R Consortium Update

Lou Bajuk-Yorgan
Chairman, Board of Directors, R Consortium
Sr. Director, Product Management, TIBCO
Twitter: @loubajuk
A non-profit trade organization supporting the R Community.

Founded June 2015.
Why an R Consortium?

Technical Capability
Governance
Vendor Support
Community Resources
Talent Pool
Legal Clarity

The Value of Software lies in its ecosystem
Why a Linux Foundation Project?

• Easy to get started
• Experience
• Staff & Infrastructure
• International recognition
• Trust
• 501(c)(6)
• Overhead
Goals

• Promote growth and development of R as leading platform for data science
• Support the R Foundation
• Fund projects to support R and community
• Foster growth of R community
• Enable use of R in commercial environments
• Foster collaboration between companies for the benefit of members and the community
Structure

Board of Directors
• Governance, budget, etc.

Infrastructure Steering Committee
• Grant review / awards
• Working groups

Membership
• R Foundation member
• Platinum Member ($100k)
• Gold Member ($50k)
• Silver Member ($25k / $10k)
Why join the R Consortium?

• Help fund key R infrastructure and ecosystem needs
• Generate industry-wide support for projects that you see as valuable
• Have a voice in the process of selecting projects and the opportunity to guide their development.
• Direct access to the R Foundation, via Board and ISC participation
• Insight into important developments in the the R Community and the extended R ecosystem
What drives TIBCO’s participation?

• Contribute to the success of R. Vested interest with integration of R in our products
  • Visual Analytics/Data Discovery (Spotfire)
  • Streaming Analytics (StreamBase)
  • Data Science (Statistica)—new acquisition

• Ecosystem support and compatibility with TIBCO Enterprise Runtime for R (TERR)
  • Alternative implementation of the R language, focused on performance and embeddability for enterprise applications

• History as the makers of S-PLUS, which shares same root as R in the S Language
  • We’ve been doing “R” since before R existed

• Be a good citizen of the R Community
Infrastructure Projects
ISC Projects

- Infrastructure
- Education
- Documentation
- Production use of R
- Package ecosystem

- Grants fund developers
  - Funds allocated for 22 projects, totaling ~$460K
ISC Working Groups

What they are:
• Projects for exploring new technology
• Forums for achieving consensus
• The mechanism for organizing and executing large collaborative projects

Benefits:
• Sponsored by the R Consortium
• Receive attention from the R Foundation
• Visible to the greater R Community
• Receive administrative support from the R Consortium
R-hub: R package building service

- Services that ease all steps the R package development process.
- Make these services free for all members of the community.
- Allow community contributions to R-hub itself.
- Make CRAN maintainers' work easier by pre-testing CRAN package submissions.
- $85,000, Jan 2016 — Feb 2017
R Localization (RL10N):

- Richie Cotton (Weill Cornell Medicine in Qatar) and Thomas Leeper (The London School of Economics)
- Majority of R packages in English only
- RL10N project will make it easier for R developers to include translations in their own packages
- Plan:
  - Improve msgtools package
  - New package to adapt MTurkR for managing translation
  - New package to adapt translateR for automated translations
Code Coverage Tool for R

- Develop a tool for R that determines code coverage upon execution of a test suite
- Improve software quality
- Promoting the use of code coverage more systematically within the R ecosystem


Working Group Members
- Shivank Agrawal, Oracle
- Chris Campbell, Mango Solutions
- Santosh Chaudhari, Oracle
- Karl Forner, Quartz Bio
- Jim Hester, RStudio
- Mark Hornick, Oracle – Group Leader
- Chen Liang, Oracle
- Willem Ligtenberg, Open Analytics
- Andy Nicholls, Mango Solutions
- Vlad Sharanhovich, Oracle
- Tobias Verbeke, Open Analytics
- Qin Wang, Oracle
- Hadley Wickham, RStudio – ISC Sponsor
Improving Database Interface (DBI):

- Kirill Müller (ETH Zürich)
- Improve database access in R so that porting code is simplified and less prone to error
- Plan:
  - Create a DBI specification, centralized test and boiler plate for DBI backends
  - Improve existing DBI backends to adhere to the standard
  - Focus on RMySQL, RPostgres and RSQLite
- https://github.com/rstats-db/DBItest
Community Projects
.. to over 35 R-Ladies Chapters!!

~4000
R-Ladies Meetup Members

~6470
Twitter Followers

~100
Events
Recent work

- Survey for the R User Community

- 10 new projects recently funded, kicking off soon
  - [https://www.r-consortium.org/blog/2017/04/03/q1-2017-isc-grants](https://www.r-consortium.org/blog/2017/04/03/q1-2017-isc-grants)

- New round of proposals later this year
How can I get involved?

• Advocate for your organization to join the R Consortium
• Submit proposals to the ISC for projects and working groups
• Browse existing projects, and volunteer to help
• Follow us and help spread the word
  • Twitter @RConsortium
  • Blog https://www.r-consortium.org/news/blog
Thank You

R consortium