



Using the Digital Lifecycle Crosswalk: Practical Guide

Overview

The **Digital Standard Lifecycle.xlsx** spreadsheet is a comprehensive mapping of data standards across infrastructure project phases, from planning through maintenance. This guide shows you how to actually use the crosswalk to:

- Develop RFPs requiring proper digital deliverables
- Validate consultant submissions against lifecycle standards
- Integrate with gap analysis reports
- Create training curricula for staff and contractors
- Demonstrate interoperability for grant applications

Who Should Use This Guide:

- Project Managers writing RFPs
- QA/QC Reviewers evaluating BIM/IFC deliverables
- Training Coordinators developing curricula
- Grant Writers demonstrating standards compliance
- IT Staff integrating systems across lifecycle phases

Section 1: Understanding the Crosswalk Structure

1.1 Spreadsheet Organization

The Digital Standard Lifecycle spreadsheet contains multiple worksheets:

Tab 1: Lifecycle Phase Matrix

Columns:

- Lifecycle Phase (Planning, Survey, Design, Construction, Operations, Maintenance)
- Standard Name (IFC, NTCIP, WZDx, etc.)
- Standard Role (what it does in this phase)
- Use Case (specific application)
- Interoperability Links (how it connects to other phases)
- Implementing Organizations (who uses it)

Tab 2: Standards by Category

Categories:

- BIM/Digital Models (IFC, NBIMS, ISO 19650)
- Geospatial (GIS, LandXML, ISO 19115)
- ITS Operations (NTCIP, SAE J2735, TMDD)
- Asset Management (ISO 55000, CMMS)
- Construction (e-Construction, TransXML, WZDx)

Tab 3: Crosswalk Examples

Detailed mappings showing data flow:

- Bridge Design → Operations
- ITS Equipment Lifecycle
- Pavement Management

Tab 4: Property Mapping Tables

Field-level crosswalks:

- IFC Property → NTCIP Object Identifier
- GIS Attribute → IFC Property Set
- WZDx Field → SAE J2735 TIM Element

1.2 How to Read a Crosswalk Entry

Example Row from Lifecycle Phase Matrix:

Lifecycle Phase	Standard	Role	Use Case	Interop Links	Orgs
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Design	IFC4x3	3D infrastructure modeling	Bridge BIM with ITS equipment	Survey (LandXML) → Design (IFC) → Operations (NTCIP)	buildingSMART, DOTs, Designers
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Interpretation:




- **When:** During the Design phase
- **What:** Use IFC4x3 for creating 3D models
- **Why:** Model bridges with embedded ITS equipment properties
- **How it Connects:**
 - Input: Survey data (LandXML from survey phase)
 - Output: Operational data (NTCIP device properties for operations phase)
- **Who:** buildingSMART (develops standard), DOTs (require it), Designers (create it)

Section 2: Using the Crosswalk for RFP Development

2.1 Scenario: Writing an RFP for Bridge Design with ITS

Step 1: Identify Project Lifecycle Phases

Your project will span:

-  Design (current RFP)
-  Construction (future phase)
-  Operations (after completion)







Step 2: Open Crosswalk and Filter to "Design" Phase

In Excel:

1. Open `Digital_Standard_Lifecycle.xlsx`
2. Go to "Lifecycle Phase Matrix" tab
3. Filter Column A (Lifecycle Phase) → Select "Design"

Step 3: Identify Required Standards

For a bridge with ITS equipment, crosswalk shows:

Standard	Required?	Why
IFC4 or IFC4x3	 Yes	Bridge structural model
ISO 19650	 Yes	BIM information management
GIS/ISO 19115	 Yes	Geospatial context
LandXML	 Yes	Input from survey phase
NTCIP 1203/1209	 Yes	ITS equipment properties for operations
MIRE 2.0	 Optional	Roadway element classification

Step 4: Cross-Reference with Operations Phase

Your bridge will operate for 75 years. What properties does Operations need?

1. Filter to "Operations" phase
2. Look for standards that link to Design:
 - NTCIP 1203 (DMS signs)
 - NTCIP 1209 (Cameras)
 - SAE J2735 (V2X clearance heights)

Key Finding: IFC model must include properties enabling these operational uses!

Step 5: Generate RFP Requirements

Use crosswalk findings to write RFP Section 2.3:

2.3 BIM/IFC DELIVERABLES

The Consultant shall deliver Building Information Models in IFC4x3 format compliant with the following lifecycle standards:

2.3.1 Design Phase Standards (from Crosswalk Tab 1, Design Phase):

- ISO 16739 (IFC4x3): 3D bridge model with structural elements
- ISO 19650: BIM information management and common data environment
- ISO 19115: Geospatial metadata for coordinate system documentation
- buildingSMART IDM: Information delivery manual for bridges

2.3.2 Operations Phase Requirements (from Crosswalk Tab 1, Operations Phase):

To enable operational integration, IFC models shall include properties per:

- NTCIP 1203: DMS device IDs, controller IPs, object identifiers
- NTCIP 1209: Camera PTZ specifications, video stream URLs
- SAE J2735: Clearance heights for V2X traveler information messages

Rationale: Crosswalk (Tab 3: Bridge Design-Operations Example, Row 47) shows that IFC models without operational properties create data gaps, requiring costly retrofitting later.

2.3.3 Interoperability Validation:

Consultant shall demonstrate that IFC deliverables support data flow per Crosswalk Tab 3:

Survey (LandXML coordinates) → Design (IFC geometry) → Operations (NTCIP device data)

Reference: Digital Standard Lifecycle.xlsx, available at [platform URL]

Result: Your RFP now has clear, standards-based requirements with traceability to lifecycle needs!

2.2 Practical Example: Copy-Paste RFP Language

The crosswalk includes pre-written RFP language for common scenarios:

From "Tab 5: RFP Templates" (if available in your spreadsheet version):

TEMPLATE A: Bridge Design with ITS Integration

"Consultant shall deliver IFC models compliant with the Digital Standard Lifecycle Crosswalk (version [X.X]) for the following phases:

Design Phase Deliverables:

- ❑ IFC4x3 structural model (ref: Crosswalk row 23)
- ❑ buildingSMART IDS validation (ref: Crosswalk row 24)
- ❑ GIS geolocation metadata (ref: Crosswalk row 28)

Operations Phase Preparedness:

- ❑ NTCIP property sets for all ITS equipment (ref: Crosswalk row 65)
- ❑ SAE J2735-ready clearance heights (ref: Crosswalk row 67)
- ❑ CMMS-compatible asset attributes (ref: Crosswalk row 72)

Acceptance Criteria:

IFC models must pass automated crosswalk validation showing $\geq 90\%$ completeness for lifecycle requirements (ref: Crosswalk Tab 4: Validation Rules)."

Simply customize the template with your project specifics!

Section 3: Validating Consultant Submissions

3.1 Scenario: Reviewing IFC Model from Consultant

You received: BridgeProject_90pct.ifc file

Question: Does it meet lifecycle requirements per crosswalk?

Validation Process:

STEP 1: Upload to DOT Corridor Communicator Platform

Platform automatically runs crosswalk validation:

- Checks IFC properties against "Design Phase" requirements
- Identifies gaps for "Operations Phase" preparedness
- Generates compliance scorecard

STEP 2: Review Gap Analysis Report

Example Output:

=== CROSSWALK VALIDATION REPORT ===

File: BridgeProject_90pct.ifc

Validation Standard: Digital Lifecycle Crosswalk v1.0

DESIGN PHASE COMPLIANCE:

- ✓ IFC4x3 schema: PASS (ref: Crosswalk row 23)
- ✓ Geolocation (IfcSite): PASS (ref: Crosswalk row 28)
- ✓ Structural elements: PASS (ref: Crosswalk row 25)
- ⚠ ISO 19650 metadata: PARTIAL (80% complete, ref: Crosswalk row 24)

OPERATIONS PHASE READINESS:

- ✗ NTCIP device properties: FAIL (0% DMS have device_id, ref: Crosswalk row 65)
- ✗ SAE J2735 clearance heights: FAIL (missing Pset_BridgeCommon.ClearHeight, ref: Crosswalk row 67)
- ⚠ CMMS asset attributes: PARTIAL (60% complete, ref: Crosswalk row 72)

OVERALL SCORE: 68/100

RECOMMENDATION: REQUIRE RESUBMISSION (minimum 85/100 for acceptance)

STEP 3: Generate Deficiency List for Consultant

Email to Consultant:

Subject: BridgeProject IFC Model – Resubmission Required

The 90% IFC submission does not meet lifecycle requirements per the Digital Standard Lifecycle Crosswalk. Please address the following deficiencies and resubmit within 10 business days:

CRITICAL (Must Fix):

1. NTCIP Device Properties Missing (Crosswalk row 65)
 - Issue: All 3 DMS signs lack device_id, controller IP, and NTCIP OID properties
 - Requirement: Add Pset_DeviceCommon with device_id, Pset_NetworkConnection with ip_address
 - Reference: See Crosswalk Tab 4, Property Mapping Table, rows 23–28
2. V2X Clearance Heights Missing (Crosswalk row 67)
 - Issue: No clearance height property for V2X traveler information
 - Requirement: Add Pset_BridgeCommon.ClearHeight = [XX.X feet]
 - Reference: SAE J2735 TIM message requirements per Crosswalk Tab 3, Example 1

MEDIUM PRIORITY (Address by 100% submission):

3. CMMS Asset Attributes Incomplete (Crosswalk row 72)
 - Issue: 40% of elements missing installation dates, manufacturers
 - Requirement: Populate Pset_ServiceLife, Pset_ManufacturerTypeInformation
 - Reference: ISO 55000 requirements per Crosswalk Tab 1, Maintenance Phase

Attached: Crosswalk Validation Report (detailed)

Result: Clear, standards-based feedback that consultant can act on!

3.2 Manual Crosswalk Validation (No Platform Access)

If you don't have platform access, manually validate using Excel:

Create Validation Checklist from Crosswalk:

From "Tab 6: Validation Checklist Template" (create if not present):

PROJECT: BridgeProject
PHASE: 90% Design Review
DATE: [Today]

DESIGN PHASE REQUIREMENTS (from Crosswalk):

- ☐ Row 23: IFC4x3 schema used? → Check IFC header
- ☐ Row 24: buildingSMART IDS validation passed? → Run IDS tool
- ☐ Row 25: All structural elements present? → Visual inspection
- ☐ Row 28: Geolocation metadata complete? → Check IfcSite properties

OPERATIONS PHASE READINESS (from Crosswalk):

- ☐ Row 65: NTCIP properties on ITS equipment? → Inspect each device
Sample: Open IFC in BIM Vision → Click DMS → Check properties panel
Expected: device_id, ip_address, ntcip_standard
Actual: [Fill in findings]
- ☐ Row 67: SAE J2735 clearance heights? → Check IfcBridge properties
Sample: Select bridge deck → Check Pset_BridgeCommon
Expected: ClearHeight property (in feet)
Actual: [Fill in findings]

SCORING:

Total Requirements: 15

Met: [X]

Partially Met: [Y]

Not Met: [Z]

Score: $([X \times 1.0] + [Y \times 0.5]) / 15 \times 100 = [\text{Score}] \%$

Complete this checklist row-by-row using the crosswalk as your reference.

Section 4: Integration with Gap Analysis

4.1 Linking Gap Reports to Crosswalk

When platform generates a gap analysis report, it references crosswalk rows:

Example Gap Report Entry:

GAP ID: DI-2024-003

Category: V2X / Connected Vehicles

Severity: HIGH

Missing Property: device_id

IFC Element: IFCDYNAMICMESSAGESIGN (GUID: 2v8K3nH...)

Required For: NTCIP 1203 DMS Control (Operations Phase)

Standards Reference:

- Digital Lifecycle Crosswalk: Row 65 (Operations Phase, NTCIP 1203)
- Crosswalk Tab 4: Property Mapping Table, IFC-NTCIP, row 23

Recommendation:

Add Pset_DeviceCommon property set with device_id field per Crosswalk specification.
See Crosswalk Tab 3, ITS Equipment Lifecycle Example for complete workflow.

Impact if Not Fixed:

- Cannot integrate with ARC-ITS for real-time status monitoring
- Manual data entry required post-construction (\$5K-\$10K cost)
- V2X message generation infeasible (TIM messages need device reference)

How Crosswalk Provides Context:

1. **Row 65** tells you WHY this property is needed (NTCIP operations)
2. **Tab 4** shows you HOW to add it (exact property set and field name)
3. **Tab 3 Example** shows you WHEN it's used (operations phase, digital twin integration)

4.2 Prioritizing Gaps Using Crosswalk

Not all gaps are equal. Use crosswalk to prioritize:

High Priority Gaps (Must fix):

- Properties required for multiple downstream phases
- Example: device_id needed for Construction (as-built), Operations (NTCIP), Maintenance (work orders)
- Crosswalk shows: Row 65 (Operations), Row 88 (Maintenance), Row 52 (Construction)
- **Decision:** Critical - used in 3 phases!

Medium Priority Gaps (Should fix):

- Properties needed for one phase but high-value use case
- Example: Manufacturer/model for warranty tracking
- Crosswalk shows: Row 72 (Maintenance only)
- **Decision:** Important but not blocking deployment

Low Priority Gaps (Nice to have):

- Properties supporting optional/future use cases
 - Example: Energy consumption data for sustainability reporting
 - Crosswalk shows: Not explicitly listed (emerging requirement)
 - **Decision:** Defer to future enhancement
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Section 5: Training Curriculum Development

5.1 Using Crosswalk to Structure Training

The crosswalk provides a natural curriculum structure:

Course 1: "Digital Infrastructure 101" (For Executives, 2 hours)

Module 1: Why Standards Matter

- Show Crosswalk Tab 1: Lifecycle Phase Matrix
- Explain: "Data created in Design must support Operations 50+ years later"
- Use Case: Bridge BIM → V2X clearance warnings (Crosswalk Example 1)

Module 2: The Business Case

- Show cost of data gaps (manual re-entry, system incompatibility)
- ROI: Investing in crosswalk compliance saves \$XXK over lifecycle

Module 3: What Our Agency Needs to Do

- Require crosswalk compliance in RFPs
- Validate submissions using crosswalk checklist
- Train staff on crosswalk usage

Course 2: "BIM for Project Managers" (For PM Staff, 4 hours)

Module 1: Understanding the Crosswalk (30 min)

- Navigate the Excel file
- Find requirements for your project phase
- Interpret crosswalk rows and columns

Module 2: Writing RFPs with Crosswalk (90 min)

- Exercise: Draft Section 2.3 (BIM Deliverables) for sample bridge project
- Use Crosswalk Tab 1 to identify Design + Operations requirements
- Use Crosswalk Tab 5 RFP templates

Module 3: Validating Submissions (90 min)

- Exercise: Review sample IFC using crosswalk checklist
- Identify gaps and generate deficiency list
- Practice: Score IFC against crosswalk requirements

Module 4: Managing Consultant Performance (30 min)

- Contract language tying payment to crosswalk compliance
- Escalation procedures for non-compliance

Course 3: "IFC for Designers" (For Consultants, 8 hours)

Module 1: Standards Overview (60 min)

- Crosswalk lifecycle phases
- Which standards apply to design work
- Interoperability: How your work connects to operations

Module 2: IFC Property Sets (3 hours)

- Crosswalk Tab 4: Property Mapping Tables
- Exercise: Add NTCIP properties to DMS in Civil 3D
- Exercise: Populate Pset_BridgeCommon for clearance heights
- Validate: Run IDS checker against crosswalk requirements

Module 3: Quality Assurance (2 hours)

- Crosswalk validation checklist
- Common mistakes and how to avoid them
- Pre-submission validation process

Module 4: Practical Application (2 hours)

- Real project: Create IFC meeting crosswalk requirements
- Peer review using crosswalk scoring
- Q&A with agency staff

5.2 Crosswalk as Living Curriculum

As standards evolve, update training by:

1. Monitoring crosswalk updates (version control)
2. Updating training slides to reference new rows/tabs
3. Adding exercises for new use cases

Example: When WZDx v5.0 releases, update:

- Crosswalk Tab 1: Add row for WZDx v5.0 (Construction Phase)

- Training Module: Add 30-minute segment on WZDx v5.0 changes
- Exercise: Convert legacy WZDx v4.0 to v5.0 using crosswalk guidance

Section 6: Grant Application Support

6.1 Using Crosswalk to Demonstrate Interoperability

Federal grants (SMART, BUILD, RAISE, ATCMTD) prioritize data interoperability and standards compliance. The crosswalk provides proof:

Grant Application Section: "Technical Approach"

Our agency demonstrates data interoperability through adherence to the Digital Standard Lifecycle Crosswalk, a comprehensive mapping of industry standards across project phases.

EVIDENCE OF STANDARDS COMPLIANCE:

1. Design Phase (Exhibit A: Crosswalk Tab 1, rows 20–35)
 - All bridge designs delivered in IFC4x3 (buildingSMART ISO 16739)
 - BIM information management per ISO 19650
 - Geospatial integration per ISO 19115
2. Operations Phase (Exhibit A: Crosswalk Tab 1, rows 60–75)
 - ITS equipment integrated via NTCIP protocols (1203/1204/1209/1211)
 - V2X message generation per SAE J2735
 - Traffic management data exchange via TMDD
3. Interoperability Validation (Exhibit B: Gap Analysis Report)
 - Platform gap analysis shows 92% crosswalk compliance
 - Automated validation using buildingSMART IDS rules
 - Continuous monitoring via digital twin dashboard
4. Multi-State Coordination (Exhibit C: I-80 Corridor Example)
 - Crosswalk adopted by 11-state consortium
 - Common standards enable data sharing across state boundaries
 - Proof: Seamless V2X message broadcasting from CA to NJ

ATTACHMENTS:

- Exhibit A: Digital Standard Lifecycle Crosswalk v1.0 (Excel file)
- Exhibit B: Sample Gap Analysis Report (demonstrates validation process)
- Exhibit C: I-80 Consortium Governance Agreement (multi-state adoption)

Result: Grant reviewers see concrete evidence of interoperability, not just promises!

6.2 Quantifying Benefits Using Crosswalk

Crosswalk enables before/after analysis:

Benefit-Cost Analysis Table for Grant:

Lifecycle Phase	Before Crosswalk	After Crosswalk	Annual Savings	Source
Design	Manual data re-entry between CAD and GIS	Automated LandXML→IFC	\$25K	Crosswalk Tab 3, Example
Construction	Paper as-builts, manual updates	Real-time IFC updates via WZDx	\$50K	Crosswalk Row 52
Operations	Disconnected ATMS, no device metadata	Digital twin with NTCIP integration	\$120K	Crosswalk Row 65
Maintenance	Reactive maintenance, no predictive data	Predictive alerts from BIM+operational data	\$200K	Crosswalk Row 88
Total	Fragmented data, manual workflows	Interoperable lifecycle	\$395K/year	Full Crosswalk

20-year lifecycle benefit: \$7.9M **Grant request:** \$2.5M (for digital infrastructure platform) **Benefit-Cost Ratio:** 3.16:1

Cite crosswalk rows to substantiate each savings claim!

Section 7: Common Use Cases and Workflows

7.1 Use Case: Adding New ITS Device Type to Standards

Scenario: Your state is deploying new Road Weather Information Stations (RWIS) with sensors not in current IFC spec.

Workflow Using Crosswalk:

Step 1: Research Current Standards (Crosswalk Tab 1)

- Filter to "Operations Phase"
- Find: NTCIP 1204 (Environmental Sensor Stations)
- Note: References IFCWEATHERSTATION (IFC4x3)

Step 2: Identify Property Requirements (Crosswalk Tab 4)

- Look up: IFC→NTCIP Property Mapping
- Find row: IFCWEATHERSTATION properties
- Required: device_id, ntcip_oid, station_id, sensor_types

Step 3: Cross-Reference with Maintenance (Crosswalk Tab 1)

- Filter to "Maintenance Phase"
- Find: CMMS integration requirements
- Additional properties needed: manufacturer, model, install_date, calibration_due_date

Step 4: Create Internal Specification

AGENCY STANDARD ADDENDUM: RWIS DEPLOYMENT
Reference: Digital Lifecycle Crosswalk v1.0

IFC Requirements:

- Entity Type: IFCWEATHERSTATION (IFC4x3, Crosswalk row 70)
- Required Properties (per Crosswalk Tab 4, rows 35–42):

Pset_DeviceCommon:

- device_id (String): Agency asset ID
- DeviceType (String): "RWIS"

Pset_NetworkConnection:

- ip_address (String): Network IP
- ntcip_oid (String): 1.3.6.1.4.1.1206.4.2.4 (NTCIP 1204)

Pset_EnvironmentalSensor (custom):

- sensor_types (String): "Temp,Precip,WindSpeed,SurfaceCondition"
- data_feed_url (URL): Real-time data endpoint

Pset_ServiceLife:

- install_date (DateTime): Install date
- calibration_due_date (DateTime): Next calibration

Validation:

- buildingSMART IDS rule created (attached)
- Crosswalk updated: Agency-specific addendum tab

Procurement:

- RFP template updated to require RWIS properties
- QA/QC checklist updated with RWIS validation

Step 5: Share with Crosswalk Community

- Submit to DOT Corridor Communicator for inclusion in next crosswalk version
- Other states benefit from your work!

7.2 Use Case: Troubleshooting Data Integration Issue

Scenario: GIS technician can't import IFC bridge data into ArcGIS. Error: "Coordinate system mismatch."

Troubleshooting Using Crosswalk:

Step 1: Identify Integration Path (Crosswalk Tab 3)

- Find example: "BIM↔GIS Integration"
- Shows: IFC uses IfcMapConversion, GIS uses EPSG codes
- Common issue: EPSG code not specified in IFC

Step 2: Check Requirements (Crosswalk Tab 1, Design Phase)

- Row 28: ISO 19115 (Geographic Metadata)
- Requirement: IFC must include EPSG code in IfcProjectedCRS

Step 3: Validate IFC File

Open IFC in BIM Vision:

1. Properties → IfcSite → Check RefLatitude/RefLongitude (✓ present)
2. Properties → IfcMapConversion → Check TargetCRS (✗ missing EPSG!)

Root Cause: Designer didn't specify EPSG code

Step 4: Fix and Document

Fix: Add IfcProjectedCRS with EPSG:26975 (Iowa State Plane North)

Documentation Update:

- Add to agency IFC checklist: "Verify EPSG code present"
- Update RFP template: "Specify EPSG code per Crosswalk row 28"
- Share lesson learned with peer states

Result: Issue resolved, and processes updated to prevent recurrence!

Section 8: Maintaining and Updating the Crosswalk

8.1 Version Control Best Practices

Crosswalk Versioning:

Version 1.0: Initial release (January 2024)

Version 1.1: Add RWIS properties (March 2024)

Version 1.2: Update WZDx v5.0 mappings (June 2024)

Version 2.0: Major update for IFC4x4 (January 2025)

Tracking Changes:

- Maintain "Version History" tab in Excel
- Document: What changed, why, who requested, when effective
- Notify users of updates via email

Backward Compatibility:

- Keep old versions available (archive folder)
- Note in new version which rows changed from previous

8.2 Contributing Updates

When to Update Crosswalk:

- New standard released (e.g., WZDx v5.0, IFC4x4)
- New use case identified (e.g., electric vehicle charging infrastructure)
- Agency-specific requirements (e.g., state-mandated properties)
- Gap analysis reveals missing mappings

How to Contribute:

1. Document proposed change:
 - Which row/tab to update
 - Rationale (why needed)

- Source (standard specification, industry practice)
 - 2. Submit to crosswalk maintainer:
 - Email: crosswalk-updates@corridor-communicator.org
 - Include: Use case description, supporting documentation
 - Review process: 2-4 weeks
 - 3. Community review:
 - Technical Working Group reviews proposal
 - Pilot testing (1-2 states validate)
 - Approval and incorporation into next version
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Section 9: Resources and Support

9.1 Downloadable Templates

Available via DOT Corridor Communicator:

☐ RFP Section Template (generated from Crosswalk Tab 5) ☐ Validation Checklist (generated from Crosswalk Tab 6) ☐ Training Slide Deck (references Crosswalk throughout) ☐ Gap Analysis Integration Guide ☐ Crosswalk Quick Reference Card (1-page cheat sheet)

Access: <https://corridor-communicator.org/docs/crosswalk-toolkit>

9.2 Training and Webinars

Monthly Webinar Series: "Crosswalk Office Hours"

- Every third Friday, 2-3 PM ET
- Bring your questions (RFP review, validation issues, etc.)
- Live demo of crosswalk usage
- Register: training@corridor-communicator.org

On-Demand Training:

- Video: "Crosswalk 101" (30 minutes)
- Video: "Writing RFPs with the Crosswalk" (45 minutes)
- Video: "Validating IFC Submissions" (60 minutes)

9.3 Community Forum

DOT Corridor Communicator Forum: Crosswalk Section

- Share use cases and lessons learned
 - Ask questions (answered by peers and experts)
 - Download agency-specific addendums shared by other states
 - Access: community.corridor-communicator.org/crosswalk
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Section 10: Quick Reference Cheat Sheet

THE 5-MINUTE CROSSWALK WORKFLOW:

TASK: Write RFP for bridge with ITS

1. OPEN CROSSWALK
 - Digital_Standard_Lifecycle.xlsx
2. FILTER TO YOUR PHASE
 - Tab 1: Filter "Lifecycle Phase" = "Design"
3. IDENTIFY REQUIRED STANDARDS
 - Look for "Bridge" + "ITS" use cases
 - Note row numbers (e.g., rows 23, 65, 67)
4. CHECK DOWNSTREAM NEEDS
 - Filter to "Operations" and "Maintenance"
 - Find properties needed later (prevents rework)
5. GENERATE RFP LANGUAGE
 - Tab 5: Copy template, customize with row numbers
 - Insert into RFP Section 2.3
6. CREATE VALIDATION CHECKLIST
 - Tab 6: Copy checklist template
 - Customize with row numbers for this project

DONE! You now have:

- ✓ RFP with standards-based requirements
- ✓ Validation checklist for review
- ✓ Traceability to lifecycle needs

Document Version: 1.0 **Last Updated:** December 2024 **Crosswalk Version Referenced:** Digital Standard Lifecycle.xlsx v1.0

Related Documentation:

- [Executive Business Plan](#)
- [IFC Quick Start Guide](#)
- [Procurement Toolkit](#)
- [Pooled Fund Study Framework](#)
- [Digital Standards Crosswalk](#)

Download the Crosswalk: https://corridor-communicator.org/docs/Digital_Standard_Lifecycle.xlsx