

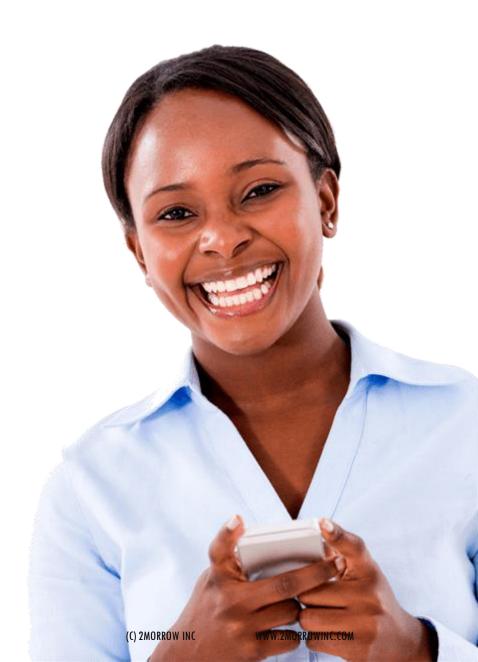
THE NEED

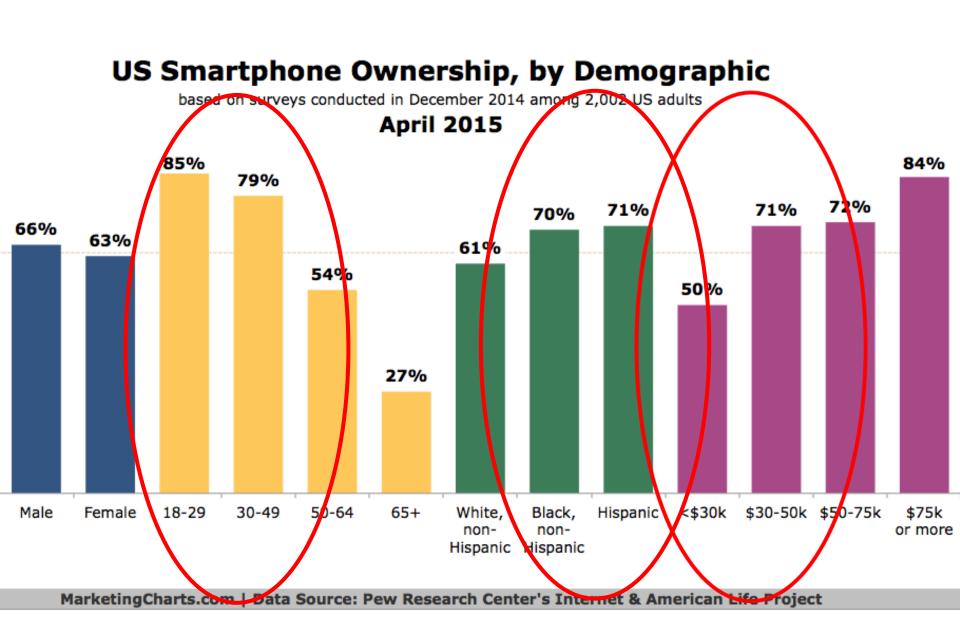
- Nationally ~18% smoke
- Largest cause of death, disease & spending
- Over ½ want to quit
- Most don't access programs
- Hard to reach groups
- Cost pressures
- Data



THE POTENTIAL

- Reach
- Easy Access
- Always with you
- Private Personalized
- Cost effective
- Data and Learning





ACCESS TO INFORMATION



63% of low income Smartphone users use their phones to find or access health info. (PEW)



MOBILE - ALREADY A HABIT

Over 50% of Smartphone users check their phones at least hourly.

Most will go home if they forget their phone.

Preferred format: Smoking Cessation

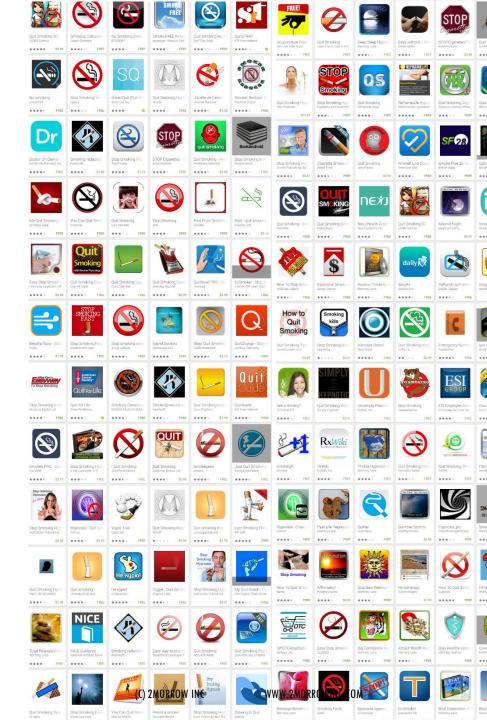


- 83% app
- 17% telephone coaching



THE CHALLENGES

- Over 600 apps
- Research & efficacy
- Data security
- Privacy / HIPAA
- Integration with current programs
- Reporting & Data



THE RESEARCH

Published studies:

- ACT-based smartphone app
- Text Messaging



- Sensing Movement
- Apps for Youth & Games
- Mobile carbon monoxide monitors
- Mindfulness-based program
- ACT, SmartQuit (LSDF & large NIH study)
- SmartQuit plus NRT VS NRT alone



CUTTING EDGE RESEARCH

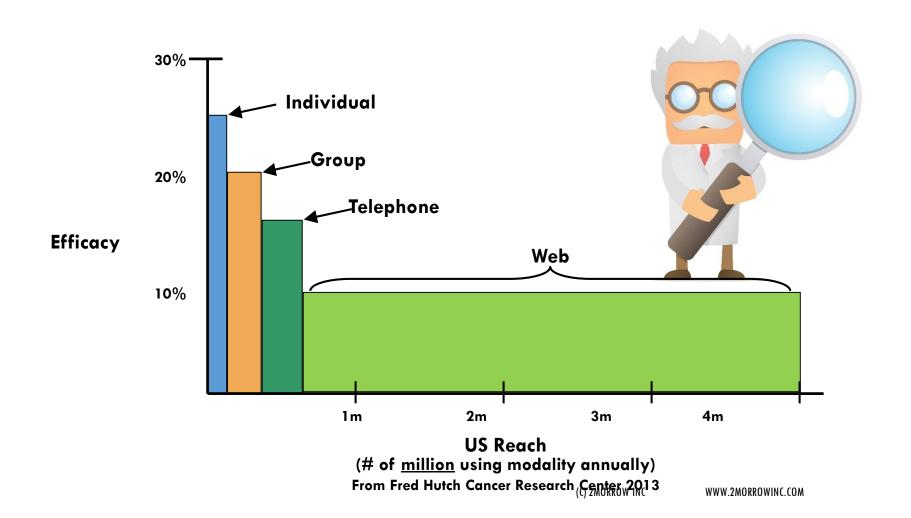


Dr. Jonathan Bricker – a leading behavioral scientist at Fred Hutch Cancer Research Center in Seattle

- \$13 Million NIH Grants for ACT smoking cessation studies
- 6 Published Studies
- Over 50 research publications
- Over 300 interviews including: NYT, Washington Post, CNN & NPR
- TEDx Talk



US CESSATION TREATMENT: REACH & EFFICACY



THE SMARTQUIT STUDY (1.0)

Can an ACT-based smoking cessation program help smokers when delivered over a smartphone?

Collaboration:







STUDY DESIGN

Randomized Control Trial testing an Acceptance and Commitment Therapy (ACT) based programs against the current approach (CBT).

- Randomized Control Trial
- 200 smokers
- 100 per arm (app)
- 70 day follow-up
- Intent to treat 30 day PP



WANT TO QUIT? TRY THIS APP.



70-Day

Screened: 738 Eligible: 400 Consented: 340 Confirmed by phone: 205 Randomized: 196 Smart Quit: 98 Control (Quit Guide): 98 70-Day Follow-up: 80 Follow-up: 84

(C) 2MORROW INC

WWW.2MORROWINC.COM

USAGE & SATISFACTION

	Control	SmartQuit
Number of times opened app	15.2	37.2
	Control	SmartQuit
Satisfied overall	45%	59%
App was organized	67%	85%
App useful for quitting	38%	53%

70-DAY FOLLOW UP - QUIT RATES (30D PP)

	None*	Control App	SmartQuit (ACT)
Quit Rate	4-7%	8%	13%

2MORROW INC

WWW.2MORROWINC.COM

Notes:

- Intent to treat quit rates (not response)

- No NRT or meds provided

- Limited by study size and length, larger, longer study in progress

^{*}per cancer.org

70-DAY FU QUIT (30D PP): KEY SUBGROUPS

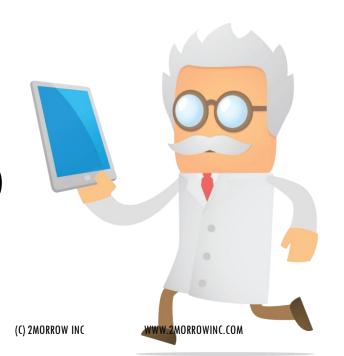
Baseline Subgroup	Control	SmartQuit
Pack-A-Day or More	6%	11%
Avoidance of Cravings	8%	15%

WHAT WE LEARNED

- The app appears to help smokers quit
- Most helpful included: ACT exercises, Quit Plan...
- Least helpful: Some things users liked, did not help
- Usage dropped off
- Usability (UI) matters

Next Steps:

- Second study
- Distribution to smokers (2Morrow)
- UI Usability improvements
- Expand what helped
- Re-think what did not



SMARTQUIT 2.0

Version 2.0 funded by a Life Sciences Discovery Fund.



- Research-based improvements
- Improved User Interface
- Distribution model
- Dashboard
- Security/HIPAA
- Launch
- 2nd Study



STILL THE WILD WEST — THE EARLY DAYS



- Smokers are already downloading apps
- Research is needed and underway
- We don't know what we don't know without testing and trial
- Risk vs Reward

LESSONS FROM THE WEST

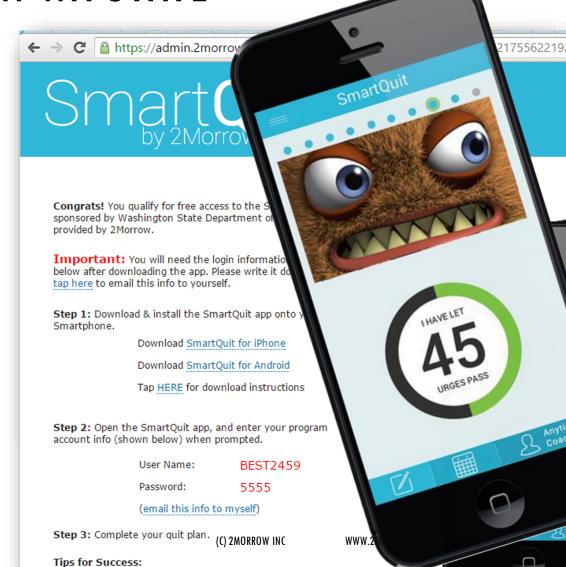
Q & A: with Joella Pyatt
Washington State Department of Health

- Why was WA interested in an app?
- What were the goals?
- What were the concerns?



HOW IT WORKS IN WA STATE

- Promotion
- Online Sign-upSurvey
- Authorization
- Download / Login



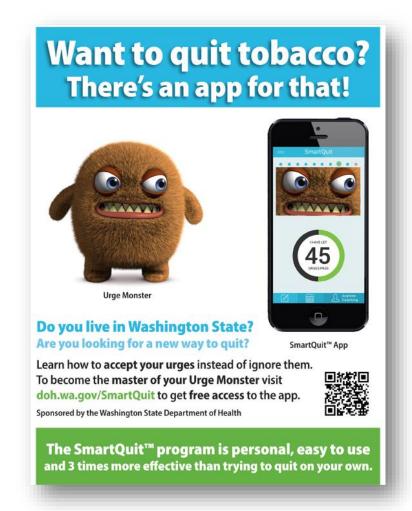


WA STATE COLLECTED DATA

First 5 months

WA LAUNCH, THE FIRST 5 MONTHS

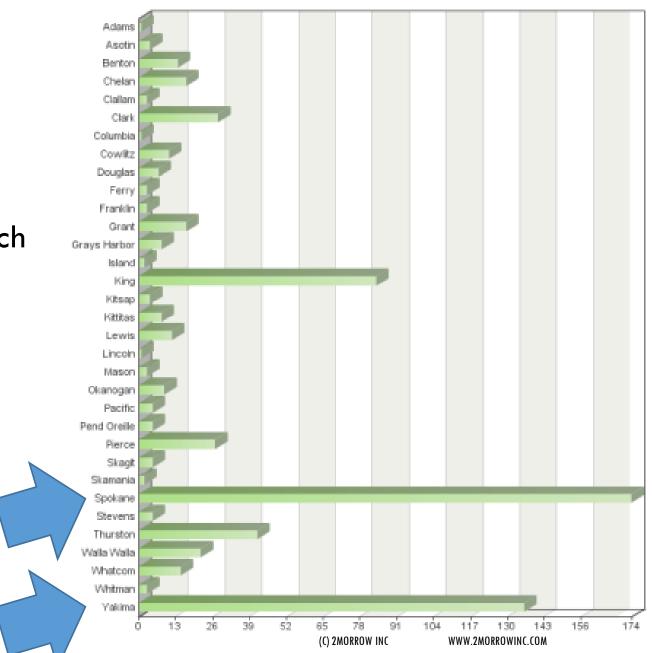
- 1314 Sign-up form
- 1251 Qualified (WA)
- 501 Activated Apps



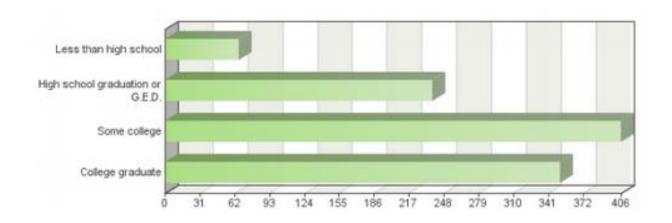
REACH BY LOCATION

Expanded reach in Eastern WA.

- 1. Spokane
- 2. Yakima
- 3. King



EDUCATION



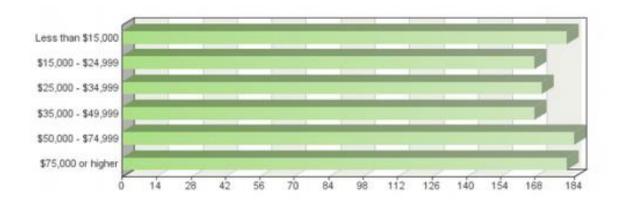
Frequency table

Choices	Absolute frequency	Relative frequency	Adjusted relative frequency
Less than high school	66	5%	6.21%
High school graduation or G.E.D.	238	18.04%	22.41%
Some college	406	30.78%	38.23%
College graduate	352	26.69%	33.15%
Sum:	1062	80.52%	100%
Not answered:	257	19.48%	

Total answered: 1062

HOUSEHOLD INCOME

What is your household income?



Frequency table

Choices	Absolute frequency	Relative frequency	Adjusted relative frequency
Less than \$15,000	181	13.72%	17.19%
\$15,000 - \$24,999	168	12.74%	15.95%
\$25,000 - \$34,999	171	12.96%	16.24%
\$35,000 - \$49,999	168	12.74%	15.95%
\$50,000 - \$74,999	184	13.95%	17.47%
\$75,000 or higher	181	13.72%	17.19%
Sum:	1053	79.83%	100%
Not answered:	266	20.17%	
Total answered: 1053	(C) 2MORROW INC	WW	W.2MORROWINC.C

RACE & ETHNICITY

White	83%
Hispanic	5%
Other	3%
Black/African American	3%
Asian	3%
Native American	2%



SEXUAL ORIENTATION

Heterosexual	90%
Gay or Lesbian	4%
Bisexual	3%
Transgender	<1%
Other/Don't Know	3%

Frequency table

Choices	Absolute frequency	Relative frequency	Adjusted relative frequency
Heterosexual or straight	953	72.25%	89.91%
Gay or Lesbian	41	3.11%	3.87%
Bisexual	33	2.5%	3.11%
Transgender	3	0.23%	0.28%
Other	15	1.14%	1.42%
Don't know	15	1.14%	1.42%
Sum:	1060	80.36%	100%
Not answered:	259	19.64%	

Total answered: 1060

PREGNANCY

Pregnant 24

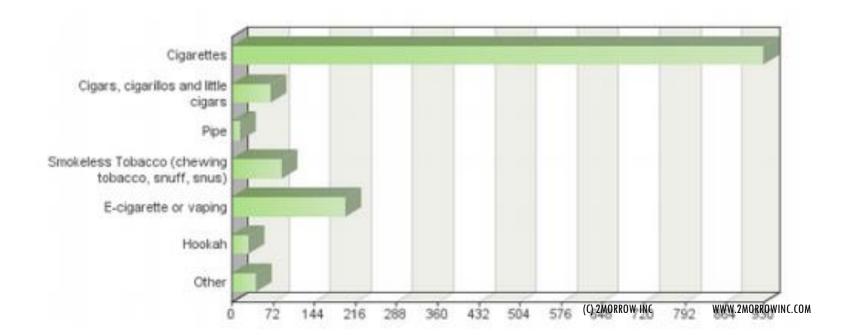
Who plan to become pregnant 27 in next 3 months

Who are 10 breastfeeding



TYPE: CIGARETTES (THEN E-CIGS)

- 1. Cigarettes
- 2. Vaping / e-cigs
- 3. Smokeless

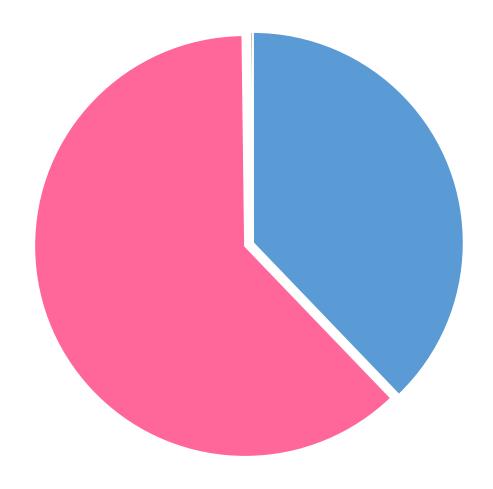




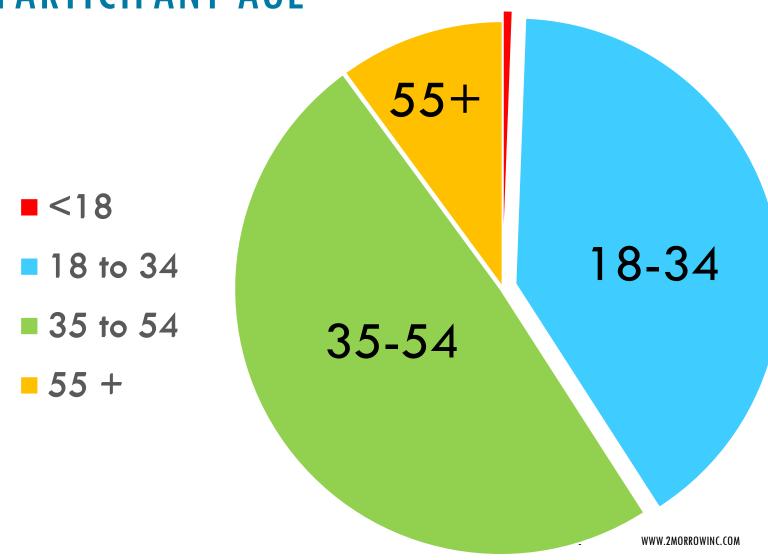
WA STATE APP COLLECTED DATA

First 5 months

PARTICIPANT GENDER



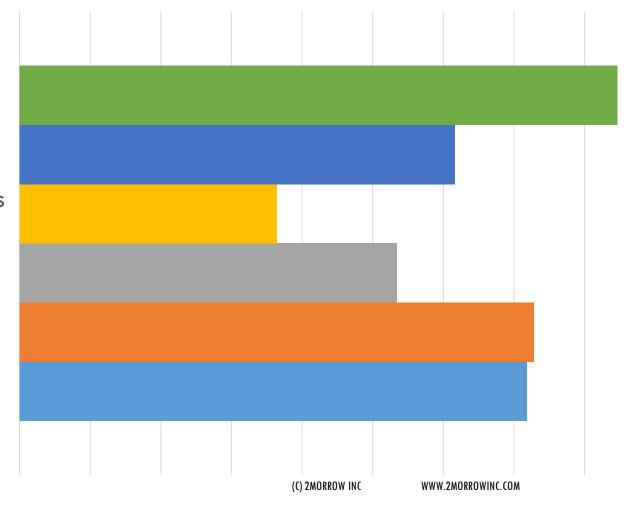




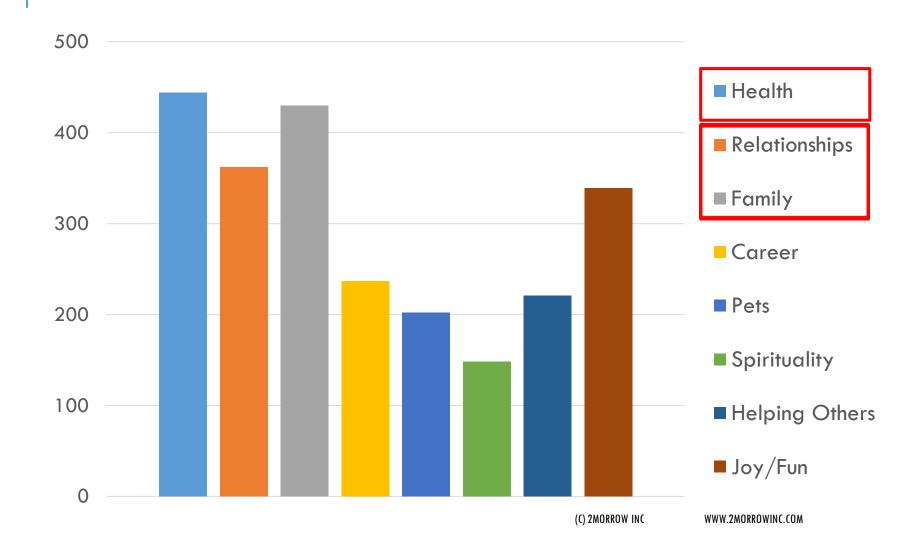
CONCERNS ABOUT QUITTING



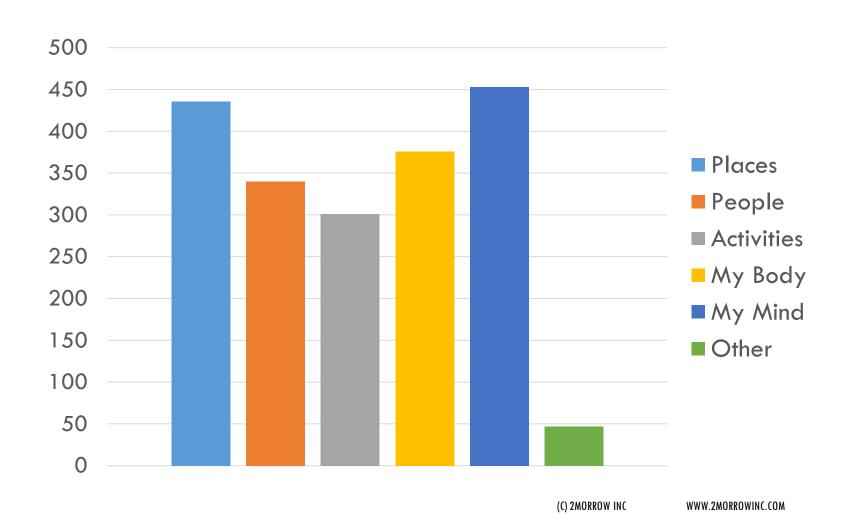
- Physical Withdrawals
- Social Loss
- Weight
- Willpower
- Stress



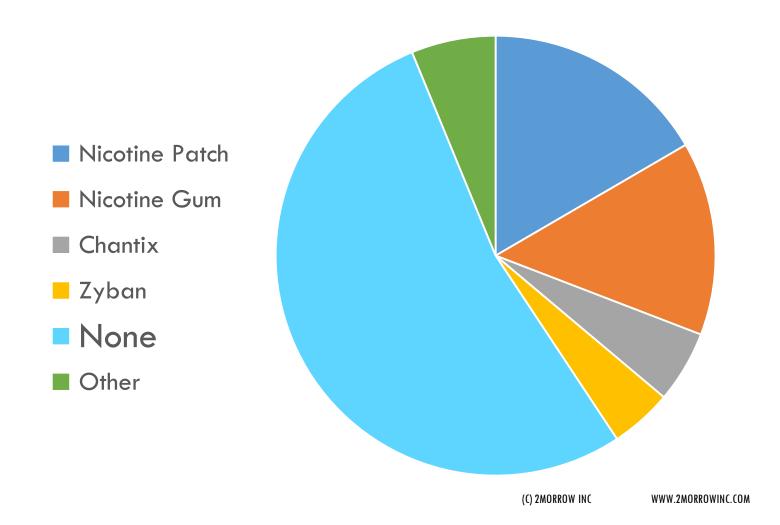
WHAT MATTERS - MOTIVATION



TRIGGERS



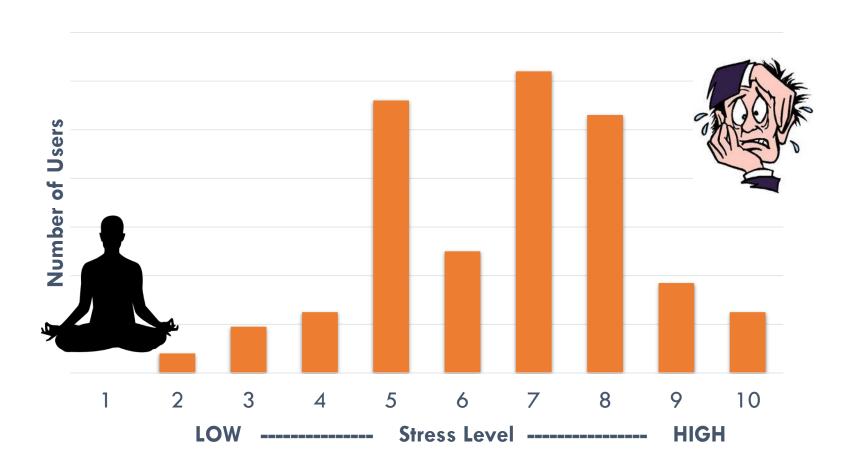
QUIT MEDICATIONS



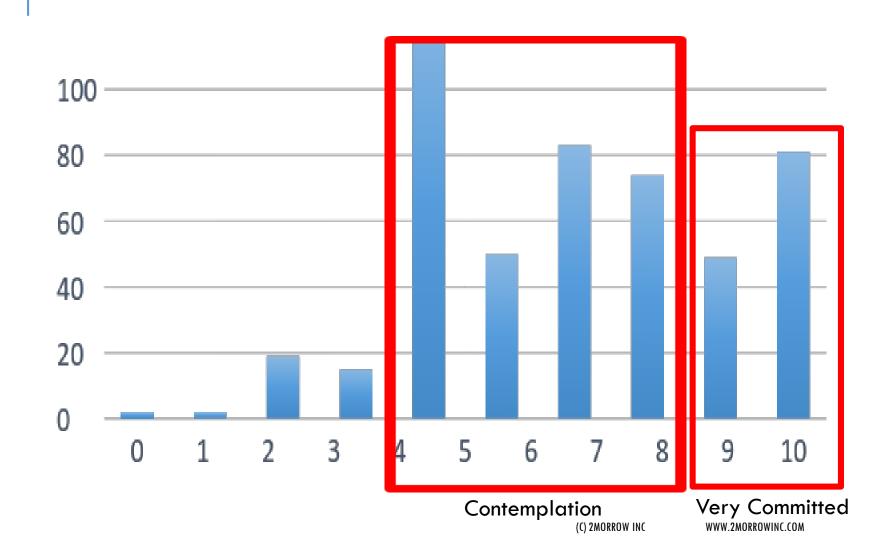
NUMBER OF CIGARETTES PER DAY



PARTICIPANT STRESS LEVELS



COMMITMENT LEVELS

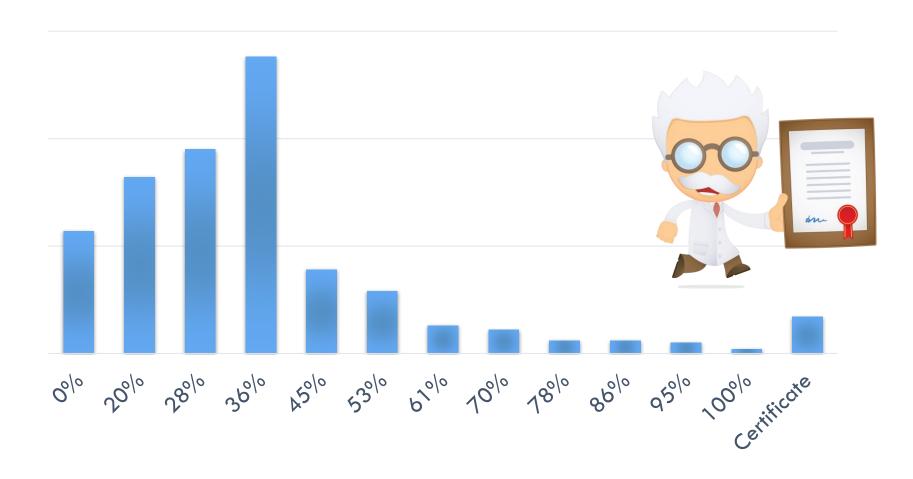


COMMITMENT LEVEL QUESTIONS

Questions:

- Should we restrict services to those are committed to quitting in 30 days?
- Is there value in teaching these skills before they are ready to quit?

PROGRAM PROGRESS (AS OF 7/31/15)



THINKING APPS? TOP 10 THINGS TO CONSIDER

- 1. Credibility
- 2. Approach
- 3. Privacy
- 4. Security
- 5. Support

- 6. Platforms
- 7. User Satisfaction
- 8. Reporting / Data
- 9. Costs
- 10. Customization

RECAP — THE ROAD FORWARD





QUESTIONS?

Jo Masterson: 2Morrow Inc. jmasterson@2morrowinc.com 206-227-6999

www.2Morrowlnc.com

Joella Pyatt: Washington State DOH Joella.Pyatt@doh.Wa.Gov 360 236-3518

www.doh.wa.gov/SmartQuit

THANKS!



Program Elements

- Quit Plan
- 40+ Exercises & Tips
- Tracking
- Reminders
- Customized Messages
- Rewards
- Support
- Cert. of Completion

