RECON

R Epidemics **CON**sortium

COVID-19 challenge

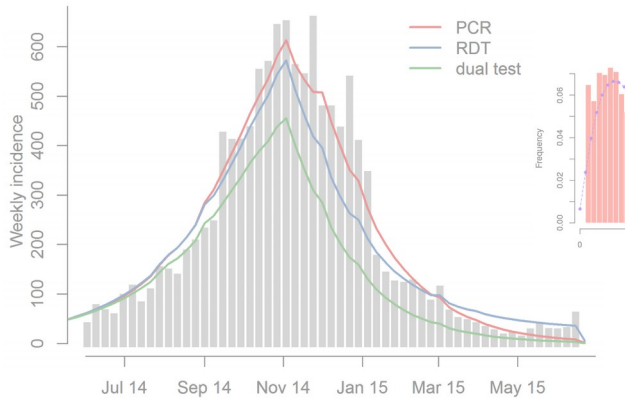
A collaborative platform to help the epidemic response

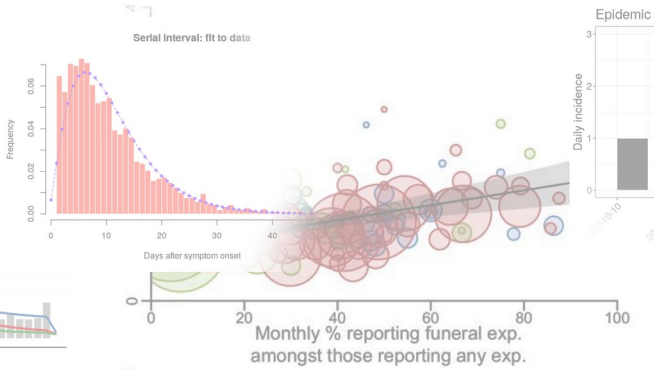
M. Rolland
mj.rolland@gmail.com

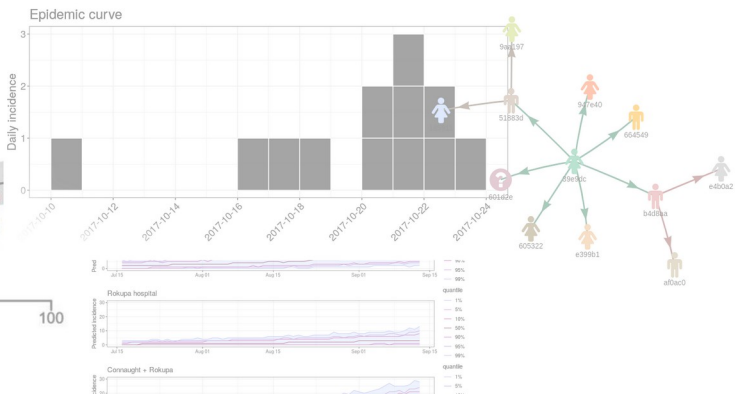
August 28, 2020

RECON

R Epidemics CONsortium







R Epidemics CONsortium

www.repidemicsconsortium.org

COVID-19 challenge

COVID-19 challenge

Field
agents

COVID-19 challenge

RECON
package
maintainers

Field
agents

COVID-19 challenge

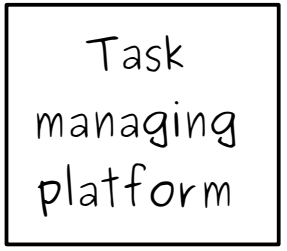
RECON
package
maintainers

Field
agents

R
Community

COVID-19 challenge

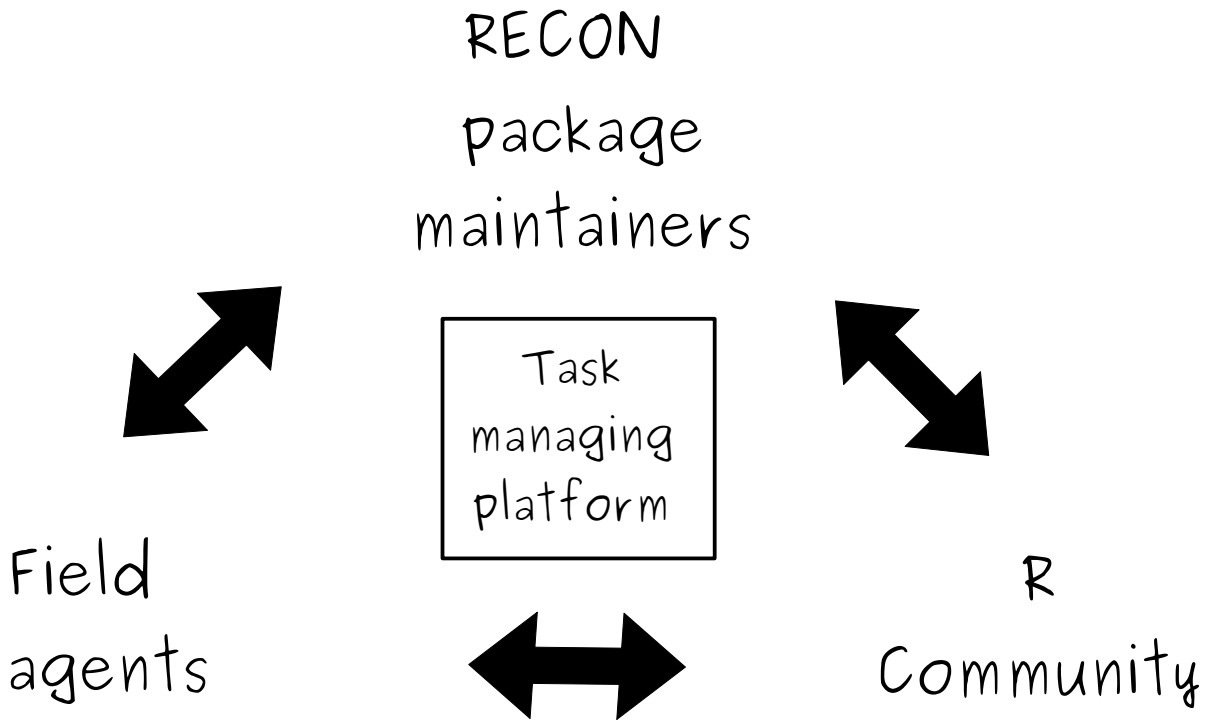
RECON
package
maintainers



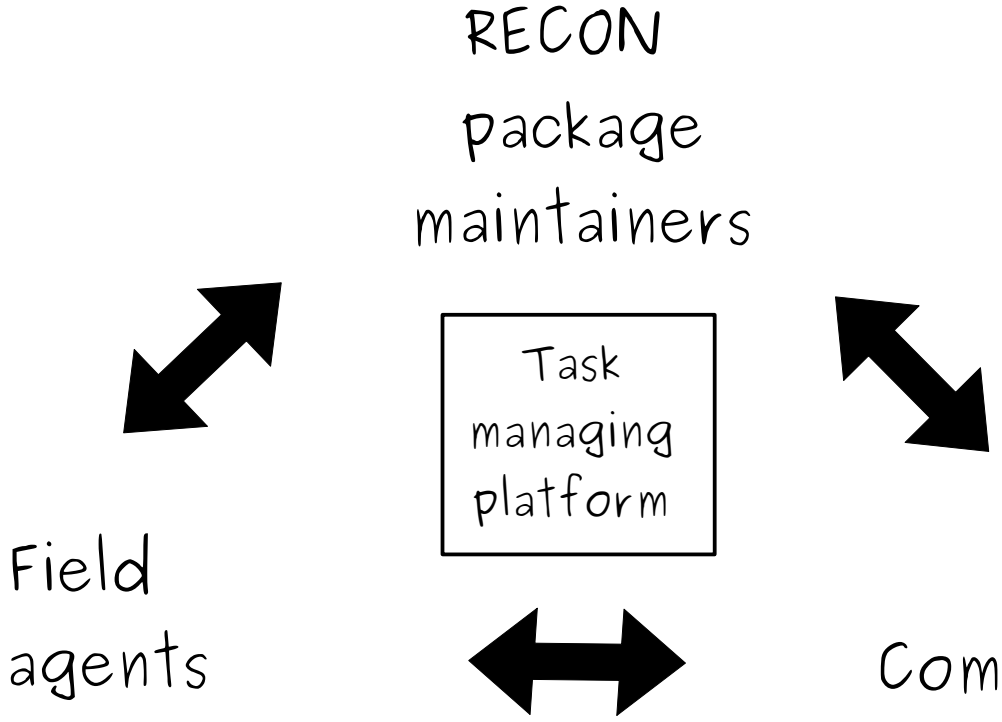
Field
agents

R
Community

COVID-19 challenge

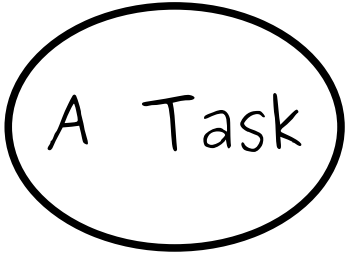


COVID-19 challenge

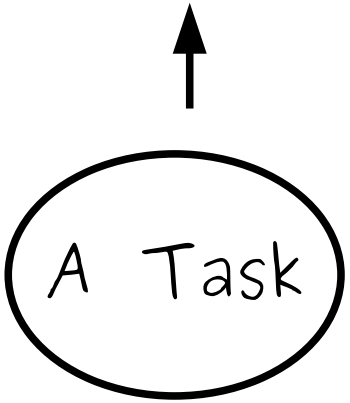


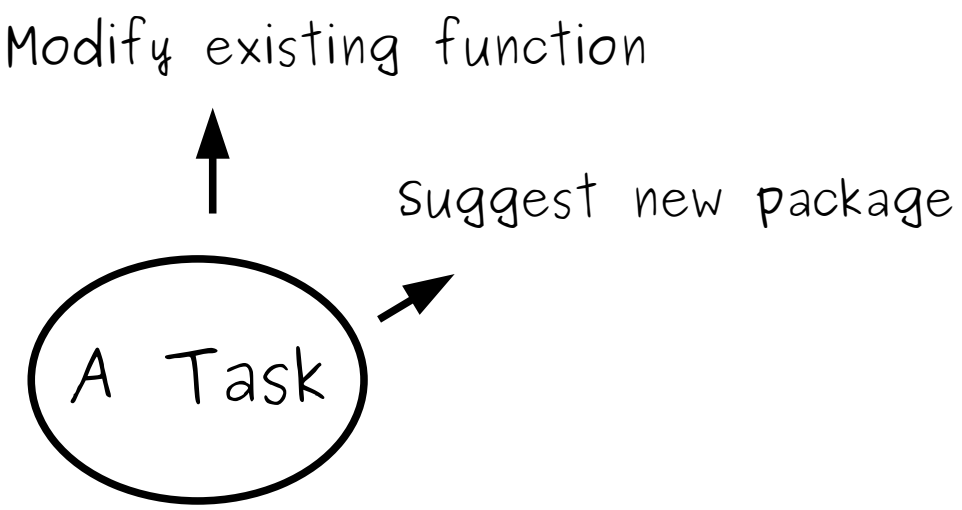
R consortium

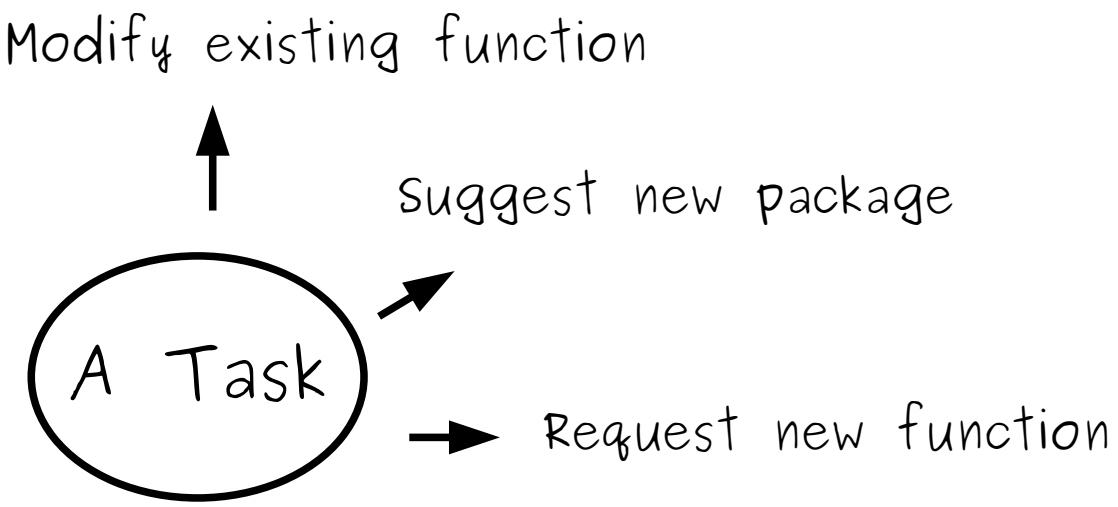
Task Definition

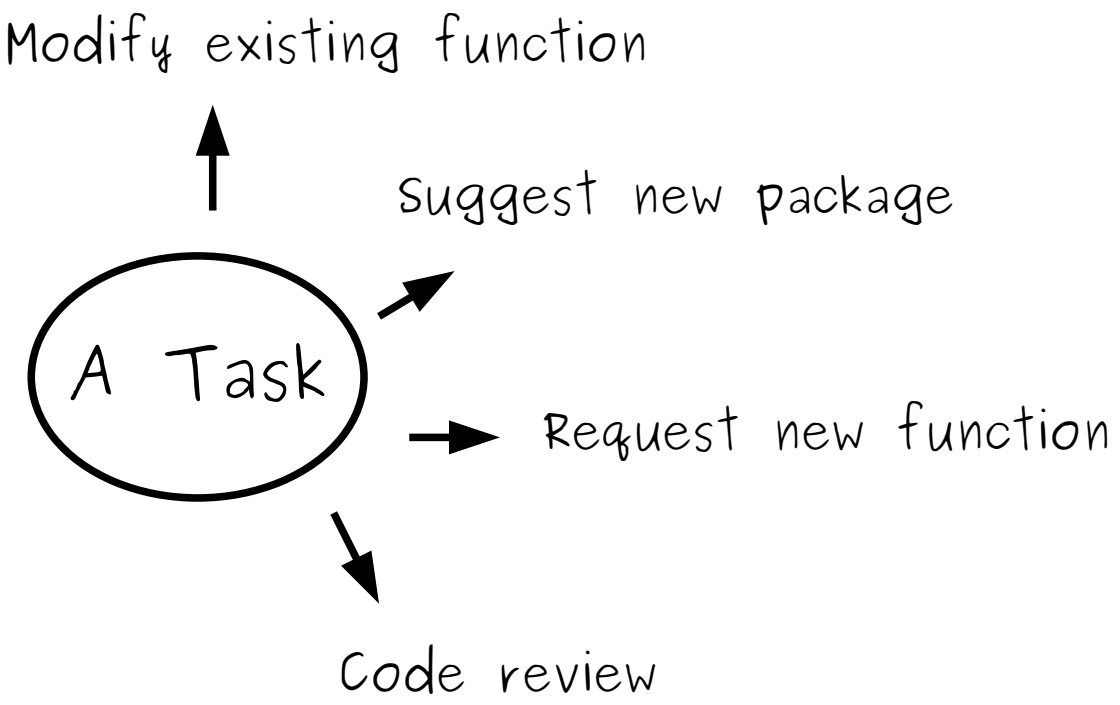

A Task

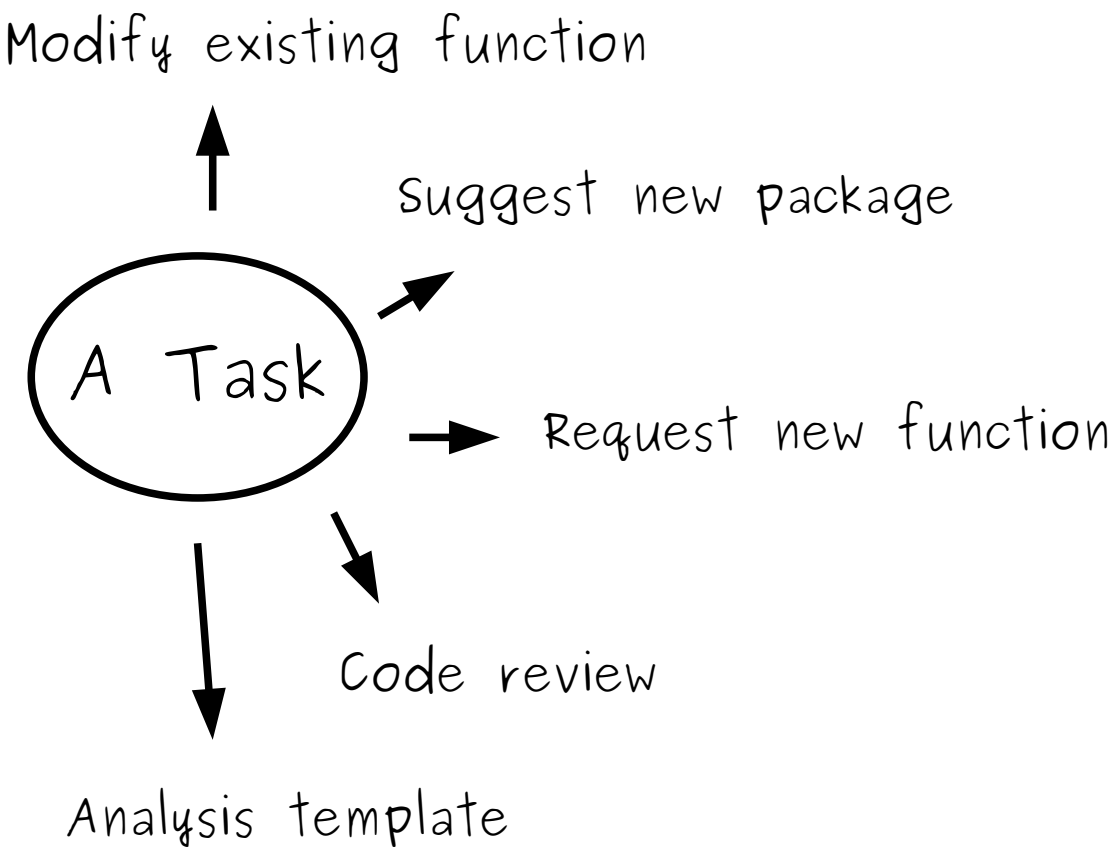
Modify existing function

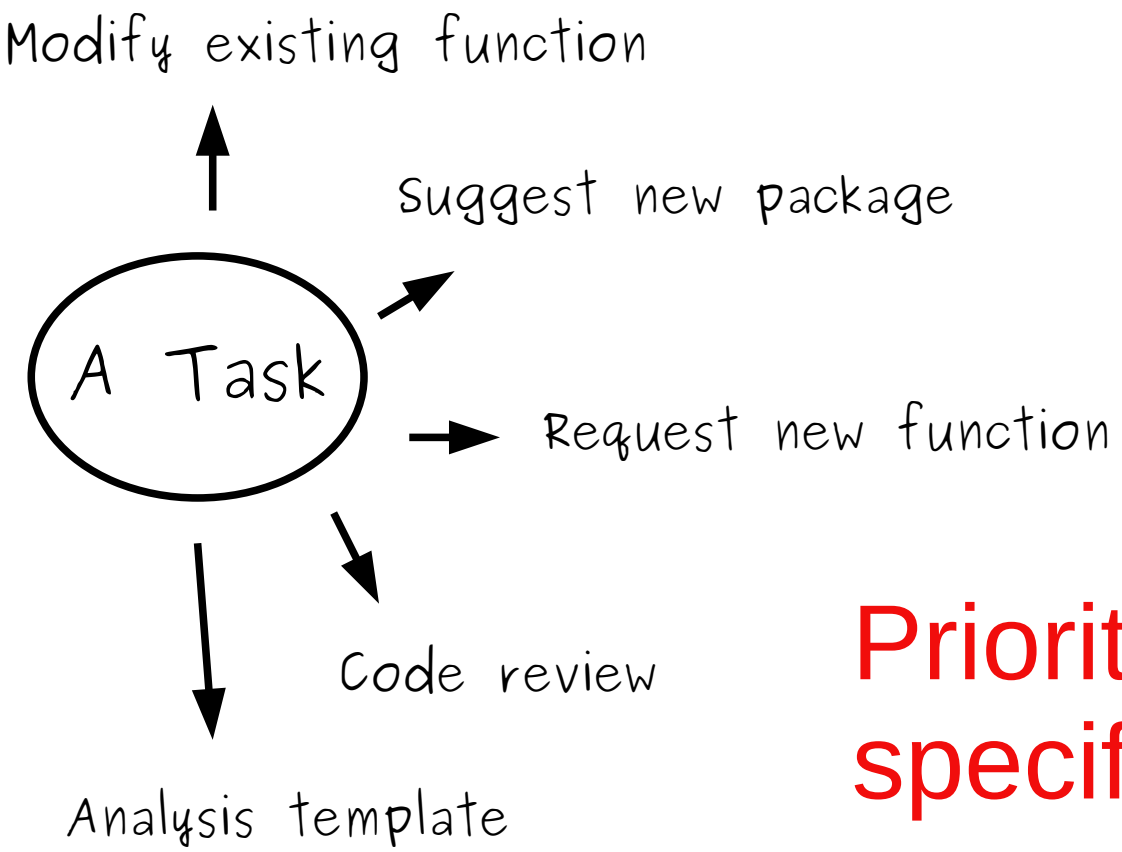



Modify existing function
Suggest new package
A Task


Modify existing function
Suggest new package
A Task
Request new function


Modify existing function
Suggest new package
A Task
Request new function
Code review

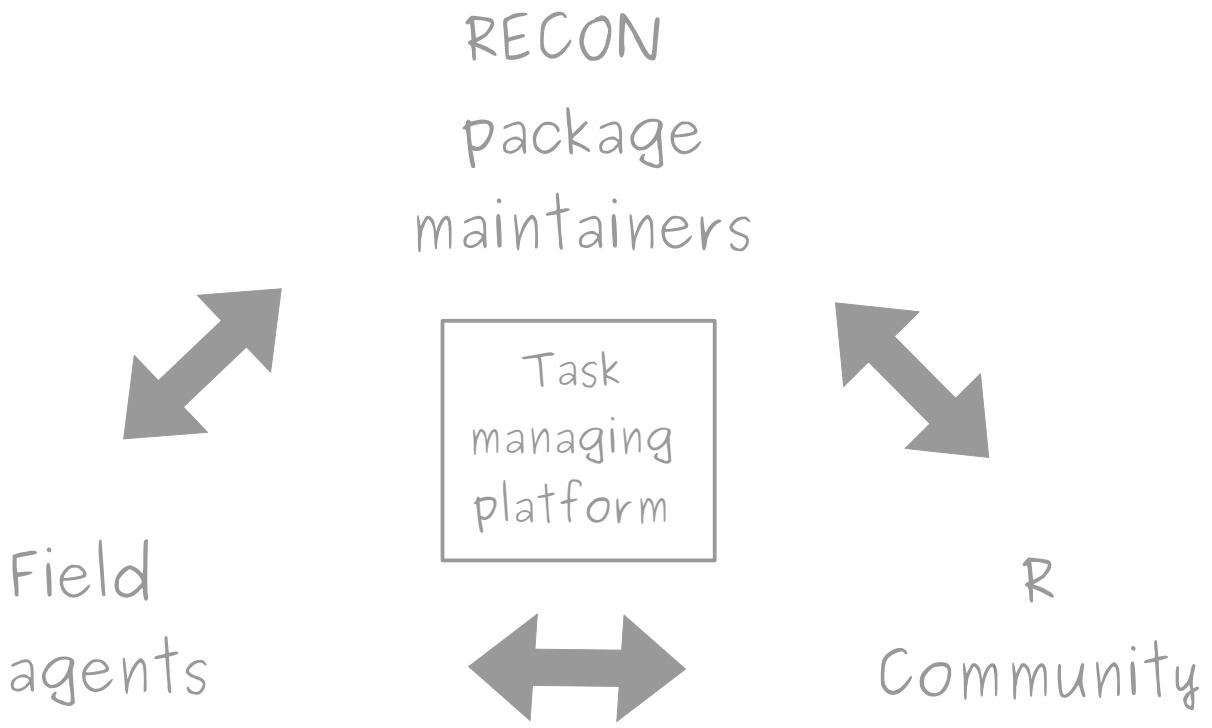

Modify existing function
Suggest new package
A Task
Request new function
Code review
Analysis template



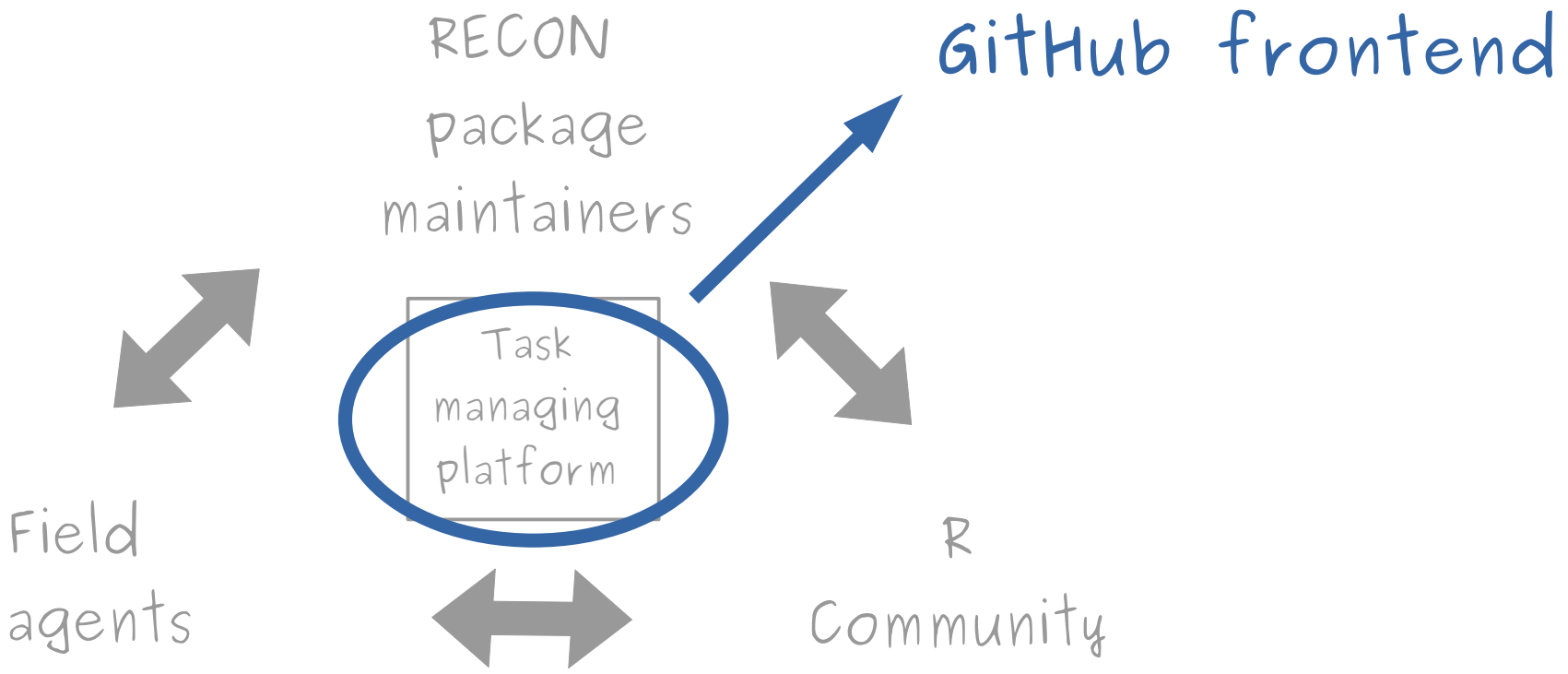
Priority to COVID-19 specific tasks

Platform specifications

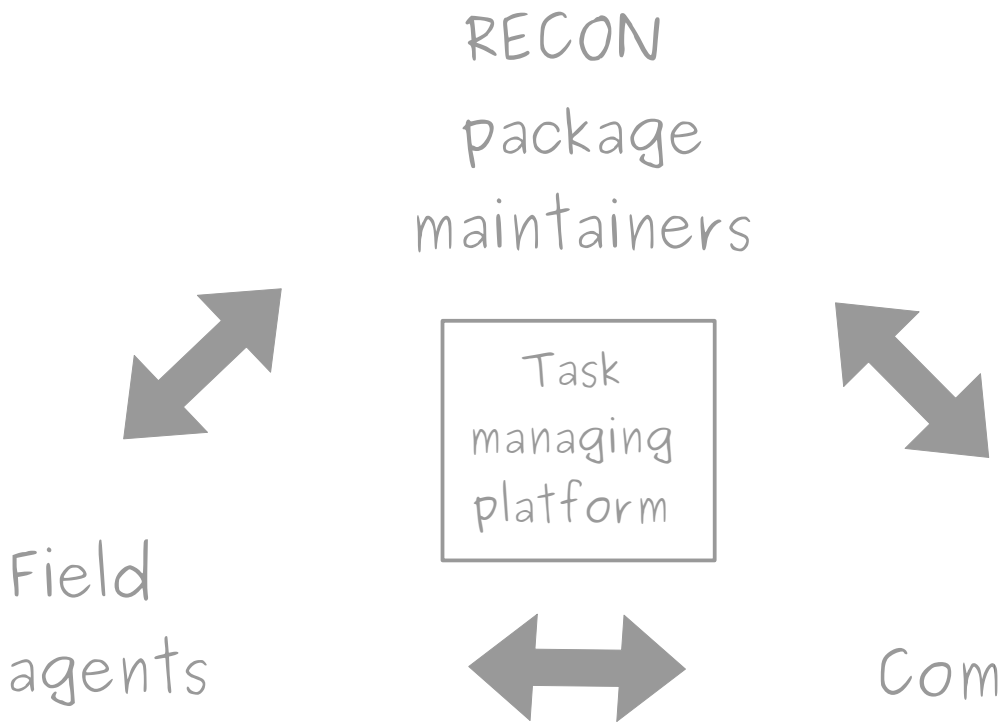
COVID-19 challenge



COVID-19 challenge

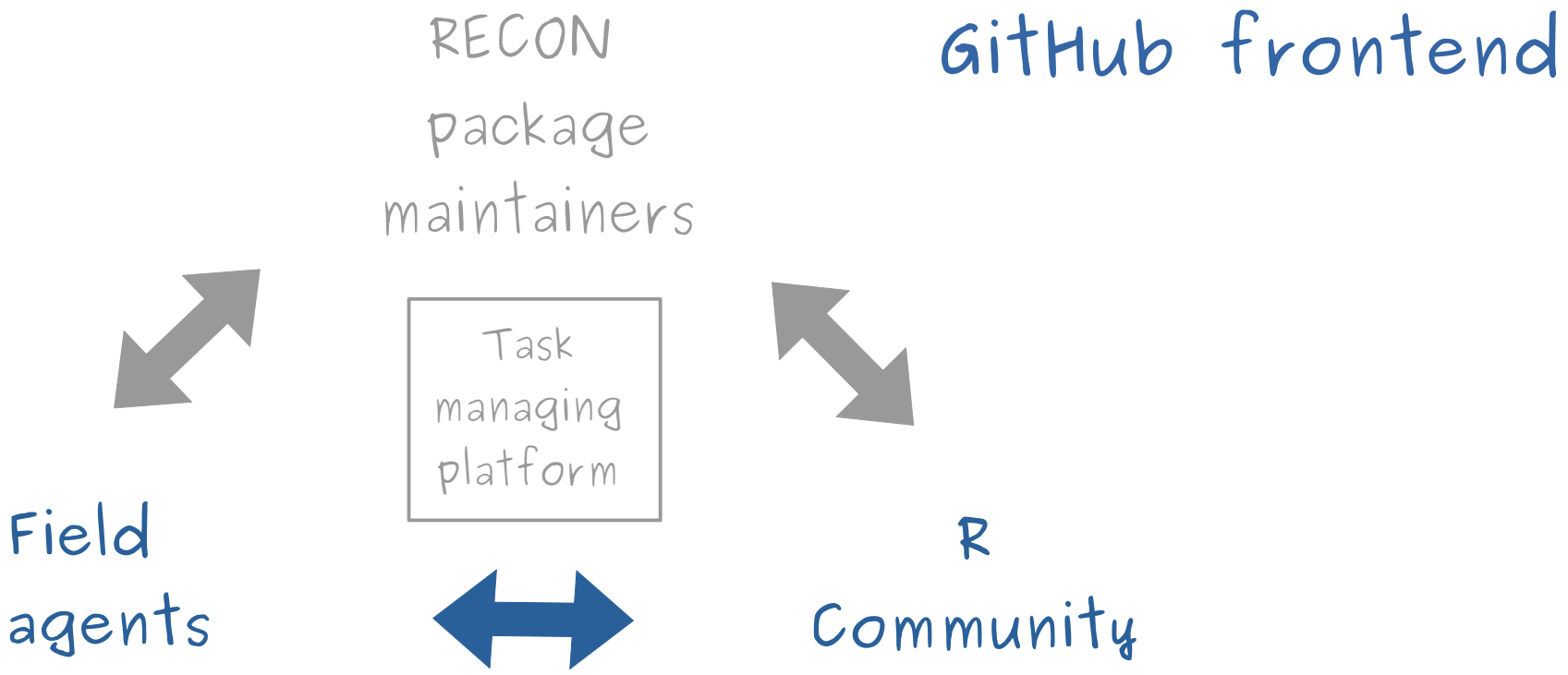


COVID-19 challenge

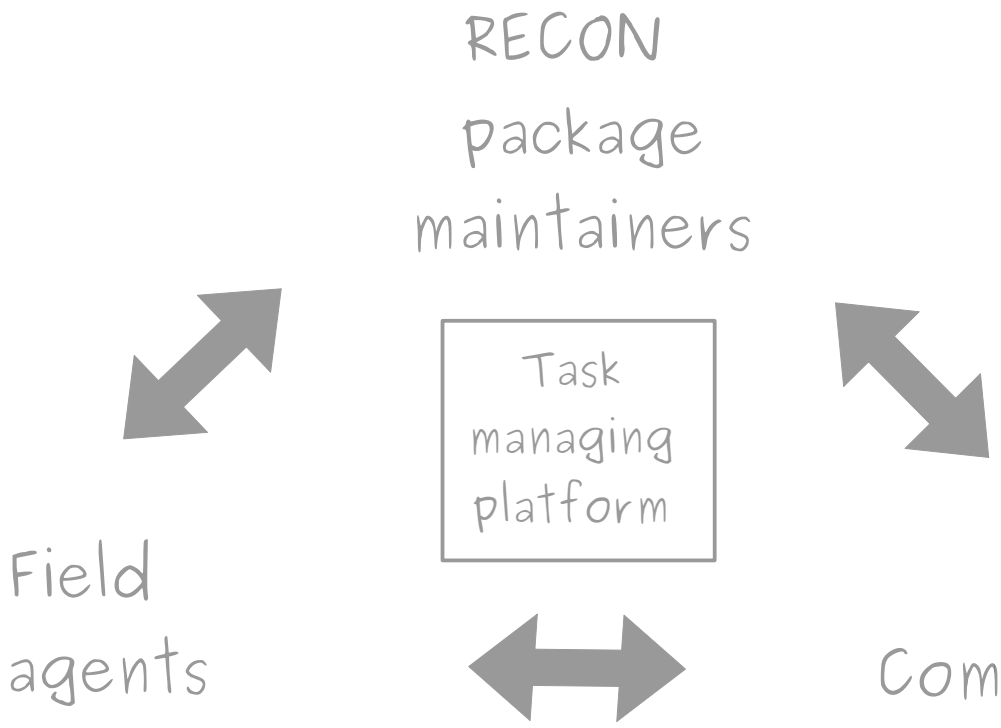


GitHub frontend

COVID-19 challenge

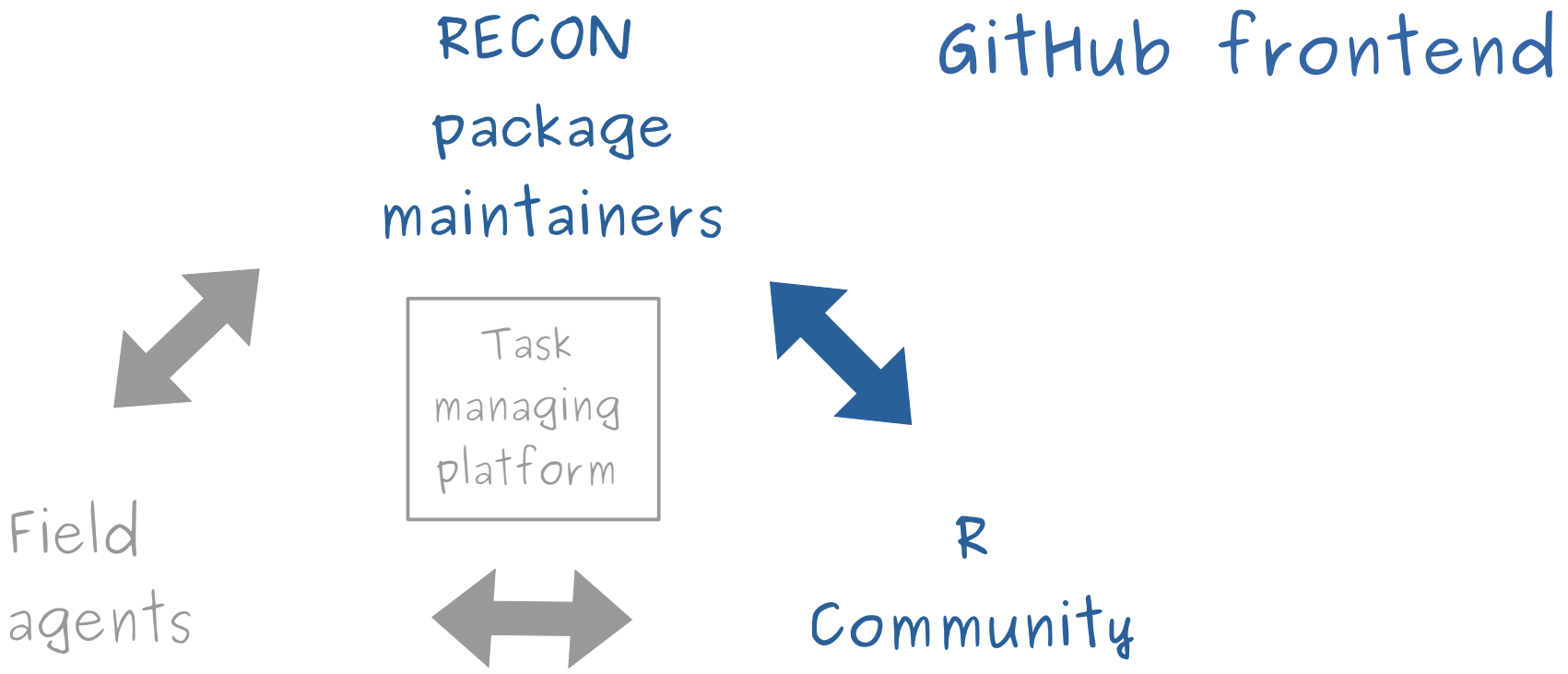


COVID-19 challenge

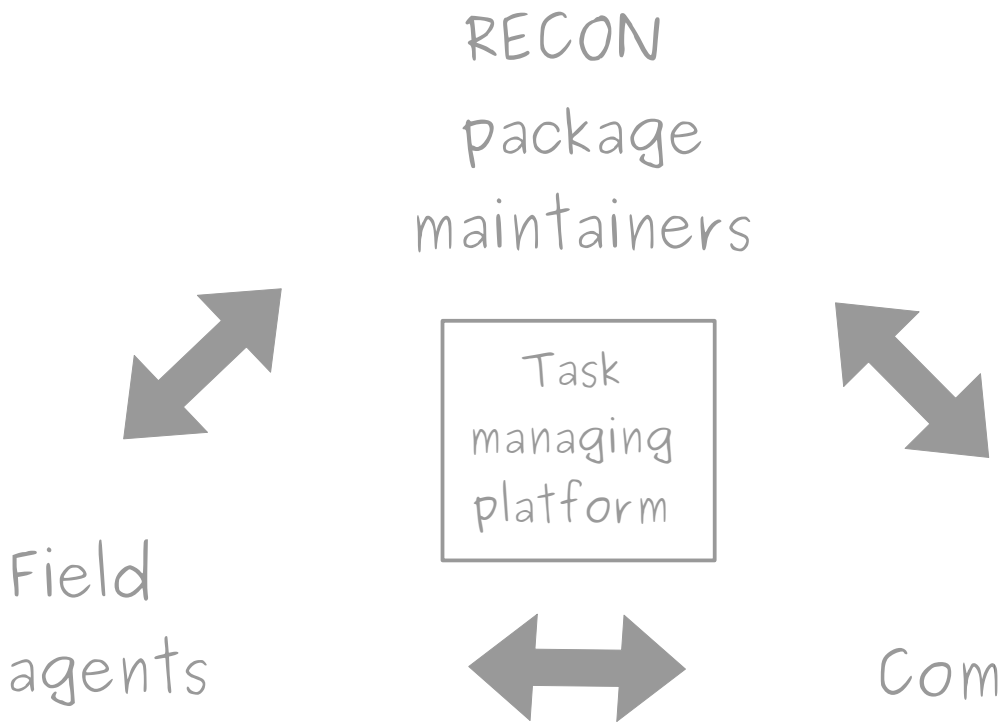


GitHub frontend

COVID-19 challenge

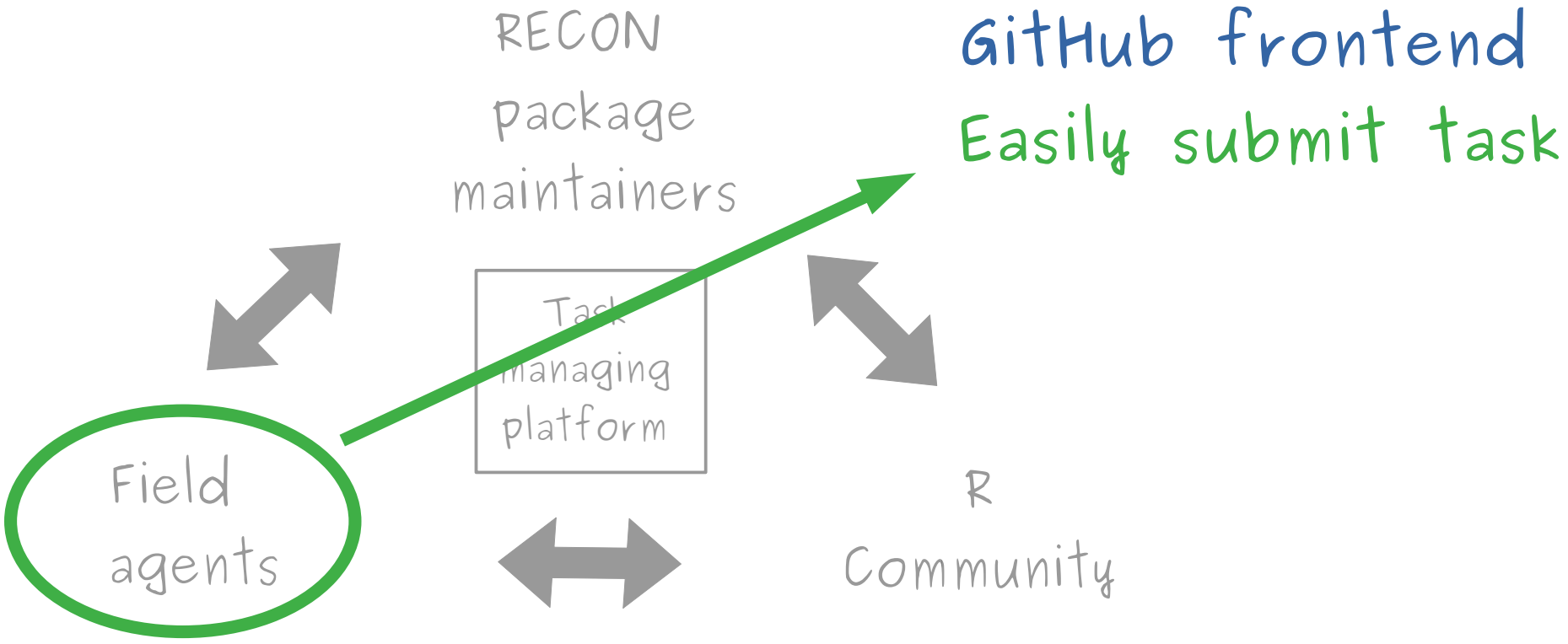


COVID-19 challenge

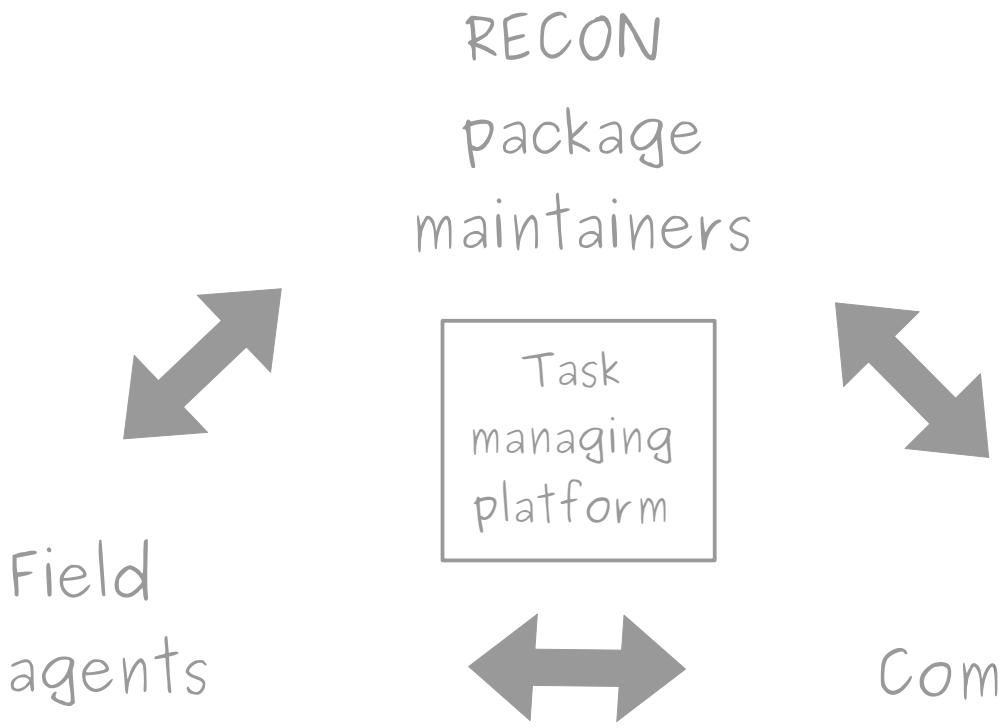


GitHub frontend

COVID-19 challenge



COVID-19 challenge

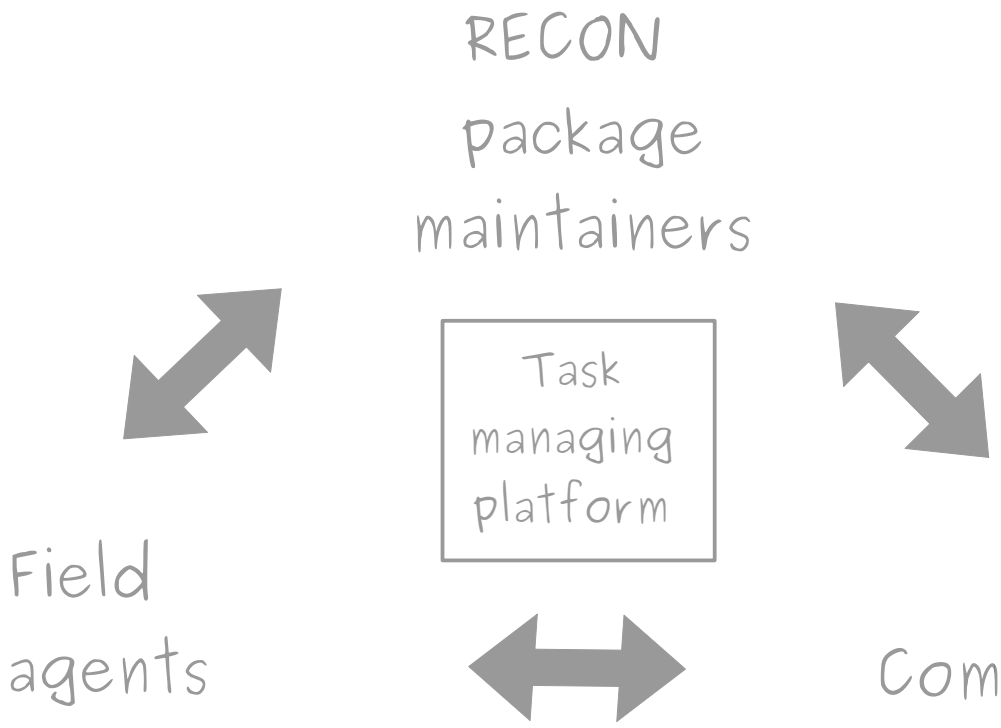


GitHub frontend

Easily submit task

COVID-19 challenge

COVID-19 challenge

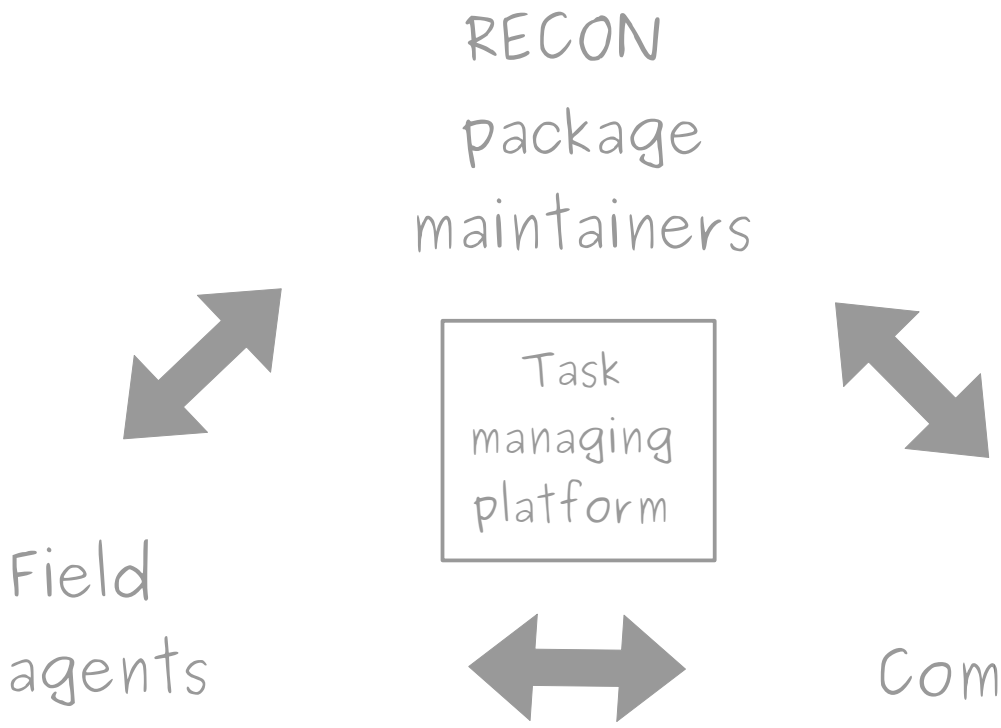


GitHub frontend

Easily submit task

Easily browse tasks

COVID-19 challenge



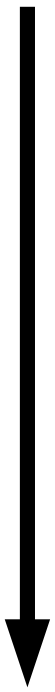
GitHub frontend

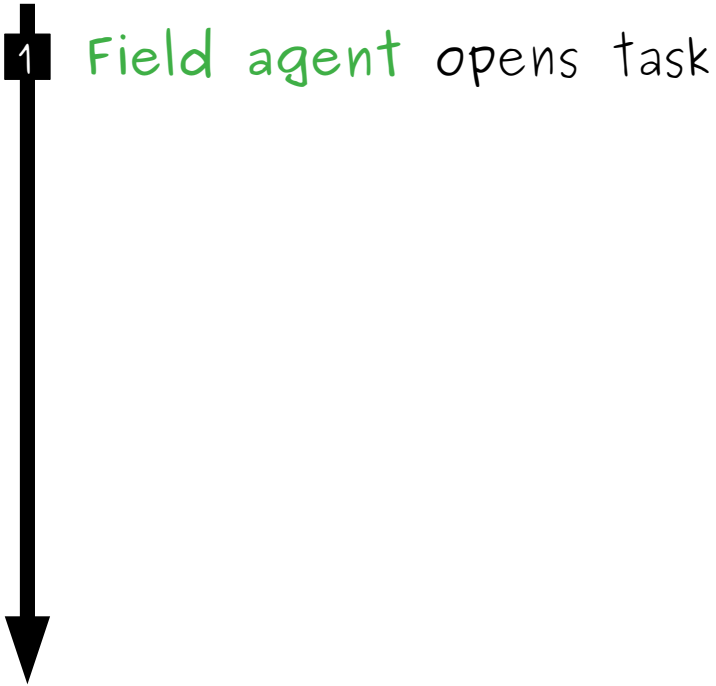
Easily submit task

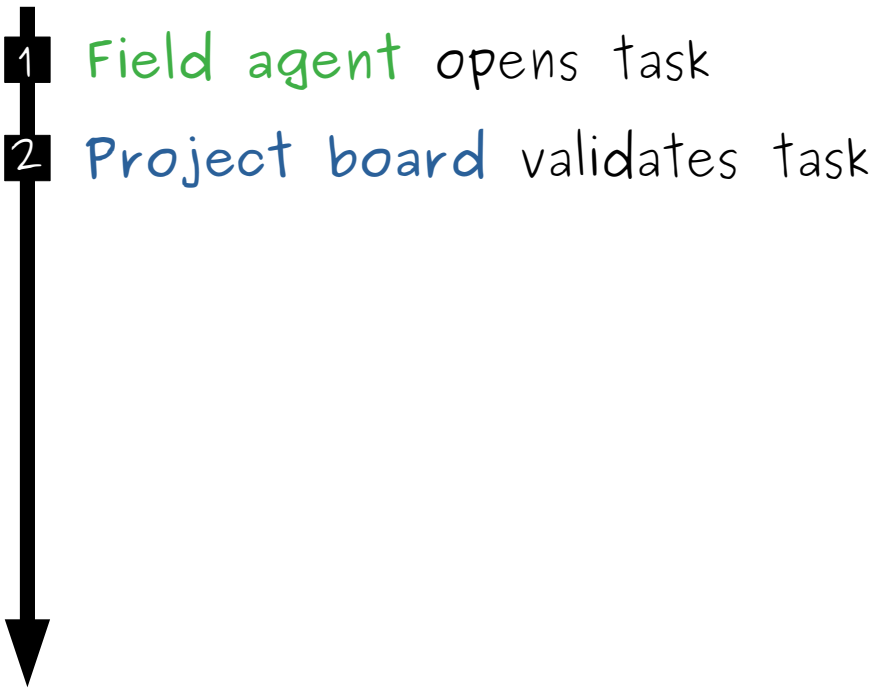
Easily browse tasks

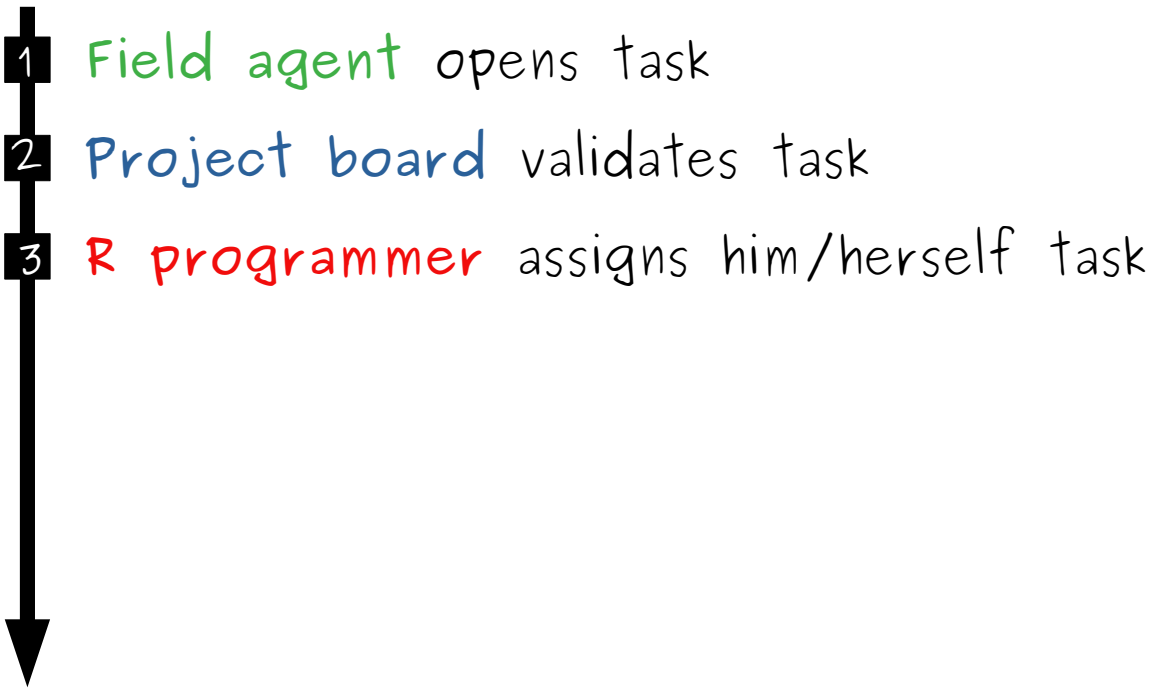
Classify tasks

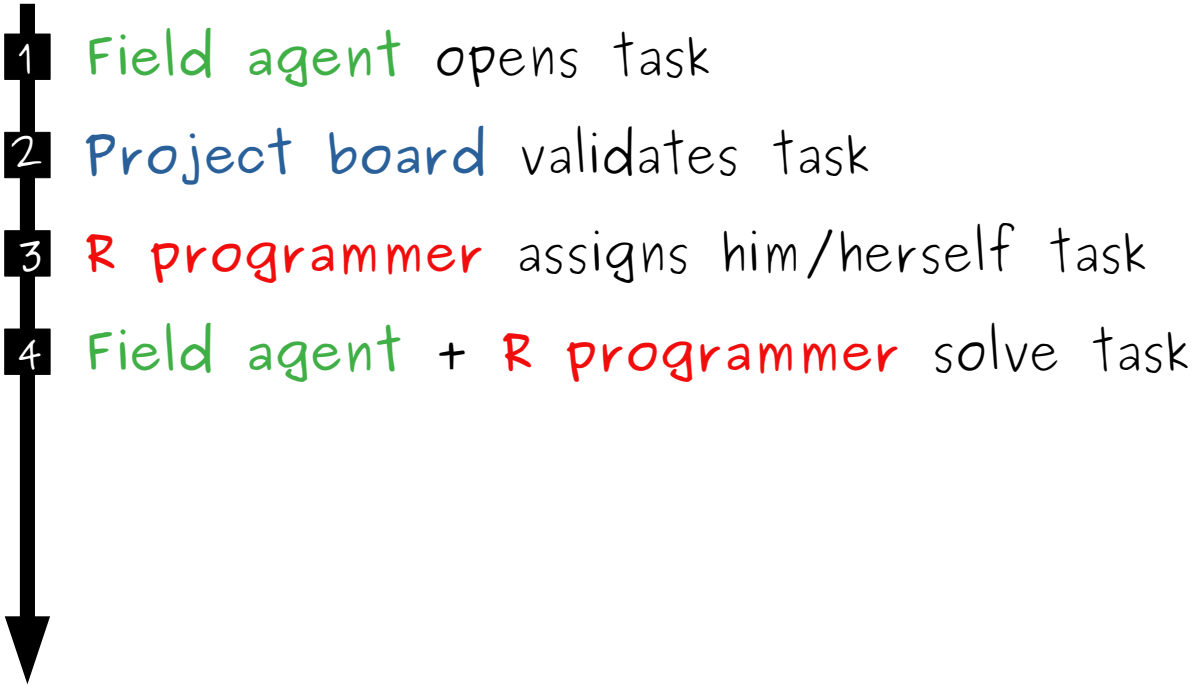
Task Lifecycle

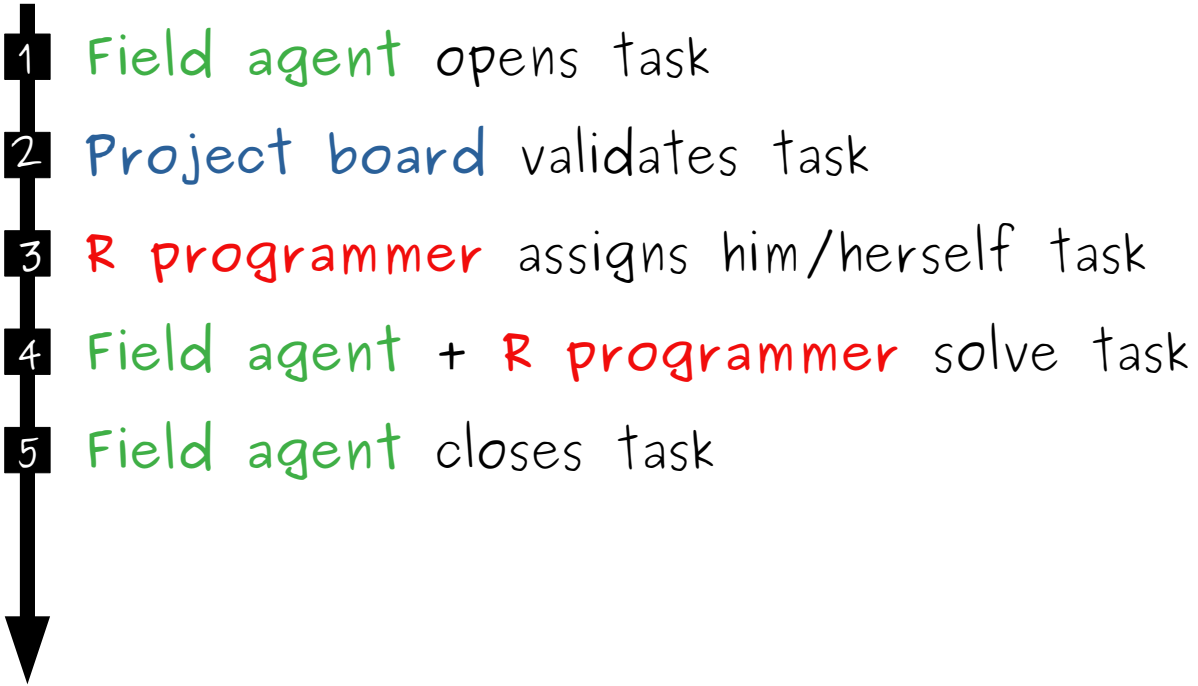



1
Field agent opens task

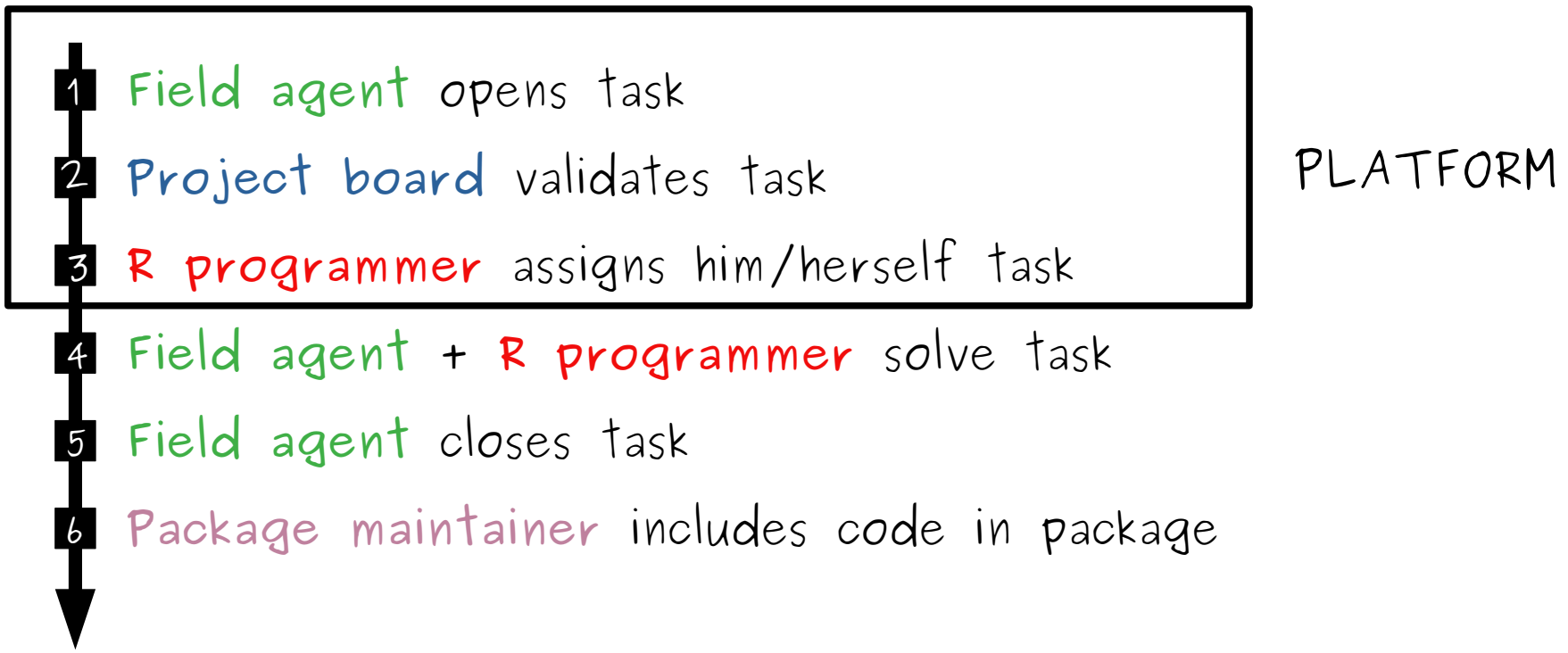

1 Field agent opens task
2 Project board validates task

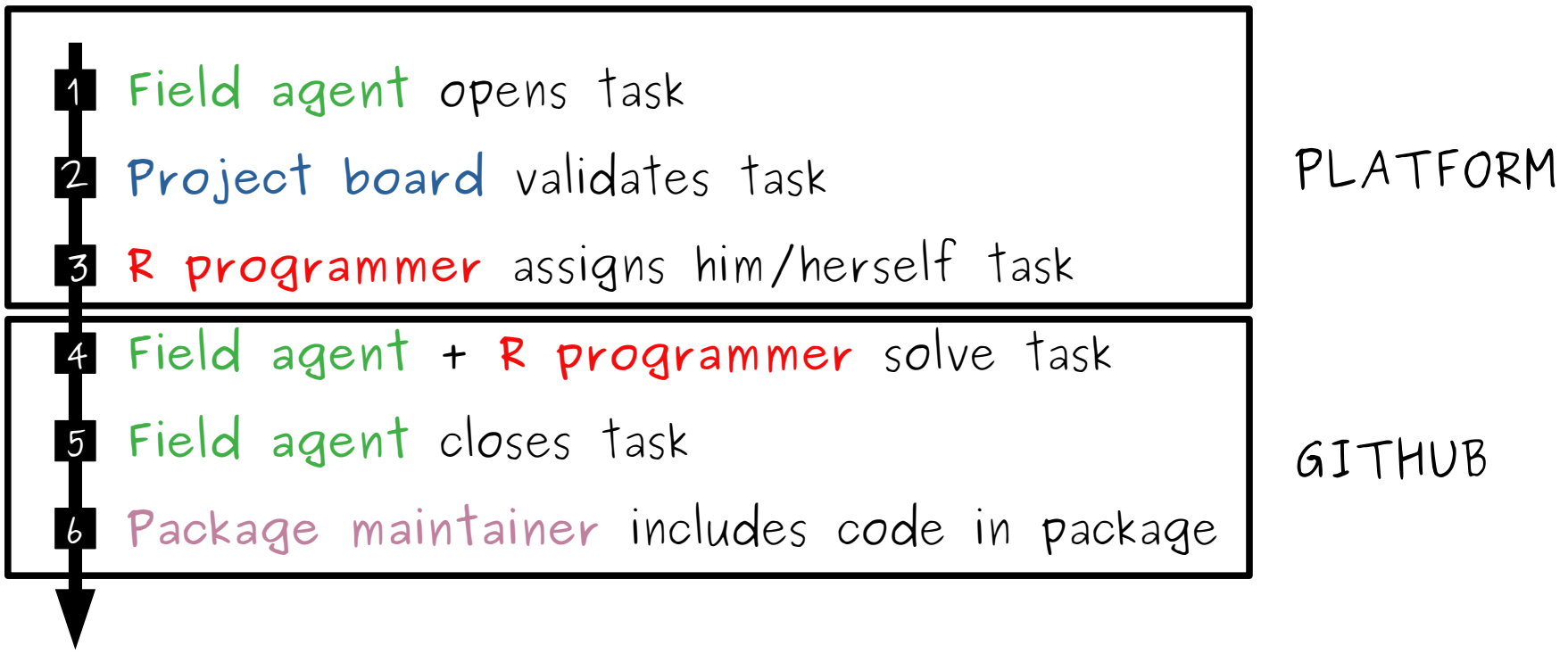

1 Field agent opens task
2 Project board validates task
3 R programmer assigns him/herself task

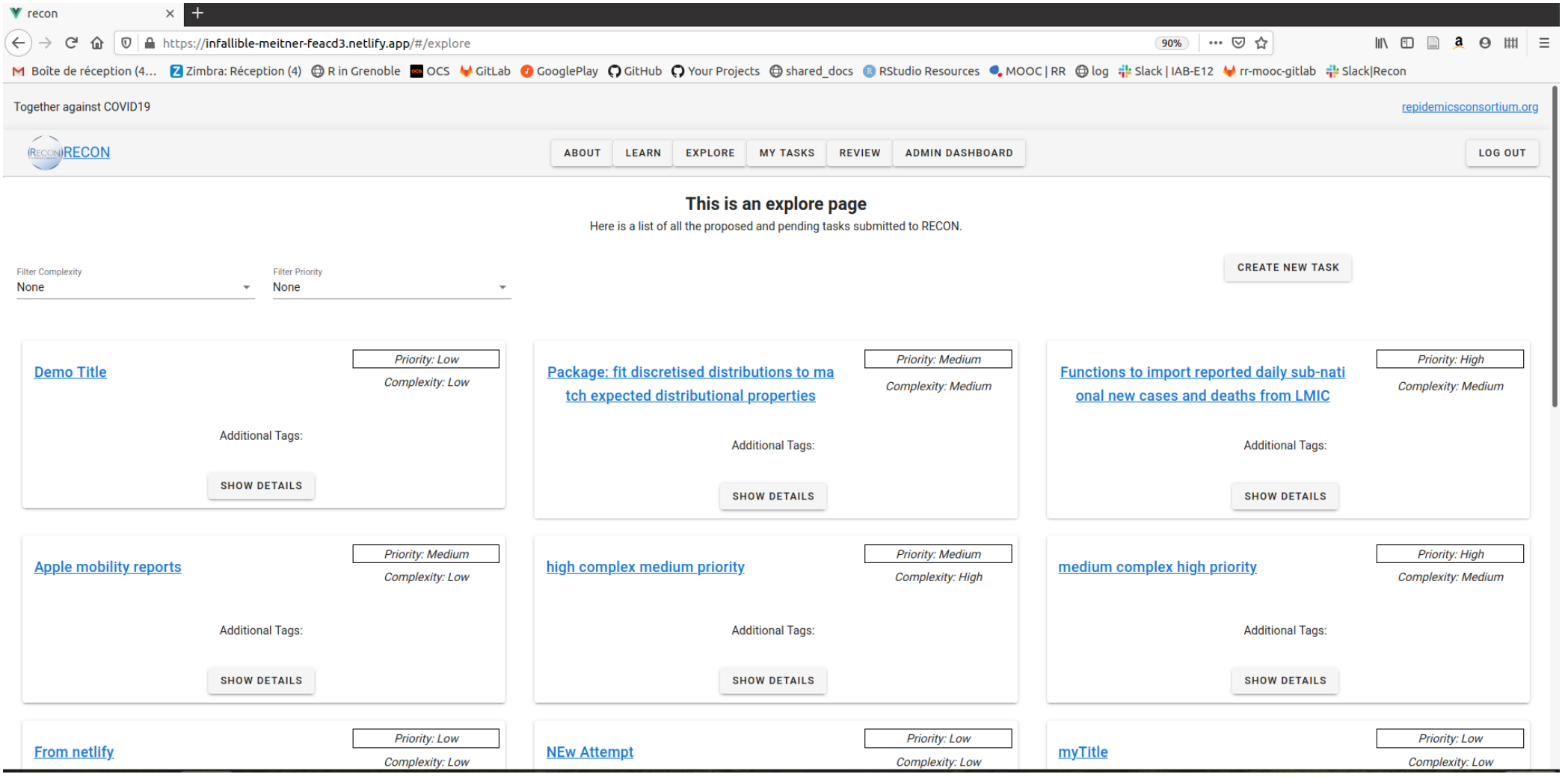

1 Field agent opens task
2 Project board validates task
3 R programmer assigns him/herself task
4 Field agent + R programmer solve task

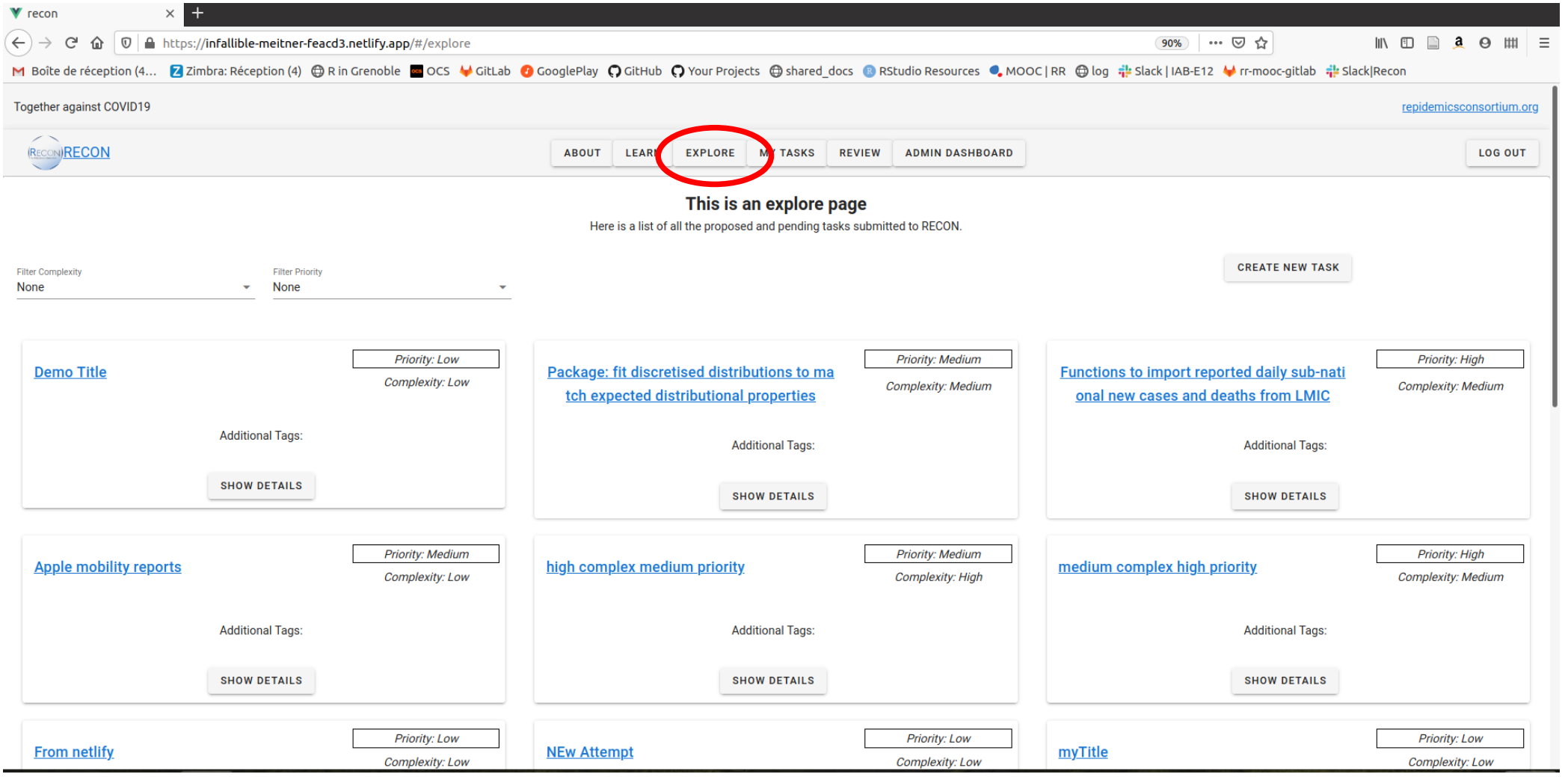

1 Field agent opens task
2 Project board validates task
3 R programmer assigns him/herself task
4 Field agent + R programmer solve task
5 Field agent closes task

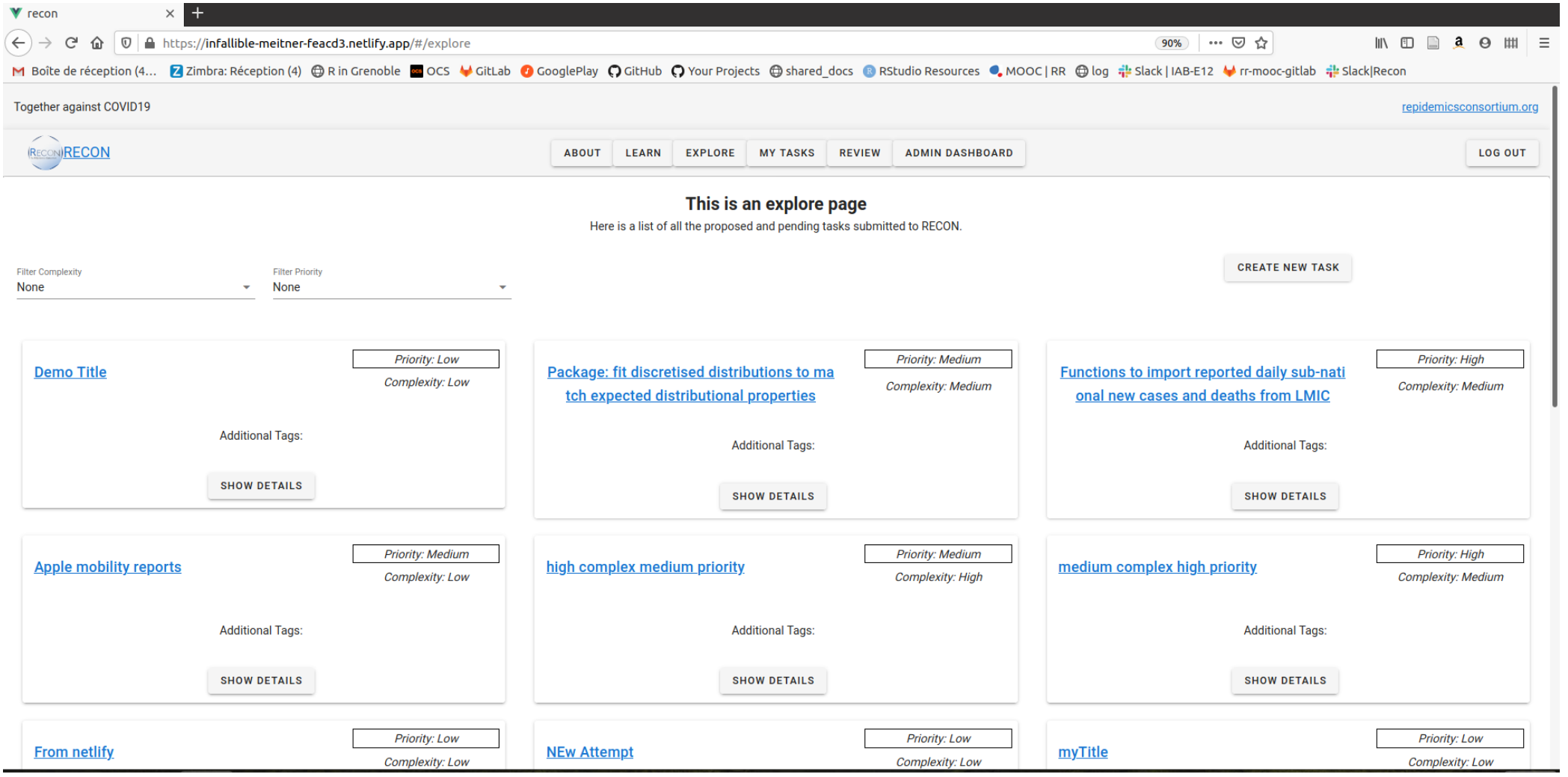
1. Field agent opens task
2. Project board validates task
3. R programmer assigns him/herself task
4. Field agent + R programmer solve task
5. Field agent closes task
6. Package maintainer includes code in package

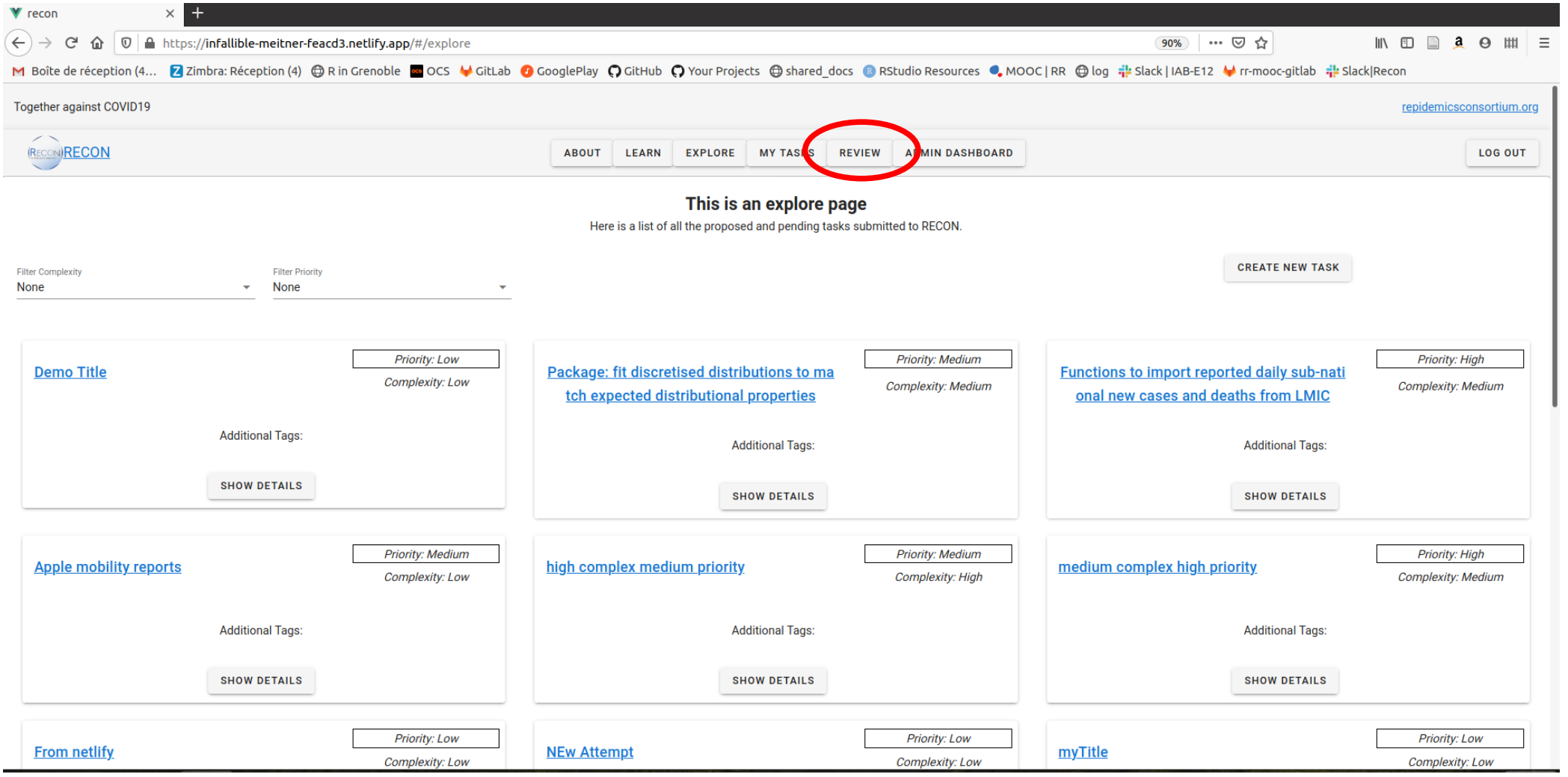

1 Field agent opens task
2 Project board validates task
3 R programmer assigns him/herself task
PLATFORM
4 Field agent + R programmer solve task
5 Field agent closes task
6 Package maintainer includes code in package

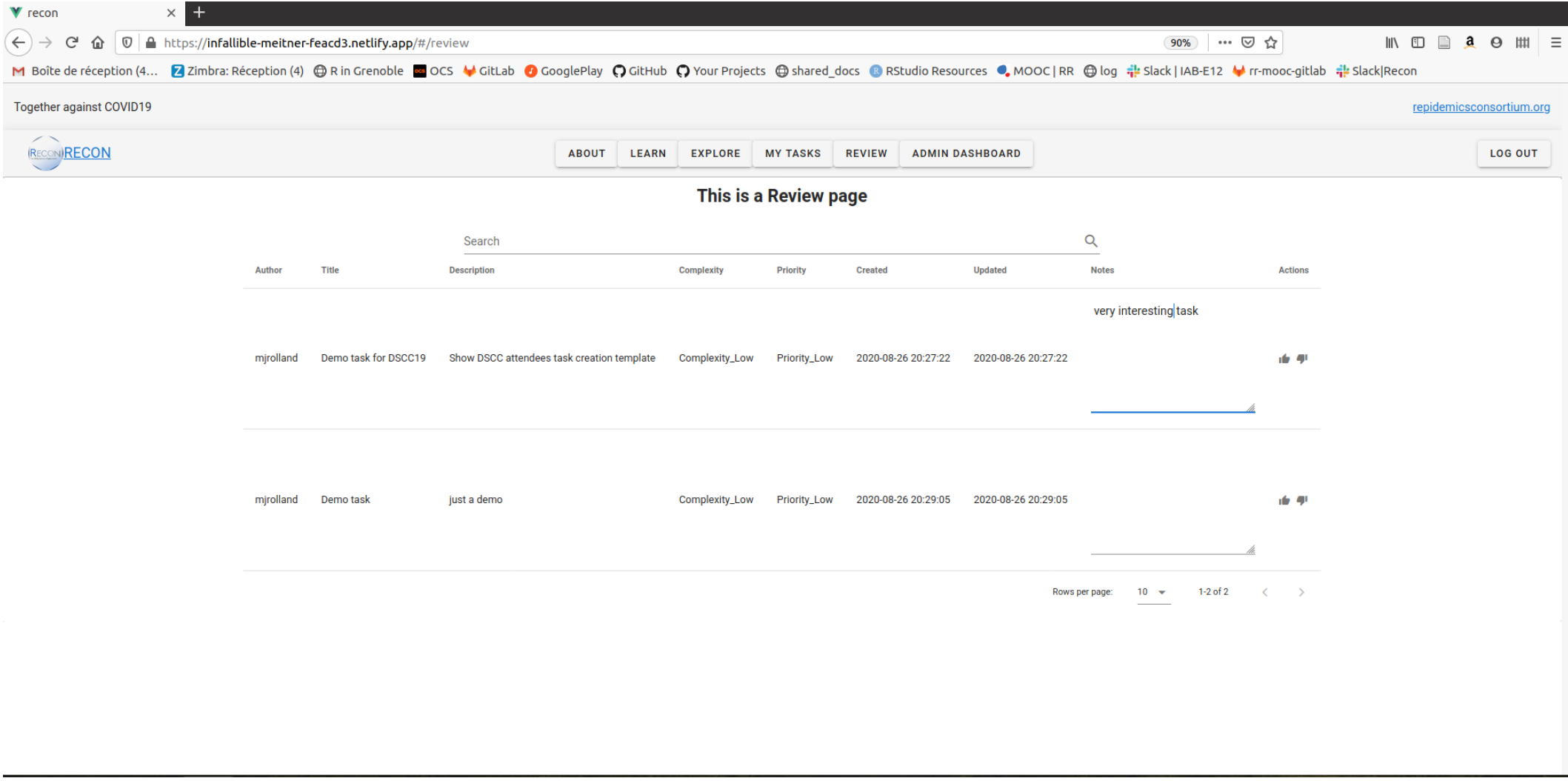

1 Field agent opens task
2 Project board validates task
3 R programmer assigns him/herself task
4 Field agent + R programmer solve task
5 Field agent closes task
6 Package maintainer includes code in package
PLATFORM
GITHUB


recon
https://infallible-meitner-feacd3.netlify.app/#/explore
90%
Boîte de réception (4...
Zimbra: Réception (4)
R in Grenoble
OCS
GitLab
GooglePlay
GitHub
Your Projects
shared_docs
RStudio Resources
MOOC | RR
log
Slack | IAB-E12
rr-mooc-gitlab
Slack|Recon
Together against COVID19
repidemicsconsortium.org
RECON
ABOUT
LEARN
EXPLORE
MY TASKS
REVIEW
ADMIN DASHBOARD
LOG OUT
This is an explore page
Here is a list of all the proposed and pending tasks submitted to RECON.
Filter Complexity
None
Filter Priority
None
CREATE NEW TASK
Demo Title
Priority: Low
Complexity: Low
Additional Tags:
SHOW DETAILS
Package: fit discretised distributions to match expected distributional properties
Priority: Medium
Complexity: Medium
Additional Tags:
SHOW DETAILS
Functions to import reported daily sub-national new cases and deaths from LMIC
Priority: High
Complexity: Medium
Additional Tags:
SHOW DETAILS
Apple mobility reports
Priority: Medium
Complexity: Low
Additional Tags:
SHOW DETAILS
high complex medium priority
Priority: Medium
Complexity: High
Additional Tags:
SHOW DETAILS
medium complex high priority
Priority: High
Complexity: Medium
Additional Tags:
SHOW DETAILS
From netlify
Priority: Low
Complexity: Low
NEw Attempt
Priority: Low
Complexity: Low
myTitle
Priority: Low
Complexity: Low


recon
https://infallible-meitner-feacd3.netlify.app/#/explore
90%
Boîte de réception (4...
Zimbra: Réception (4)
R in Grenoble
OCS
GitLab
GooglePlay
GitHub
Your Projects
shared_docs
RStudio Resources
MOOC | RR
log
Slack | IAB-E12
rr-mooc-gitlab
Slack|Recon
Together against COVID19
repidemicsconsortium.org
RECON
ABOUT
LEARN
EXPLORE
MY TASKS
REVIEW
ADMIN DASHBOARD
LOG OUT
This is an explore page
Here is a list of all the proposed and pending tasks submitted to RECON.
Filter Complexity
None
Filter Priority
None
CREATE NEW TASK
Demo Title
Priority: Low
Complexity: Low
Additional Tags:
SHOW DETAILS
Package: fit discretised distributions to match expected distributional properties
Priority: Medium
Complexity: Medium
Additional Tags:
SHOW DETAILS
Functions to import reported daily sub-national new cases and deaths from LMIC
Priority: High
Complexity: Medium
Additional Tags:
SHOW DETAILS
Apple mobility reports
Priority: Medium
Complexity: Low
Additional Tags:
SHOW DETAILS
high complex medium priority
Priority: Medium
Complexity: High
Additional Tags:
SHOW DETAILS
medium complex high priority
Priority: High
Complexity: Medium
Additional Tags:
SHOW DETAILS
From netlify
Priority: Low
Complexity: Low
NEw Attempt
Priority: Low
Complexity: Low
myTitle
Priority: Low
Complexity: Low


recon
https://infallible-meitner-feacd3.netlify.app/#/explore
90%
Boîte de réception (4...
Zimbra: Réception (4)
R in Grenoble
OCS
GitLab
GooglePlay
GitHub
Your Projects
shared_docs
RStudio Resources
MOOC | RR
log
Slack | IAB-E12
rr-mooc-gitlab
Slack|Recon
Together against COVID19
repidemicsconsortium.org
RECON
ABOUT
LEARN
EXPLORE
MY TASKS
REVIEW
ADMIN DASHBOARD
LOG OUT
This is an explore page
Here is a list of all the proposed and pending tasks submitted to RECON.
Filter Complexity
None
Filter Priority
None
CREATE NEW TASK
Demo Title
Priority: Low
Complexity: Low
Additional Tags:
SHOW DETAILS
Package: fit discretised distributions to match expected distributional properties
Priority: Medium
Complexity: Medium
Additional Tags:
SHOW DETAILS
Functions to import reported daily sub-national new cases and deaths from LMIC
Priority: High
Complexity: Medium
Additional Tags:
SHOW DETAILS
Apple mobility reports
Priority: Medium
Complexity: Low
Additional Tags:
SHOW DETAILS
high complex medium priority
Priority: Medium
Complexity: High
Additional Tags:
SHOW DETAILS
medium complex high priority
Priority: High
Complexity: Medium
Additional Tags:
SHOW DETAILS
From netlify
Priority: Low
Complexity: Low
NEw Attempt
Priority: Low
Complexity: Low
myTitle
Priority: Low
Complexity: Low


recon
https://infallible-meitner-feacd3.netlify.app/#/explore
90%
Boîte de réception (4...
Zimbra: Réception (4)
R in Grenoble
OCS
GitLab
GooglePlay
GitHub
Your Projects
shared_docs
RStudio Resources
MOOC | RR
log
Slack | IAB-E12
rr-mooc-gitlab
Slack|Recon
Together against COVID19
repidemicsconsortium.org
RECON
ABOUT
LEARN
EXPLORE
MY TASKS
REVIEW
ADMIN DASHBOARD
LOG OUT
This is an explore page
Here is a list of all the proposed and pending tasks submitted to RECON.
Filter Complexity
None
Filter Priority
None
CREATE NEW TASK
Demo Title
Priority: Low
Complexity: Low
Additional Tags:
SHOW DETAILS
Package: fit discretised distributions to match expected distributional properties
Priority: Medium
Complexity: Medium
Additional Tags:
SHOW DETAILS
Functions to import reported daily sub-national new cases and deaths from LMIC
Priority: High
Complexity: Medium
Additional Tags:
SHOW DETAILS
Apple mobility reports
Priority: Medium
Complexity: Low
Additional Tags:
SHOW DETAILS
high complex medium priority
Priority: Medium
Complexity: High
Additional Tags:
SHOW DETAILS
medium complex high priority
Priority: High
Complexity: Medium
Additional Tags:
SHOW DETAILS
From netlify
Priority: Low
Complexity: Low
NEw Attempt
Priority: Low
Complexity: Low
myTitle
Priority: Low
Complexity: Low


recon
https://infallible-meitner-feacd3.netlify.app/#/review
90%
Boîte de réception (4...
Zimbra: Réception (4)
R in Grenoble
OCS
GitLab
GooglePlay
GitHub
Your Projects
shared_docs
RStudio Resources
MOOC | RR
log
Slack | IAB-E12
rr-mooc-gitlab
Slack|Recon
Together against COVID19
repidemicsconsortium.org
RECON
ABOUT
LEARN
EXPLORE
MY TASKS
REVIEW
ADMIN DASHBOARD
LOG OUT
This is a Review page
Search
Author
Title
Description
Complexity
Priority
Created
Updated
Notes
Actions
very interesting task
mjrolland
Demo task for DSCC19
Show DSCC attendees task creation template
Complexity_Low
Priority_Low
2020-08-26 20:27:22
2020-08-26 20:27:22
mjrolland
Demo task
just a demo
Complexity_Low
Priority_Low
2020-08-26 20:29:05
2020-08-26 20:29:05
Rows per page:
10
1-2 of 2

recon

https://infallible-meitner-feacd3.netlify.app/#/review

90%

Boîte de réception (4... Zimbra: Réception (4) R in Grenoble OCS GitLab GooglePlay GitHub Your Projects shared_docs RStudio Resources MOOC | RR log Slack | IAB-E12 rr-mooc-gitlab Slack|Recon

Together against COVID19

repidemicsconsortium.org

RECON

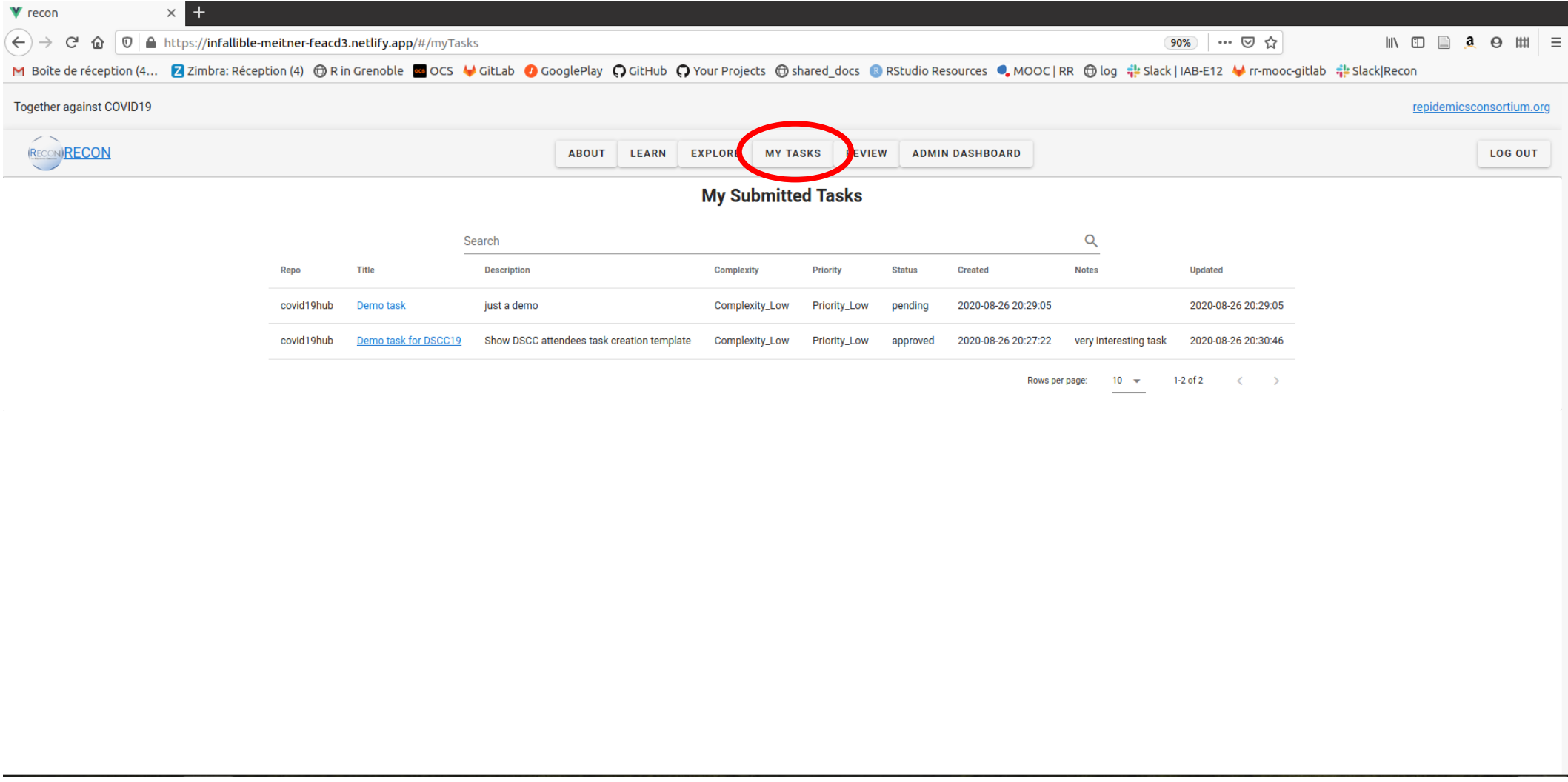
ABOUT LEARN EXPLORE MY TASKS REVIEW ADMIN DASHBOARD LOG OUT

This is a Review page

Search

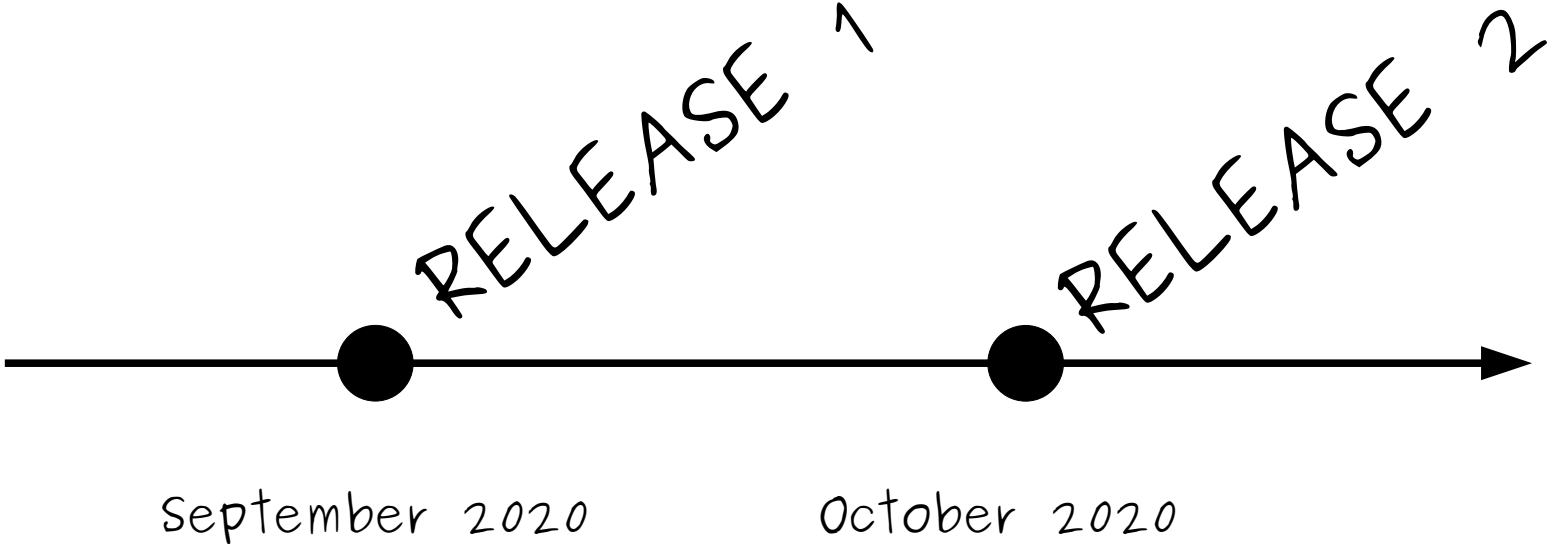
Author	Title	Description	Complexity	Priority	Created	Updated	Notes	Actions
							very interesting task	
mjrolland	Demo task for DSCC19	Show DSCC attendees task creation template	Complexity_Low	Priority_Low	2020-08-26 20:27:22	2020-08-26 20:27:22		
mjrolland	Demo task	just a demo	Complexity_Low	Priority_Low	2020-08-26 20:29:05	2020-08-26 20:29:05		

Rows per page: 10 1-2 of 2


recon
https://infallible-meitner-feacd3.netlify.app/#/myTasks
90%
Boîte de réception (4...
Zimbra: Réception (4)
R in Grenoble
OCS
GitLab
GooglePlay
GitHub
Your Projects
shared_docs
RStudio Resources
MOOC | RR
log
Slack | IAB-E12
rr-mooc-gitlab
Slack|Recon
Together against COVID19
repidemicsconsortium.org
RECON
ABOUT
LEARN
EXPLORE
MY TASKS
REVIEW
ADMIN DASHBOARD
LOG OUT
My Submitted Tasks
Search
Repo
Title
Description
Complexity
Priority
Status
Created
Notes
Updated
covid19hub
Demo task
just a demo
Complexity_Low
Priority_Low
pending
2020-08-26 20:29:05
2020-08-26 20:29:05
covid19hub
Demo task for DSCC19
Show DSCC attendees task creation template
Complexity_Low
Priority_Low
approved
2020-08-26 20:27:22
very interesting task
2020-08-26 20:30:46
Rows per page:
10
1-2 of 2

Milestones

Milestones



Join the response against COVID19!

Join the response against COVID19!

@RECONEPI

repidemicsconsortium@gmail.com

www.repidemicsconsortium.org

github.com/reconhub/

Thank you :)

Thank you :) %>%

Thank you :) %>%

questions() ?