

# **consortium**

Sustainable community  
investment in action

A look at some of the R Consortium Funded Grant Projects and Working Groups

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# R Consortium Momentum

**3**

years since  
launch

**\$650k+**

Grant dollars  
awarded

**28**

Supported  
Projects

**8**

Launched  
Working Groups

**150+**

Sponsored R  
Meetups

**15+**

Supported R  
Community  
Events

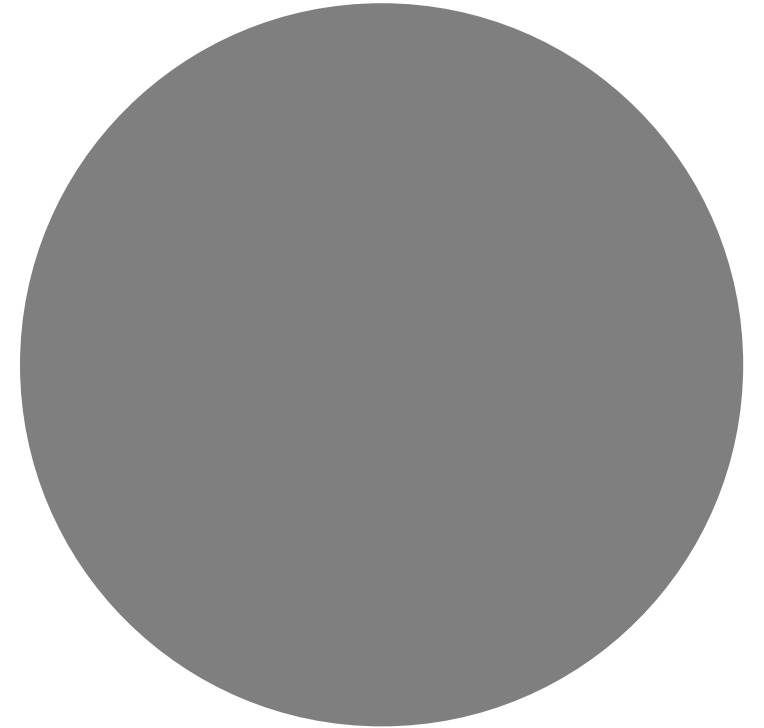
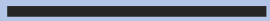
**40k+**

R users  
members of  
supported  
meetups

**3**

useR! events  
sponsored

# New 2018 Projects



# DBI Project - Kirill Müller

- DBI, R's database interface, is a set of methods declared in the DBI R package.
  - Communication with the database is implemented by DBI backends, packages that import DBI and implement its methods.
  - A common interface is helpful for both users and backend implementers.
- 
- The "Maintaining DBI" is a follow-up project is mostly about providing ongoing maintenance and support for:
    - DBI
    - The DBItest test suite
    - The three backends to open-source databases
      - RSQLite,
      - RMariaDB
      - RPostgres

# Infrastructure Development

- Jeroen Ooms

This project seeks to improve and maintain tools for providing binaries

- On Windows: upgrade the Rtools compiler toolchain, and provide up-to-date Windows builds for the many external C/C++ libraries used by CRAN packages.
- For MacOS: expand the r-hub "homebrew-cran" tap with formulas that are needed by CRAN packages but not available from upstream homebrew-core.
- Eventually: lay the foundation for a reproducible build system that is low maintenance, automated as much as possible.

# Tools and Templates for Teaching Materials - François Michonneau

- This project will develop tools to facilitate the development of consistent teaching resources
- Provide a technical framework to encourage collaborative lesson development

Teaching tools will be constructed from the many R resources for literate programming including:

- Sweave
- knitr
- Rmarkdown

# PSI Collaboration Project - Lyn Taylor (on behalf of PSI AIMS SIG)

Statisticians from the Pharmaceutical Industry (PSI) Application and Implementation of Methodologies in Statistics (AIMS) Special Interest Group (SIG) will collaborate with the R-Consortium and representatives from pharmaceutical companies to set up of an online repository.

- The repository will:
  - Provide the tools to conduct the regulatory standard validation for R packages.
  - Serve as a portal for sharing existing regulatory standard validation documentation.
  - Store packages and make them freely available.
- Companies (or individual R users) would still need to make their own assessment on whether the validation is suitable for their own use.

# A Unified Platform for Missing Values — Julie Josse and Nick Tierney

The objective is to create a reference platform the management of missing data management that will facilitate collaboration.

The platform will:

- List the existing packages, the available literature and tutorials.
- Provide a platform for integrating new work on the subject.
- Contain examples of analysis workflows.



# histoRicalg – A Project to Preserve and Transfer Algorithmic Knowledge - John C Nash

- Many of the algorithms underlying R code were written several decades ago in languages such as Fortran and C in which only a modest proportion of R users are fluent.
- Many original authors are no longer active.

The histoRicalg project aims to:

- Document and test codes older non-R code that are still part of R
  - Possibly creating all-R reference codes.
  - Teaming older and younger workers Facilitate knowledge transfer.
  - The initial task is to establish a working group on Algorithms Used in R .
- See <https://gitlab.com/nashjc/histoRicalg>

# Working Group on US Census Data – Ari Lamstein

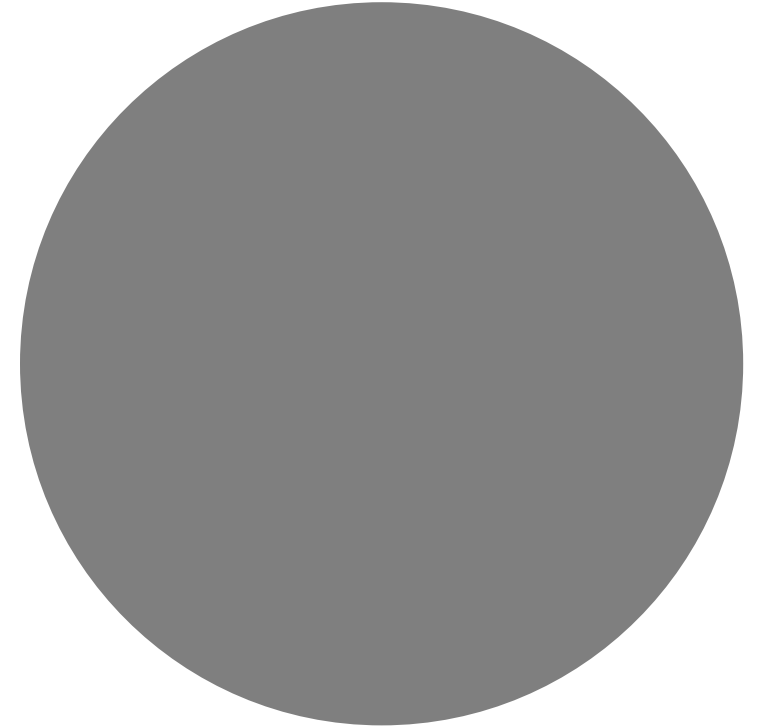
The working group aims to make life easier for R programmers who work with data from the US Census Bureau.

The Census Data working group will:

- Operate as a forum for working with census data under the guidance of the Census Bureau.
- Facilitate cooperation.
- Publish a guide to working with Census data in R.
- Help R programmers
  - Select packages that meet their needs.
  - Navigate the various Census Bureau datasets.

# Top Level Projects

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# RC RUGS 2018 Sponsorship Program

- 10 Conferences
- 94 User Groups
- \$39k in Grants







## R-Ladies Global

R-Ladies is a world-wide organization to promote gender diversity in the R community

Worldwide <http://rladies.org>

Repositories 119

People 16

Projects 0

### Pinned repositories

#### starter-kit

Guidelines for starting up a local R-Ladies chapter

♥ 🌐

R ★ 86 🍴 58

#### global

R-Ladies Global Strategic, Governance and Financial doc

♥ 🌐

★ 4 🍴 1

#### resources

R-Ladies Resources : Various resources for R-Ladies Global and to be shared across the community

♥ 🌐

HTML ★ 16 🍴 11

#### meetupr

R interface to the meetup.com API

R ★ 34 🍴 9

#### rladies\_global\_presentations

R-Ladies Global presentations

♥ 🌐 🌐

JavaScript ★ 5 🍴 1

#### rshiny lady

R-Ladies shiny dashboard

R ★ 10 🍴 2

# 75 + R-Ladies Groups Worldwide

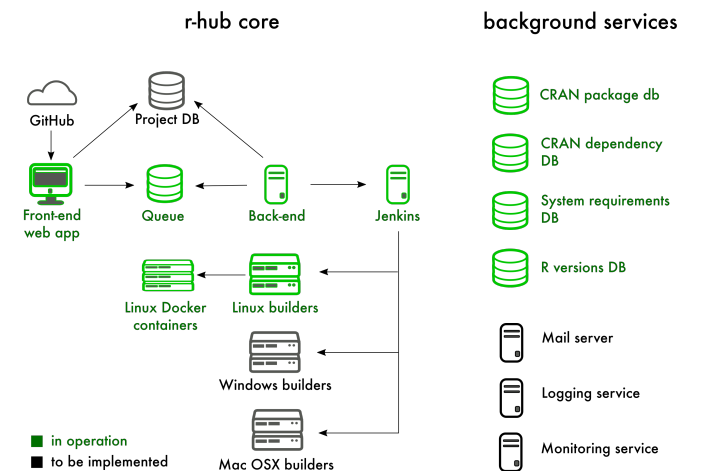


# R-Hub

A service for:

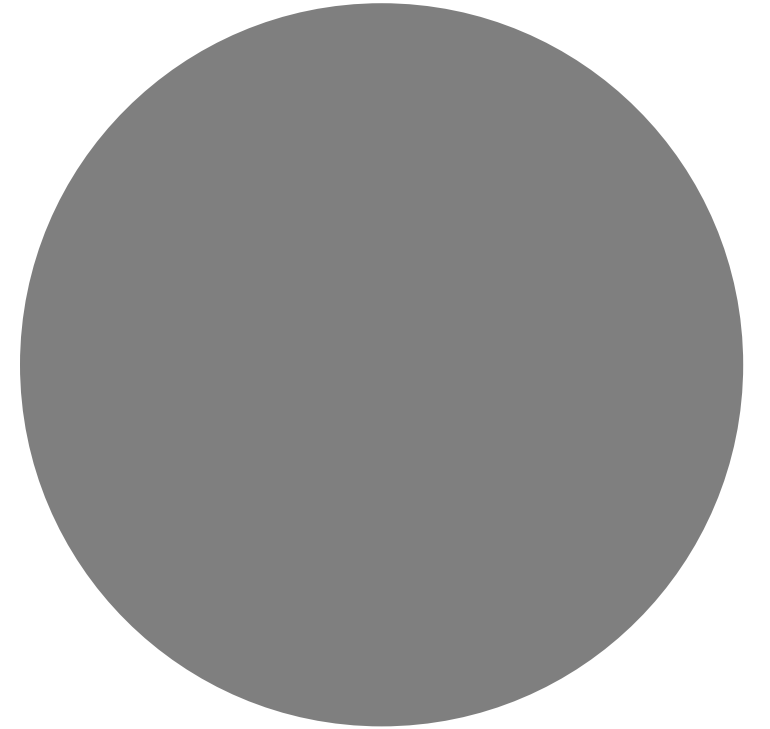
- Developing, building, testing and validating R packages
- Simplifying the R package development process

<https://builder.r-hub.io/>



# Working Groups

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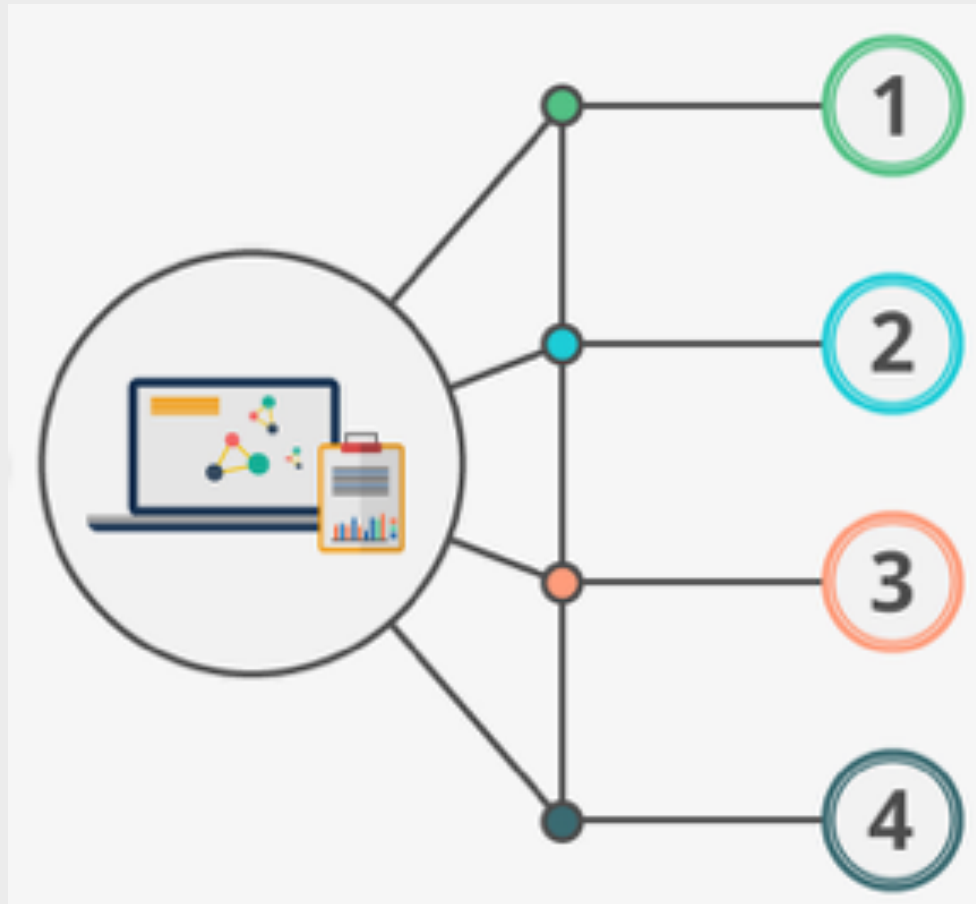


# Active ISC Working Groups

- [Future-proof native APIs for R](#): This working groups will assess current native API usage, gather community input, and work towards an easy-to-understand, consistent and verifiable API that will drive R language adoption.
- [Code Coverage Tool for R](#): Helping to improve software quality, the code coverage tool will address feature and platform limitations of existing tools while also promoting the use of code coverage more systematically within the R ecosystem.
- [A Unified Framework for Distributed Computing in R](#): Develop a common framework to simplify and standardize how users program distributed applications in R
- [R Certification](#): Working to establish a common certification program for proficiency in R
- [R in Medicine](#): A community of R users in the medical industry collaborating on events and advocacy of R.
- [R in Pharma](#): A community of R users in the pharmaceutical industry collaborating on events and advocacy of R.
- [R Community Diversity and Inclusion Working Group](#): A group broadly consider how the R Consortium can best encourage and support diverse and inclusion in the R Community
- Working Group on US Census Data: a forum for working with census data under the guidance of the Census Bureau.



# Get Involved!!



Visit R Consortium website  
<https://www.r-consortium.org/>

Learn about ISC funded and sponsored work  
<https://www.r-consortium.org/projects/>

Learn about the RUGS program  
<https://www.r-consortium.org/projects/r-user-group-support-program>

Ask your company to join the R Consortium  
<https://www.r-consortium.org/about/join>