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## Dialogic architecture- Integration of Adaptive Reuse and Contemporary Intervention

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Abstract - This research investigates Architecture as a contemporary design approach that integrates adaptive reuse with new architectural intervention. Drawing from theoretical studies, historical precedents, and modern case analyses, the study identifies how dialogic architecture enables old and new structures to coexist through material, spatial, and temporal dialogue. The research finds that this approach supports sustainable development by reducing embodied energy and reinforces cultural continuity by preserving spatial memory and architectural identity. Case studies of the Tate Modern, London, and Fondazione Prada, Milan, demonstrate how dialogic design strategies achieve successful coexistence industrial between heritage and contemporary architecture. The paper concludes dialogic that architecture offers a viable framework for future architectural practice, especially in dense, culturally layered, and sustainability-driven contexts.

**Key Words-** Dialogic Architecture, Adaptive Reuse, Cultural Continuity, Spatial Dialogue, Contemporary.

#### 1.INTRODUCTION

Contemporary cities face a growing demand for new functions within limited land and existing built fabric. This makes demolition-based condition development increasingly unsustainable and culturally disruptive. The concept of Dialogic Architecture—originating from Bakhtin's dialogism and extended into architectural discourse—offers an alternative way of designing where old structures are not erased but placed in conversation with new additions. Rather than imposing a monolithic architectural voice, dialogue-based design creates coexistence between historical identity and modern requirements. This paper studies dialogic architecture as a design method, enabling architects to preserve memory while fostering architectural evolution.

#### 2. BACKGROUND AND NEED OF STUDY-

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Architecture today faces the challenge of designing within existing contexts while preserving cultural identity. Dialogic Architecture addresses this need by creating a dialogue between the old and the new-where adaptive reuse preserves historical value and new interventions introduce contemporary relevance [1], [2]. While adaptive reuse has long been recognized as a sustainable approach, its relationship with new construction as part of a unified architectural language remains underexplored [5]. The idea of dialogue in architecture is not new, as seen in architectural theory that frames design as a conversation across time [4]. Historical examples, such as layered temple complexes in India, reveal how successive additions responded to earlier forms with respect and continuity—though the concept was not formally defined then [7]. Contemporary projects like the Tate Modern in London and Fondazione Prada in Milan now reinterpret this dialogue in modern contexts through sensitive adaptive reuse and innovative design [5], [6]. This research builds upon existing studies of reuse and sustainability to define Dialogic Architecture as a cohesive design framework, contributing to architectural discourse by examining how old and new structures can coexist meaningfully [1],[3]

## **METHODOLOGY-**

The research followed a structured process beginning with the selection of a topic rooted in contemporary architectural concerns of coexistence between old and new built forms. This was followed by the formulation of a clear aim and set of objectives to guide the study's direction. A comprehensive literature review was conducted through secondary sources such as peerreviewed articles, books, and research papers to establish grounding. This enabled a deeper theoretical understanding of Dialogic Architecture, its origins, and its relevance within present architectural discourse. The study explored adaptive reuse and contemporary



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architectural additions, examining how these two components interact within a dialogic framework. To validate these concepts, detailed case studies—including Tate Modern in London and the Fondazione Prada in Milan—were analyzed for their design strategies and oldnew integration. The insights from these investigations were synthesized through analysis and inference, leading to a consolidated understanding of dialogic principles in practice. Finally, the study concluded with a comprehensive conclusion summarizing key findings and highlighting the significance of dialogic architecture in contemporary design practice.

#### 4. LITERATURE STUDY-

#### 4.1 Conceptual Understanding-

The concept of Dialogic Architecture finds its theoretical roots in Mikhail Bakhtin's philosophy of dialogism. Bakhtin described dialogue as an ongoing exchange between multiple voices, perspectives, and meanings, where no single element dominates another. Kenniff describes dialogic architecture as an approach where old and new elements engage in an active architectural dialogue that enables continuity within processes of transformation [1]. His study of Barking Town Square shows how built heritage and contemporary interventions can coexist within urban regeneration contexts. In this research, dialogic architecture is understood as a framework linking adaptive reuse—preserving historical identity—with new interventions that address present-day needs. Together, these components create a balanced architectural relationship in which past and present complement rather than compete with one another.

#### 4.2 Adaptive reuse and new interventions-

Building upon Bakhtin's concept of dialogue and Kenniff's architectural interpretation, this research extends the idea of dialogism into the built environment through two key components — adaptive reuse and new interventions. adaptive reuse is defined as repurposing an existing structure for a new function while preserving its historical character and cultural memory [2]. It forms the foundational layer of dialogic architecture by retaining material essence, spatial identity, and contextual belonging. Recent studies further position adaptive reuse as a sustainable design approach that reduces environmental impact and reinforces cultural relevance [3]. In contrast, new intervention introduces a contemporary architectural layer through new forms, materials, or structures that respond to the existing fabric.

As stated in A New Future for the Past (2015), such interventions are most effective when they respect the identity of the old while asserting the authenticity of the new, establishing complementarity rather than imitation.

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#### 4.3 Dialogic vs Monologic Architecture-

A monologic approach is defined by a singular design vision that imposes itself on the site, treating architecture as an autonomous object rather than part of a cultural continuum. Such designs privilege individuality over context, resulting in visual dominance and spatial isolation, speaking "in only one voice" and refusing to participate in ongoing historical or urban dialogue [3]. While often iconic, monologic architecture tends to overlook the temporal depth and contextual relationships that give meaning to place.

In contrast, dialogic architecture embraces coexistence, negotiation, and responsiveness. It positions every intervention within an evolving continuum where past and present interact through material, spatial, and temporal dialogue. Kenniff describes this as a "conversation across temporal boundaries," where architectural identity emerges through interaction rather than separation [1]. This approach promotes contextual integration, material dialogue, and temporal layering—valuing contrast not as conflict but as productive tension that strengthens both old and new [3], [4]. Ultimately, dialogic architecture supports continuity, inclusivity, and cultural evolution, framing architecture as an ongoing relational process rather than a singular act of authorship.

# 5. DESIGN STRATEGIES FOR ADAPTIVE REUSE IN DIALOGIC ARCHITECTURE-

Design strategies in adaptive reuse under the framework of dialogic architecture emphasize balance over dominance — allowing the existing and new to coexist through thoughtful interaction. The aim is not merely preservation or transformation, but to generate a spatial conversation that bridges architectural continuity with contemporary relevance.

#### 5.1 Contextual Integration-

The first step in dialogic adaptive reuse is to understand and respond to the context — both physical and cultural. Rather than imposing a new identity, the design grows from the site's existing layers, establishing continuity between the structure and its surroundings. The idea is to design with the context, not on top of it. This involves



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analyzing the original purpose, materials, orientation, and spatial hierarchy, allowing new functions to naturally evolve from the existing framework.

#### 5.2 Material Continuity and Contrast-

Material continuity focuses on respectful adaptation—introducing materials that respond to the same logic of craftsmanship, proportion, or tonality. For example, adding new brickwork that follows the rhythm and scale of existing masonry, or using locally sourced materials that resonate with the site's heritage, ensures that the building's material expression remains cohesive while accommodating contemporary needs. Continuity is thus established through respectful use of the original material palette, either by restoring it or by referencing its textures, tones, and craftsmanship. [8], [9]

## 5.3. Spatial Layering-

It strengthens legibility allowing users to distinguish what belongs to the past and what is newly introduced—while maintaining a unified spatial experience. In this approach, new interventions are strategically placed to complement the hierarchy and rhythm of the existing structure, rather than dominating or concealing it. Techniques such as interstitial voids, double-height transitions, glass connectors, and overlapping circulation paths enable the old and new volumes to engage in an active spatial dialogue. Transparency, openness, and controlled sightlines become tools that narrate the passage of time and evolution of form. Thus, it is not merely about inserting new spaces within old ones but about orchestrating relationships between different layers of time, structure, and use. [1], [3].

#### 5.4 Reversibility and Minimal Intervention-

Sustainability within adaptive reuse relies on non-invasive and reversible interventions. Rather than permanently altering the heritage fabric, new additions are designed to be removable or adaptable. This ensures that the structure retains its integrity, allowing future generations to reinterpret it once again. Lightweight structures, modular elements, or steel-and-glass extensions often exemplify this approach. Reversibility can be achieved by designing new interventions that are structurally independent, non-invasive, and easily removable. This is done through lightweight steel or timber frameworks that do not rely on the original walls for support, allowing the historic fabric to remain untouched. Using dry construction methods like bolted or clamped joints instead of permanent adhesives ensures that elements can be dismantled in the future. [5]

#### 5.5 Functional Transformation-

Adaptive reuse within dialogic architecture transforms the function without erasing the spirit. The new purpose gives extended life to the building, keeping it socially relevant. In doing so, functional transformation promotes sustainability by extending the lifecycle of buildings and minimizing resource consumption, while simultaneously ensuring cultural continuity through the retention of spatial memory.

This strategy demonstrates architectural responsiveness, as the new function is designed in conversation with the existing form rather than against it. The spatial reconfiguration, material choices, and circulation design respect the inherent qualities of the structure, ensuring that adaptation becomes a process of negotiation instead of imposition. [2], [5]

#### 6. PHYSICAL ATTRIBUTES-

#### 6.1 Material-

Materiality is one of the clearest mediums through which dialogic architecture expresses the relationship between the existing and the new. Materials act as "voices," communicating through contrast and continuity, where aged stone, brick, or timber reflect permanence, while new materials such as glass, steel, and concrete signal contemporary precision. Rather than uniform blending, dialogic design encourages complementarity, allowing roughness and refinement, opacity and transparency, tradition and innovation to coexist [3], [6]. Material choices follow principles of compatibility, honesty, and expression, ensuring new work remains distinguishable yet harmonious.

#### 6.2 Form and Massing-

Form and massing in dialogic architecture are key instruments through which the relationship between the existing and the new is spatially negotiated. Rather than treating additions as extensions or replicas, one can employ form to express continuity through distinction — creating compositions that respect the scale, rhythm, and proportion of the original while asserting a contemporary identity. In this way, massing becomes a language of response, not dominance. In adaptive reuse, the new intervention is often conceived as a counterpart rather than a continuation. The original form retains its structural and visual prominence, while the new volume complements it through contrast in geometry, height, or orientation. This dialogue between forms allows users to read both



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historical context and modern intent simultaneously. The architectural challenge lies in maintaining balance allowing contrast without conflict, and continuity without imitation. [3]

#### 5.3 Spatial Dialogue-

Spatial Dialogue refers to the way architectural spaces communicate with one another — how volumes, voids, forms, materials and movement interrelate so that the building's parts are in conversation. It is not simply the arrangement of spaces, but the exchange between them: older and newer parts, horizontal and vertical volumes, interior and exterior, light and shadow. The existing structure establishes a spatial logic, while the new intervention introduces a complementary or contrasting rhythm that enriches the overall experience. Pathways, courtyards, atriums, and vertical connections all become tools to negotiate this relationship, allowing users to understand the transition between architectural eras through movement. When planned intentionally, this dialogue produces a seamless experiential gradientwhere users are aware of moving from one time period into another, yet without any abrupt visual or spatial rupture. [1], [4].

#### 7. HISTORICAL CONTEXT-

Although the term dialogic architecture is relatively new, the essence of dialogical thinking has long been embedded in architectural evolution. Architecture functioned as a continuous cultural narrative shaped by changing needs, dynastic patronage, and social rituals — reaffirming Bakhtin's idea that meaning emerges through interaction rather than isolation [3], [7]. Indian temple architecture is a prominent example of this tradition: temples were rarely single-phase constructions but grew over centuries as mandapas, cloisters, gopurams, and shrines were added while maintaining the sanctity and orientation of the garbhagriha. Usually, the "old structure" represents the original sacred or functional core, while the "new structure" signifies layers of reinterpretation through scale, ornamentation, or spatial addition.

The Brihadeeswarar Temple in Thanjavur exemplifies this layered continuity. The monumental 11th-century Chola core-with its granite vimana, axial mandapa, and sanctum—formed the temple's foundational order, while later Nayaka and Maratha additions introduced mandapas, cloisters, murals, and plaster ornamentation that expanded its ritual and artistic functions without disrupting its geometric discipline [7], [9]. Similarly, the Virupaksha

Temple at Hampi demonstrates dialogic evolution through the transformation of a modest 7th-century Chalukyan shrine into a vast Vijayanagara pilgrimage complex. Additions such as towering gopurams, pillared halls, colonnades, and processional pathways responded to evolving cultural, civic, and ritual needs while preserving the spiritual centrality of the sanctum [7], [8].

## 8. DIALOGIC ARCHITECTURE AS A SUSTAINABLE APPROACH-

Dialogic architecture advances sustainability by extending the life of existing structures and reducing the environmental burdens associated with demolition and new construction. By retaining foundational elements, structural systems, and spatial frameworks, it minimizes material waste and significantly lowers embodied carbon, a point consistently emphasized in adaptive reuse research [2], [5]. Instead of replacing entire buildings, dialogic design relies on targeted upgrades—such as thermal improvements, passive ventilation, and lightweight contemporary additions—that enhance performance while maintaining contextual integrity. Sustainability further emerges through long-term adaptability: when new interventions are reversible, modular, or structurally independent, buildings can accommodate future functions without resource-intensive reconstruction. [4].

architecture supports Dialogic sustainability maximizing the use of existing structures through retention and upgrading rather than replacement, using techniques such as steel bracing, carbon-fiber wrapping, underpinning, and compatible masonry repairs to enhance stability while reducing embodied carbon. Life-cycle extension further strengthens sustainability by retrofitting buildings—improving aging thermal performance, structural systems, and services—so they can adapt to new uses without major reconstruction The approach also maximizes passive design by building upon the inherent climatic intelligence of historic structures, integrating strategies like shared courtyards, cross-ventilation, and shading devices to create old-new environmental synergy. At the same time, embodied energy reduction is achieved by preserving existing fabric and using low-energy materials only where necessary, minimizing ecological impact. In rapidly urbanizing cities with limited land, this makes dialogic architecture especially valuable, enabling architects to adapt and expand existing buildings to meet rising spatial demands while reducing demolition waste and maintaining environmental balance [5], [9], [4]



## 9. CULTURAL CONTINUITY THROUGH DESIGN-

Cultural continuity in architecture refers to the transmission of values, traditions, spatial practices, and collective memory across generations. It occurs when new architectural interventions respect the cultural identity embedded in existing buildings rather than replacing or isolating it.

Architecture becomes a vessel of cultural memory through ritual spaces—courtyards, mandapas, chowks, and ghats—that accumulate meaning through repeated community engagement [7]. Dialogic architecture strengthens this memory by retaining such spaces and adding new layers that support present needs without disrupting established patterns [3]. Materials also play a key role: stone, brick, timber, and lime plaster embody tactile heritage, while contemporary materials highlight the temporal contrast. When old and new coexist, the architecture becomes a readable timeline in which communities can trace their cultural evolution.

In contemporary practice, cultural continuity is maintained when new additions complement the spatial logic, symbolism, and material character of heritage buildings while meeting modern needs like accessibility and adaptability [3], [4]. Dialogic architecture achieves this by reinterpreting spatial markers—thresholds, courtyards, ritual paths—and integrating them into new programs such as libraries, cultural hubs, or public facilities [5]. In rapidly urbanizing cities, this layered development promotes cultural resilience by avoiding demolition-led change and enabling historic areas to remain active parts of daily life [7], [9]. Thus, dialogic architecture ensures that cities evolve in continuity with their cultural identity rather than in conflict with it.

#### 10. CASE STUDIES-

## 10.1 TATE MODERN, LONDON

#### **Project Overview-**

- Site & Original Building: Tate Modern is housed in the former Bankside Power Station, designed by Sir Giles Gilbert Scott and built between 1947 and 1963.
- In 1994, the Tate Gallery acquired the building, and Herzog & de Meuron converted it into a modern art gallery.

The gallery opened in 2000, preserving much of the power station's industrial character, including the Turbine Hall

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Fig. 1 Old Power Station/ Tate Modern Building Source- Archdaily

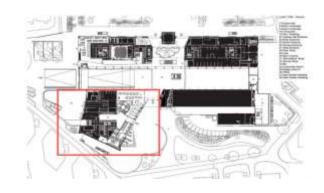


Fig -2: Plan with Switch House extension highlighted Source- https://www.herzogdemeuron.com



Fig -3: Tate Modern (2000) with Switch House Source- Archdaily

#### **Architectural Context-**

The adaptive reuse strategy inserted structurally independent gallery floors within the Boiler House, preserved spatial memory, and maintained industrial materiality. The Turbine Hall, left largely unaltered, became a dramatic public foyer demonstrating how spatial continuity can support new cultural programs while retaining the identity of the original industrial volume [6]. This approach illustrates dialogic principles: memory is preserved through material and spatial retention, while new functions give renewed life to the structure.



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thus stands as a refined model of dialogic architecture where old and new do not compete but constructively reinforce each other, illustrating continuity, relevance, and

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#### 10.2 FONDAZIONE PRADA, MILAN-

#### **Project Overview-**

architectural evolution [10].

Fondazione Prada located in Milan, formerly was an industrial distillery. It was taken under Architect Rem Koolhaas by OMA. Adaptive reuse of a 20th-century gin distillery in Milan into a contemporary cultural campus. Existing site included brick warehouses, silos, production halls, and a masonry tower. OMA introduced three new structures: the Podium, the Cinema, and the Torre. The project forms a layered architectural ensemble where industrial heritage and [1]contemporary design coexists [11], [12].

In 2016, the Switch House (Blavatnik Building) extension brought a distinct contemporary layer to the site. Designed as a twisted pyramidal tower with a perforated brick lattice, it echoes the tone of the original structure while asserting a modern architectural language [10]. Internally, it accommodates new galleries, circulation shafts, learning spaces, and viewing terraces. Dialogically, the Switch House establishes contrast through geometry but maintains continuity through material resonance and spatial connectivity. Circulation bridges, reactivated oil tanks, and multi-level linkages create a unified experiential flow between old and new, reinforcing how temporal layers can coexist within a coherent architectural narrative [3].



Fig -4: Front view of Switch House Source- Archdaily



Fig -5: Close-up of the Switch House's brick lattice façade Source- Archdaily



#### **Dialogic Integration-**

This integration demonstrates how adaptive reuse and contemporary intervention jointly can support sustainability and cultural continuity. Retaining the power station's structural shell minimized demolition waste and embodied carbon, while extending programmatic capacity through new construction enabled the site to evolve into a major cultural landmark. The coexistence of industrial materiality with contemporary forms strengthens London's cultural memory while enabling the museum to meet modern curatorial and public demands. Tate Modern



Fig -6: Fondazione Prada, Milan Source- Archdaily

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#### **Architectural Context-**

OMA retained the original industrial fabric—brick warehouses, concrete silos, and a four-storey tower—valuing their spatial openness and raw materiality as foundations for new cultural functions. The historic buildings serve as the horizontal, textured, heavy layer of the site, while selective transformations such as the gold-clad "Haunted House" reinterpret the old without erasing it. In contrast, the new additions assert a distinctly contemporary presence: the glass-and-steel Podium, the mirror-finished Cinema, and the white-concrete Torre introduce new spatial scales, atmospheres, and forms. This creates a multi-temporal campus where old and new maintain clear identities while supporting a continuous programmatic framework [11], [12].



**Fig -7**: Shaded Region showing new extensions *Source- Archdaily* 

#### **Dialogic Integration-**

Fondazione Prada achieves dialogic architecture through deliberate contrast and complementarity in form, massing, and materiality. The preserved industrial sheds anchor the site with their low, dense, brick-and-concrete geometry, while the new structures introduce verticality, reflectivity, and precision, generating a dialogue between rough vs. refined, horizontal vs. vertical, and historic vs. contemporary. Spatially, transitions between raw industrial halls and controlled gallery environments create an experiential layering where the visitor perceives shifts in light, texture, and proportion. This sequencing reinforces the conversation between architectural eras, ensuring the heritage fabric remains legible, while new interventions add contemporary relevance and flexibility [11].



**Fig -8**: Haunted House + Podium / Courtyard the gold cladded tower *Source- Archdaily* 



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**Fig -9**: Torre (Tower) — the tall white-concrete gallery tower.

Source- Archdaily



Fig -10: Cinema — mirror-clad stainless-steel volume.

Source- Archdaily



**Fig -11**: Podium / New Gallery — showing the courtyard space and new volumes *Source- Archdaily* 



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#### Case Study Insights-

The study of Tate Modern and Fondazione Prada shows that dialogic architecture succeeds when adaptive reuse and new intervention are integrated through material continuity, formal contrast, and spatial dialogue. In both projects, the preserved industrial fabric forms the foundation, while contemporary additions introduce distinct identities without overpowering the old. Together, they demonstrate how old–new coexistence can reinforce cultural continuity, enhance functional relevance, and support sustainable architectural development.

#### **CONCLUSIONS-**

This study set out to understand dialogic architecture as a design approach that brings adaptive reuse and new intervention into a meaningful relationship. Through literature review, historical analysis, and contemporary case studies such as the Tate Modern and layered Indian temple complexes, the research provides a clear architectural reading of how old and new structures can coexist without conflict. The findings reaffirm that dialogic architecture is not simply a theoretical term—it is a practical, context-sensitive method that preserves identity while enabling transformation. The significance of this research lies in its ability to frame dialogic architecture as a relevant design strategy in addressing contemporary urban challenges, particularly in highdensity contexts where land, resources, and heritage must be carefully managed.

While the study provides a focused exploration through selected examples, it acknowledges that the scope remains limited to qualitative analysis. Future research may expand by incorporating more diverse typologies, quantitative environmental assessments. Further exploration of user experience, community perception, and long-term adaptability could also strengthen the framework. Ultimately, this research establishes dialogic architecture as a promising direction for future architectural practice—one that allows cities to evolve responsibly, ensuring that transformation is rooted in continuity rather than rupture.

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