# **Changes on CRAN** 2021-07-01 to 2021-12-31

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In the past 6 months, 1077 new packages were added to the CRAN package repository. 113 packages were unarchived and 331 were archived. The following shows the growth of the number of active packages in the CRAN package repository:



On 2021-12-31, the number of active packages was around 18650.

## Changes in the CRAN Repository Policy

The Policy now says the following:

- You can check that the submission was received by looking at https://CRAN.Rproject.org/incoming/.
- A package showing issues for macos-arm64 or an 'M1mac' additional issue should be checked using the macbuilder service prior to re-submission.

#### **CRAN** package submissions

During the last half of 2021 (July 2021 to December 2021), CRAN received 12256 package submissions. For these, 21622 actions took place of which 14232 (66%) were auto processed actions and 7390 (34%) manual actions.

Minus some special cases, a summary of the auto-processed and manually triggered actions follows:

	archive	inspect	newbies	pending	pretest	publish	recheck	waiting
auto	2748	2722	2577	0	0	3899	1362	924
manual	2760	102	336	464	91	2797	671	169

These include the final decisions for the submissions which were

738

action	archive	publish
auto	2586 (21.5%)	3336 (27.8%)
manual	2728 (22.7%)	3351 (27.9%)

where we only count those as *auto* processed whose publication or rejection happened automatically in all steps.

Interestingly, for the first time in CRAN's history there was a decrease in the number of submissions:

Year	1st half	2nd half
2018	NA	10259
2019	13218	12938
2020	17598	13510
2021	16339	12256

#### **CRAN** mirror security

Currently, there are 101 official CRAN mirrors, 83 of which provide both secure downloads via 'https' *and* use secure mirroring from the CRAN master (via rsync through ssh tunnels). Since the R 3.4.0 release, chooseCRANmirror() offers these mirrors in preference to the others which are not fully secured (yet).

## **CRAN Task View Initiative**

To facilitate the maintenance of established CRAN task views as well as the proposal of new ones, a new improved and much more transparent workflow has been established. It is overseen by the newly established *CRAN Task View Editors*: Roger Bivand, Dirk Eddelbuettel, Rocío Joo, David Meyer, Heather Turner, Nathalie Vialaneix, and Achim Zeileis. More details can be found in the corresponding organization on GitHub: https://github.com/cran-task-views/ctv/. Currently, the focus is on the transition of the established task views to the new workflow which also involves the archival of some task views which turned out to be too broad to be maintainable (*Graphics* and *SocialSciences*). Also, the *gR* task view has been renamed to *GraphicalModels*. When the transition is completed, a more detailed introduction with further details and instructions will be published soon.

#### New packages in CRAN task views

Bayesian BayesianTools, MHadaptive, RoBMA.

Cluster factoextra.

Databases dittodb.

DifferentialEquations diffeqr.

Econometrics pdynmc, ssmrob.

Finance DOSPortfolio, HDShOP, RTL, bidask, etrm, greeks, ichimoku, monobin, strand.

FunctionalData MFPCA, registr.

*Hydrology* HBV.IANIGLA, NPRED, RavenR, WASP, hydropeak, hydrotoolbox, metR, nhdR, nhdplusTools, prism.

*MachineLearning* abess<sup>\*</sup>, islasso, joinet, mpath, torch.

MetaAnalysis amanida, metadat, nmarank, ra4bayesmeta.

MissingData BMTAR, Iscores, MGMM, cglasso, cmfrec, mdgc, mgm.

ModelDeployment lightgbm.

NumericalMathematics FixedPoint, GramQuad, bignum, rim.

OfficialStatistics SimSurvey, eurostat, insee, rdhs, tidyBdE.

Optimization gslnls, stochQN.

Psychometrics DIFplus, semtree.

*ReproducibleResearch* Require, gt, huxtable, makepipe, pharmaRTF, r2rtf, reproducible, styler, unrtf.

Robust RobStatTM.

*TimeSeries* BGVAR, GlarmaVarSel, STFTS, brolgar, esemifar, mrf, mvLSW, profoc, rdbnomics, synthesis, tsBSS, tsdb, tssim, uGMAR, ugatsdb.

(\* = core package)

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