



Getting to Know NSF's Cyberlearning Portfolio

CIRCL: The Center for Innovative Research in Cyberlearning
June 2013

Purpose of Activities

- Generate more knowledge and understanding of cyberlearning projects and PIs to inform center support efforts
- Inform efforts to describe cyberlearning community thematically, topically and in other ways relevant to community and beyond
- Create artifacts that encourage reflection on community participation
- Knowledge management to support social networks, find relevant expertise efficiently, generate candidate affinity groups

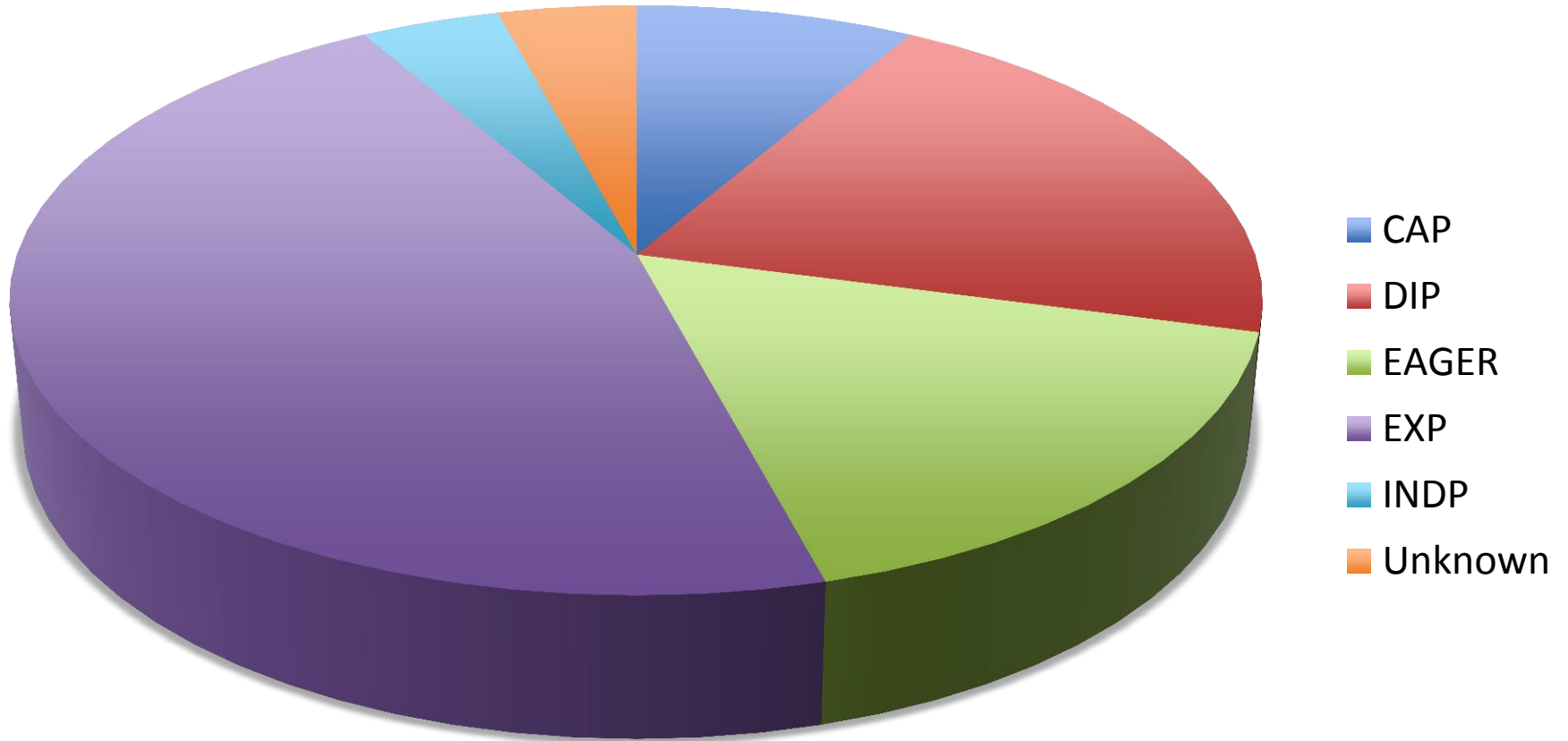
Portfolio Analysis Approach

- Tag researchers and projects
e.g. geography, grade-level, research topic/domain, funding type
- Track characteristics over time
- Aggregate and synthesize, look for trends and gaps
- Generate artifacts that help describe community in ways that are meaningful to community (in addition to the usual questions ...)

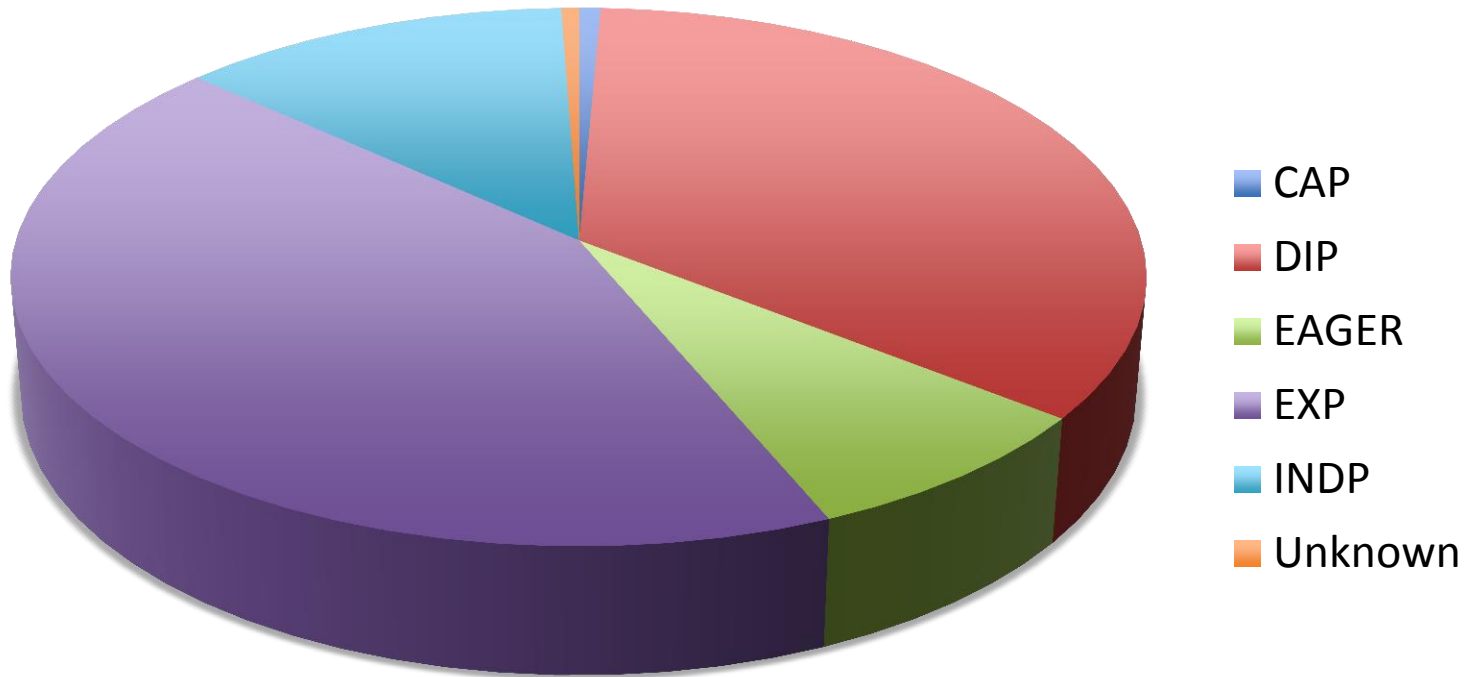
<http://circlcenter.org/projects/>



Grants per Award Type

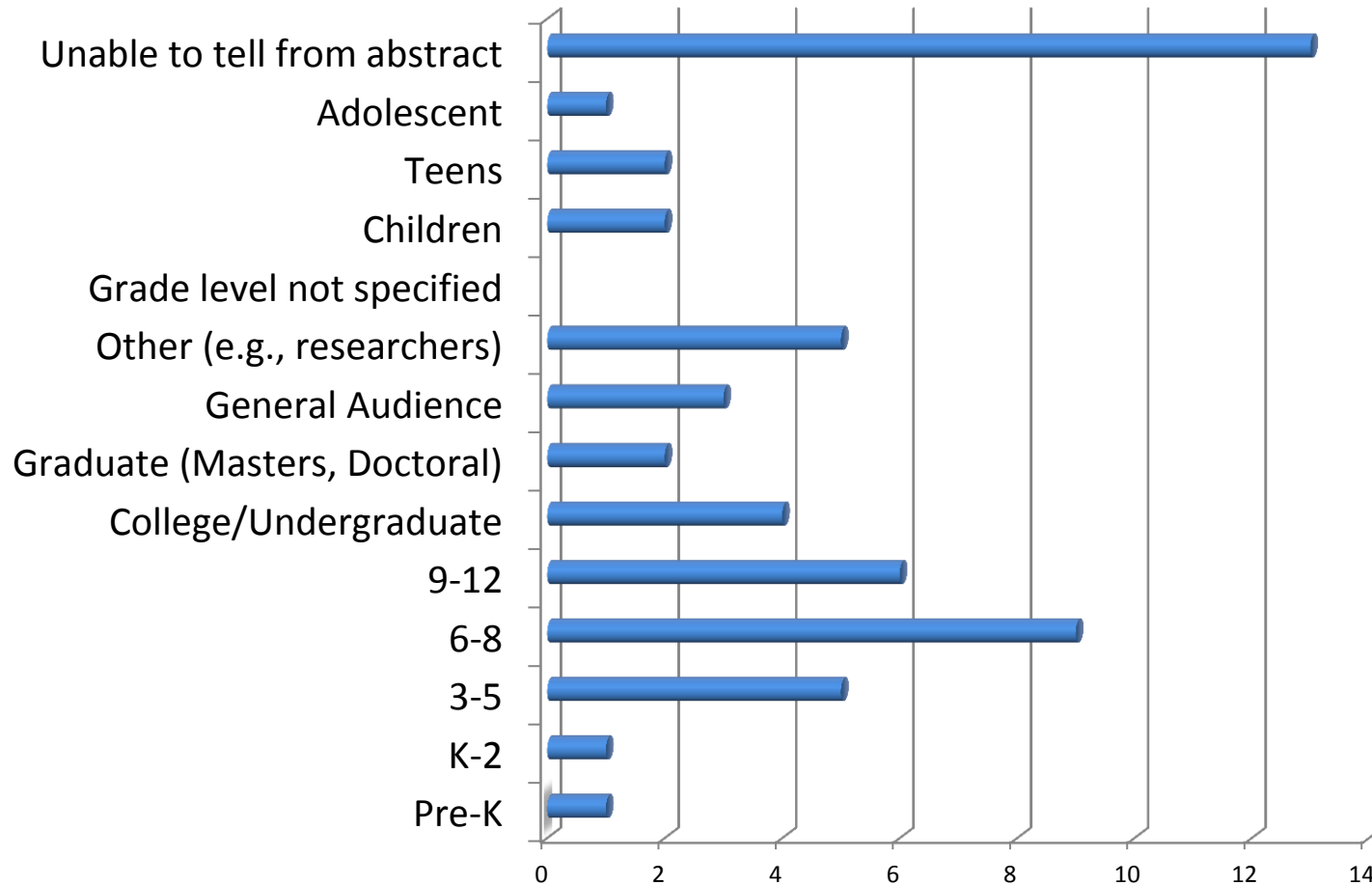


Award Totals by Grant Type

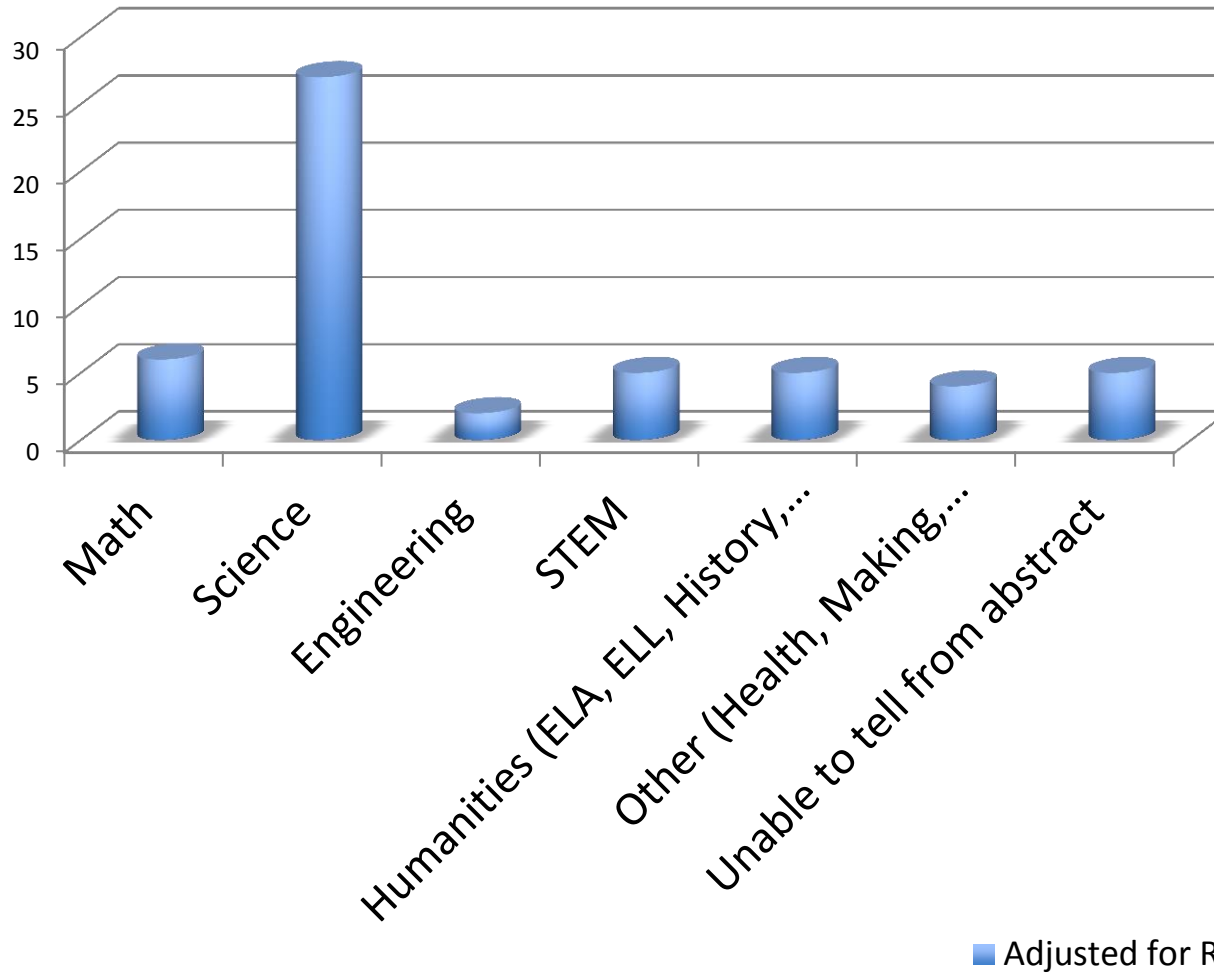


Grade Levels Served (based on abstract)

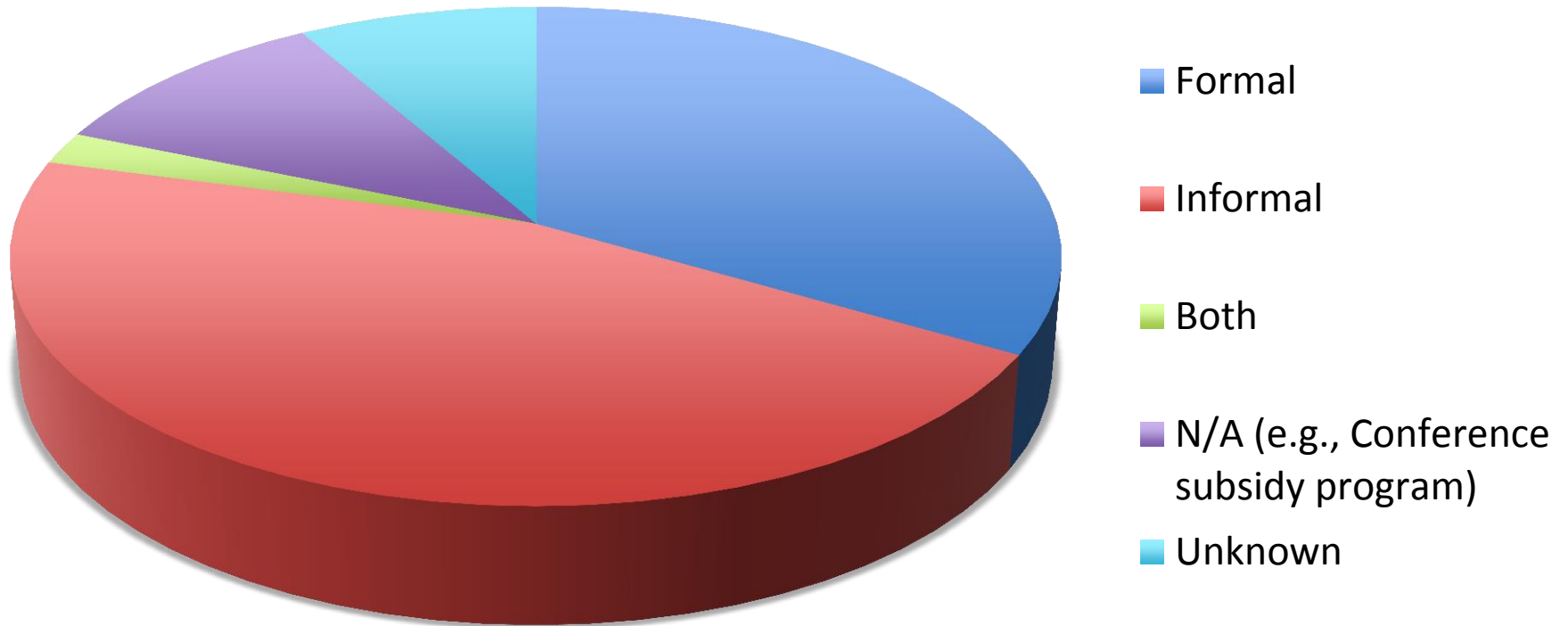
Adjusted for Research Collaborations (n=54)



Subject Areas by Grant



Learning Context by Grant



Topical Research Area

(focus on education technology research)

- Accessibility and technology
- Instruction delivery platforms
- Computer assisted assessments
- Analytics, data visualization
- Learning games
- Virtual world, augmented reality
- Robots
- Mobile learning
- Collaborative learning, participatory learning (online)
- Intelligent tutors
- Learning through data using digital tools
- Inquiry learning and technology
- Modeling, simulations

Types of Media

- Programming tools / languages
- Mobile apps and devices
- Data visualization/modeling/simulation tools
- Robotics
- Games
- Virtual world/augmented reality/mixed reality
- Assistive technology
- Sensors
- Interactive displays, manipulatives
- (Multi)media
- Intelligent tutoring system
- Online learning platform, network
- Crowdsourcing tools

Next Steps in Improving Analyses

- Program descriptions
 - Examine Cyberlearning solicitations
 - Interview program officers
- Project descriptions
 - Gather and analyze project documents, websites
 - Solicit PI input for deeper understanding of projects
 - Generate indicators for other community members
- Project outcomes
 - Work with Community to identify and characterize project outcomes and impact
 - Document “success”