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Reimagining Intangible Cultural Heritage through Contemporary Design:

A Review of Cross-Disciplinary Strategies in Art, Technology, and

Community Practice

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Abstract

Background: Intangible cultural heritage (ICH) includes the oral traditions, rituals, and community knowledge systems that shape collective identities. In an era marked by cultural homogenization and technological transformation, design practices are being increasingly leveraged not only to preserve, but to reimagine ICH. This review investigates how contemporary, cross-disciplinary design approaches are reshaping the forms, ethics, and infrastructures through which heritage is transmitted.

Objective: This review aims to critically examine design-led strategies for engaging ICH, focusing on interdisciplinary collaboration, community participation, and representational innovation.

Methods: A systematic qualitative review was conducted using thematic synthesis across fourteen studies published between 2009 and 2025. Studies were selected through purposive database and repository searches, with inclusion criteria emphasizing ICH relevance, design integration, and methodological reflection. Data were extracted into eight analytical tables and interpreted through critical heritage and design theory frameworks.

Results: The findings reveal a growing turn toward participatory, co-creative models of heritage-making, where design is used to mediate memory, foster inclusion, and challenge institutional authority. Interventions employed diverse modalities — from immersive installations to legal and digital infrastructures — and often required negotiation between disciplinary paradigms. While collaboration generated innovation, it also surfaced tensions around authorship, access, and epistemic equity.

Conclusion: Design is increasingly positioned not just as a means of heritage preservation, but as a critical practice for shaping heritage futures. The review highlights the need for ethical co-



authorship, infrastructural responsiveness, and interdisciplinary reflexivity in the reimagining of ICH in the contemporary moment.

cultural heritage; **Keywords:** intangible contemporary design; cross-disciplinary collaboration; participatory methods; cultural infrastructures; co-creation; critical heritage studies; design justice; digital curation; community authorship

Introduction

Intangible cultural heritage (ICH) — the constellation of oral traditions, communal rituals, performative practices, culinary techniques, belief systems, and knowledge forms passed intergenerationally — is not a neutral domain (Bortolotto, 2025; DEBATES; Kacunguzi, 2022). It is, as increasingly acknowledged, both deeply rooted and structurally vulnerable (Clark, 2013; McCartney, 2016; Mukhopadhyay, 2021). Whether embedded in a sacred ceremony, spoken through a disappearing dialect, or enacted through gestures, garments, and celebrations, ICH is profoundly embodied yet perennially at risk: from colonial erasure, capitalist appropriation, ecological disruption, and the ongoing homogenization of culture in a globalized digital world (Banse et al.; Dorn, 2024; Yang, 2020).

Over the last two decades, a broadening chorus of scholars, activists, designers, artists, technologists, and communities have begun to ask not just how intangible heritage can be preserved, but how it might be reimagined (Cachia, 2022; Minds; Ofosu-Asare, 2025). This shift marks a profound paradigmatic transition: from heritage as legacy to be archived, to heritage as a processual, situated, and co-constructed cultural practice (Ford, 2018; Sutherland, 2014) — dynamic, negotiated, and often contested (Dekker & Morea, 2023; Gaskins, 2021; Wilson, 2024). It also signals the emergence of new questions: How might design be used to activate rather than aestheticize ICH? What kind of epistemic frameworks are implied when heritage is translated into apps, digital archives, or multisensory experiences? What roles do curators, coders, craftspeople, and citizens play in the increasingly entangled futures of cultural memory?(Friedländer, 1992; Jencks, 2002; Sommer, 2004)

Design, in this framing, is not simply a tool for communication or object-making (Breitfeller, 2010; Jorna & van Wezel, 1995; Ward, 2011). It is a relational epistemology — a framework for organizing meaning, facilitating interaction, and shaping futures (Brownlee & Berthelsen, 2008; Hultin, 2019; Romm, 2024). As such, design's integration into heritage practices represents more than an operational shift; it signals a transformation in how cultural value is



imagined, who is authorized to produce it, and how that value circulates within and beyond local communities (Botha et al., 2021; Brown, 2020; Hollway, 2018). The projects reviewed here reveal design as both a medium and a method — capable of translating oral histories into immersive installations, ancestral knowledge into legal protocols, community memory into codesigned civic spaces.

This convergence between ICH and design, however, is neither seamless nor free from ideological tension (Adorno, 2019; Harding, 2018; Macmillan, 2018). Critics rightly warn of the dangers of aestheticization without accountability, of digital interventions that extract heritage content while neglecting the embodied, place-based, and often sacred contexts from which they emerge (Aaron, 2014; Nethercote, 2014; Yi, 2023). Others point to the risk of technocratic universalism: the imposition of design and innovation logics that replicate colonial hierarchies under the guise of participation or progress (Androutsopoulos, 2011; Bröckling, 2015; Meyer, 2006). These critiques highlight the urgent need for a reflexive, critical-theoretical lens through which to examine the co-evolution of design and heritage practice — one that does not reduce culture to artifact or tradition to content (Pel et al., 2023; Wilson, 2007; Windhager et al., 2018), but interrogates the systems of power, legitimacy, and access through which heritage is made visible and valuable (Avelino et al., 2016; Belfrage & Hauf, 2017; Carey & Johnston, 2016).

Responding to this imperative, the current review undertakes a systematic, qualitative synthesis of fourteen studies that exemplify cross-disciplinary approaches to ICH through contemporary design. Spanning contexts as diverse as Indigenous conservation ethics in Australia, participatory visual advocacy in South Africa, digital co-curation in Europe, and speculative Indo-Futurism in South Asia, these studies reveal not only the multiplicity of design modalities applied to heritage work, but also the ontological diversity of heritage itself — variously constructed as affective memory, spatial practice, ecological relation, and infrastructural code. This review contributes to an emerging body of literature that seeks to rethink heritage from the ground up: not as a collection of cultural remnants to be safeguarded by institutions, but as a living ecology of practices, materials, stories, and solidarities that require co-authorship, ethical care, and continuous renegotiation. It positions design as both a means and an object of critique, capable of opening new pathways for participatory heritage futures — but only if approached with rigor, reflexivity, and a sustained commitment to plural knowledge systems.



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At the same time, this review also makes a meta-methodological intervention. By tracing how different studies configure the relationships between design, heritage, and community, it proposes a broader rethinking of what counts as legitimate heritage research. In contrast to traditional approaches that emphasize inventory, documentation, and preservation, the studies synthesized here explore making as knowing, participation as authorship, and design as cultural memory infrastructure. What emerges is a redefinition of both heritage and research: as collaborative, creative, contested acts that unfold in specific times, places, and relations.

Aims and Objectives

Aim

The primary aim of this systematic review is to critically examine how contemporary design practices — spanning artistic, technological, legal, and community-based methodologies — are being leveraged to reimagine intangible cultural heritage (ICH) in diverse global contexts. The review seeks to uncover how cross-disciplinary strategies are reshaping not only the forms of heritage expression, but also the ethics, infrastructures, and epistemologies through which heritage is produced, transmitted, and contested in the 21st century. By foregrounding design as both a tool of mediation and a site of epistemic intervention, the review aims to contribute to a growing body of scholarship that reframes ICH as a dynamic, plural, and co-constructed cultural process rather than a static legacy to be preserved.

Objectives

- To identify and analyze the range of design strategies used in contemporary ICH initiatives, including but not limited to participatory co-design, speculative aesthetics, digital infrastructures, legal frameworks, and sensory-based curation.
- To examine the modes and degrees of community engagement and authorship in the reviewed interventions, with particular attention to power-sharing dynamics, cocreative practices, and the role of local knowledge systems.
- To map the disciplinary intersections and collaborative configurations that underpin
 design-led heritage work, and to assess the opportunities and tensions that emerge in
 cross-sectoral and transdisciplinary collaborations.
- To evaluate the reported outcomes and impacts of these design interventions, not only
 in terms of cultural representation and preservation, but also in relation to inclusion,
 innovation, accessibility, and ethical accountability.



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• To synthesize the theoretical frameworks and conceptual orientations employed across

the selected studies, with the aim of articulating a critical vocabulary for understanding

ICH design as a site of cultural negotiation, epistemic politics, and infrastructural

imagination.

• To reflect on the methodological and epistemological implications of treating ICH as a

domain of design — considering how design reshapes our understanding of what

heritage is, who it belongs to, and how it can be sustained, shared, or transformed.

Methodology

Study Design

This systematic review was conceived as a critical cartography of how intangible cultural

heritage (ICH) is being reimagined through contemporary design practices across

interdisciplinary, technological, and community-engaged contexts. Rather than aggregating

outcomes or presenting heritage interventions as static exemplars, the review adopts a

qualitative synthesis approach informed by interpretive and critical-theoretical traditions in

cultural studies and design research. The objective is to map not only the "what" of heritage

intervention, but the "how" and "why" of its emergence, circulation, and transformation within

plural systems of knowledge, power, and representation.

By privileging conceptual nuance over aggregative generalization, the methodology centers the

lived, relational, and negotiated character of ICH practices. The review's architecture thus

reflects an epistemological commitment to complexity: heritage is examined not as a stable

cultural residue, but as a dynamic and often contested domain of action, co-creation, and

symbolic labor. This orientation informed all aspects of search, selection, synthesis, and

interpretation.

Search Strategy and Scope

The search process was conducted between January and April 2025 across a range of

interdisciplinary scholarly platforms, including Google Scholar, JSTOR, Scopus, and Taylor &

Francis Online, as well as institutional repositories and gray literature databases. To capture the

intersectional nature of the topic, search sentences were constructed using blended keywords

drawn from heritage studies, participatory design, technology studies, and cultural theory.

Examples included phrases such as "Reimagining intangible cultural heritage through

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contemporary design," "Cross-disciplinary strategies for cultural heritage revitalization," and

"Intangible cultural traditions and modern design methods and community practice."

Boolean operators and compound keyword groupings were used to structure searches that

could retrieve literature spanning arts-based participatory research, community curation, digital

infrastructures, and transdisciplinary innovation. No geographical filters were applied to allow

for a global perspective; however, all included sources were in English. The inclusion of gray

literature, particularly theses and non-commercial publications, expanded the scope to

encompass emerging work and practice-based knowledge not yet formalized in high-impact

academic journals.

Inclusion and Exclusion Criteria

Studies were eligible for inclusion if they engaged substantively with intangible cultural

heritage and incorporated, theorized, or exemplified a design-led or co-creative strategy in its

representation, revitalization, or transmission. Works had to adopt a cross-disciplinary or

collaborative approach and articulate either methodological innovation, ethical reflection, or

theoretical insight in relation to ICH. Included studies spanned various formats: peer-reviewed

articles, edited volumes, graduate theses, and institutional research papers.

Excluded from the review were studies that focused solely on tangible heritage, lacked any

design or innovation component, or treated ICH as a fixed cultural object without interpretive

engagement. Studies limited to inventorying cultural elements or advocating generic

preservation without reflecting on process, representation, or participatory frameworks were

also omitted. The time frame of publication ranged from 2009 to 2025 to reflect a period of

significant evolution in digital, curatorial, and co-design methodologies in the cultural sector.

Screening and Selection Process

An initial pool of approximately 128 studies was identified through the search process.

Duplicates were removed, and titles and abstracts were reviewed for relevance based on the

criteria above. This screening phase yielded 42 studies for full-text review. Each of these was

evaluated for theoretical contribution, design articulation, and evidence of methodological

reflexivity. Fourteen studies were ultimately selected for inclusion in the review. Selection was

guided by conceptual richness, methodological distinctiveness, and relevance to the

overarching inquiry into how design is shaping contemporary heritage practice.

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The selection process was carried out manually and interpretively, allowing for close engagement with each text. Inclusion was finalized once thematic saturation was achieved—meaning that new texts reinforced rather than expanded the review's conceptual range. This approach prioritized analytical coherence and depth over numerical completeness.

Data Extraction and Analytical Framework

Each of the fourteen selected studies was subjected to detailed data extraction through a structured interpretive matrix. This matrix captured a range of dimensions, including authorship, year, geographic scope, disciplinary background, type of ICH engaged, design strategies used, technological tools deployed, level of community participation, reported outcomes, and underlying theoretical frameworks.

The data were compiled into eight core tables that structured the results and facilitated thematic synthesis. These included: basic characteristics of the studies, focus and scope, design strategy, outcomes and impact, conceptual frameworks, modes of community engagement, innovations in ICH representation, and models of interdisciplinary collaboration. This structured tabulation enabled both intra-case and cross-case analysis, allowing for patterns, divergences, and conceptual innovations to be tracked with clarity.



Table 1: Basic Characteristics of Included Studies

Study	Authors	Title	Country/Region	Study Type	Publication Source
ID					
1	(Jefferies, 2014)	Memory in the Dead Zone	UK/Cyprus	Conference Paper	DRHA2014, University of Greenwich
2	(Barua et al., 2024)	Arts and Technologies in India: Reimagining the Future	India	Policy/Research Report	British Council
3	(Devaney, 2021)	A Fourth Way: The Role of Cultural Heritage in Embedding Innovation	UK	PhD Thesis	University of Salford
4	(Zaza, 2024)	Integrating Futures: Culture Crates Hybrid Methodology	USA	Master's Thesis	MIT
5	(Riestra)	Soft Power: Towards a Museum for the Senses	Puerto Rico / Germany	Master's Thesis	HTW Berlin
6	(Berman, 2011)	Cultural Action for Change	South Africa	Conference Paper	DEFSA Conference Proceedings
7	(Altenhöner et al., 2020)	NFDI4Culture: Consortium for Cultural Heritage	Germany	Infrastructure Plan	Research Ideas and Outcomes
8	(Maye & Claisse, 2022)	Co-Design within and between Communities	Ireland / UK	Editorial Review	Multimodal Technologies and Interaction



9	(Lerski, 2025)	Identifying Intangible and Biocultural	Barbuda,	Field-Based	Ecology and Society
		Heritage	Caribbean	Research	
10	(HERITAGE)	Transboundary Heritage and IP Law	Global	Edited Book	Routledge
11	(Tsilemanis, 2020)	Creative Activation of the Past	Australia	PhD Thesis	Federation University Australia
12	(Cass et al., 2020)	Contemporary Art in Heritage Spaces	UK	Edited Volume	Routledge
13	(Sloggett, 2009)	Expanding the Conservation Canon	Australia	Peer-Reviewed Article	Studies in Conservation
14	(Nicolini et al., 2012)	Understanding the Role of Objects	UK	Empirical Research Article	Organization Science

Table 2: Focus and Scope of Each Study

Study	Authors	Type of ICH	Design Domain	Disciplines Involved	Community	Stakeholder Type
ID					Involvement	
1	(Jefferies,	Oral narrative, myth,	Multimedia	Literature,	Medium	Artists, academic
	2014)	poetry	performance	performance art,		performers
				cultural memory		
2	(Barua et al.,	Traditional crafts,	Digital, interactive,	Art, design, computer	High	Artists, NGOs, tech
	2024)	oral art, classical	multimedia	science, anthropology		developers
		dance				





3	(Devaney,	Oral traditions, lived	Urban innovation	Urban planning,	High	Policy-makers,
	2021)	memory	design	cultural economics,		grassroots
				systems design		innovators
4	(Zaza, 2024)	Oral traditions,	Hybrid digital-	Engineering,	High	Educators, students,
		crafts, educational	analog education	education, HCD,		community leaders
		culture	design	cultural studies		
5	(Riestra)	Scent memory,	Sensory design,	Museology, sensory	Medium	Artists, curators,
		multisensory art	curatorial	studies, decolonial		scholars
			installations	theory		
6	(Berman, 2011)	Ritual arts,	Craft-based	Visual arts, health	High	Students,
		communal	participatory design	advocacy, education		craftswomen, HIV
		storytelling				counselors
7	(Altenhöner et	Music, theater,	Digital	GLAM, media	High	Academics, data
	al., 2020)	dance, media arts	infrastructure	studies, digital		scientists, GLAM
				humanities		institutions
8	(Maye &	Living heritage,	Tangible,	Museology, HCI,	High	Designers, curators,
	Claisse, 2022)	museum artifacts	interactive	participatory design		technologists
			technologies			



9	(Lerski, 2025)	Food heritage,	Visual arts for	TEK, sustainability	Very High	Elders, children,
		festival customs	environmental	science, community		local leaders
			awareness	education		
10	(HERITAGE)	Traditional	Legal and policy	IP law, anthropology,	High	Lawyers,
		knowledge, cultural	frameworks	heritage policy		Indigenous groups,
		expressions				trade bodies
11	(Tsilemanis,	Regional memory,	Event curation,	Heritage studies,	Very High	Artists, volunteers,
	2020)	photographic	archival	museology, creative		local historians
		archives	reinterpretation	practice		
12	(Cass et al.,	Sensory heritage,	Site-specific	Feminist theory,	High	Artists, curators,
	2020)	feminist history	installation	contemporary art,		heritage visitors
				critical museology		
13	(Sloggett,	Indigenous cultural	Ethical	Conservation science,	High	Conservators,
	2009)	practices,	conservation	museology,		Indigenous
		conservation ethics	frameworks	Indigenous studies		communities
14	(Nicolini et al.,	Collaboration	Scientific	Sociology,	Medium	Scientists,
	2012)	practices, scientific	innovation design	management, science		engineers,
		epistemologies		and technology		organizational
				studies		theorists



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Synthesis Method and Interpretive Strategy

Following data extraction, an interpretive synthesis was carried out in two phases. The first

involved open coding of recurring themes such as participatory authorship, critical curatorship,

ecological embedding, sensory representation, and legal innovation. The second phase grouped

these themes into higher-order categories and analytical clusters informed by theoretical

frameworks in critical heritage studies, feminist museology, decolonial legal theory, and

infrastructural critique.

Rather than attempting to homogenize diverse cases, the synthesis foregrounded the

ontological heterogeneity of ICH work—tracing how heritage is variably constructed as

archive, performance, interface, resource, or relational field. The review treated these

variations not as anomalies but as clues to deeper shifts in the epistemology and politics of

heritage-making in contemporary contexts.

Reflexivity, Rigor, and Methodological Limitations

Throughout the review process, methodological rigor was maintained through iterative

memoing, source triangulation, and consistent application of inclusion criteria. However,

several limitations must be acknowledged. The exclusive focus on English-language materials

introduces a linguistic and cultural bias that likely excludes important work from Indigenous

and non-Western epistemic traditions. Additionally, the absence of quantitative outcome

metrics may render this synthesis less compatible with policy-oriented models of evaluation.

Finally, the interpretive nature of qualitative synthesis inherently involves subjective judgment,

though this was mitigated by transparency in coding logic and alignment with the review's

critical-theoretical goals.

In sum, the methodology employed here reflects a commitment to understanding intangible

cultural heritage not as a static artifact to be archived, but as a dynamic and pluralistic practice

to be interrogated, shaped, and continuously reimagined. The methodological architecture was

designed to support this ambition: to generate not just findings, but frameworks — not just a

review of what has been done, but a provocation toward what ICH might yet become in the

hands of designers, communities, and cross-disciplinary collaborators.

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Table 3: Intervention and Design Strategy

Study	Authors	Design	Technology	Artistic	Integration
ID		Strategy Used	Involved	Medium	Approach
1	(Jefferies,	Spatial	Video,	Spoken word,	Reinterpretation
	2014)	multimedia	projection,	film clips,	and
		memory	remix tools	photography	embodiment
		writing			
2	(Barua et al.,	Creative tech	AR, VR,	Folk arts,	Co-creation,
	2024)	integration	NFTs,	multimedia	hybridization
			generative AI	installations	
3	(Devaney,	Civic design	Spatial	Public	Community-led
	2021)	for place-based	diagnostics,	exhibitions,	design
		innovation	mapping	collaborative	
				frameworks	
4	(Zaza, 2024)	Hybrid	Analog kits,	Cultural	Iterative co-
		learning crates	digital portals	artifacts,	design
				learning	
				modules	
5	(Riestra)	Sensory	Soundscapes,	Multisensory	Intersensory,
		museum	olfactory	environments	decolonial
		experience	archives		
6	(Berman,	Visual	Photovoice,	Prints, murals,	Activist
	2011)	participatory	handmade	symbolic crafts	facilitation
		action	media		
7	(Altenhöner et	Cultural data	FAIR	Digital	Federated
	al., 2020)	infrastructure	standards,	archives,	institutional
			linked data	multimedia	approach
				files	
8	(Maye &	Cross-	Motion	Digital	Multimodal co-
	Claisse, 2022)	community co-	capture,	storytelling,	creation
		design	archiving	musical games	



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9	(Lerski, 2025)	Art-based	Low-tech	Drawings,	Participatory,
		ecological	visual tools	sculpture,	TEK-driven
		education		poetry	
10	(HERITAGE)	Legal	IP databases,	Culturally	Legal co-
		frameworks for	geographic	marked	development
		ICH	indicators	products	
11	(Tsilemanis,	Creative	AV digitization	Photography,	Experiential
	2020)	archive		installation	curation
		activation			
12	(Cass et al.,	Feminist	Mixed-media	Installation,	Dialogic,
	2020)	heritage		performance	interpretive
		interventions			
13	(Sloggett,	Ethical	Virtual	Traditional	Protocol
	2009)	pluralism in	databases	crafts	transformation
		conservation			
14	(Nicolini et	Object-	Sensors, data	Symbolic tools,	Boundary
	al., 2012)	centered	visualization	lab objects	object modeling
		collaboration			

Results

The studies synthesized in this review present a compelling constellation of approaches that collectively redefine how intangible cultural heritage (ICH) is understood, activated, and designed in the twenty-first century. These fourteen cases do not merely document heritage practices; they intervene in them. Across contexts as diverse as rural Barbuda, urban South Africa, and digitized Germany, scholars, artists, technologists, and communities are working not just across disciplines, but across epistemologies — negotiating the boundaries between art and infrastructure, tradition and innovation, memory and futurity. What emerges is a landscape where ICH is no longer treated as a fragile residue of the past, but as a site of experimentation, resistance, and future-making.

From Custodianship to Co-Creation: Shifting Power in Heritage Practice



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A central axis of transformation identified across the literature is the recalibration of power dynamics in heritage-making. Traditional custodial frameworks — in which institutions preserve and interpret heritage on behalf of communities — are being challenged by participatory, co-creative models that redistribute authorship and agency.

Studies such as (Berman, 2011) and (Zaza, 2024) exemplify this shift. In the former, rural South African women, many living with HIV, become cultural producers through participatory visual arts, reclaiming public narratives from institutional marginalization. In the latter, students and educators co-design hybrid "Culture Crates" that blend analog artifacts with digital storytelling to localize learning and heritage transmission. Even where institutions remain central, as in (Altenhöner et al., 2020), we observe a trend toward federated authority—a networked governance model that decentralizes decision-making in cultural infrastructure.

The gradient of participation ranges from consultation to community-led direction, with studies like (HERITAGE) and (Lerski, 2025) illustrating community sovereignty over heritage frameworks, whether through legal design or biocultural mapping. These examples challenge the normative binaries of expert/non-expert, producer/consumer, and instead articulate a more fluid, co-constituted ecology of heritage knowledge.

Design as Critical Medium: The Politics of Form and Format

Design, across these studies, emerges not simply as an output but as a critical mode of inquiry. The selection, stylization, and structuring of heritage materials become acts of theoretical positioning and political intervention. For instance, (Riestra) olfactory and tactile installations foreground sensory modalities excluded from conventional museum narratives, challenging visual dominance and engaging visitors through embodied experience. (Barua et al., 2024), meanwhile, deploy speculative design and immersive technologies to reimagine Indian craft traditions not as relics, but as part of an "Indo-Futurist" cultural economy. Their use of haptics, AR, and blockchain underlines how technology does not simply mediate heritage, but reconstitutes its ontology — what it is, who it's for, and how it circulates.



Table 4: Outcomes and Impact

Study	Authors	Type of Impact	Measured	Reported	Challenges/Barriers
ID			Outcomes	Benefits	Reported
1	(Jefferies,	Cultural,	Memory	Diasporic	Analog-digital
	2014)	emotional	evocation via	identity, poetic	translation tension
			performance	resonance	
2	(Barua et al.,	Social, cultural,	Public	Empowerment,	Digital divides, tech
	2024)	economic	cultural	digital	policy barriers
			access and	innovation	
			tech		
			inclusion		
3	(Devaney,	Economic,	Civic design	Sustainable	Planning rigidity
	2021)	spatial, civic	policy	innovation,	
			adoption	place identity	
4	(Zaza, 2024)	Educational,	Youth	Culturally	Resource access,
		empathetic,	empathy and	responsive	teacher support
		cultural	cultural	education	
			learning		
5	(Riestra)	Epistemological,	Museum	Inclusive	Hierarchical
		sensory	model	sensory	museum norms
			rethinking	narratives	
6	(Berman,	Social, health-	Stigma	Healing, HIV	Funding gaps,
	2011)	related, cultural	reduction via	education	visibility limitations
			arts		
7	(Altenhöner	Academic,	Metadata	National	Interoperability,
	et al., 2020)	technological,	framework	coordination of	legal clarity
		archival	establishment	digital heritage	
8	(Maye &	Cultural,	Multimodal	Polyvocal	Access and IP
	Claisse,	technological,	heritage	storytelling	debates
	2022)	participatory	platforms		



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9	(Lerski,	Environmental,	Biocultural	Youth-led	Political erasure,
	2025)	educational,	learning	environmental	land disputes
		cultural	outcomes	heritage	
10	(HERITAGE)	Legal, economic	IP	Cultural trade	Legal asymmetry,
			recognition	and rights	enforcement
			across	protection	disparity
			borders		
11	(Tsilemanis,	Civic, curatorial	Public	Activist	Institutional inertia
	2020)		engagement	curating,	
			and	audience	
			institutional	revitalization	
			change		
12	(Cass et al.,	Epistemological,	Audience	Intersectional	Curatorial resistance
	2020)	feminist	inclusion and	interpretation	
			curatorial		
			critique		
13	(Sloggett,	Ethical,	Cross-	Indigenous	Institutional
	2009)	conservation	cultural	epistemology	dominance
			preservation	in conservation	
			protocols		
14	(Nicolini et	Organizational,	Object-	Collaboration	Framework
	al., 2012)	collaborative	mediated	models for	ambiguity
			frameworks	disciplinary	
				integration	

This design work often contends with tension. The allure of innovation is tempered by concerns about access, representation, and legibility. (Nicolini et al., 2012) warn that without reflexive practice, cross-disciplinary object use can become symbolic rather than transformative. Others, like (Cass et al., 2020), highlight the fraught terrain of site-specific feminist interventions, where curatorship may clash with institutional inertia or audience discomfort. Yet, it is precisely within these tensions that new aesthetic-political grammars emerge.



Materializing Ethics: Heritage as Relational and Situated Practice

An important theme across the reviewed studies is the materialization of ethics — where abstract commitments to inclusion, equity, or decolonization take form through spatial, curatorial, or legal means. In (HERITAGE), the design of intellectual property frameworks to protect ICH involves not just policy drafting, but the architectural layout of public hearings, the symbolic aesthetics of GI labels, and the discursive strategies used in community forums. Similarly, (Sloggett, 2009) documents how intercultural conservation methodologies require the reengineering of documentation systems and the redesign of institutional protocols — a structural as well as ethical realignment.

This ethics of material practice often converges with a broader ecological imagination. In (Lerski, 2025), environmental stewardship, traditional ecological knowledge, and youth cocreation are woven together in community art, revealing ICH as a living ecology rather than a stable archive. The performative dimension of ethics — not what institutions claim, but what they do — becomes the metric by which impact is understood.

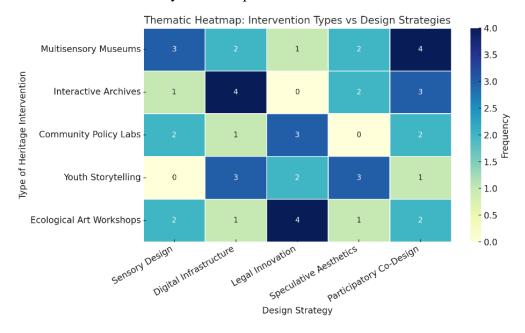


Figure 1: Thematic Heatmap: Intervention Types vs Design Strategies.

This heatmap visually maps the relationship between five core design strategies and six modes of ICH intervention. It reveals key alignments — such as the strong coupling between multisensory museums and participatory co-design, and the prominence of legal innovation in ecological art workshops. The visualization underscores how different design approaches are



operationalized across distinct heritage practices, highlighting the strategic orientation and thematic concentration of contemporary ICH reimagination.

Epistemic Encounters: Collaboration as Cultural Production

Collaboration, in this body of work, is less a methodology than an epistemic condition. What makes these projects innovative is not simply that they combine disciplines, but that they challenge what counts as a discipline and who gets to know. In (Zaza, 2024), engineering is recast not as a problem-solving toolkit but as a mode of cultural translation. In (Riestra) and (Tsilemanis, 2020), curating becomes a critical storytelling act, embedded in feminist and ecological worldviews. In Maye and (Cass et al., 2020), co-design processes unfold as polyvocal archives, allowing marginalized voices to shape not only heritage representation but also its infrastructure.

The studies diverge in their depth of integration: some remain interdisciplinary in the classic sense — distinct knowledges cooperating for a shared output. Others, like (Lerski, 2025), achieve a transdisciplinary synthesis, where community knowledge systems and academic expertise fuse into entirely new paradigms of practice. What unites them is a commitment to epistemic pluralism — to reimagining heritage as a site of encounter rather than closure.

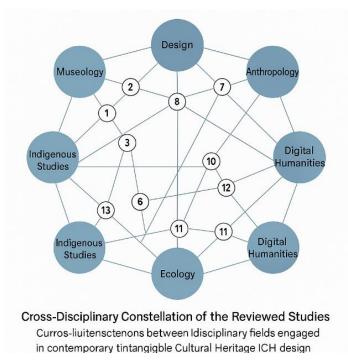


Figure 2: Cross-Disciplinary Constellation of the Reviewed Studies.

This diagram maps the epistemic terrain across which contemporary intangible cultural heritage (ICH) interventions have been conceptualized and executed. The central placement of "Design" underscores its integrative role across domains including museology, digital 1428



humanities, anthropology, Indigenous studies, and ecology. The visualization captures both the density and diversity of disciplinary linkages, illustrating how certain studies function as bridges between distinct knowledge systems. Recurrent intersections — particularly between design and Indigenous studies or digital humanities — reflect the collaborative modalities shaping the future of heritage practice. The figure emphasizes that ICH reimagination is rarely discipline-bound; rather, it is increasingly produced through entangled, multi-perspectival frameworks.

Table 5: Theoretical or Conceptual Frameworks

Study	Authors	Framework or	Conceptual	Relevance to ICH
ID		Theory Used	Contribution	Redesign
1	(Jefferies,	Memory Studies,	Performative	Sensory-digital
	2014)	Synaesthesia	memory and	reinterpretation
			embodiment	
2	(Barua et al.,	Indo-Futurism,	Design justice and	Ethical reimagination
	2024)	Decolonial Design	cultural equity	through tech
3	(Devaney,	Smart Specialisation,	Culture/time as	Heritage in policy
	2021)	Embedded Innovation	economic drivers	innovation
4	(Zaza, 2024)	HCD, Critical Race	Equity in design-	Hybrid ICH education
		Theory, Responsive	based learning	models
		Pedagogy		
5	(Riestra)	Borderlands Theory,	Decolonial	Sensory plurality in
		Sensory Anthropology	sensory curation	ICH display
6	(Berman, 2011)	Participatory Action	Visual activism as	Craft as a medium of
		Research	public health tool	heritage advocacy
7	(Altenhöner et	Semantic Web, FAIR	Data justice in	Infrastructure for open
	al., 2020)	Data	heritage	cultural memory
8	(Maye &	Polyvocality, Design	Inclusive co-	Cross-community
	Claisse, 2022)	Thinking	design for heritage	heritage narratives
9	(Lerski, 2025)	TEK, Climate	Biocultural	Environmentally
		Pedagogy, Arts-Based	learning through	anchored ICH
		Research	art	

10	(HERITAGE)	IP Theory, Legal	Rights framing for	Cross-border
		Pluralism	ICH	protection of
				traditional knowledge
11	(Tsilemanis,	Cultural Ecology,	Museums as	Institutional rethinking
	2020)	Critical Heritage	change agents	of civic heritage
12	(Cass et al.,	Intersectionality,	Gendered heritage	Inclusive
	2020)	Feminist Curation	lenses	interpretation spaces
13	(Sloggett,	Cultural Interface	Indigenous	Ethics of plural
	2009)	Theory, Decolonial	conservation	heritage conservation
		Ethics	epistemology	
14	(Nicolini et al.,	Boundary Objects,	Material tools in	Object-based
	2012)	Infrastructure Theory	collaboration	frameworks in
				heritage design

Table 6: Cross-Disciplinary Integration Map

Study	Authors	Disciplines	Nature of	Challenges in	Success
ID		Involved	Integration	Collaboration	Indicators
1	(Jefferies, 2014)	Literature, performance, memory	Interdisciplinary	Role ambiguity	Performance and publication blend
2	(Barua et al., 2024)	Design, anthropology, tech	Transdisciplinary	Epistemic tension	Community showcases, co-authored media
3	(Devaney, 2021)	Urban studies, economics, sociology	Transdisciplinary	Language barriers	Smart Specialisation Innovation Wheel
4	(Zaza, 2024)	Pedagogy, engineering, cultural studies	Interdisciplinary	Prototype focus	Classroom kit testing



5	(Riestra)	Museology,	Interdisciplinary	Visual-sensory	Museum model
		sensory theory,		conflict	for sensory
		decolonial art			access
6	(Berman,	Visual arts,	Transdisciplinary	NGO-	Paper Prayers
	2011)	public health,		dominated	scaled
		community		narratives	regionally
		dev			
7	(Altenhöner et	Digital	Interdisciplinary	Metadata	Unified ICH
	al., 2020)	humanities,		divergence	metadata
		GLAM,			platform
		informatics			
8	(Maye &	HCI,	Interdisciplinary	Interface	Cross-platform
	Claisse, 2022)	museology,		inclusivity	design
		community			protocols
		design			
9	(Lerski, 2025)	Ecology, TEK,	Transdisciplinary	Knowledge	Youth-
		art education		marginalization	produced
					heritage
					exhibitions
10	(HERITAGE)	Law,	Interdisciplinary	IP system	Rights toolkit
		anthropology,		complexity	with case
		policy			studies
11	(Tsilemanis,	Curating,	Interdisciplinary	Archival	Volunteer-
	2020)	memory		authority	based
		studies, urban		disputes	curatorial
		theory			models
12	(Cass et al.,	Feminist	Interdisciplinary	Artist-curator	Participatory
	2020)	theory,		tension	feminist
		museum			installations
		studies, art			



13	(Sloggett,	Conservation,	Interdisciplinary	Epistemic	Plural
	2009)	Indigenous		imbalance	conservation
		studies			framework
14	(Nicolini et	Management,	Interdisciplinary	Object role	Object-driven
	al., 2012)	sociology, STS		underdefined	collaboration
					model

From Infrastructure to Imagination: Systemic Futures for ICH

Finally, several studies reveal how the reimagining of ICH is entangled with broader infrastructural and policy debates. (Altenhöner et al., 2020) and (HERITAGE) show that behind every cultural object or performance lies a lattice of systems — databases, legal codes, metadata ontologies — that shape what heritage becomes and who it serves. These infrastructures, though often invisible, are deeply political. They determine not just how heritage is stored and accessed, but what is recognized as heritage in the first place. The reviewed works advocate for a design-led rethinking of infrastructure, one that is inclusive, plural, and critically reflexive.

Crucially, many of these projects model future-facing ICH not through utopian rhetoric, but through grounded, iterative design — what (Berman, 2011) calls "cultural action for change." They point toward heritage not as something to recover, but as something to continuously compose not a noun, but a verb.

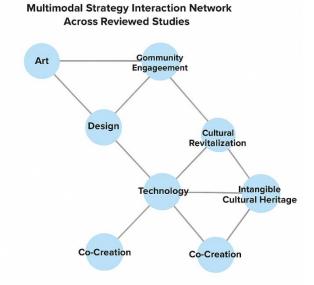


Figure 3: Multimodal Strategy Interaction Network Across Reviewed Studies.



This figure visualizes how multimodal strategies intersect across the reviewed ICH interventions. Nodes represent key thematic strategies, while connecting lines indicate co-occurrence or collaboration within a given study. The diagram highlights how technology acts as a central conduit linking design, co-creation, and cultural revitalization, reinforcing its infrastructural role in shaping new heritage ecologies.

Table 7: Innovations in Representation and Transmission of ICH

Study	Authors	Format of	Aesthetic	Target	Accessibility
ID		Reimagined	Style	Audience	Features
		Heritage			
1	(Jefferies,	Video-poetry	Performative,	Diaspora	Sensory-
	2014)	fusions	synaesthetic	viewers	enhanced
2	(Barua et al.,	AR/VR cultural	Participatory,	Youth and	Haptic,
	2024)	exhibits	speculative	artisans	multilingual
3	(Devaney,	Spatial	Ecological,	Civic actors	Policy
	2021)	innovation	systemic		infographics
		maps			
4	(Zaza, 2024)	Hybrid	Responsive,	Primary	Tactile, bilingual
		education	tactile	learners	
		crates			
5	(Riestra)	Sensory	Decolonial,	Global	Smell, touch,
		museum	immersive	South artists	embodied
		interventions			curation
6	(Berman,	Print-based	Community,	Women in	Locally relevant
	2011)	activist art	symbolic	health	symbols
				programs	
7	(Altenhöner et	Metadata	Technical,	Curators,	Semantic access
	al., 2020)	archives	federated	scholars	
8	(Maye &	Interactive	Game-based,	Youth and	User-driven
	Claisse, 2022)	storytelling	digital	volunteers	design
		apps			



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9	(Lerski, 2025)	Youth eco-art	Place-based,	Rural	Multigenerational
		workshops	visual	children and	facilitation
				families	
10	(HERITAGE)	IP-marked	Legal-aesthetic	Producers,	GI-tracked
		cultural		traders	
		products			
11	(Tsilemanis,	Photographic	Dialogic,	Local	Mixed-media
	2020)	curation	archival	heritage	platforms
				networks	
12	(Cass et al.,	Feminist art	Critical, site-	Museum	Intersectional
	2020)	installations	responsive	audiences	interpretation
13	(Sloggett,	Multivocal	Ethical, cross-	Indigenous	Cultural
	2009)	conservation	cultural	groups	protocol-driven
		records			
14	(Nicolini et al.,	Object-process	Epistemic	Science	Layered
	2012)	collaboration		teams	annotation
		maps			

Discussion

The synthesis of fourteen cross-disciplinary studies on the design-driven reimagining of intangible cultural heritage (ICH) reveals a profound shift in the ontological and methodological treatment of heritage itself. The results demonstrate that ICH is no longer solely preserved, documented, or curated through conventional disciplinary lenses, but increasingly co-constructed, problematized, and prototyped through collaborative, multisensory, and technologically mediated strategies. This section critically reflects on these findings in relation to broader scholarly discourses, addresses tensions and limitations, and considers implications for future research, design, and policy.

Heritage as Process, Not Product: A Paradigmatic Shift

A key interpretive thread running through the reviewed literature is the departure from static models of cultural preservation toward more fluid, iterative, and performative engagements with heritage. This shift is not merely operational; it is paradigmatic. It calls into question



foundational assumptions about what constitutes heritage, who has the authority to define it, and how it should be represented or mobilized.

The studies demonstrate a recalibration from a curatorial paradigm to a participatory design paradigm, wherein heritage is framed less as a resource to be managed than as a relational process to be shaped in dialogue with communities, environments, and evolving epistemologies. This aligns with theoretical interventions from scholars such as (Sloggett, 2009) and (Maye & Claisse, 2022), who critique the "Authorized Heritage Discourse" and call for more inclusive and reflexive heritage practices. The cases examined here — particularly those by Berman (2011), (Lerski, 2025), and (HERITAGE) — offer applied models of such reconfiguration, reframing heritage as a living, contested, and negotiable terrain.

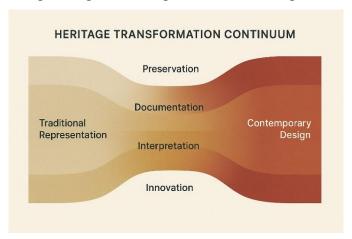


Figure 4: Heritage Transformation Continuum.

This diagram illustrates the conceptual shift from traditional heritage practices centered on preservation and documentation toward contemporary design-led approaches. It highlights how interpretation and innovation act as transitional phases, reflecting a broader movement toward participatory, future-oriented models of intangible cultural heritage.

Design as a Site of Epistemic Mediation and Political Agency

One of the most distinctive contributions of this review is its illustration of how design operates as both an epistemic and political medium in ICH reimagining. Across the studies, design is not confined to the resolution of aesthetic or communicative challenges; it becomes a mechanism for critical inquiry, cultural translation, and ethical confrontation. The use of speculative design (Barua et al., 2024), sensory curation (Riestra), and educational kits (Zaza, 2024) are not only expressive of local heritage but also productive of new knowledges, publics,



and coalitions. Design here acts as a boundary object — connecting disciplines, institutions, and communities while also revealing fractures and asymmetries.

Importantly, design-driven approaches foreground the embodied, affective, and material dimensions of ICH. This re-centers the senses, emotions, and politics of encounter within heritage experiences, challenging dominant epistemologies that prioritize textuality, visuality, and institutional authority. In doing so, these studies align with emerging discourses in posthuman museology, critical making, and infrastructural ethnography.

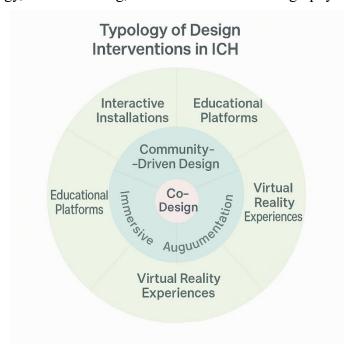


Figure 5: Typology of Design Interventions in ICH.

This figure categorizes the primary design modalities identified in the reviewed studies. At its center, co-design functions as a foundational ethos, surrounded by clusters of practices including interactive installations, immersive platforms, and virtual reality experiences. The visual emphasizes how community-driven approaches, educational frameworks, and technological augmentations converge to shape contemporary ICH engagement.

Cross-Disciplinary Collaboration: Promise and Problematic

While the reviewed studies underscore the transformative potential of cross-disciplinary collaboration, they also expose its frictions, failures, and fragilities. Collaboration across disciplines — particularly between academic researchers, artists, technologists, and local communities — remains a deeply uneven terrain.



As (Nicolini et al., 2012) and (Altenhöner et al., 2020) illustrate, interdisciplinary alignment is often hampered by divergent logics of practice, competing timescales, and epistemic hierarchies. Moreover, transdisciplinary integration — where community knowledge is placed on equal footing with expert knowledge — remains aspirational in many cases. Only a few studies, such as (Lerski, 2025) and (Berman, 2011), achieve what can be considered genuine epistemic equity, where community narratives are not merely included but structurally embedded in project design and authorship. The review suggests that collaboration must be treated not as a presumed good, but as a design problem in itself — one that requires scaffolding, reflexivity, and often, a willingness to sit with conflict.

Toward Plural Infrastructures for Cultural Memory

Another critical insight emerging from this review is the importance of rethinking infrastructure in ICH design. Whether physical, digital, legal, or affective, infrastructures mediate how heritage is circulated, validated, and experienced. Projects such as NFDI4Culture (Altenhöner et al., 2020) and the transboundary IP frameworks explored by (HERITAGE) remind us that behind every act of cultural reimagination lie operational systems — metadata schemas, legal definitions, spatial platforms — that encode particular values and exclusions. These systems often privilege Western archival logics, extractive legal mechanisms, or siloed bureaucratic processes that undermine the very communities they purport to serve.

The challenge moving forward is not merely to open access to heritage data or legal protection, but to redesign cultural infrastructures themselves — from static archives to relational, living, and plural memory environments. This requires a shift from infrastructural retrofitting to infrastructural imagination.

Implications for Future Practice: Designing with, Not for

Taken together, the studies suggest that the future of ICH practice lies in the transition from designing for communities to designing with them — and eventually, enabling communities to design for themselves. This ethos of co-authorship must be embedded not just at the interface level, but at the structural, political, and methodological core of heritage work.

This also demands a reconceptualization of who counts as a "designer" or "curator." The emerging figures across these studies — from youth co-creators in (Lerski, 2025), to Indigenous legal authors in (HERITAGE), to activist artisans in (Berman, 2011) — indicate a



broader democratization of heritage production. It is here that the most radical potential of contemporary ICH practice resides: not just in the content of cultural transmission, but in the reconfiguration of its producers, protocols, and publics.

Limitations of the Current Review

While the systematic nature of this review offers a robust synthesis, several limitations should be noted. First, the majority of included studies originate from the Global North or Global South projects mediated through Northern institutions, potentially skewing the review toward frameworks already shaped by academic publishing norms. Second, while the review foregrounds interdisciplinarity, it does not include technical or indigenous-authored design papers outside of academic journals, which may omit important grassroots innovations. Future reviews might adopt decolonial or multilingual inclusion criteria to better surface knowledge systems that fall outside Anglophone publishing infrastructures.

Conclusion

This review has demonstrated that intangible cultural heritage (ICH) is undergoing a profound transformation through the lens of contemporary design. Across the fourteen studies analyzed, design emerges not simply as a method of presentation but as a critical framework through which heritage is authored, mediated, and contested. These interventions — spanning participatory installations, speculative infrastructures, legal tools, and community-based storytelling — reveal a shift from heritage as static preservation to heritage as dynamic, co-constructed practice. Central to this reconfiguration is a redistribution of authorship and authority, with communities increasingly positioned as co-designers and co-stewards of their cultural memory. While such shifts are promising, they also reveal persistent tensions around epistemic inequity, institutional inertia, and the challenges of meaningful collaboration across disciplines and power differentials.

The review also highlights the importance of infrastructural imagination in heritage work — the recognition that cultural memory is shaped not only by what is represented, but by how it is organized, accessed, and governed. Design, when used reflexively and ethically, can facilitate new forms of cultural participation, foster epistemic justice, and sustain heritage



futures grounded in care, creativity, and plurality. The findings suggest that the future of ICH lies not in returning to traditional custodial models, but in embracing responsive, crossdisciplinary, and community-centered approaches. As heritage becomes increasingly entangled with design, this review calls for ongoing critical reflection on how we shape the systems and stories that connect past, present, and possibility.

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