



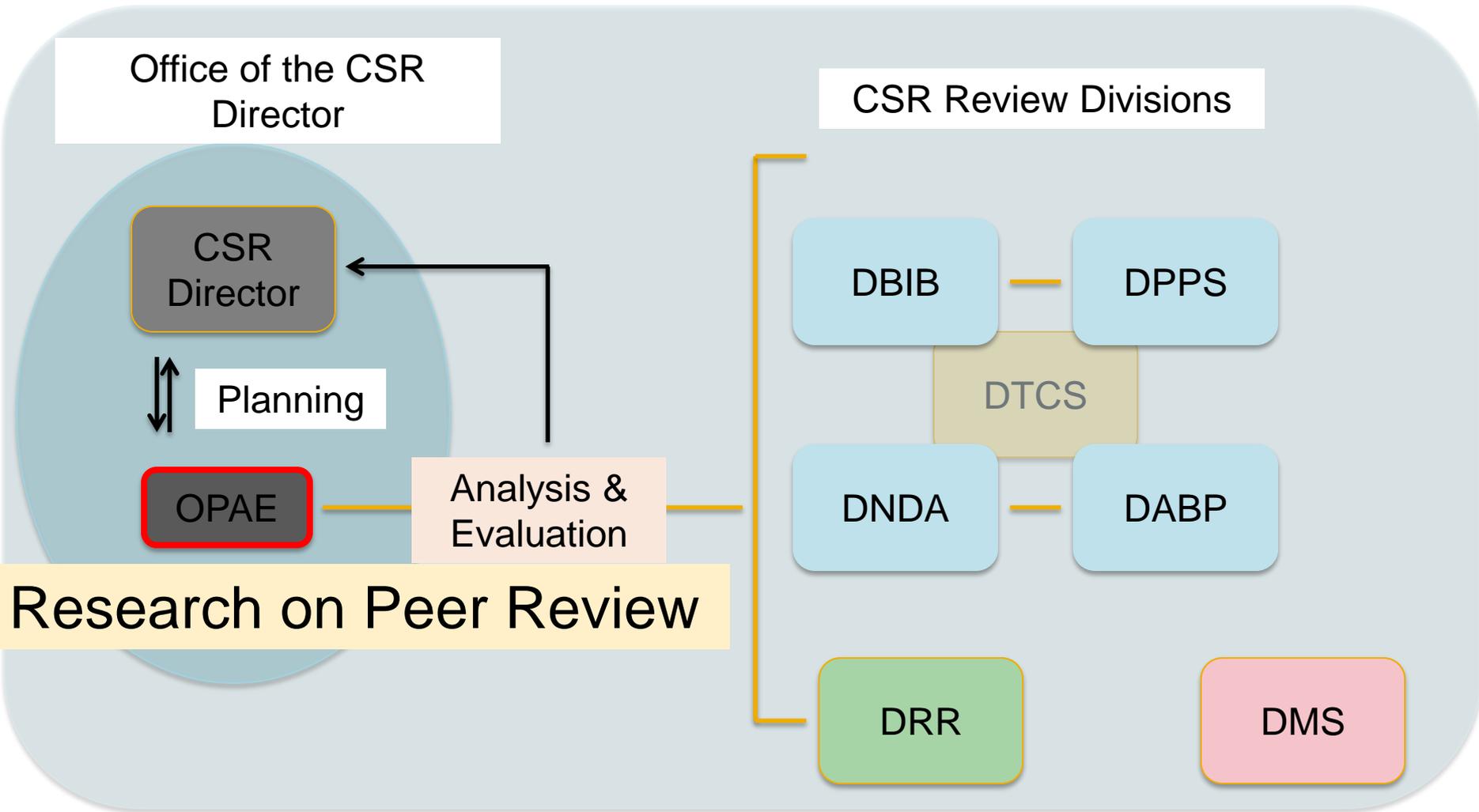
Center for
Scientific Review

OPAE: An Update

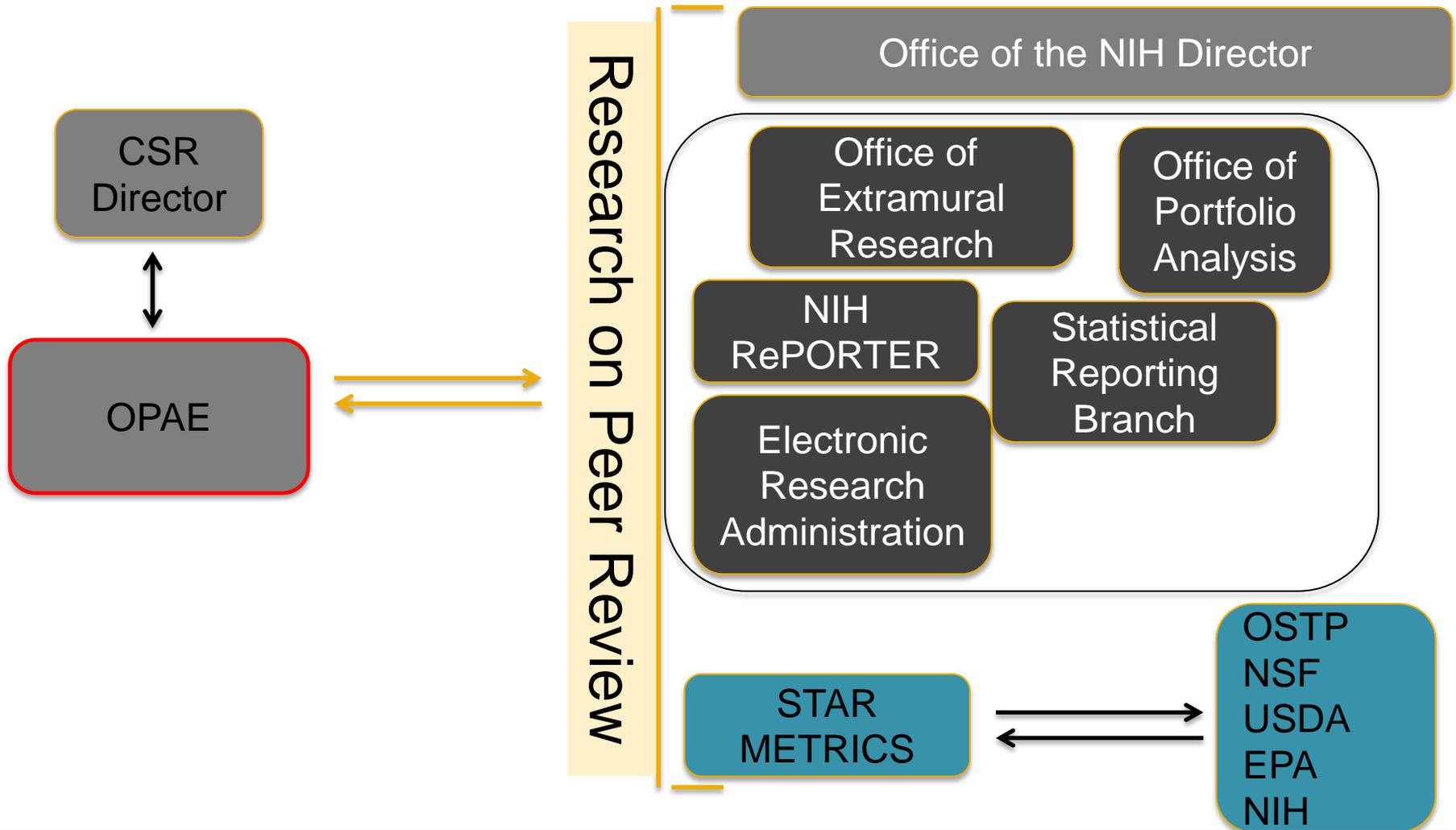
George Chacko

Director, Office of Planning, Analysis, and Evaluation

The Office of Planning, Analysis, & Evaluation



Interactions Within and Outside NIH



Core Interests of OPAAE

- Planning
 - Tactical
 - Strategic
- Analysis
 - Grant Applications
 - Reviewers
 - Peer Review Meetings
- Evaluation
 - Programs and Pilot Studies
 - Operations & Impact
 - Review Platforms

Research on Peer Review

Logistic and Staff
Support for Studies
Designed by CSR
Director

Senior Program Analyst



Mei-Ching Chen, PhD

Senior Developer



Paul A. Kennedy, MS

Senior SRO



Mary Ann Guadagno, PhD

Senior Program Analyst



Adrian Vancea, PhD

Operations Manager



Amanda Manning

Program Analyst



Chuck Dumais, MS

Building a Data Infrastructure

Open Source Only

Reference Data Sets

MySQL

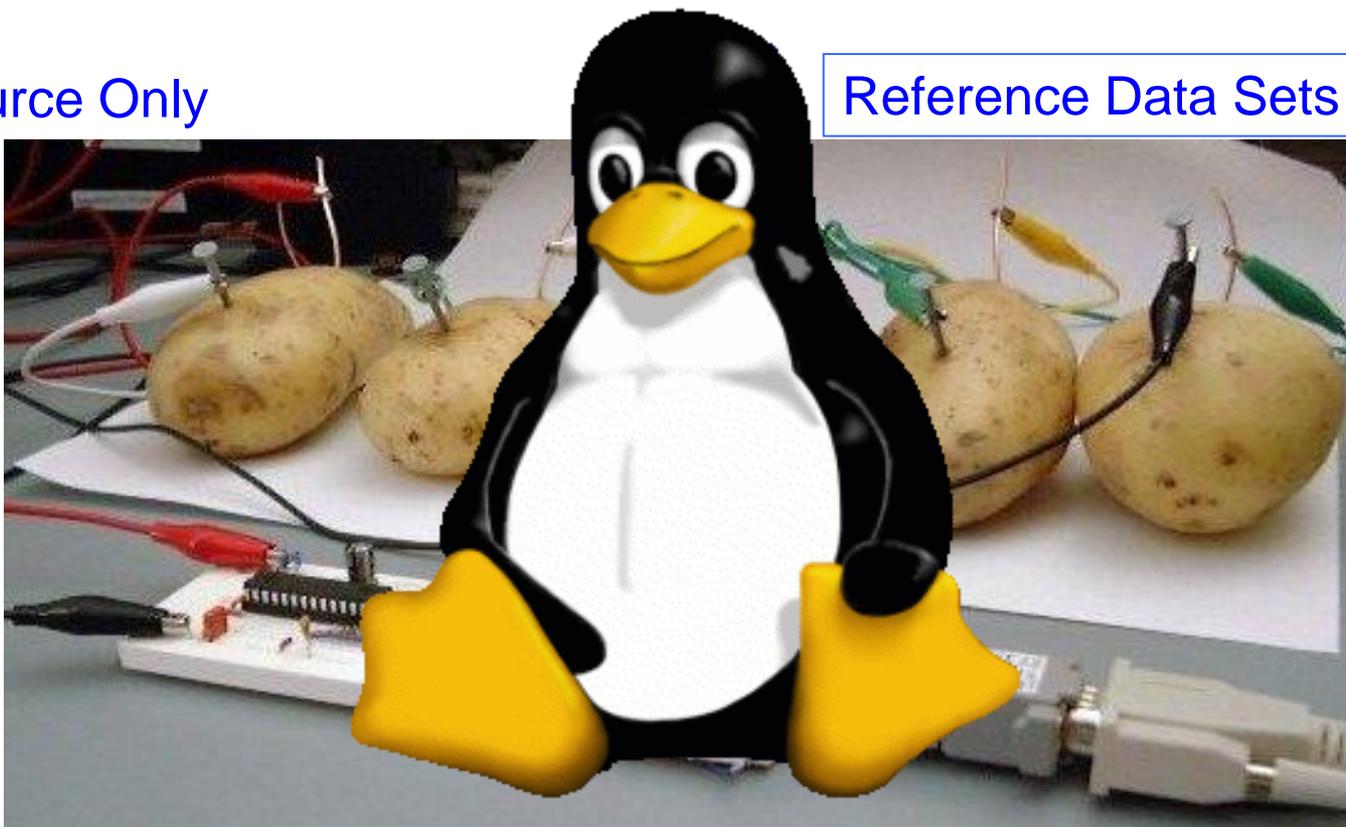
Pentaho

R

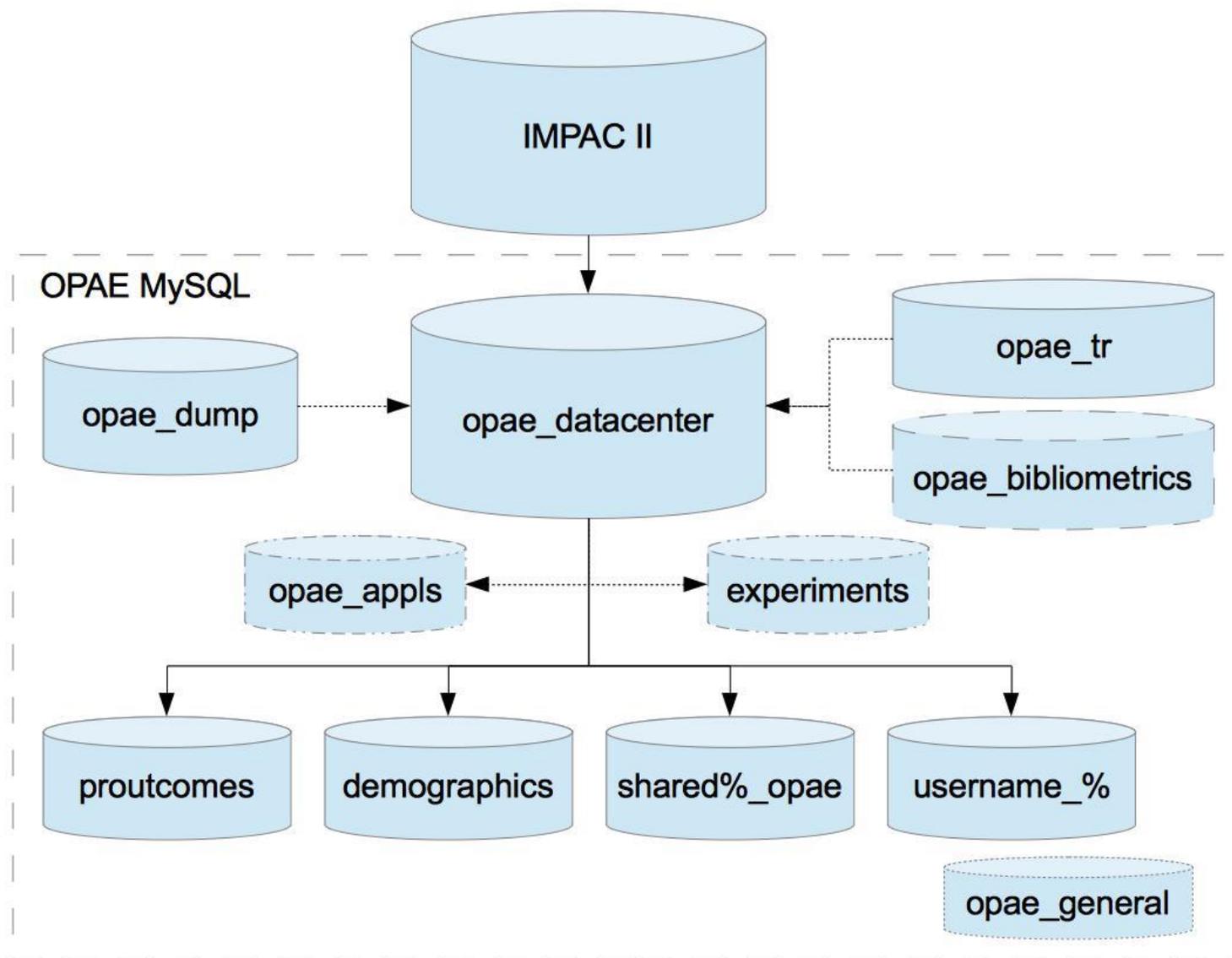
Knitr

Java

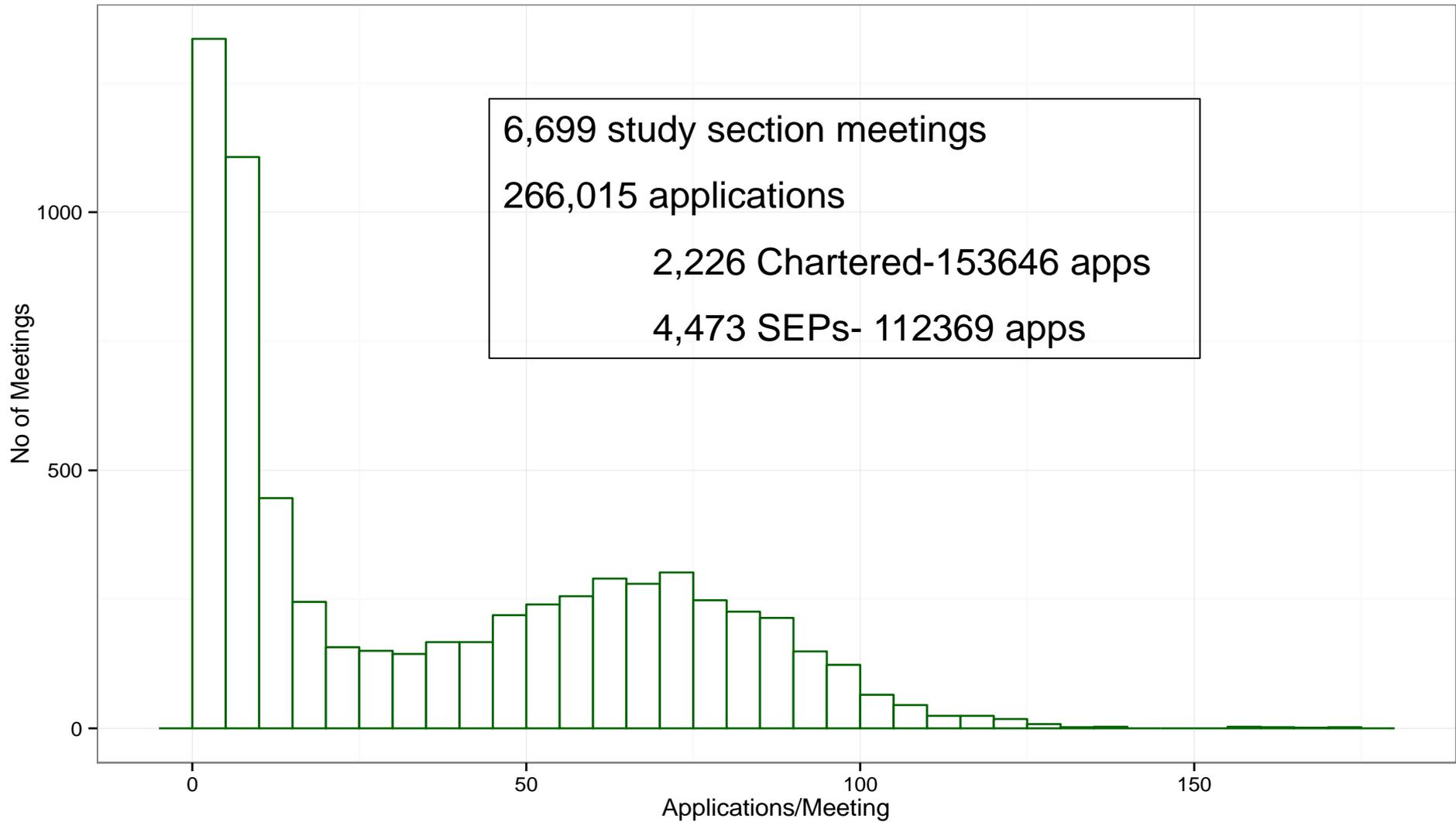
Python



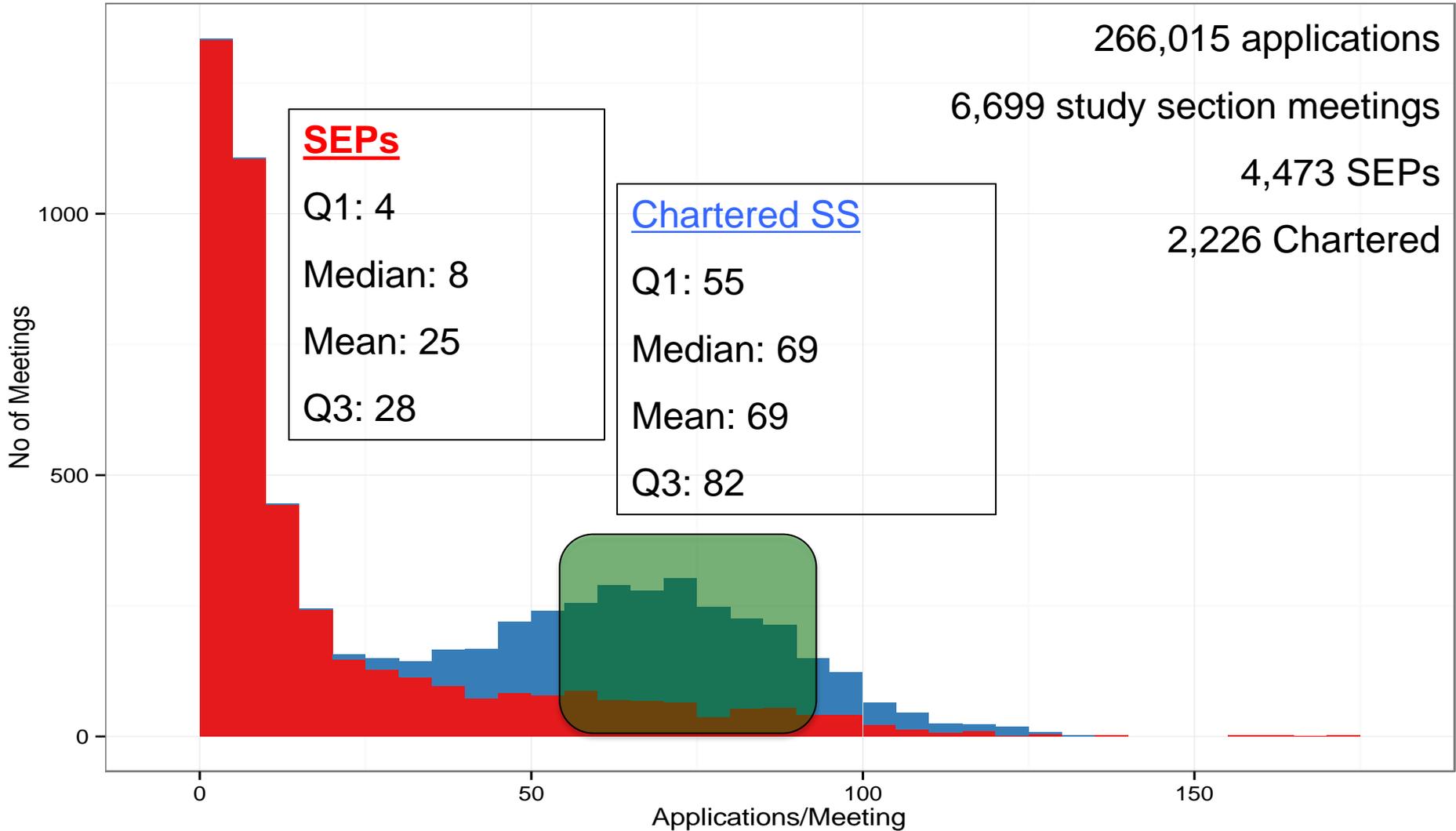
OPAE Data Protocol



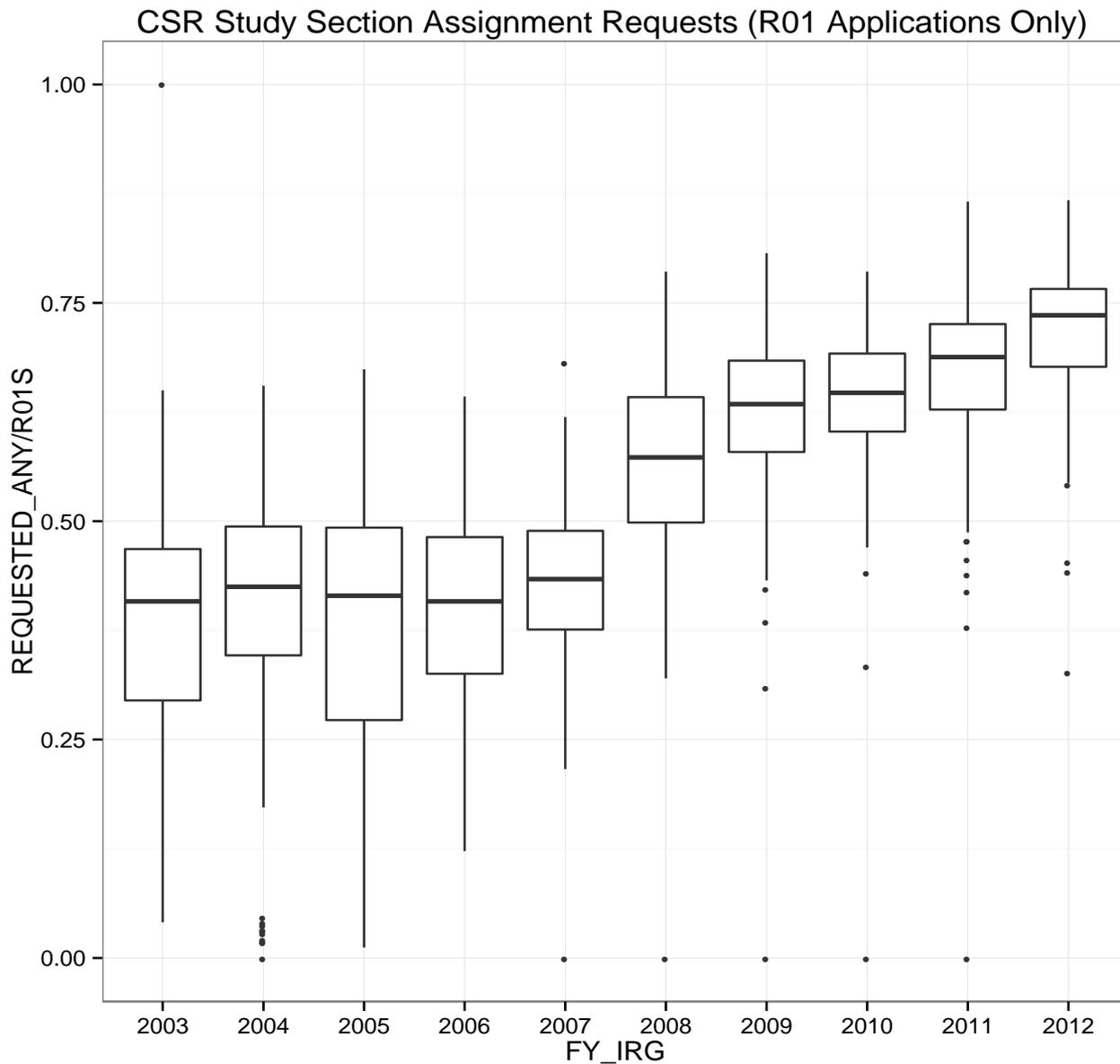
Workloads



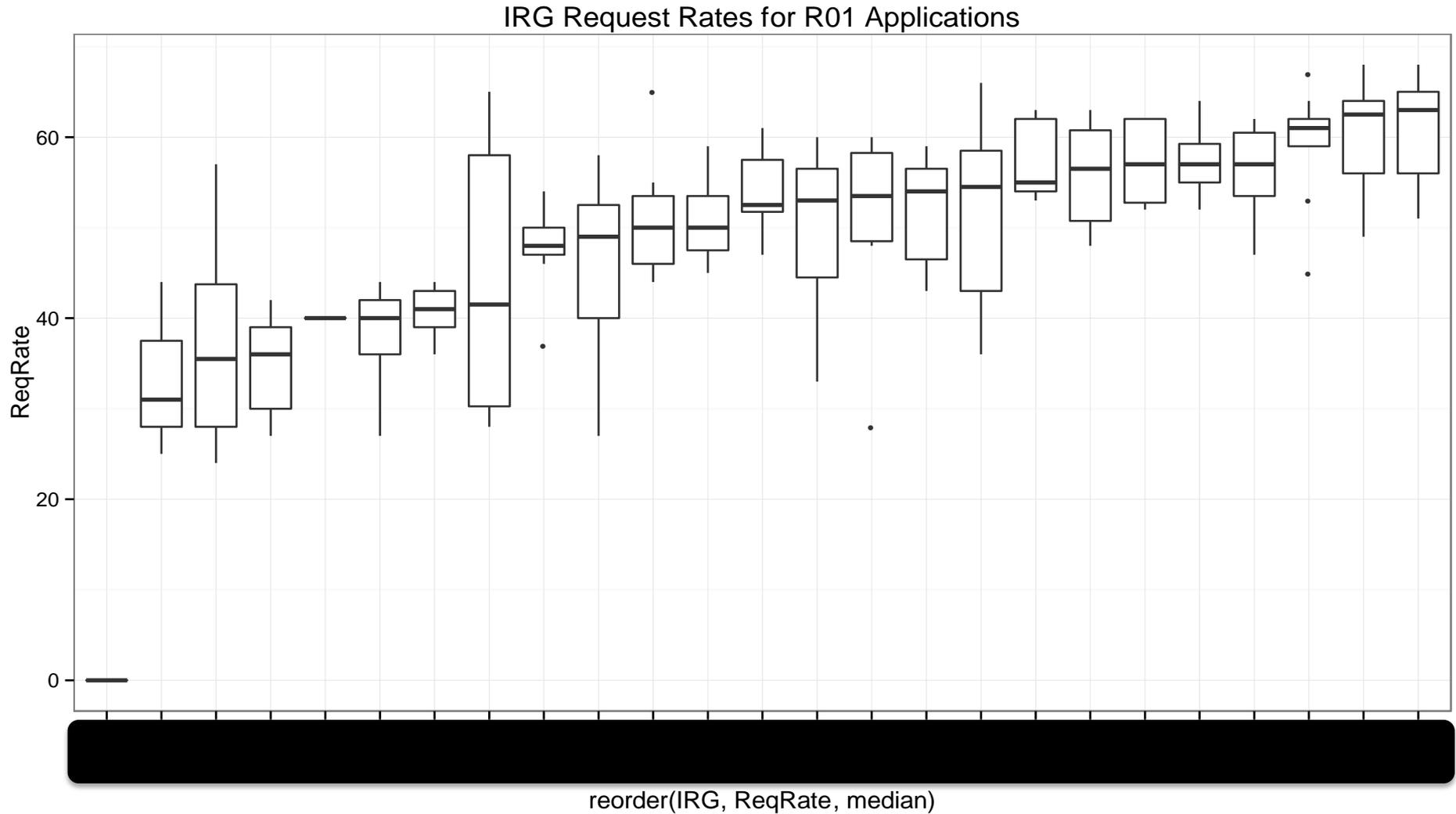
Workloads By Type



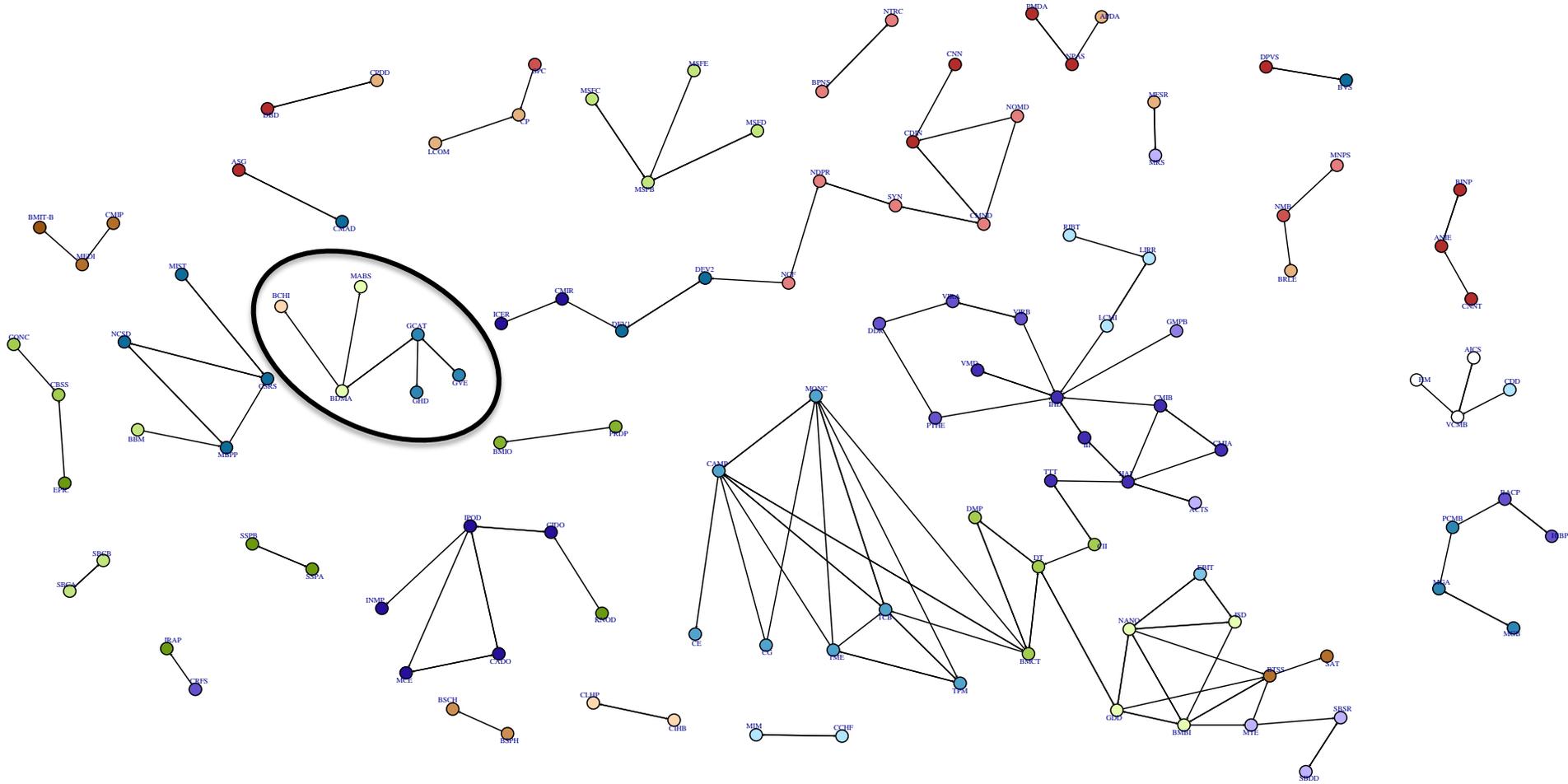
Applicant Preferences



IRG Request Rates (R01 Applications)



How The Community Views The Network

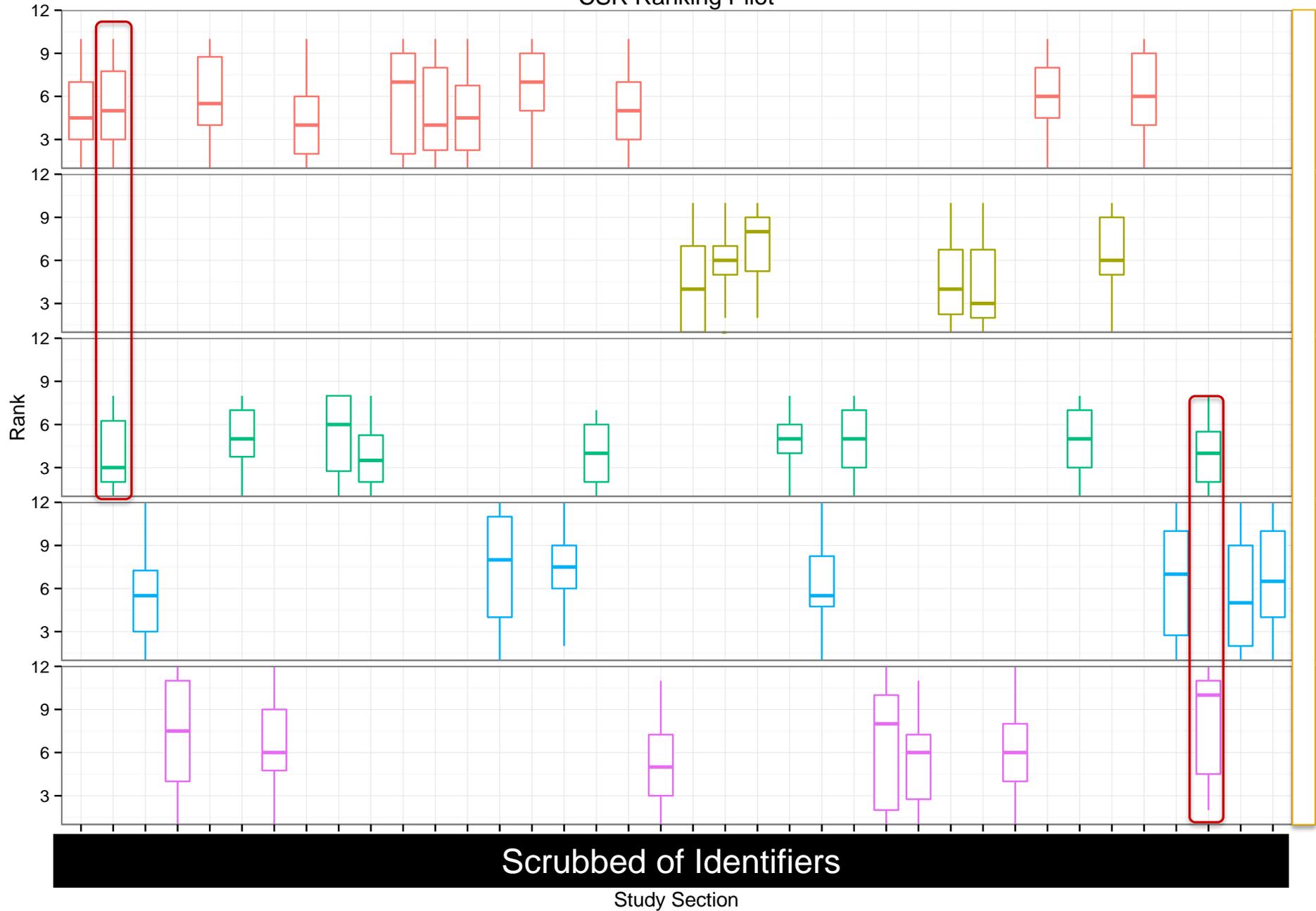


Are CSR study sections identifying grant applications with the greatest scientific potential?

Schedule of IRG Evaluations- 2013

- Biological Chemistry and Macromolecular Biophysics July 7
(BCMB) *Murray & Yamamoto*
- Population Sciences and Epidemiology July
22
(PSE) *Krousel-Wood*
- Infectious Diseases and Microbiology July
27
(IDM) *Korn*

CSR Ranking Pilot



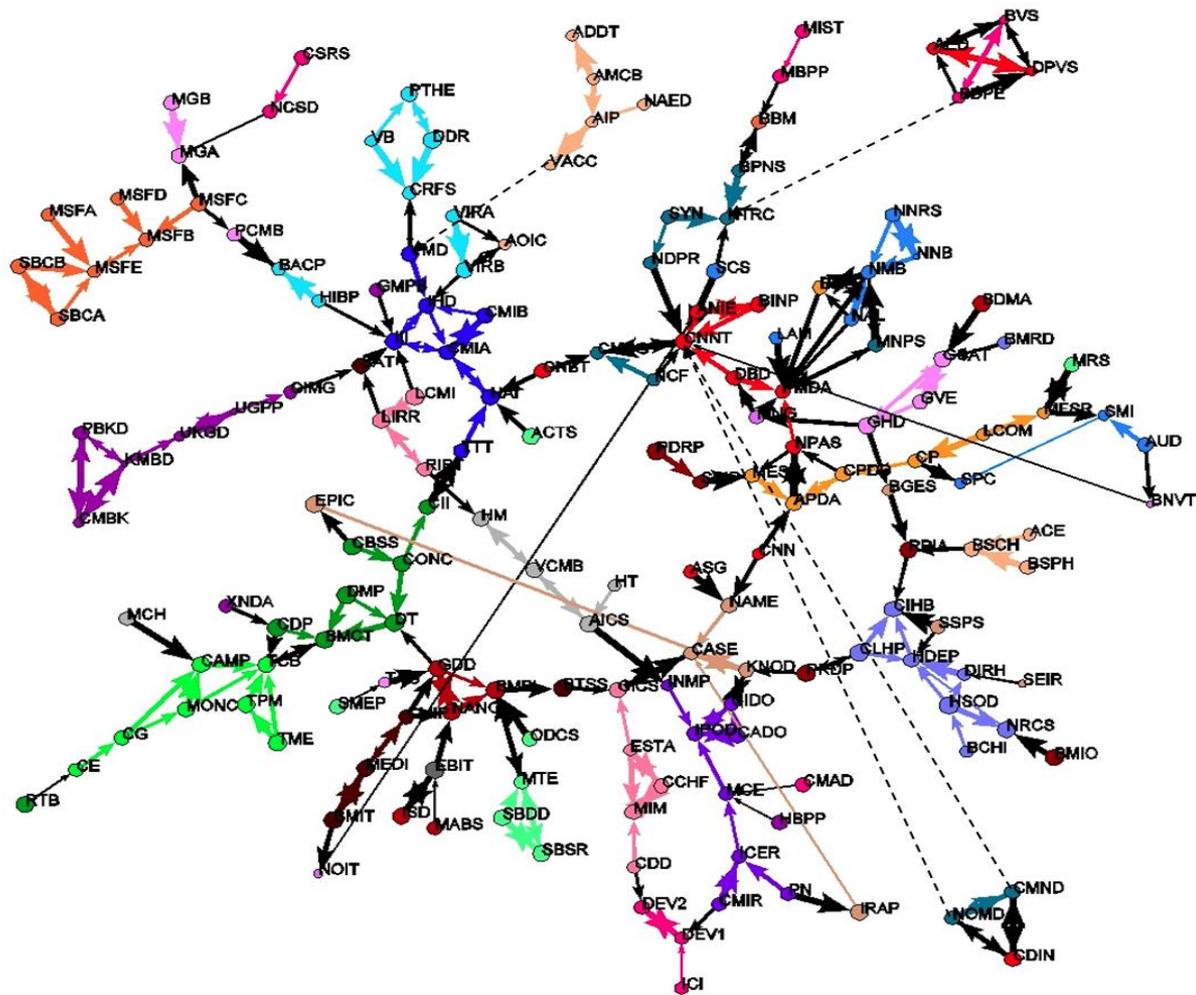
Scrubbed of Identifiers

Study Section

Going Forward With Ranking

- Reproducibility
 - Replications
 - Binning versus forced ranking
 - Inter-rater reliability
- Robustness to context
 - Field Centered Studies
 - Cross IRG clusters, e.g. GGG, BCMB, CB
- Continuous evaluation strategies
 - Surveys and exit interviews

- Evaluating alternate review platforms
- Evaluating Public Confidence
 - Continuous Monitoring Project- “Flag for Inspection”
 - Letters of Request for Assignment -> Social Networks
- Logistic Regression Model for Peer Review Outcomes
- Expert Evaluations of Integrated Review Groups
- Text analysis techniques (collaboration with Calvin Johnson)
- Scoring Behavior Analysis (collaboration with Mark Lindner)
- Local Implementation of the Thomson-Reuters Citation Database



- | | | | | | |
|---|---|---|---|---|---|
| ● AARR | ● BST | ● EMNR | ● IDM | ● MDCN | ● PSE |
| ● BBBP | ● CB | ● ETTN | ● IFCN | ● MOSS | ● RPHB |
| ● BCMB | ● CVRS | ● GGG | ● IMM | ● OBT | ● SBIB |
| ● BDCN | ● DKUS | ● HDM | ● IMST | ● OTC | ● VH |