



Agenda

- What is RStudio Connect (RSC)?
- What can you do with RSC?
- Examples and demonstration
- How to get RSC and support options
- Q & A

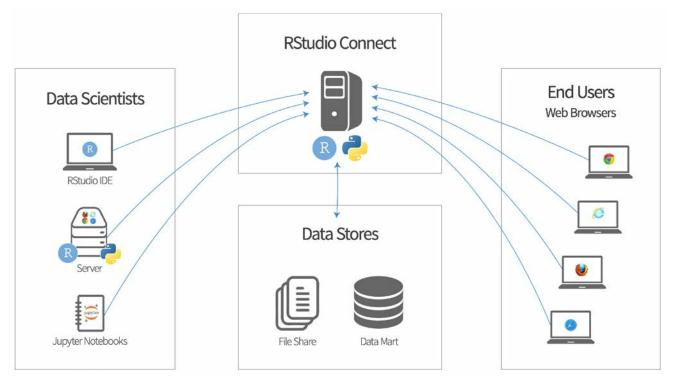


What is RStudio Connect?

- A self-service publishing platform for works created in R and Python
- Publish R-Scripts, RMarkdown Reports, Dashboards, Shiny Applications, Plumber APIs, Jupyter Notebooks, interactive Python content
- Publish directly from the RStudio IDE
- Permission levels include Anonymous, Viewer, Collaborator (e.g. Publisher)
- Content can be accessed without authenticating or can be secured by adding user accounts and assigning rights to the content



RStudio Connect Overview





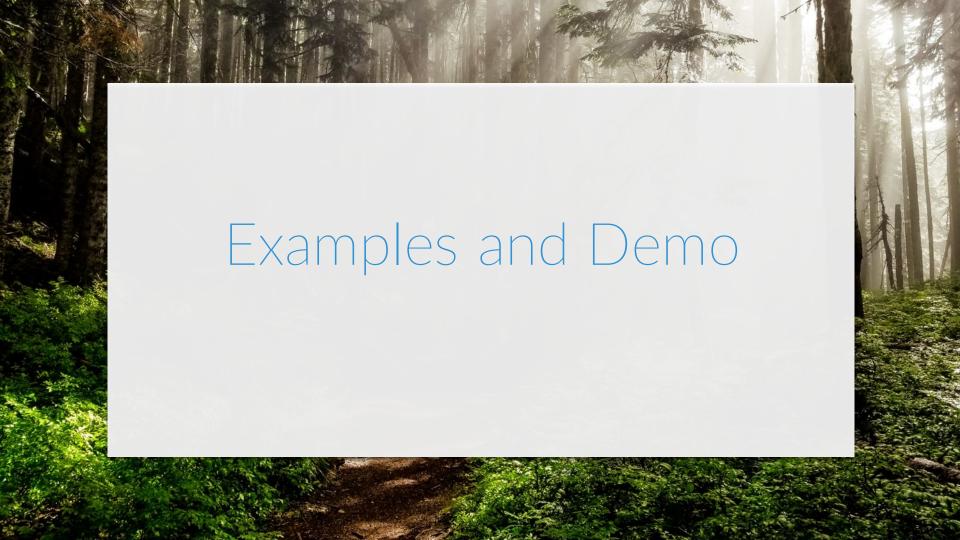
OCTRI's RStudio Connect

- Hosted on OCTRI servers in data center west
- Available "on network" only
 - Citrix: viewing published content
 - On campus or VPN: required for publishing content
- 100 Licenses "Named users", not concurrent users

What can you do with RSC at OHSU?

- Publish reports, visualizations, and interactive dashboards using RMarkdown
- Schedule reports to run automatically
- Host Shiny Applications
- Publish datasets using the "pins" package
- Access internal databases (e.g. REDCap)

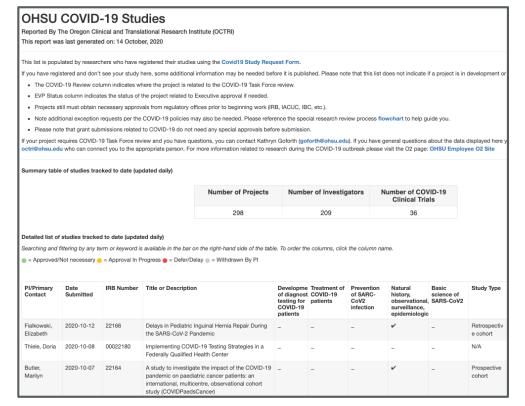




What we've been using at OCTRI

- COVID Studies Registry Dashboard
- REDCap Form Entry Completion Report
- OHSU/NIH Physician Scientist Dashboard
- Shiny Navigator Dashboard

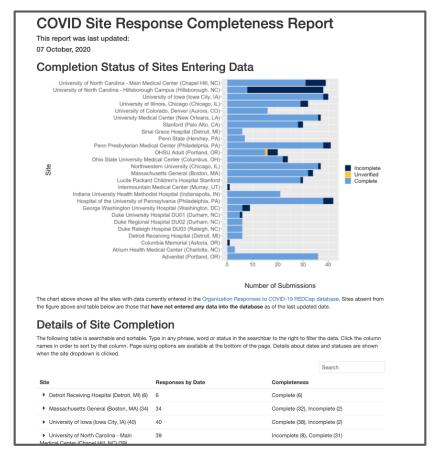
COVID Studies Registry Dashboard



- Purpose: quickly
 needed to disseminate
 information about
 COVID research.
- Not very pretty got the job done.
- Publicly available for all OHSU users on O2 as link.
- Connected to REDCap form.
- Internal version shared via e-mail with COVID task force members.

ON VPN or CITRIX: https://octri-analytics.ohsu.edu/connect/#/apps/57/access

REDCap Form Entry Completion Report



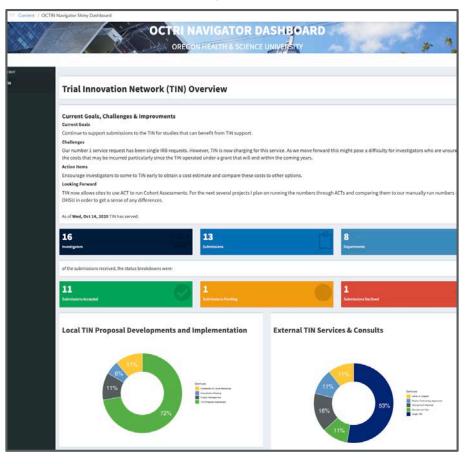
- Purpose: track the response of various hospitals to COVID-19 across the U.S.
- REDCap is not a reporting program.
- These tables pull in data from REDCap directly via the API.
- Shared as a link with team.
- Does not show any information other than what's been programmed.

OHSU/NIH Physician Scientist Dashboard



- Purpose: showcase figures from a publication in an streamlined way.
- Based on research published by Zell et. al., 2018
- "From bedside to benchmarks: A physicianscientist workforce dashboard for biomedical research institutions"
- Figures from that paper continue to be updated.
- Outlives the paper itself with continuing updated information.
- Easier to quickly get the gist of each figure and how the data was obtained.

Shiny Navigator Dashboard



- Purpose: Share
 information about
 projects and services in a
 database.
- OCTRI Navigators provide project guidance and support to investigators.
- Needed a way to keep track of services and projects constantly being added to their database.
- Presenting at standing meetings – share a link.
- Pretty and aggregated information

Live Demo

- Upload your RMD to RS Connect.
- Set the viewing permissions.
- Set the e-mail automation (or share the link).
- Work collaboratively on documents.



How to access RStudio Connect

- Send an email request to octrihlp@ohsu.edu
 - Instructions will follow
 - CARS request is involved so allow some time
 - You can request two account types:
 - Viewer
 - Publisher



What Support is Available?

- OCTRI
 - Wiki space: https://octri.ohsu.edu/wiki/display/ORC
 - Basic support included with Publisher Account
 - 2 hrs consultation
 - Paid hourly support
- Peer to Peer
 - Microsoft Teams Members Pending Requests Channels Settings
- RStudio / Internet







Some Caveats to be Aware of

- Relatively new service, fairly complicated platform
 - Allow extra time for deployment issues
- External R package dependencies can be challenging and require consultation with OCTRI Informatics
- Minimize the need for multiple user accounts to save \$
- Support resources are somewhat limited, so allow time



"OCTRI Prime" Day (or FY)!

- New accounts fully subsidized for remainder of FY21
 - Annual account charges will apply beginning July 1,
 2021
- Current Fee Schedule:
 - Basic/Viewer Account: \$217
 - Publisher Account: \$427





Thank You!

Questions?

OCTRI Informatics Research Support octrihlp@ohsu.edu





Extras



RStudio Connect Permissions

Category	Description	Anonymous Visitors	Viewers	Collaborators	Administrators
Content	View "Open Solo" Version	✓	✓	✓	✓
	View Content in Connect Dashboard		✓	✓	✓
	Change Access Controls*			✓	✓
	Assign Vanity URL				✓
	Change RunAs User				✓
Shiny Apps	Change Performance Settings			✓	✓
R Markdown Report	Have Content Emailed To Them	✓	✓	✓	✓
	Email Content to Themselves		✓	✓	✓
	View and Toggle Public Variants		✓	✓	✓
	View Parameters for Variants			✓	✓
	Change Parameters for Adhoc Reports			✓	✓
	Refresh Reports			✓	✓
	Save new Public Variants			✓	✓
	Save new Private Variants			✓	✓
	Schedule Variants			✓	1
	Email Reports to Others			✓	✓
License	Count Against Named User License		√	√	✓

