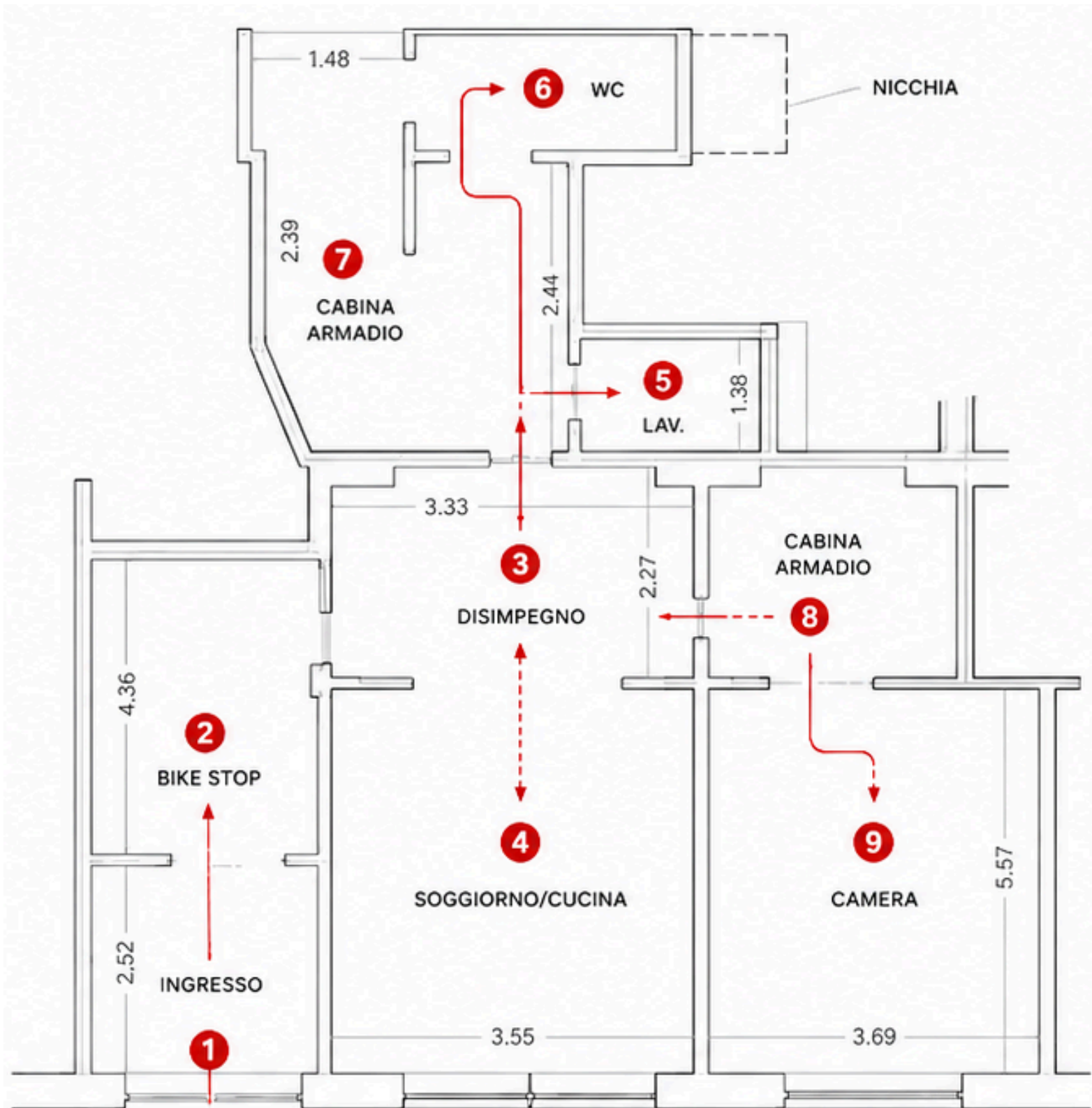


VIA AVOGADRO 10

INTERIOR DESIGN AND SPACE PLANNING PROPOSAL
COMPARISON BETWEEN THE ARCHITECT'S LAYOUT
DESIGN VS
A HYPOTHESIS FOR OPTIMIZED CIRCULATION



ARCHITECT SCENARIO — NARRATIVE CIRCULATION



The architect's route is designed as a gradual transition from the urban threshold to the most private space of the house.

Sequence:

1 Entrance → 2 Bike stop → 3 Filter space → 4 Living/Kitchen →
5 LAV → 6 WC → 7 Wardrobe → 8 Cabina Armadio → 9 Bedroom

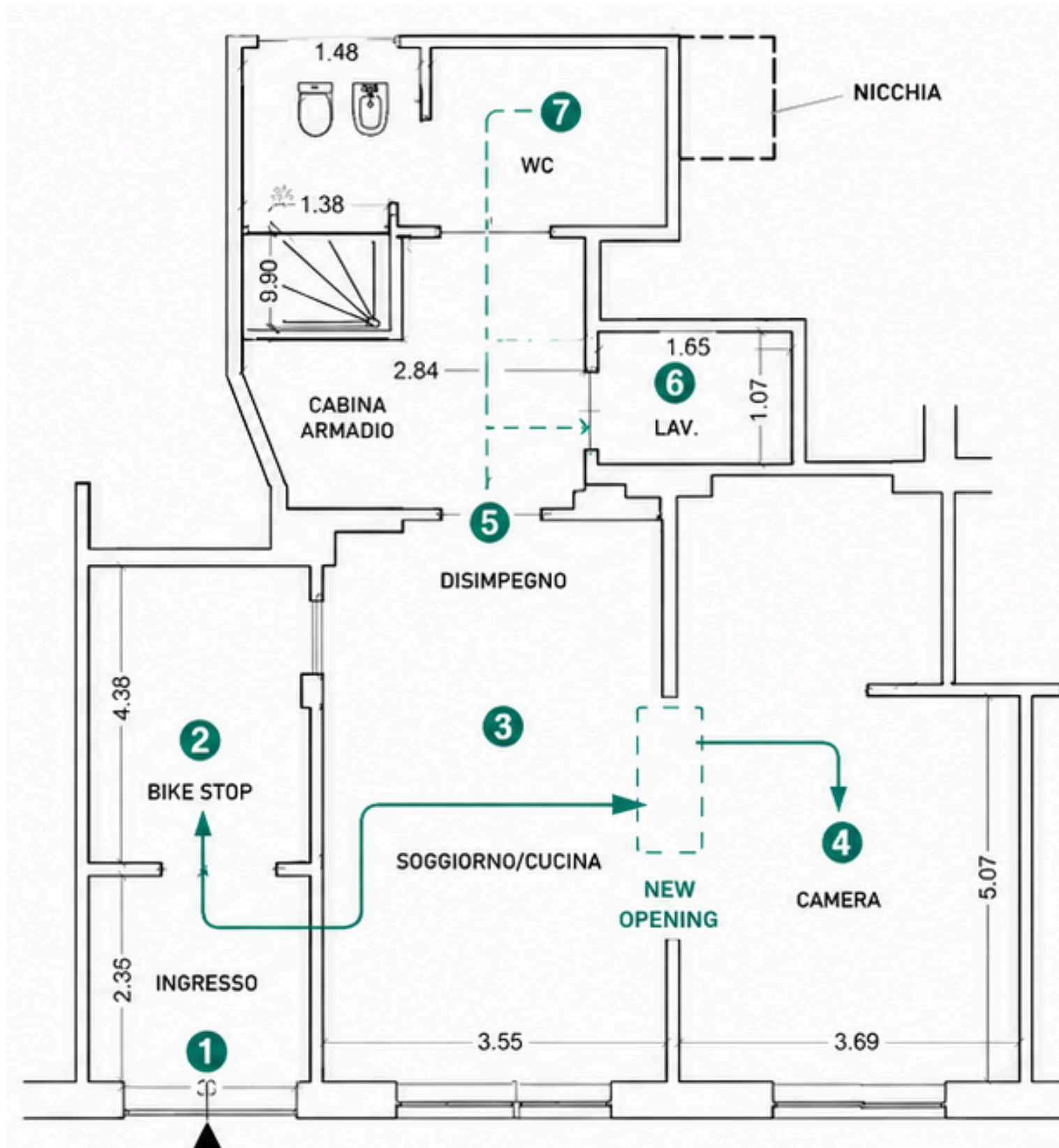
Analysis

- Gradual privacy transition
- Narrative spatial sequence
- Centralized circulation through the disimpegno

Key Concept:
Public → Service → Private



AI SCENARIO — OPTIMIZED BRANCHING CIRCULATION



The AI scenario proposes a hypothetical optimization based on reducing circulation length and improving functional proximity. Through a potential opening between the living/kitchen and the bedroom, the apartment can shift from a sequential circulation model to a more direct and branched system, where daily use and service functions are more clearly differentiated.

SEQUENCE

Primary route:

① Entrance → ② Bike stop → ③ Living/Kitchen → ④ Bedroom

Service branch:

③ Living/Kitchen → ⑤ Disimpegnio → ⑥ LAV → ⑦ WC → ⑧ Wardrobe

Analysis

- Direct connection between daily and private spaces
- Reduced walking distance through a new internal opening
- Service spaces remain compact and secondary

Key Concept:

Linear Sequence → Direct Shortcut + Service Branch

BEDROOM

ARCHITECT LAYOUT



Architect Layout

Focuses on visual identity, atmosphere, and material expression.

Uses a strong feature wall and decorative composition.

More emotional and narrative-driven.

AI LAYOUT



AI Layout

Focuses on daily usability, flexibility, and storage.

Creates a more balanced and adaptable private room.

More functional and lifestyle-driven.

SOGGIORNO/CUCINA

ARCHITECT LAYOUT



AI LAYOUT



Architect Layout	AI Layout
Keeps the space light, open, and visually calm.	Concentrates functions into a more efficient kitchen wall.
Gives more emphasis to the living atmosphere.	Improves storage, work surface, and everyday practicality.
Softer and more minimal furniture arrangement.	More compact and performance-driven layout.

INGRESSO

ARCHITECT LAYOUT



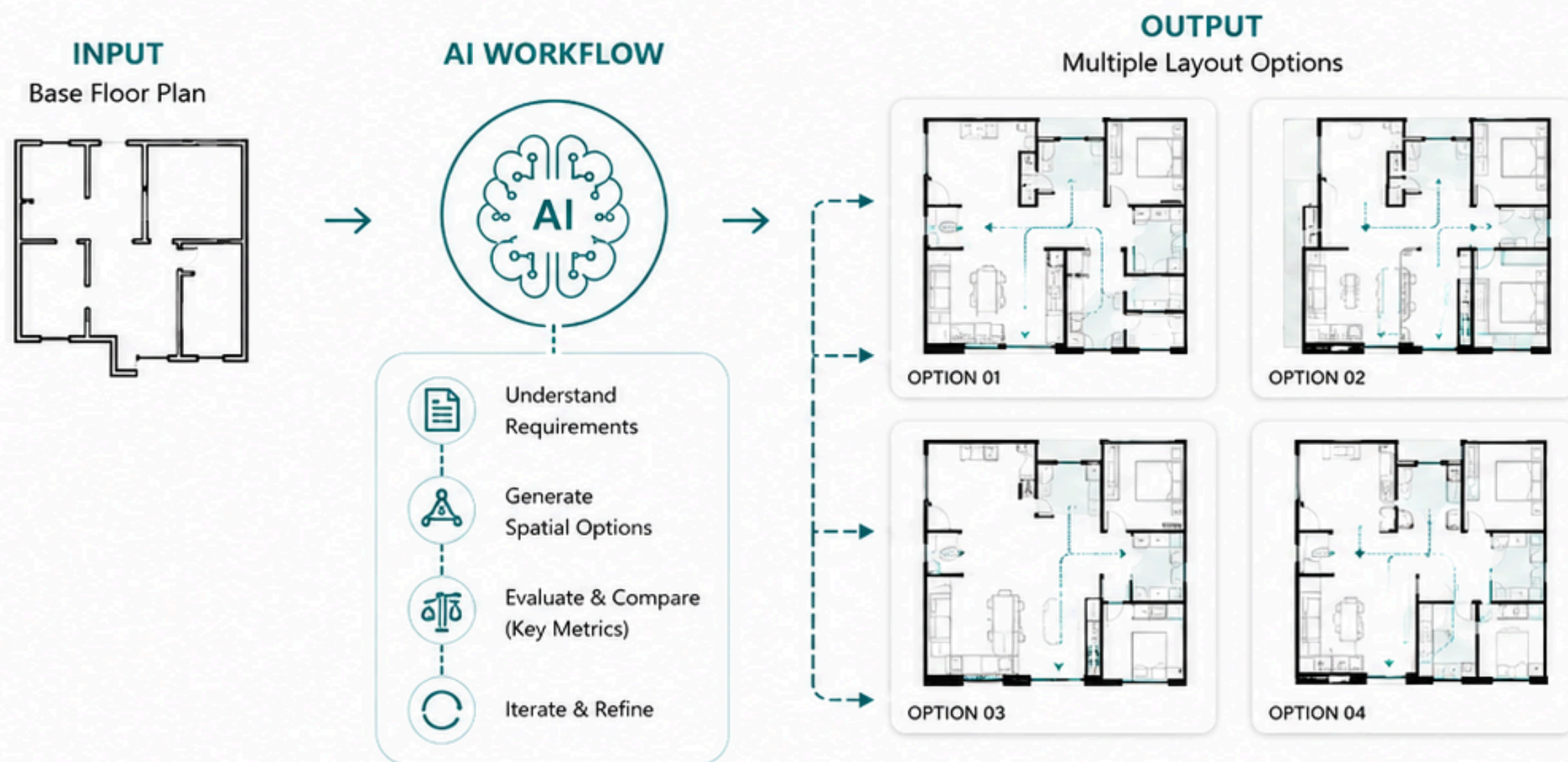
AI LAYOUT



Architect Layout	AI Layout
Works as a visual and narrative arrival space.	Works as a functional filter zone.
Uses art, seating, and bicycle placement to create character.	Uses storage, bench, mirror, and lighting to support daily routines.
More gallery-like and expressive.	More practical, organized, and circulation-friendly.

FUTURE EXTENSION – AI-ASSISTED LAYOUT GENERATION

Exploring multiple spatial scenarios through AI to find the most efficient circulation and layout.



AI TOOLS & PLATFORMS



ChatGPT

concept logic /
circulation reasoning



Gemini

alternative spatial
interpretation



Planner 5D

AI recon &
floor plan tools



Homestyler

2D-to-3D /
AI staging



Floorplanner

2D/3D layout
visualization



RoomGPT

room image
re-imagining



Current workflow used:
ChatGPT + Gemini

Future iterations can compare multiple layout hypotheses by testing **circulation length**, **service clustering**, **privacy gradient**, and **furniture adaptability**.

Key Concept:

Single proposal → **Multiple**
AI-generated layout scenarios



Compare
circulation
efficiency



Test service
clustering
strategies



Evaluate
privacy
gradient



Check furniture
flexibility &
adaptability