Table 3. Needs, Goals, and Benefits of Software Evaluation. Software evaluation can support identification for tool optimization and development and can demonstrate tool value to others.

Need	Specific Goal	Benefit
Tool Optimization	Improving Workflows	Identify unexpected usage Identify code inefficiencies Identify resource usage inefficiencies Identify inadequate documentation
	Improve Performance	Identify mismatches with defaults and use Assess user wait times Measure data volume
	Improve Usage	Identify software errors Identify what features are used and not used Identify who the user-base is Determine user-base diversity Identify sources of other possible users Determine what users expectations are Determine if user expectations are appropriate Evaluate success of outreach approaches
	Improve Implementation	Identify barriers for adoption Identify methods to support adaption Identify use of out-dated versions
	Improve Usability	Identify user errors Identify if and how users are struggling
Tool Development & Maintenance	Guide Future Work Motivate Continued Support	Enumerate data types being used Discover opportunities for new features Discover data needed to address user goals Identify more appropriate resource allocation
Gain Support	Show Evidence of Impact	Support future funding requests (to maintain or develop new tools) Request for resources (to maintain or develop new tools)
Gain User Commitment	Evidence of Tool Acceptance	Reassure users about tool to: - Promote continued use - Promote usage of new tools by the same developers - Promote usage by more diverse users
Gain Community Development	Evidence of Co-Development	Encourage contributions