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Scientific software

READY4 - A PROTOTYPE SOFTWARE FRAMEWORK FOR TRANSPARENT, REUSABLE AND UPDATABLE HEALTH ECONOMIC MODELS

The ready4 documentation website is `https://ready4-dev.com`.

The six R libraries that implement ready4 are detailed below and also at `https://www.ready4-dev.com/docs/software/libraries/releases/`.

ready4 - Implement Modular and Open-Source Health Economic Models

https://doi.org/10.5281/zenodo.5606250

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15 December 2023

ready4class - Author and Document Classes that Make Health Economic Models Modular

https://doi.org/10.5281/zenodo.5640313

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03 October 2023

ready4fun - Author and Document Functions that Implement Transferable Health Economic Model Algorithms

https://doi.org/10.5281/zenodo.5611779

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01 December 2023

ready4pack - Author R Packages of Health Economic Model Modules

https://doi.org/10.5281/zenodo.5644322

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03 October 2023

ready4show - Author Health Economic Analysis Programs and Reporting Templates

https://doi.org/10.5281/zenodo.5644568

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02 October 2023

ready4use - Author, Ingest, Label and Share Health Economic Model Datasets

https://doi.org/10.5281/zenodo.5644336

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02 October 2023

READYFORWHATSNEXT - AN OPEN SOURCE ECONOMIC MODEL OF YOUTH MENTAL HEALTH

The readyforwhatsnext model is documented at `https://readyforwhatsnext.org/`.

Currently available R libraries that implement the readyforwhatsnext model are listed below and also at `https://readyforwhatsnext.org/docs/tutorials/finding/libraries/`.

aus - Model Australian Spatial Data

https://doi.org/10.5281/zenodo.7687126

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04 October 2023

bimp - Undertake Health Economic Budget Impact Analysis.

https://doi.org/10.5281/zenodo.5889462

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costly - Develop, Use and Share Unit Cost Datasets for Health Economic Analysis

https://doi.org/10.5281/zenodo.5606250

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heterodox - Explore and Characterise Heterogeneity in Quality of Life Data

https://doi.org/10.5281/zenodo.5751193

Caroline Gao and Matthew Hamilton

04 October 2023

mychoice - Model Youth Choice Behaviours

Matthew Hamilton

https://doi.org/10.5281/zenodo.7213799
04 October 2023

scorz - Score Multi-Attribute Utility Instruments

Matthew Hamilton and Caroline Gao

https://doi.org/10.5281/zenodo.5722708
03 October 2023

specific - Specify Models to Solve Inverse Problems

Matthew Hamilton and Caroline Gao

https://doi.org/10.5281/zenodo.5768689
04 October 2023

TTU - Implement Transfer to Utility Mapping Algorithms

Caroline Gao and Matthew Hamilton

https://doi.org/10.5281/zenodo.5646593
04 October 2023

vicinity - Model Spatial Features of Health Systems

Matthew Hamilton

https://doi.org/10.5281/zenodo.7623630
04 October 2023

youthu - Transform Youth Outcomes to Health Utility Predictions

Matthew Hamilton and Caroline Gao

https://doi.org/10.5281/zenodo.5646668
04 October 2023

youthvars - Describe and Validate Youth Mental Health Dataset Variables

Matthew Hamilton and Caroline Gao

https://doi.org/10.5281/zenodo.5646550
03 October 2023

Replication programs for study design and analysis are detailed at: `https://readyforwhatsnext.org/docs/analyses/find/`

Study reporting templates (subroutines) are detailed at: `https://readyforwhatsnext.org/docs/reporting/`

User-interfaces are described at: `https://readyforwhatsnext.org/docs/decision-aids/`