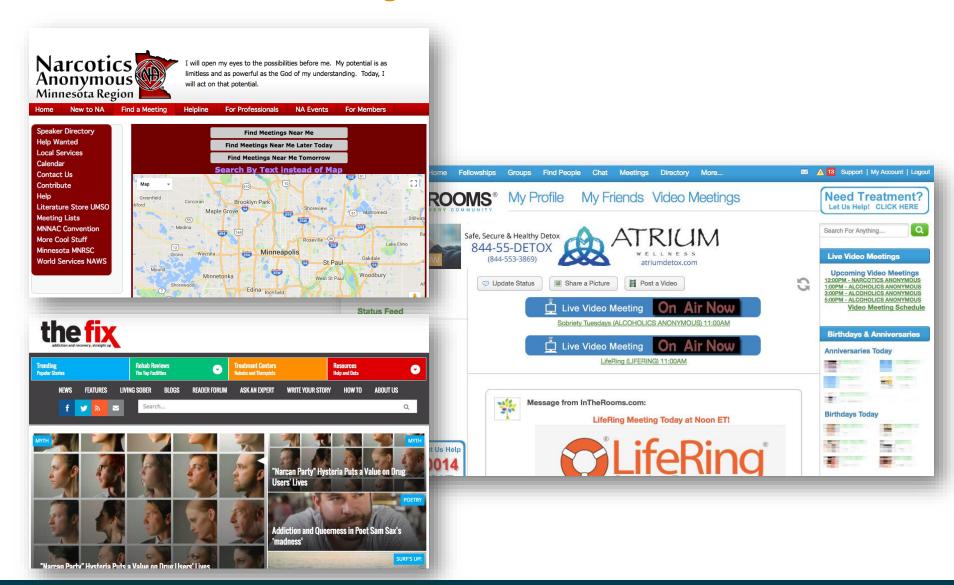




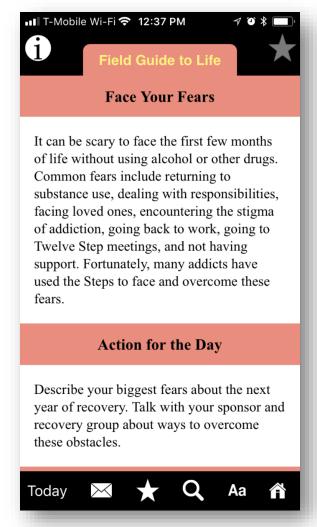
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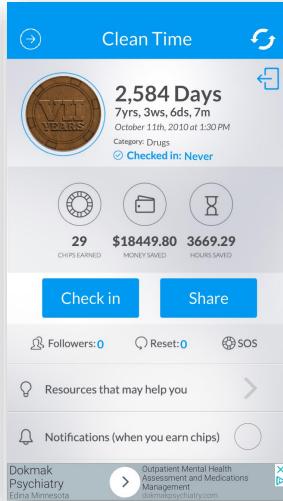
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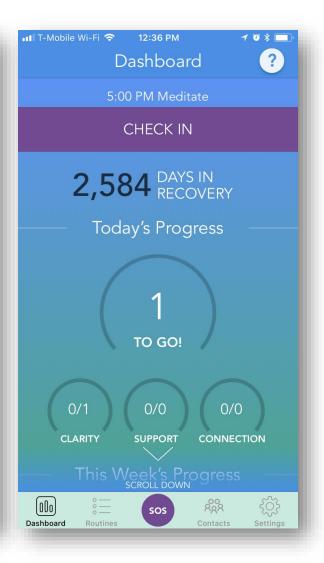
Current Technologies: Dedicated Websites



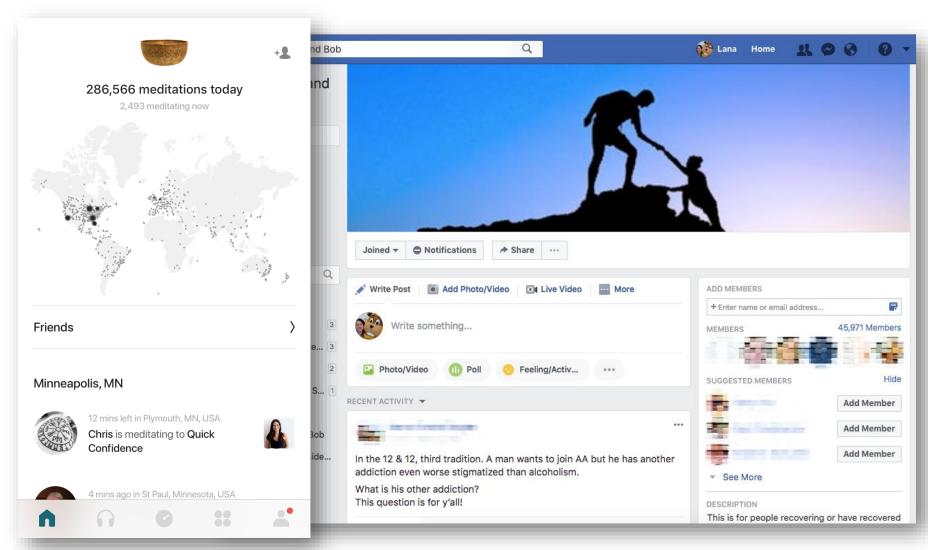
Current Technologies: Dedicated Apps







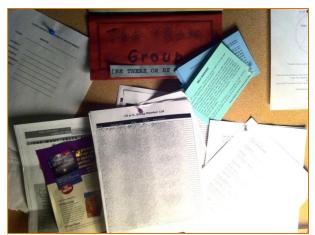
Current Technologies: Adapting Tech

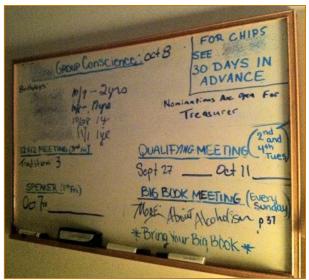


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Methods

- » 6 months of participatory observation:
 - 132 open AA and NA meetings
 - 18 organization service meetings
 - Documented artifacts and current technologies used
- » In-depth interviews
 - 12 recovering addicts and alcoholics
 - 2–28 years of continuous recovery





Findings: Technology Use Is Still Contentious!

"Recovery has dealt with shifting dynamics since its inception ... introduction of technology is nothing more than that same **shifting dynamic** ... Or, you can choose to take the other side of the argument that technology is breaking traditions and the traditions of NA are sacred and you will have nothing to do with it."

Findings: Main Concerns!

- Can anonymity as a spiritual principle be preserved online?
 - Protect the individual and the program
 - Resistance to persistent identity
- » Will technology exclude people from recovery?
- » Is it possible to really connect online? Will it replace face-to-face contact?
 - Concerns about building consensus
 - Face-to-face contact and touch are important
 - Putting in the effort is part of recovery

Findings: Main Concerns!

- » Can anonymity as a spiritual principle be preserved online?
 - Protect the individual and the program
 - Resistance to persistent identity
- » Will technology
- Is it possible to face contact?

"When I go to a meeting, there is the opportunity to see and be seen, be a part of a fellowship ... I go through a day without touching anyone, but then you go to a meeting and you get to hold people's hands. That's **real** recovery."

- Concerns about parameter
- Face-to-face contact
- Putting in the effort is part of recovery

Svetlana Yarosh. 2013. *Shifting Dynamics or Breaking Sacred Traditions?: The Role of Technology in Twelve-step Fellowships. CHI*, ACM, 3413–3422.

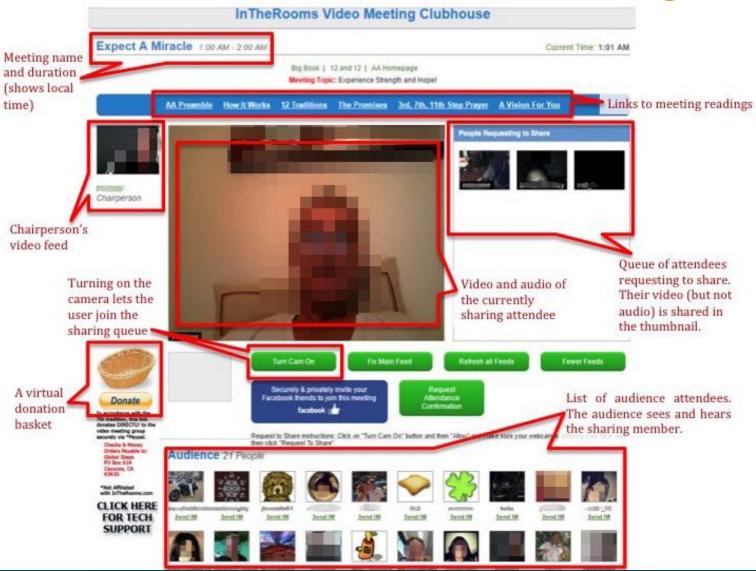
http://doi.org/10.1145/2470654.2466468

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Methods

- » Questionnaire distributed on InTheRooms.com (N = 285)
 - Demographics and recovery background
 - Modified Alcoholics Anonymous Involvement scale
 - Experience in online / offline meetings
 - Perceptions of privacy and anonymity
- » Interviews with volunteers from questionnaire (N = 14)
- » Quantitative analysis of 28,490 active profiles

What Is an Online Meeting?



Who Attends Online Meetings?

Offline Only Average Attendee (n = 64)

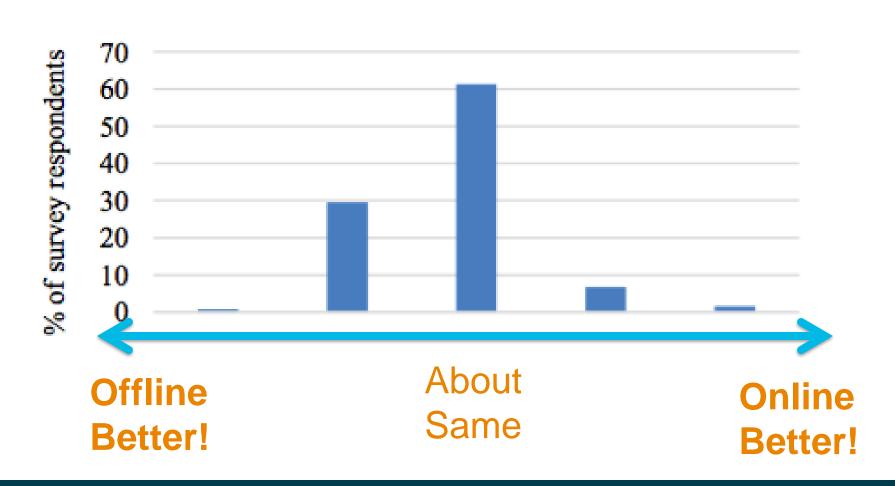
49 years old Woman (68%) 12 years in recovery 15 meetings/month Online Only Average Attendee (n = 43)

56 years old Woman (65%) 8 years in recovery 19 meetings/month

Both Types Average Attendee (n = 148)57 years old Woman (57%) 8 years in recovery 27 meetings/month

> Created by Stephane Thomas from Noun Project

Are Online Meetings Helpful?



Are Online Meetings Helpful?

"...you get the ability to hear from people from east to west coast, all over the world, different perspectives about the program as it is in different places—the variety of experience, strength, and hope is far greater."

"To me that physical contact is really really important. It makes me feel human."



NO!

"...a combination of the [online an offline] really is the best, then you get the best of both worlds."

Sabirat Rubya and Svetlana Yarosh. 2017. *Video-Mediated Peer Support in an Online Community for Recovery from Substance Use Disorders. CSCW*, ACM, 1454–1469.

https://doi.org/10.1145/2998181.2998246

What "Anonymity-Busting" Info Do People Share Online?

- » First name? 15.8%
 - Probably real first names

- » Last name? 1.3%
 - Probably not real last names even when shared

» Photo that shows a face? 22.6%

Paradox of "Anonymity"

Anonymity (in Computing) ≠ Anonymity (in Recovery)

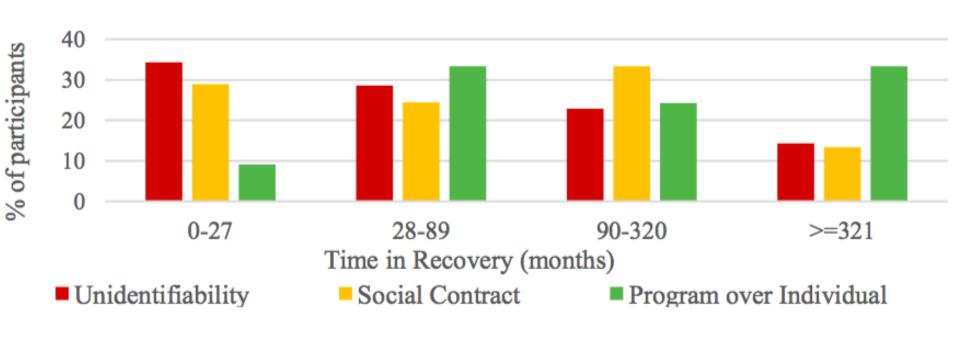
The Three Aspects of Anonymity

» Unidentifiability – control over disclosure of name & recovery status

» Social Contract – "what happens in meetings, stays in meetings"

» Program over Individual – humility, equality, protecting the program

Unidentifiability Less Important With More Recovery Time



Sabirat Rubya, and Svetlana Yarosh. *Interpretations of Online Anonymity in Alcoholics Anonymous and Narcotics Anonymous. PACM on Human-Computer Interaction, 1, 2*, Article 91 (November 2017).

https://doi.org/10.1145/3134726

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Future Tech: Supporting Existing Practices

- Enhance what's already working!
 - Meetings
 - Sponsorship
 - Service and Peer-Support

Meeting Title	Location	Address	Day	Time	Fellowship
Saint Christophers Episcopal Church	Saint Christophers Episcopal Church	2300 Hamline Avenue North Roseville, MN 55113	TUESDAY	10:00 AM	Overeaters Anonymous
St Christopher's Episcopal Church	St Christopher's Episcopal Church	2300 North Hamline Avenue Roseville, MN 55113	SATURDAY	8:00 AM	Overeaters Anonymous
Falcon Heights United Church Of Christ	Falcon Heights United Church Of Christ	1795 Holton St N Falcon Heights, MN 55113	SATURDAY	8:00 AM	Overeaters Anonymous
Presbyterian Church Of The Way	Presbyterian Church Of The Way	3382 N Lexington Ave Shoreview, MN 55126	TUESDAY	7:00 PM	Overeaters Anonymous
Twenty-Four Hour Group	Nativity Lutheran Church-South Parking Lot/Door 2	3312 Silver Lake Rd Minneapolis, Northeast, 55418	TUESDAY	7:15 PM	Alcoholics Anonymous
the Firing Line	Knox Presbyterian Church	1536 Minnehaha Avenue West saint paul, MN 55104	SUNDAY	5:00 PM	Alcoholics Anonymous

Future Tech: Expanding Access

- » Helping those who can't get to help:
 - Jails, hospitals, & institutions
 - Limited mobility & disabilities

» In-the-moment help networks & tools

Future Tech: Beyond a Screen

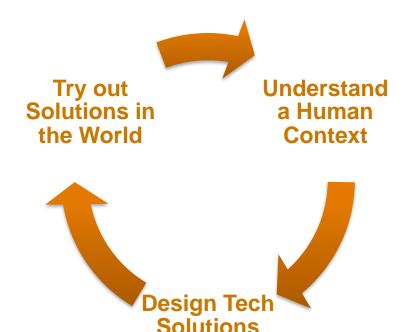
- » Recovery devices that live in the world with you:
 - Wearables
 - Smart appliances





Future Tech: ???

You and your clients can have a say!



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Talking Points for Patients

- Technology is just another place / community / tool:
 - Is it safe?
 - Is its primary purpose compatible with recovery?
 - Is there value gained?
 - Is it replacing something of greater value?

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