



RESEARCH BRIEF · ASPC-RB-014

Infrastructure Investment and Lifecycle Maintenance

What evidence is needed to determine whether infrastructure value can persist after construction?

EVIDENCE-INFORMED ASPC ANALYSIS

Supporting publication to ASPC-IB-003

August 2026 · 6-page edition

Status, question and scope

ASPC RESEARCH SYNTHESIS.

Research question

What evidence is needed to determine whether infrastructure value can persist after construction?

Scope

Infrastructure produces durable value only when operations, maintenance, finance, skills, demand and governance are viable throughout the asset lifecycle.

Evidence cutoff: August 21, 2026. Government findings, agency-reported information and ASPC analysis are distinguished throughout.

Key findings

The reviewed sources support the following bounded findings.

- CRS economic-growth analysis treats infrastructure as part of a wider enabling environment rather than an isolated construction output.
- Development-finance tools depend on project viability and institutional conditions, while public obligations and affordability can remain material.
- Maintenance responsibilities and recurrent resources must be defined before delivery if assets are to remain usable.

Findings are paraphrased from the cited official records. Source scope and date remain controlling.

Evidence interpretation

What the evidence establishes

- CRS economic-growth analysis treats infrastructure as part of a wider enabling environment rather than an isolated construction output.
- Development-finance tools depend on project viability and institutional conditions, while public obligations and affordability can remain material.

What requires judgment

Infrastructure produces durable value only when operations, maintenance, finance, skills, demand and governance are viable throughout the asset lifecycle.

Application beyond the source setting is ASPC analysis and should be tested against the authority, capability, risk and conditions of the institutions involved.

ASPC application and limitations

Proposed application

- Publish the operating owner, service objective, maintenance standard and lifecycle-cost assumptions.
- Test demand, affordability, resilience, workforce, supply-chain and regulatory dependencies.
- Track service reliability and condition after handover, not only completion and capital expenditure.

Limitations

- Project feasibility requires sector-specific engineering, environmental, financial and legal analysis beyond this framework.

These applications are proposed by ASPC. Citation does not imply endorsement by any source institution.



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ASPC RELEVANCE

This research supports economic development and constructive partnership where stronger local capability can create durable value and advance shared interests with the United States.

CRS R47007

[Official source →](#)

DFC 2024 Annual Report

[Official source →](#)

CRS USTDA IF10673

[Official source →](#)

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