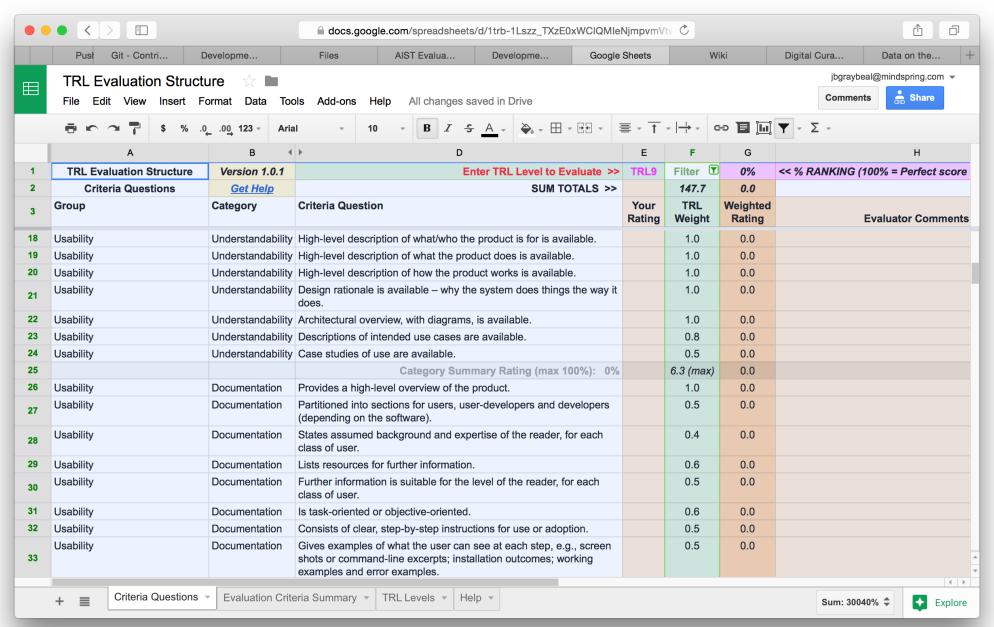
ESIP TRL Evaluation Form Final Recommendations

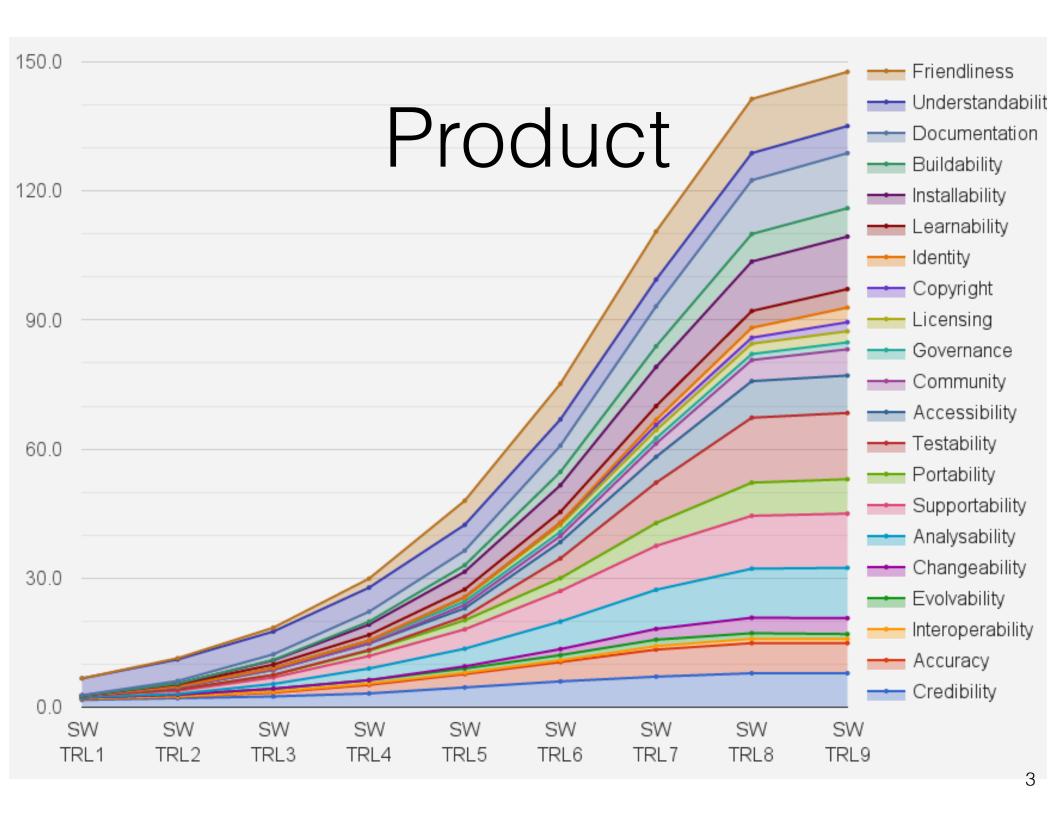
John Graybeal Graybeal.SKI Consulting

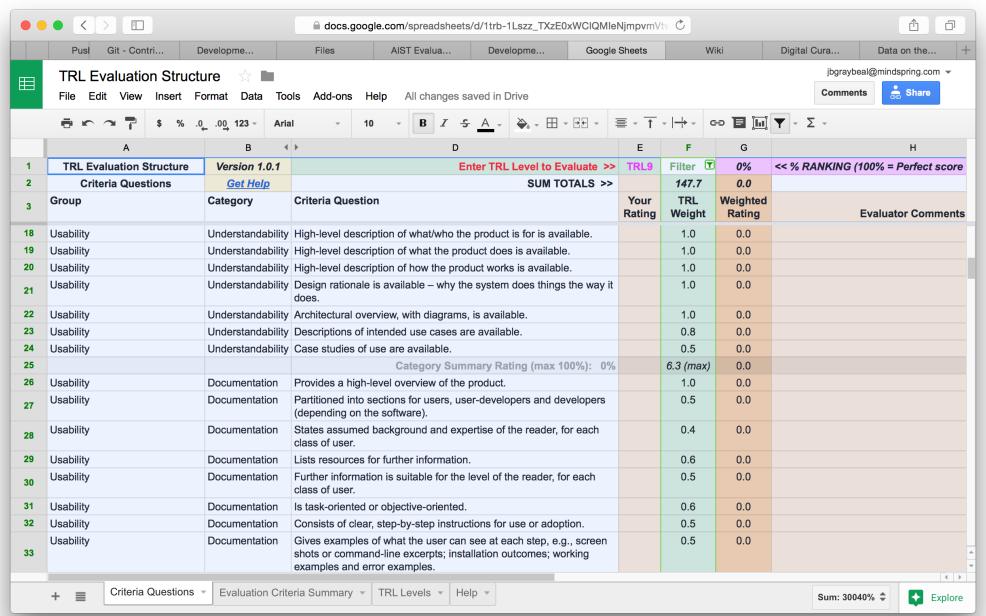
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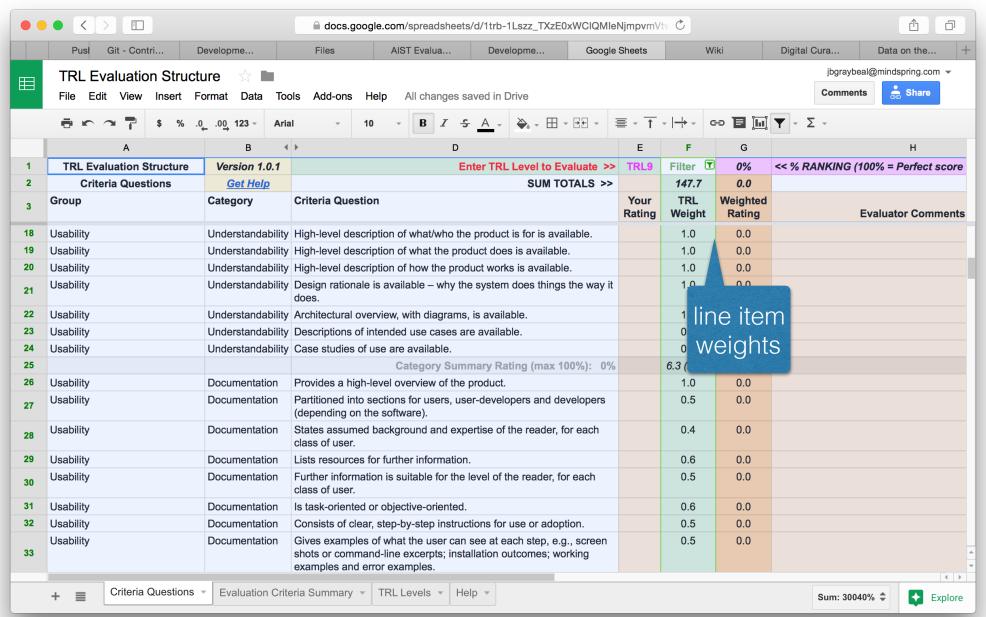
ESIP Federation
Products and Services Committee

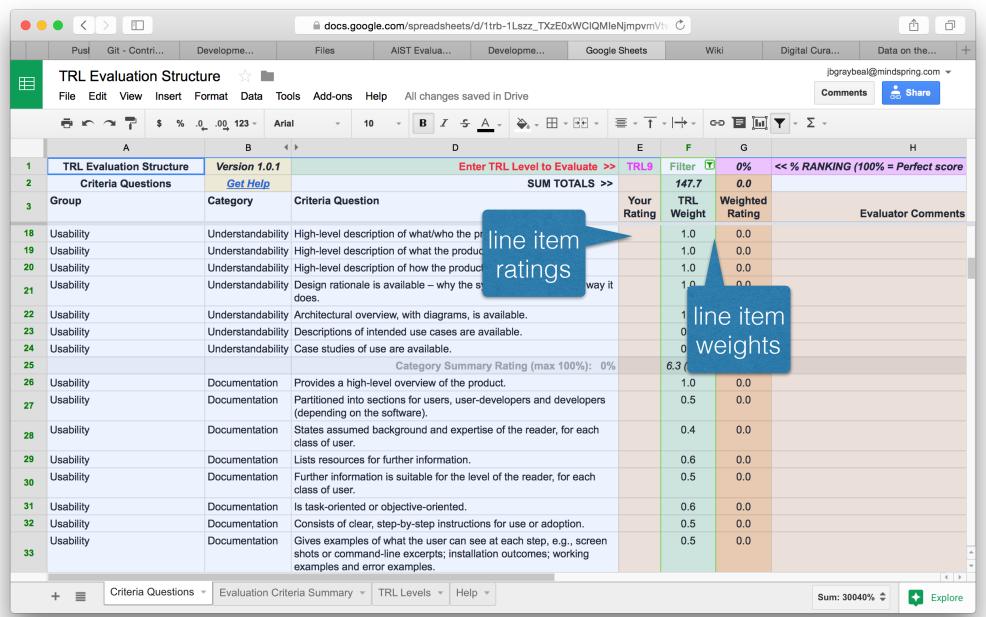
Special Thanks: Erin & Annie

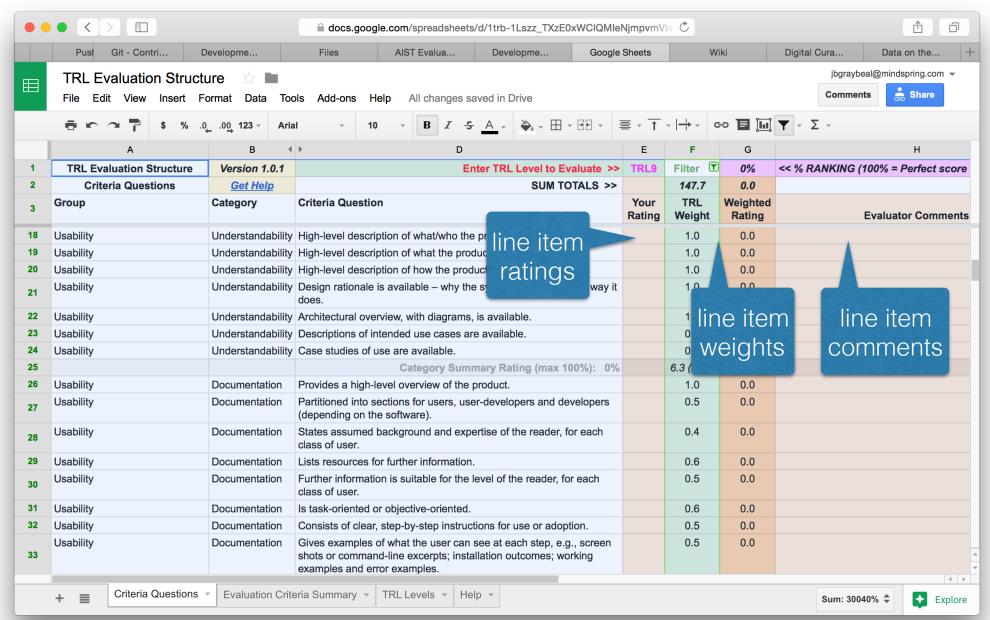


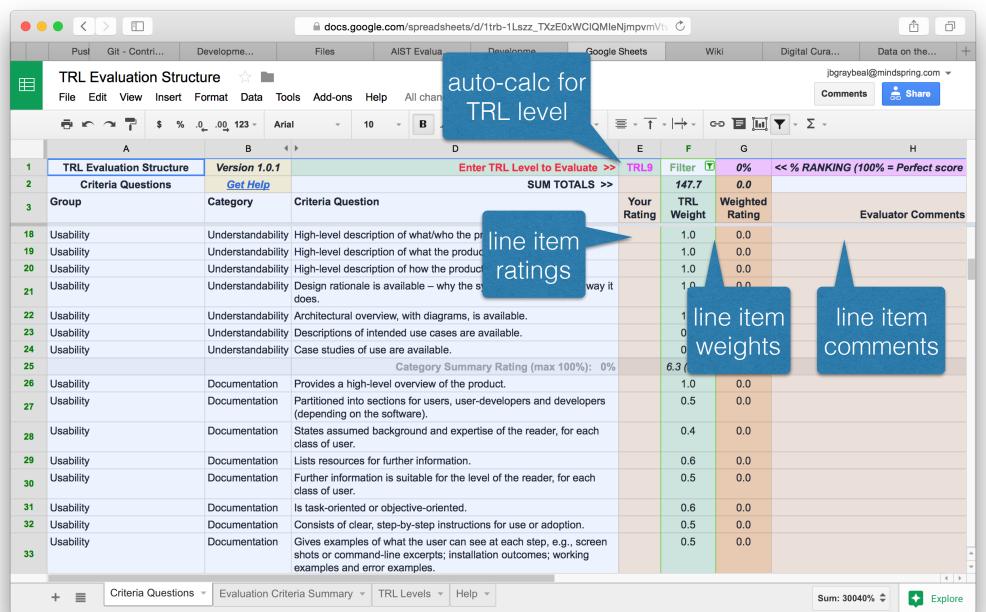


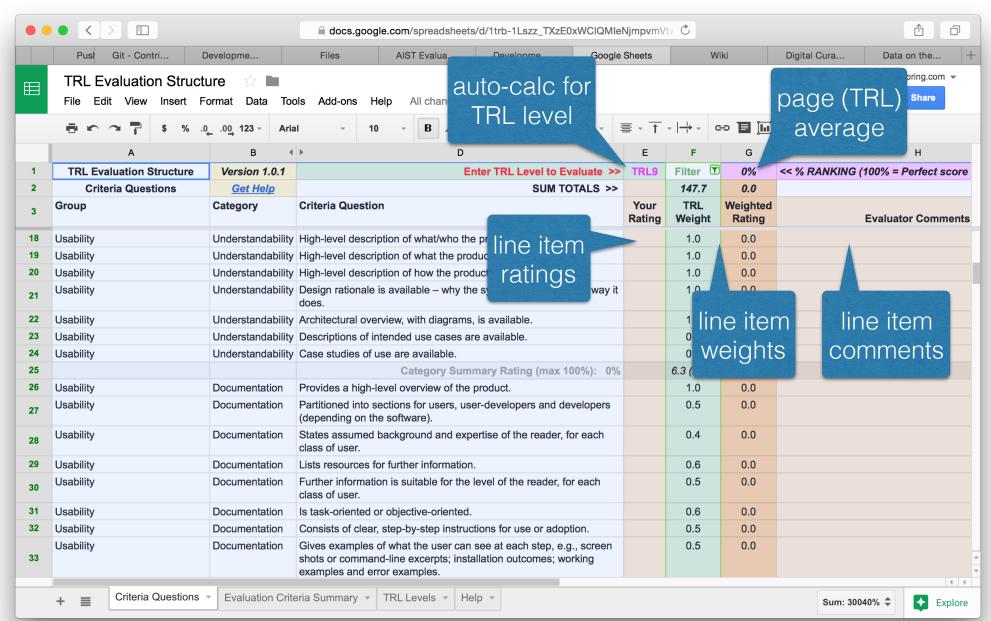


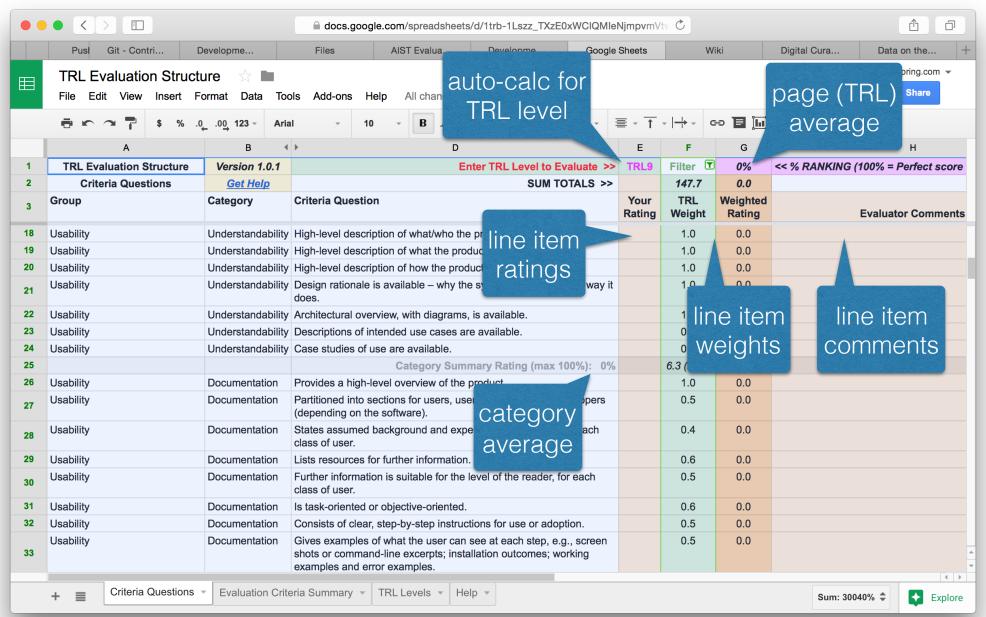


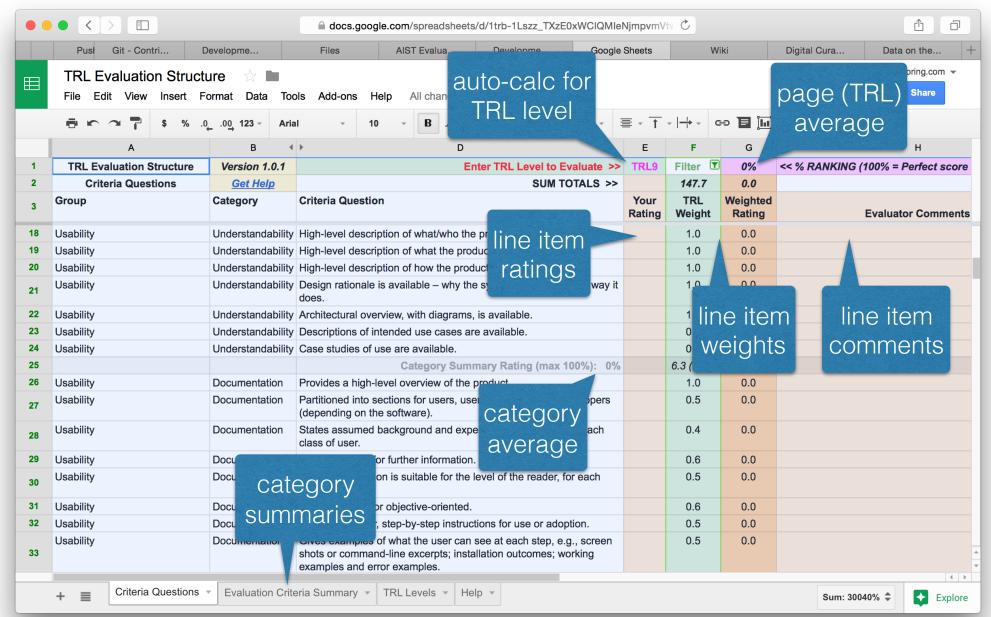








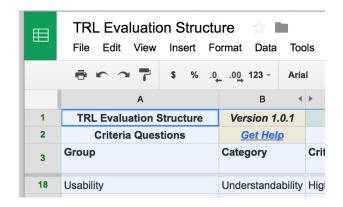




Product Features

- item ratings: binary (0/1), normalized (0.0 to 1.0), or positive value (>0.0)
- TRL-dependent line item weightings
- category summaries
- page and category averages
- line item and instance-wide comments
- instant re-calculation for different TRL levels

Recommendations



General: Product



- Identifier/summary metadata for each instance
- User documentation: local to form? include sources
- Developer documentation: create and reference
- Minor usability issues:
 - lock code to prevent user overwrite
 - auto-update based on TRL changes

General: Process

- Leverage opportunities for customization!
 - Customer: evaluation manager has the ball
 - ESIP: evaluate customization process



- Let project experts pre-enter technical information
- *
 - Save all completed customizations and instances
 - Find unimportant or uncompleted criteria
 - Minor usability: lock fixed cells, TRL -> autoupdate

General: Maintenance



- Improve processes for version control
 - Track/document template changes over time
 - Track/document changes for an evaluation cycle
- System development over time



- For now, keep evaluation template to 1 document
- In long term, may be best converted to software

Software Evaluation

Timeliness: Update to reflect current practices



- Checklist size: Keep detail, but add 'short form'
- Validation: Evaluate criteria against other standards
- Software classes: Customize for each class?
 - Desktop apps, web services, infrastructures

Other Evaluation Types

- Status: Re-weighted existing criteria for these artifacts
- Data Sets: harder to capture mix of types, opinions
 - Metadata guidelines could dominate criteria
 - Recommend: Finding existing checklists
- Knowledge Artifacts: hardest to capture
 - Many recent publications on ontology evaluation
 - Recommend: Wait for specific evaluation request



Overall: ESIP teams as knowledge aggregators?

Potential Applications



 providing a basis for discussing project evaluation or deliverable requirements with clients



- creating project readiness/progress evaluation criteria for managers
- tracking a project's lifetime technology readiness levels



- providing long-term aggregation of projects' results
- enabling technology maturity evaluation services
- providing an up-to-date summary of best practices

Technology Evaluation Framework Conclusions



* The TEF has been an extremely useful prototype.



★ The TEF has many existing and future applications.

TEF needs improving, especially as usage grows.

