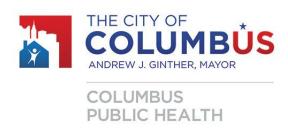
Better Data Collection and Use with REDCap

Emily Alexy & Ben DeJesus September 19, 2024





If you have a mobile device connected to the internet, please scan the QR code for a quick preliminary survey.

Presentation Outline

- 1) What is REDCap?
- 2) Setting up REDCap at Columbus Public Health
- 3) Our Current REDCap Uses
- 4) Advantages of REDCap
- 5) Process & Considerations for Using REDCap at your LHD
- 6) Live Demo (if time and technology allows)



1) What is REDCap?



REDCap is:

a web-based application developed by Vanderbilt University for building and managing online surveys and databases

https://projectredcap.org



REDCap is:

- Free
- HIPAA-compliant & secure
- A tool for data collection & management
- Able to export data to various analysis programs
- Used by 7,456 institutions in 159 countries

https://projectredcap.org

How REDCap works:

- Available at no charge to nonprofit organizations
- Your organization is responsible for installation & support, as well as administration (user accounts & permissions)
- Users access it from anywhere via a web browser





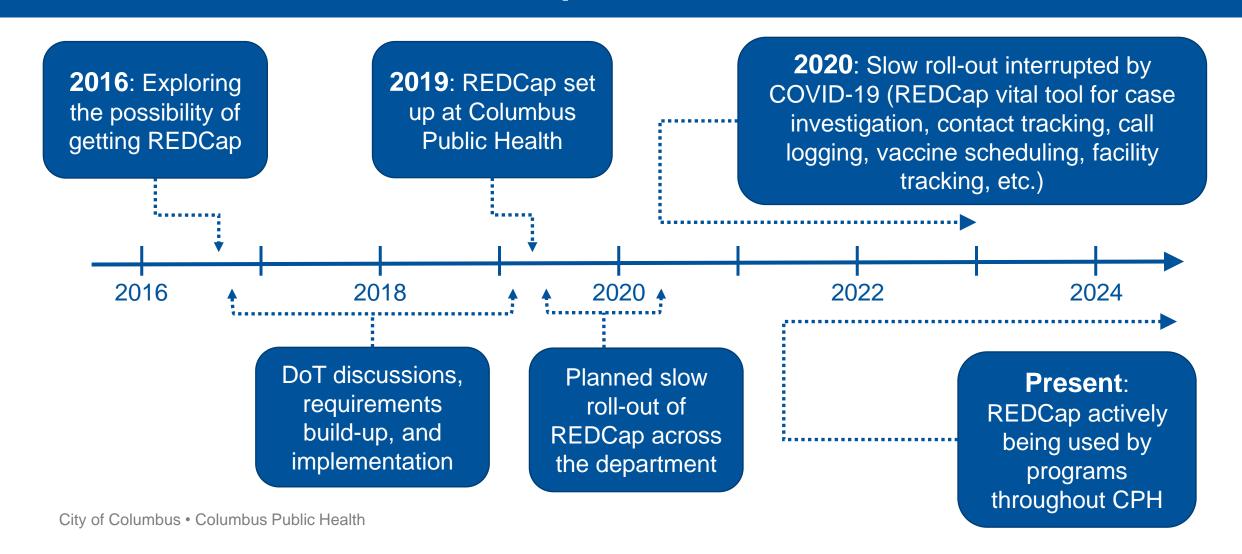
REDCap Features

- Highly customizable
- Simple to create, copy, modify, and/or share projects
- Advanced capabilities and many design & functionality options
- Tracks user activity
- Ability to create a survey in multiple languages



2) Setting up REDCap at Columbus Public Health

Timeline of REDCap at CPH





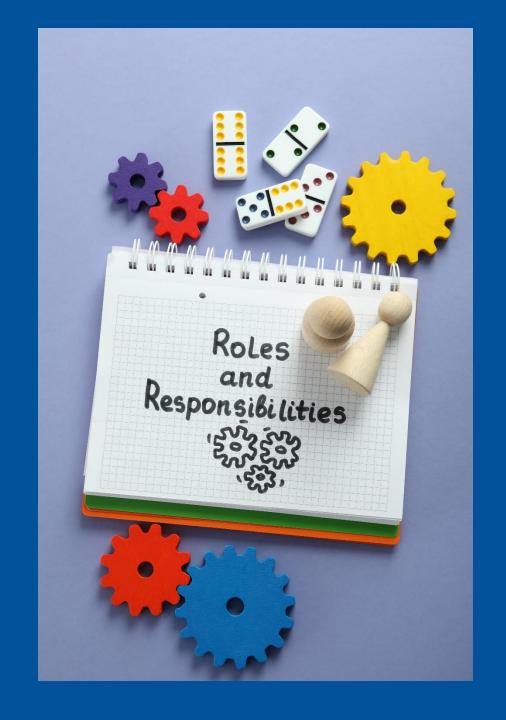
IT Resources

- Web server
- MySQL database server
- SMTP email server
- File server (optional)
- Other Knowledgeable IT staff, Consortium membership

For more information please visit https://projectredcap.ord/software/requirements/

City Department of Technology

- Provide Platform-Based Services/ Technological Administration
 - Software Install/upgrade/maintenance
 - Maintain servers
 - Monitor network performance
 - File storage
 - Other technical support...





CPH, Office of Epidemiology

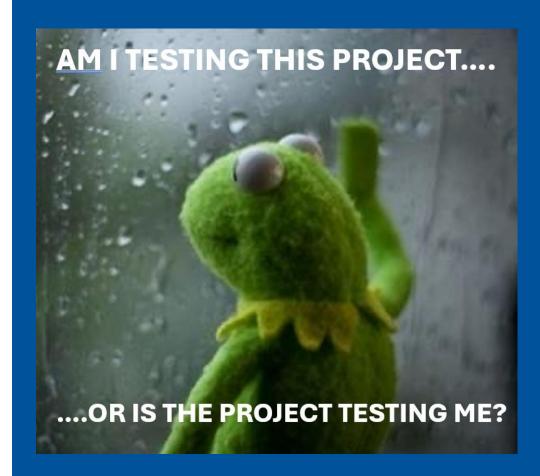
- General Application Administration
 - Manage users
 - Project production review/approvals
 - Project troubleshooting
 - Trainings
 - Email in-box
 - Work with DoT
- Project Requests and Creation



3) Current REDCap Uses at Columbus Public Health

Since 2019...

- We've created over 1,000 projects and added over 500 user accounts
- REDCap has been used by programs in all nine divisions of our health department
- Our Office of Epidemiology has built up our knowledge and skills to create a wide variety of project types



Administrative Tools

REDCap New User Request

Please submit the form below to request a new CPH REDCap user account. The approval process generally takes 1-2 business days. You will be notified of account approval via email.

If you have questions, please email REDCapCPH@columbus.gov.

New User Information			
First Name * must provide value	First Name		
Last Name * must provide value	Last Name		
Work Email * must provide value	Work Email Address		
Work Phone * must provide value	Work Phone Number		
Supervisor Name (First & Last) * must provide value	Supervisor Name		

By indicating Yes and signing this form, I,, acknowledge that I have read, understand, and will abide and follow the CPH REDCap User Agreement rules and conditions. * must provide value	○ Yes ○ No	reset
Please download and review the CPH REDCap User Agreem Attachment: CPHREDCap UserAgreement.pdf (0.08 MB)	ent.	
Please list the REDCap Project(s) you need access to.		
	Select all that apply.	
	☐ Other ☐ Unsure	
	☐ Analyzing data	
	Viewing data	
* must provide value	☐ Entering data	

Administrative Tools

Office of Epidemiology Request Form

Please enter in the details of your request for data and/or services from the Office of Epidemiology.

There is a new data request from from Admin.

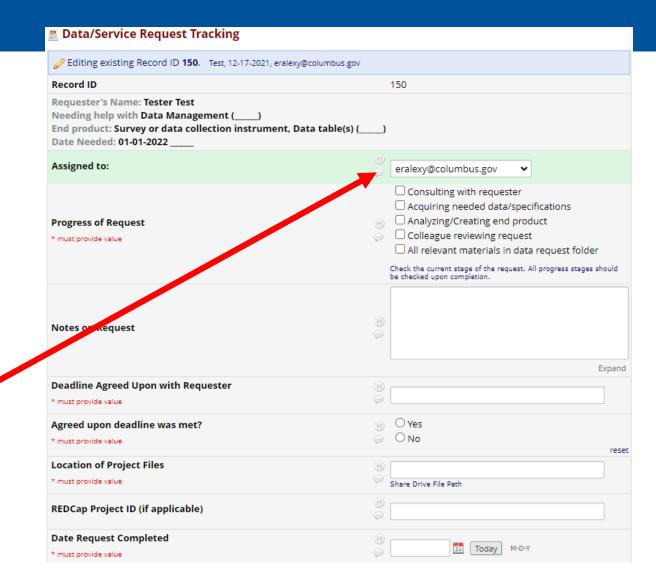
Date Needed: 1-2 work weeks

Type of Request: REDCap

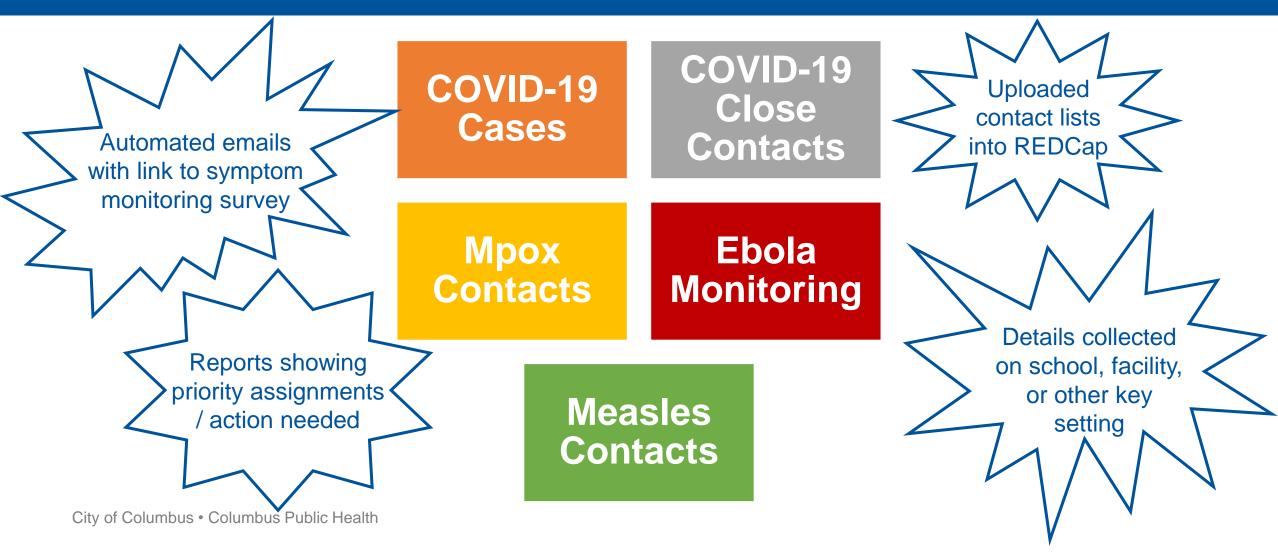
Details of Request: Hello! Could we have a gift card survey/form created for ...

End Product: Survey or data collection instrument

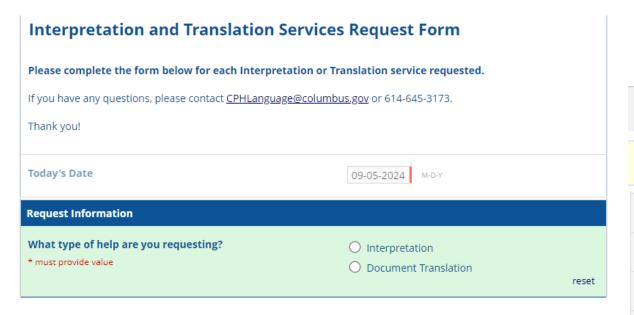
Click here to assign data request and track: Data/Service Request Tracking

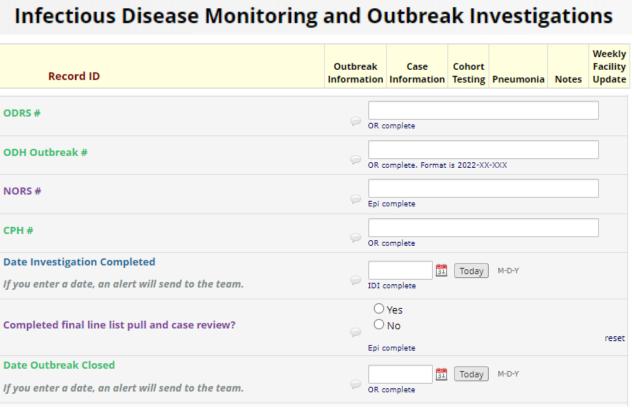


Case & Contact Investigations



Collaboration between teams





Public Surveys/Requests







Columbus Public Health Narcan Request Form

Columbus Public Health is offering naloxone via a mailing program to provide Franklin County residents with this life-saving drug. Please fill out the naloxone kit request form.



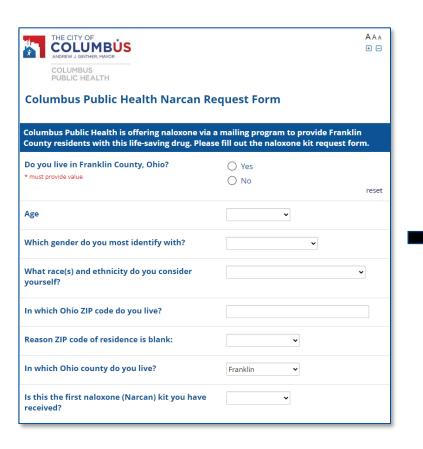
COLUMBUS PUBLIC HEALTH

Home Visiting Referral

Please complete the survey below and click 'Submit' at the bottom.

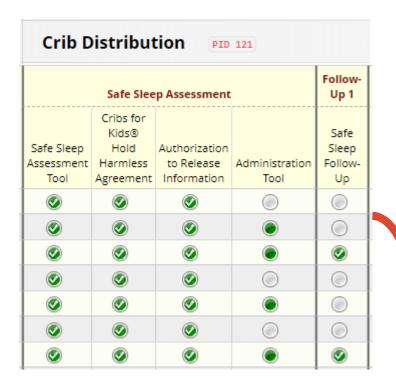
Please tell us your name and how to reach you:

Public Surveys/Requests





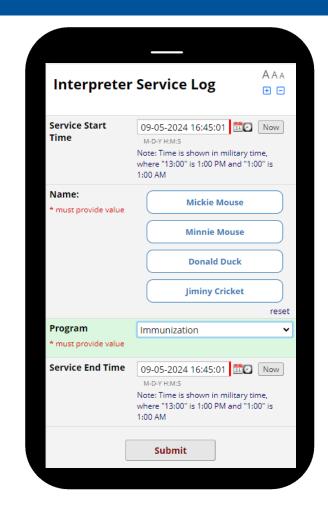
Program Tracking



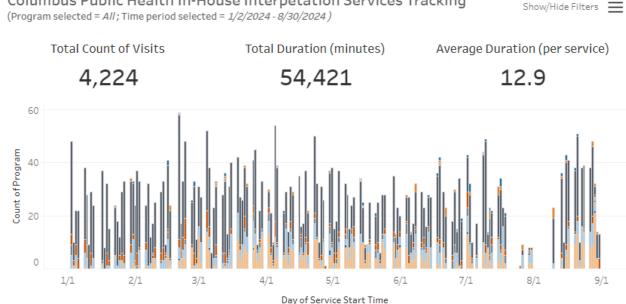
Total metrics	Referrals and total numbers	Zip, race and ethn	Other trained	Total metrics by	funding source	C1 Quarterly Reporting	
Crib Dist	ribution Dashboar	d - INTERN	AL D	ata last upd	lated: 7/5/2	2024 10:30 AM	
	flects year crib was distributed):						
2024		▼	1	,130		cribs have b	

distributed this year

Program Tracking

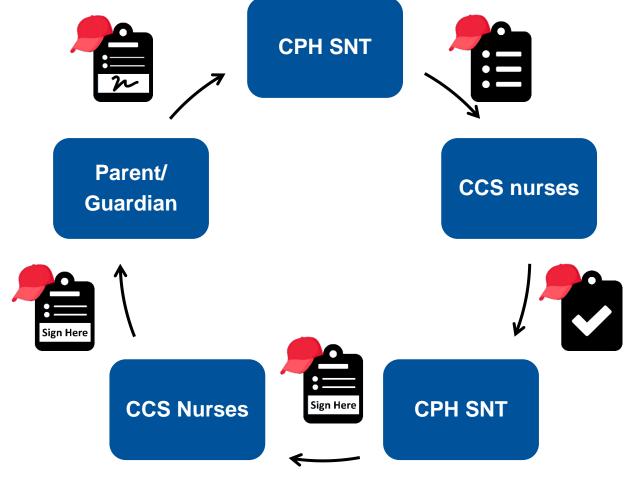






Columbus Public Health In-House Interpetation Services Tracking

Scheduling/enrollment





A A A

Columbus Public Health 2024 Vaccination Clinic Sign-Up

Please fill out the required information below for Columbus Public Health to come to your school to have a vaccination clinic.

Please select the type of school you're registering: † must provide value	•
Nurse Name: * must provide value	10/02/24 Afternoon 10/08/24 Afternoon 10/15/24 Afternoon
Phone Number: * must provide value	10/17/24 Afternoon 10/22/24 Afternoon 10/24/24 Afternoon 10/29/24 Afternoon 10/30/24 Morning
Email: (This information will only be used for scheduling confirmation.	11/07/24 Afternoon 11/12/24 Morning 11/13/24 Morning 11/14/24 Afternoon 11/20/24 Morning
Please confirm your Email:	11/21/24 Afternoon 12/03/24 Afternoon 12/05/24 Afternoon
Please select a date for your vaccination clinic.	12/10/24 Afternoon 12/11/24 Morning
Choose your clinic date/time: * must provide value	12/12/24 Afternoon 🗸
Total number of consent forms needed in <u>English</u> : * must provide value	
Total number of consent forms needed in <u>Spanish</u> : * must provide value	

General Project Creation Flow



Requirements

- Discuss and agree on requirements and scope
- Gather existing resources, e.g. instruments or dictionaries



Development

- Initiate REDCap project build-out per requirements
- On-going discussions and updates
- Troubleshooting



Testing

- Test instruments
 (forms/surveys)
 data gathering
 (fake), email alerts
 and invitations,
 workflows, etc.
- Compile changes needed/issues



Deployment

- Place project in production/delete fake test data
- Add additional REDCap users + rights if necessary
- Distribute survey link/QR code if necessary



4) Advantages of REDCap

Some advantages include:

Easy sharing between all staff working on a project, with the ability to limit user permissions as desired.

Automatic tracking of changes to project data, so that accidental deletions or edits can be recovered.

An import feature, so that data in platforms such as Excel can be easily moved into REDCap.

An export feature, so data collected in REDCap can be put into a data analysis program.

HIPAA-protected data can be safely collected and stored.



Flexibility

- One form or many
- Single instances, repeating instruments, or longitudinal events
- Public surveys, surveys available only by an email invitation, or forms that you have to log into REDCap to access
- More than a dozen types of fields, and many validations to control the kind of data collected

Security

- HIPAA-compliance means PHI can be securely collected and stored
- User roles control who can export data, delete forms, change settings, etc.
- Data Access Groups can be set up so users only see the data they need
- A log records any changes to the project or data by users



Works with other systems

- Import data in .csv format from other data systems or excel tracking
 - Export data to use in analysis or data visualization programs
 - API allows for connections that automatically retrieve or modify REDCap data



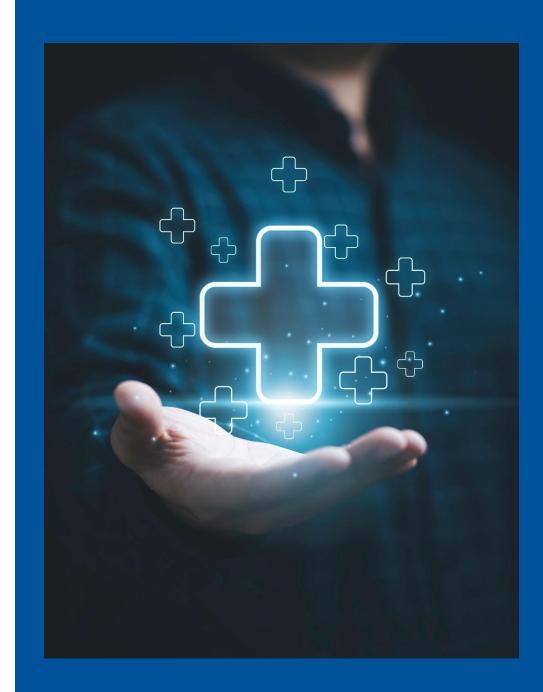


Collaboration

- Programs can work together on the same project – easy to share data, multiple users can be logged in at once
- Projects can be shared with other health departments – simple to choose what aspects of the project to export, and to create a new project based on someone else's .xml or data dictionary

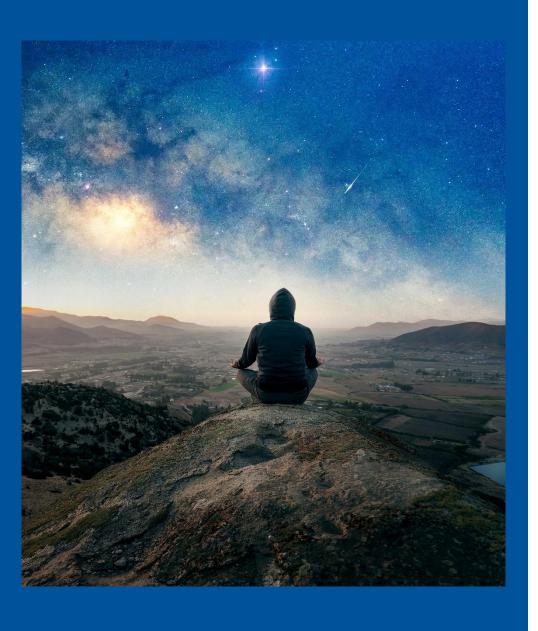
Extra Features

- Smart variables
- Piping
- Embedding
- Special functions / calculations
- Hide fields / options when needs change





5) Process & Considerations for Using REDCap at your LHD



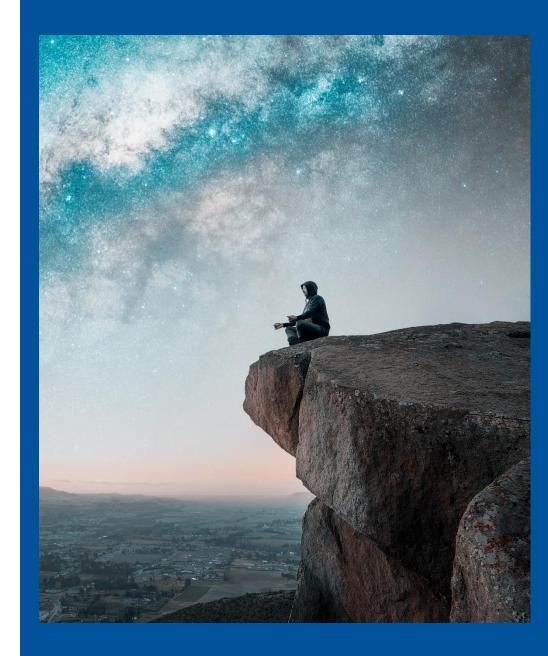
Pre-Implementation

- Buy-in (Departmental Administration)
- REDCap Administrator Guides/Process
- Roll-out planning
- Training (app. administrators and user)
- Dedicated team (both at LHD and DoT)
- Use cases (RC versus other tools)

If you build it, they will come

Post-Implementation

- Hardware scaling (volume)
- Staff scaling (IT and App. Users)
- Upgrades and Downtime
- Use REDCap to use REDCap



Challenges



City of Columbus • Columbus Public Health

Our REDCap Life Recap

• Early Years: baby steps / dabbling in REDCap



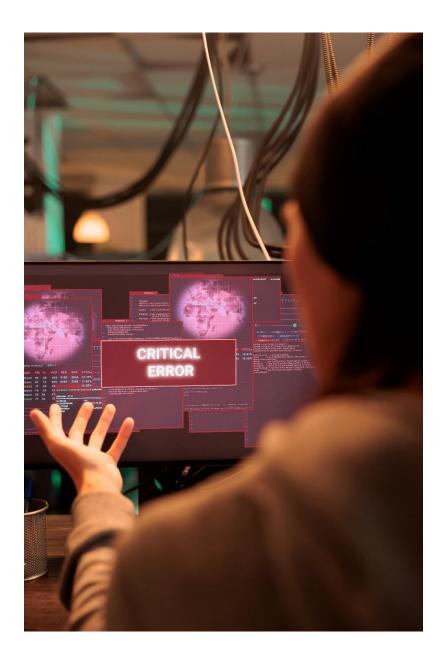
Teenage Years: this is useful and cool stuff!



What's next?

Prime Time: Huh, I didn't know REDCap can do that!



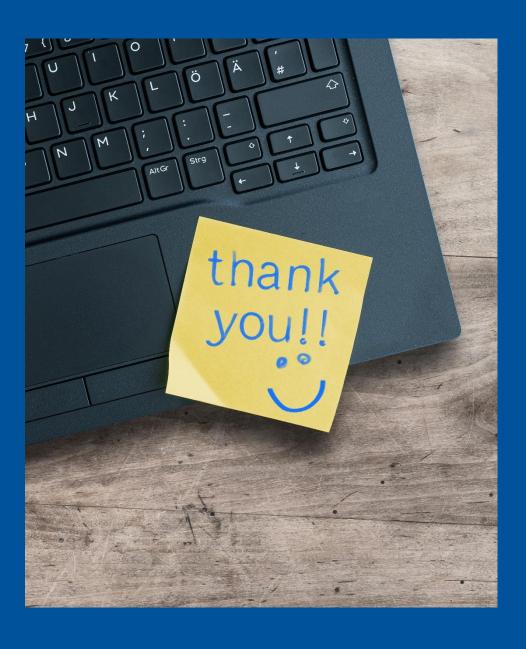


6) Live Demo (if time allows)

redcapdemo.vumc.org



If you have a mobile device connected to the internet, please scan the QR code to take the live demo survey.



Thank You!

- More info (REDCap Consortium)
 - https://projectredcap.org
- Free 1-week trial
 - https://redcapdemo.vumc.org/trial/
- Contact info
 - Office of Epidemiology
 - Emily Alexy eralexy@columbus.gov
 - Ben DeJesus bend@columbus.gov