

# Digital Commons Framework - Appendix K:

## Impact Assessment Framework

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**Estimated Reading Time:** 8 minutes

Appendix K: Impact Assessment Framework provides methodologies and tools to evaluate how the Digital Commons Framework affects communities, cultures, and governance systems. Rooted in historical commons practices, such as the Iroquois Confederacy's seven-generation impact consideration and Elinor Ostrom's institutional analysis frameworks, it establishes a systematic approach to measuring both quantitative outcomes and qualitative transformations. Drawing on Metrics for Success, Appendix G: Field-Test Logbook Template, and Case Studies, this framework enables meaningful impact evaluation across diverse contexts, from rural Senegal to urban Singapore. Through a mix of community-led participatory assessments, independent verification, and longitudinal studies, it ensures the framework's implementation creates genuine benefit—not just technological advancement for its own sake. By measuring impacts on access, participation, equity, and cultural preservation, stakeholders can adapt governance and implementation to maximize positive outcomes while mitigating potential harms. The next section, Revision Notes, tracks the evolution of the framework's development.

## Overview

The Impact Assessment Framework provides a comprehensive system for evaluating the Digital Commons Framework's effects across social, cultural, and governance dimensions. It combines quantitative metrics (e.g., access rates, participation percentages) with qualitative methods (e.g., community narratives, ethnographic studies) to capture both measurable outcomes and

lived experiences. This mixed-methods approach aligns with the Core Principles of direct participation and cultural autonomy by centering community perspectives while enabling global comparisons. The framework follows a cyclical process of baseline measurement, ongoing monitoring, periodic evaluation, and adaptive response, ensuring evidence-based evolution. Success would be measured by assessment adoption (80% of nodes conducting impact evaluations by 2030), quality (75% of assessments meeting independent verification standards by 2032), and utilization (70% of governance decisions informed by assessment data by 2035). These evaluations reveal not just what the framework achieves, but how it transforms the relationship between communities and digital technologies.

## Methodological Approach

The Impact Assessment Framework employs a mixed-methods design that combines rigorous quantitative measurement with context-sensitive qualitative inquiry.

### Theoretical Foundation:

- **Participatory Action Research:** Communities actively shape what impacts matter and how they're measured, rather than having external metrics imposed. Example: In Bangladesh, Fatima's node co-developed flood resilience indicators reflecting local priorities.
- **Systems Thinking:** Assessments examine interconnected effects across domains rather than isolated impacts. Example: Kenya's agricultural node evaluated how AI farming tools affected not just crop yields but social relationships and knowledge transmission.
- **Decolonial Methodologies:** Evaluation approaches respect diverse epistemologies and challenge power imbalances in who defines "impact." Example: Canada's Indigenous node integrated ceremonial evaluation practices alongside conventional metrics.

### Data Collection Strategy:

- **Multi-Level Design:** Assessments occur at local, regional, and global levels, with standardized core indicators supplemented by context-specific measures. Each Local Citizen Node conducts primary assessment, while Regional Digital Hubs aggregate data and identify patterns.
- **Longitudinal Measurement:** Regular data collection (quarterly, annually, and every five years) tracks changes over time, with baseline measurements established during node formation. For instance, Germany's energy node created 2026 baselines for comparative analysis in 2030.
- **Triangulation Approach:** Multiple data sources verify findings, combining surveys (quantitative) with interviews and observations (qualitative). New Zealand's cultural heritage

node used community surveys, artifact counts, and elder narratives to assess preservation impact.

### Ethical Safeguards:

- **Data Sovereignty:** Communities control assessment data with clear protocols for usage and sharing. The Data Sovereignty Agreements component provides templates for ethical data management.
- **Informed Consent:** All participants understand how their input will be used, with appropriate consent processes for different contexts (written, verbal, or ceremonial).
- **Benefit Sharing:** Communities receive direct benefits from participation in assessments, including data dividends and capacity building. In Brazil, Carlos's node trained local youth as assessment researchers, building long-term evaluation capacity.

### Implementation Timeline:

- **Baseline Period (2025-2027):** Initial assessments establish reference points across pilot nodes
- **Formative Cycle (2028-2030):** Quarterly monitoring with annual evaluations informs early adaptation
- **Impact Cycle (2031-2035):** Comprehensive impact evaluations assess medium-term outcomes
- **Legacy Cycle (2036-2040):** Longitudinal studies examine sustained transformations

## Social Impact Assessment

The Social Impact Assessment evaluates how the Digital Commons Framework affects community wellbeing, relationships, and equity.

### Key Indicators:

- **Digital Access Equity:** Percentage of community with meaningful access to digital resources, disaggregated by gender, age, ability, and socioeconomic status. Target: 90% equitable access by 2035. Measurement: Access surveys with demographic analysis, validated by Regional Hub technical assessments.
- **Community Cohesion:** Quality of relationships and trust within the community. Target: 70% of nodes reporting improved cohesion by 2030. Measurement: Social network analysis, trust scales, and community narratives.
- **Knowledge Democratization:** Distribution of technical knowledge and decision-making capacity. Target: 60% of community members confident in digital governance participation

by 2032. Measurement: Skills assessments, governance participation rates, and self-efficacy surveys.

- **Economic Impact:** Changes in livelihoods and economic opportunities. Target: 40% of nodes reporting increased economic opportunities by 2035. Measurement: Household surveys, income tracking, and business formation rates.

#### **Assessment Methods:**

- **Structured:** Standardized surveys using the Social Impact Questionnaire (available at [globalgovernanceframework.org/assessment/social](https://globalgovernanceframework.org/assessment/social)) with 25 core questions administered annually.
- **Semi-Structured:** Community dialogue sessions using the Collective Impact Protocol, facilitated by node leaders and documented in standardized formats.
- **Unstructured:** Ethnographic observations and journaling by community researchers, capturing unexpected outcomes and contextual factors.

**Case Example:** In Senegal, Aisha's node collected baseline data in 2026 showing 32% digital access equity. By 2029, annual assessments revealed 65% equity, with particularly strong gains among women farmers. Semi-structured dialogues identified that access to health data had strengthened community cohesion by enabling collaborative disease prevention, an unexpected positive impact documented through ethnographic observation. The node used these findings to target resources toward the remaining access gaps, particularly for elderly community members.

**Cross-Commons Connections:** Social impact assessments track spillover effects between digital and other commons systems. In Mexico, Juan's node documented how educational knowledge commons increased participation in local economic commons, with 45% of students using digital skills to engage in community currencies by 2030. These cross-commons measurements guide integration efforts in Phase 3 implementation.

## **Cultural Impact Assessment**

The Cultural Impact Assessment examines how the Digital Commons Framework affects cultural preservation, expression, and evolution.

#### **Key Indicators:**

- **Cultural Preservation:** Volume and accessibility of preserved cultural knowledge and practices. Target: 500+ cultural artifacts preserved per node by 2035. Measurement: Digital archive metrics, cultural practitioner interviews, and community usage statistics.

- **Linguistic Diversity:** Support for and usage of diverse languages. Target: 100 languages in Knowledge Commons by 2035. Measurement: Language availability audits, usage analytics, and speaker surveys.
- **Cultural Autonomy:** Degree to which communities maintain control over cultural representation. Target: 80% of Indigenous and minority communities reporting satisfactory cultural protocols by 2032. Measurement: Protocol audits, satisfaction surveys, and elder interviews.
- **Intergenerational Transmission:** Transfer of cultural knowledge between generations. Target: 50% increase in youth engagement with cultural knowledge by 2035. Measurement: Cross-generational engagement metrics, youth surveys, and elder assessments.

### Assessment Methods:

- **Cultural Protocol Mapping:** Documenting how traditional cultural protocols are implemented in digital contexts, using the Protocol Alignment Tool (available at [globalgovernanceframework.org/assessment/cultural](https://globalgovernanceframework.org/assessment/cultural)).
- **Digital Ethnography:** Observing how cultural practices evolve in digital spaces, with appropriate permissions and community oversight.
- **Oral History Interviews:** Recording community perspectives on cultural impacts, with elders and knowledge keepers as primary sources.
- **Youth-Led Assessments:** Training young community members to evaluate cultural preservation from their perspective, using the Next Generation Assessment Kit.

**Case Example:** In New Zealand, Aroha's node implemented Indigenous Knowledge Protocols in 2026, establishing baseline cultural preservation metrics. By 2031, comprehensive assessment showed that 450 Māori cultural narratives had been digitally preserved with strict adherence to traditional protocols. Oral history interviews revealed that elders initially skeptical about digitization had become advocates after witnessing increased youth engagement. Youth-led assessments identified innovative cultural expressions emerging at the intersection of traditional knowledge and digital tools, which were subsequently supported through focused resources.

**Cultural Safety Measures:** Assessments respect sacred or restricted knowledge through graduated access protocols developed with cultural authorities. The Cultural Impact Assessment never requires communities to digitize or share restricted cultural content. Instead, it measures how well the framework respects and protects cultural boundaries while supporting appropriate preservation.

## Governance Impact Assessment

The Governance Impact Assessment evaluates how the Digital Commons Framework affects decision-making processes, power distribution, and institutional relationships.

### Key Indicators:

- **Participation Quality:** Depth and breadth of community engagement in governance. Target: 50% of adult community members actively engaged in governance annually by 2035. Measurement: Participation logs, decision influence tracking, and demographic analysis of representation.
- **Process Transparency:** Visibility and understandability of decision-making processes. Target: 90% of governance decisions fully transparent by 2030. Measurement: Documentation audits, access metrics, and comprehension surveys.
- **Power Distribution:** How decision-making authority is shared across stakeholders. Target: 75% of nodes report equitable influence distribution by 2032. Measurement: Network analysis of decision flows, influence mapping, and perception surveys.
- **Institutional Alignment:** Harmony between framework governance and existing institutions. Target: 50 national digital strategies incorporating framework elements by 2035. Measurement: Policy analysis, integration metrics, and institutional relationship mapping.

### Assessment Methods:

- **Governance Process Tracking:** Systematic documentation of decision-making processes, including proposals, deliberations, votes, and implementations, using the Governance Tracing Tool.
- **Influence Mapping:** Visual representation of how different stakeholders shape decisions, identifying power concentrations or exclusions requiring remediation.
- **Institutional Ethnography:** Observing how the framework interacts with existing governance institutions at local, regional, and national levels.
- **Decision Pathway Analysis:** Tracing how specific proposals move through the governance system, measuring time, modifications, and ultimate outcomes.

**Case Example:** In Brazil, Carlos's node established governance baseline metrics in 2027, showing 25% participation concentrated among technical experts. Implementing inclusive voting mechanisms and capacity building, they achieved 60% broad-based participation by 2032. Influence mapping revealed initial power concentration among internet-connected farmers, prompting targeted efforts to engage offline community members. Decision pathway analysis showed that proposals from marginalized community members took 40% longer to implement, leading to process reforms that achieved equity by 2034. Institutional ethnography documented how the node gradually integrated with municipal government, providing a model for formal governance collaboration.

**Institutional Capacity Building:** The assessment includes a capacity-building component, training Local Citizen Nodes in governance analytics and providing Regional Digital Hubs with advanced institutional analysis tools. This ensures communities can conduct sophisticated governance assessments independently, rather than relying on external evaluators.

## Implementation Guidelines

Practical guidance for conducting impact assessments across diverse contexts.

### Assessment Planning Cycle:

1. **Community Scoping (2-4 weeks):** Convene stakeholders to identify priority impact areas and contextual factors, using the Scoping Workshop Guide.
2. **Methodology Selection (1-2 weeks):** Choose appropriate methods from the Assessment Toolkit, balancing standardization with local relevance.
3. **Baseline Measurement (1-3 months):** Collect initial data against which future impacts will be measured, documenting pre-implementation conditions.
4. **Regular Monitoring (Ongoing):** Track key indicators quarterly using simplified monitoring protocols, with data stored in the Impact Repository.
5. **Annual Evaluation (2-4 weeks/year):** Conduct more comprehensive assessment annually, analyzing trends and emerging impacts.
6. **Five-Year Impact Study (2-3 months):** Perform in-depth impact evaluation every five years, combining all assessment dimensions.
7. **Adaptive Response (1-2 months):** Develop and implement changes based on assessment findings, completing the cycle.

### Contextual Adaptations:

- **Low-Resource Settings:** Simplified assessment protocols using basic tools (paper forms, SMS data collection, verbal interviews) ensure participation regardless of technical capacity. Example: Bangladesh nodes use pictorial evaluation tools with community scribes.
- **High-Conflict Zones:** Neutral assessment facilitators and anonymized data collection protect participants in politically sensitive contexts. Example: Conflict-affected nodes use secure data transmission with Regional Hub verification.
- **Indigenous Communities:** Assessment frameworks integrate traditional evaluation practices and knowledge systems. Example: Canada's node combines western metrics with ceremonial impact discernment.

- **Urban Contexts:** Assessments address high population density and diverse stakeholder groups through statistical sampling and focused group methods. Example: Singapore's node uses stratified sampling across neighborhoods and demographic groups.

#### Resource Requirements:

- **Personnel:** 2-5 community researchers per node (can be rotating roles)
- **Time:** 20-40 person-hours per quarter for monitoring; 80-120 hours annually for evaluation
- **Technical:** Basic data collection and analysis tools, available through the Assessment Toolkit
- **Financial:** Approximately 5% of node operating budget, supported by dedicated assessment funding stream

#### Data Management Protocol:

- **Storage:** Primary data retained at node level with aggregated results at Regional Hubs
- **Privacy:** Personal identifiers removed before sharing beyond the local context
- **Accessibility:** Results published in multiple formats (reports, visualizations, oral presentations)
- **Interoperability:** Standardized data formats enable cross-node comparison while preserving context

## Independent Verification Protocol

System for ensuring assessment quality, credibility, and comparability across the framework.

#### Verification Principles:

- **Methodological Rigor:** Assessments follow scientific standards while respecting diverse knowledge systems
- **Community Validation:** Findings are verified by the communities they describe
- **Transparent Documentation:** Assessment processes and limitations are clearly disclosed
- **Independent Review:** External parties evaluate assessment quality without conflicts of interest

#### Verification Mechanisms:

- **Peer Review:** Nodes within each Regional Hub review each other's assessments annually, providing feedback and validation



- **Expert Panel:** Rotating panel of assessment specialists reviews a sample of node assessments biennially
- **Global Audit:** Independent verification body conducts comprehensive audit of framework-wide assessment every five years
- **Community Feedback:** Structured process for community members to challenge or confirm assessment findings

#### **Verification Standards:**

- **Bronze Standard:** Basic assessment covering core indicators with local verification
- **Silver Standard:** Comprehensive assessment with peer review and Regional Hub verification
- **Gold Standard:** Extensive mixed-methods assessment with expert panel verification
- **Platinum Standard:** Longitudinal impact study with global audit verification

**Case Example:** Kenya's agricultural node achieved Silver Standard in 2029 after peer review by five East African nodes validated their yield impact measurements. They progressed to Gold Standard in 2031 when the expert panel verified their mixed-methods approach to measuring knowledge democratization. By implementing longitudinal tracking of intergenerational knowledge transfer, they aim for Platinum Standard certification in 2035, providing a model for nodes globally.

**Meta-Assessment Process:** The framework includes a meta-assessment component that evaluates the assessment system itself, ensuring continuous improvement in measurement approaches. This includes:

- Annual review of indicator validity and reliability
- Biennial evaluation of assessment burden vs. benefit
- Community feedback on assessment relevance and utility
- Adaptation of methods based on emerging best practices

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#### **Assessment Resources Available:**

- Complete Assessment Toolkit: [globalgovernanceframework.org/assessment/toolkit](https://globalgovernanceframework.org/assessment/toolkit)
- Impact Visualization Dashboard: [globalgovernanceframework.org/assessment/dashboard](https://globalgovernanceframework.org/assessment/dashboard)
- Training Modules for Community Researchers: [globalgovernanceframework.org/assessment/training](https://globalgovernanceframework.org/assessment/training)
- Verification Applications: [globalgovernanceframework.org/assessment/verify](https://globalgovernanceframework.org/assessment/verify)

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*This Impact Assessment Framework is available in 50 languages, large print, braille, and audio formats. All versions downloadable at [globalgovernanceframework.org/assessment](https://globalgovernanceframework.org/assessment)*