

ARC REVIEW

EVIDENCE SYNTHESIS

Literature Review

A rigorous literature review documenting search strategy, selection criteria, thematic synthesis, evidence gaps, and implications.

PREPARED FOR

Aperture Mobility

Northstar Systems · Mara Klein · 4 August 2026



Contents

Document contents

***Evidence note:** distinguish observed results, interpretation, limitations, and future validation throughout the document.*

Review question and scope

Define the question, purpose, population or phenomenon, context, concepts, date range, languages, and review type.

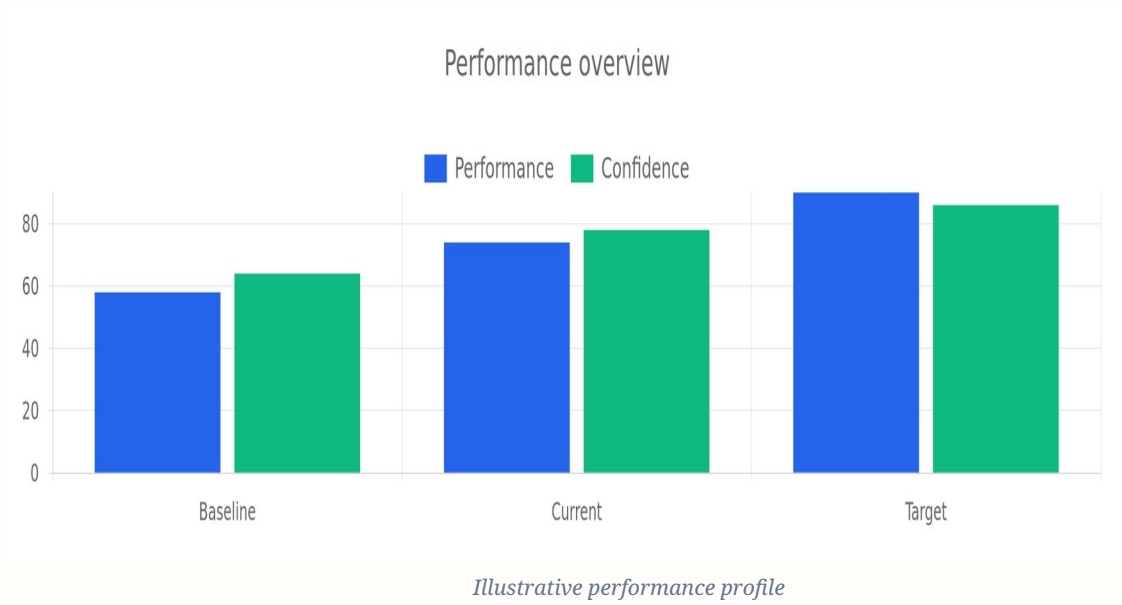
Evidence	Method	Interpretation	Limitation
Review question and scope	Structured analysis	Material pattern identified	Context-specific sample
Robustness check	Sensitivity review	Direction retained	Further validation recommended



Search strategy

Document databases, sources, search dates, complete strings, filters, supplementary search, deduplication, and update method.

Evidence	Method	Interpretation	Limitation
Search strategy	Structured analysis	Material pattern identified	Context-specific sample
Robustness check	Sensitivity review	Direction retained	Further validation recommended





Eligibility and selection

Set inclusion and exclusion criteria, screening stages, reviewer independence, disagreement resolution, and selection flow.

Evidence	Method	Interpretation	Limitation
Eligibility and selection	Structured analysis	Material pattern identified	Context-specific sample
Robustness check	Sensitivity review	Direction retained	Further validation recommended

Appraisal and extraction

Describe quality or bias assessment, extraction fields, calibration, missing information, and confidence method.

Evidence	Method	Interpretation	Limitation
Appraisal and extraction	Structured analysis	Material pattern identified	Context-specific sample
Robustness check	Sensitivity review	Direction retained	Further validation recommended

Evidence map

Summarize study characteristics, settings, methods, populations, outcomes, quality, and distribution of available evidence.

Evidence	Method	Interpretation	Limitation
Evidence map	Structured analysis	Material pattern identified	Context-specific sample
Robustness check	Sensitivity review	Direction retained	Further validation recommended



Thematic synthesis

Develop themes transparently, compare convergent and conflicting findings, explain heterogeneity, and preserve context.

Evidence	Method	Interpretation	Limitation
Thematic synthesis	Structured analysis	Material pattern identified	Context-specific sample
Robustness check	Sensitivity review	Direction retained	Further validation recommended

Gaps and implications

Identify evidence gaps, limitations, research priorities, practice or policy implications, and confidence in conclusions.

Evidence	Method	Interpretation	Limitation
Gaps and implications	Structured analysis	Material pattern identified	Context-specific sample
Robustness check	Sensitivity review	Direction retained	Further validation recommended

References and appendices

Provide included sources, excluded full texts with reasons, search records, extraction forms, and appraisal evidence.

Evidence	Method	Interpretation	Limitation
References and appendices	Structured analysis	Material pattern identified	Context-specific sample
Robustness check	Sensitivity review	Direction retained	Further validation recommended



Review and update record

Close the evidence cycle by recording the final checks, search currency, reviewer decision, and next planned update.

Check	Status	Evidence or owner
Search strings and databases are reproducible	Pending	Mara Klein
Selection decisions and exclusions are traceable	Pending	Mara Klein
Claims are linked to the synthesized evidence	Pending	Mara Klein
Limitations and evidence gaps are explicit	Pending	Mara Klein
Update owner and review date are assigned	Pending	Mara Klein

Record the decision, unresolved condition, and next review date before release.