

FABLAB COLMAYOR
FACULTAD DE ARQUITECTURA E INGENIERÍA

6° ENCuentRO DE EXPERIENCIAS INSTRUMENTALES

Nuevos lenguajes del espacio: Workflows
contemporáneos en la arquitectura y el diseño

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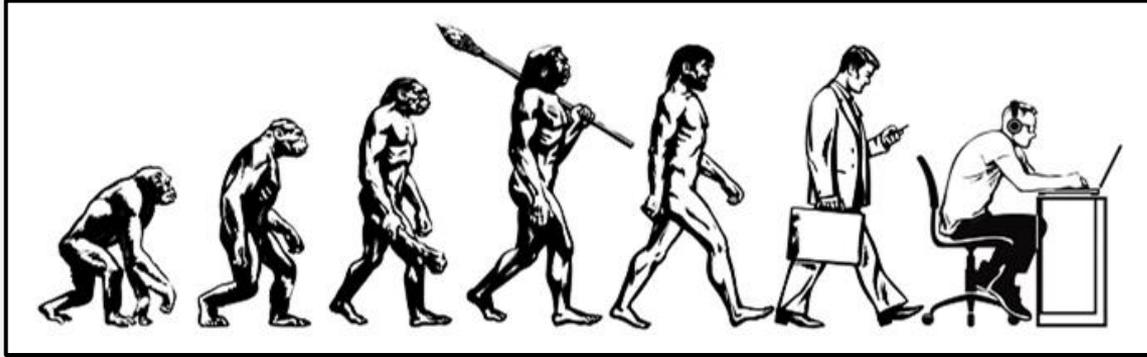
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WORKFLOW PROYECTUAL

El complemento entre lo digital de la Inteligencia Artificial y lo analógico de la Inteligencia Natural en el proceso de diseño arquitectónico

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Milenios

Siglos

Décadas

¿En qué momento?

Conocemos cómo funciona el aprendizaje. Si todo estímulo viene de fuera y existe una exposición a la pantalla constante, **la mente y el espíritu frenan e inhiben las ganas de aprender.**

Los ordenadores de las escuelas y de los trabajos no tienen un efecto adictivo per se, lo que hacen es **disminuir el desarrollo de algunas áreas cognitivas.**

El mundo de la pantalla en la educación **no mejora el aprendizaje.**

Rojas Estapé, 2024



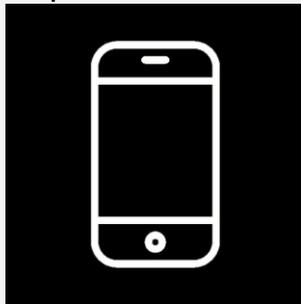
Según el Banco Mundial y la UNICEF, **la pobreza educativa en América Latina**, entendida como la incapacidad de leer y entender un texto simple a los 10 años de edad, **se disparó de 52% a 79%** de la población escolar entre 2019 y 2022.



Estamos en la era de la economía del conocimiento, donde el trabajo mental vale mucho más que el trabajo manual o que las materias primas. Por eso, si América Latina no produce profesionales o trabajadores calificados que puedan crear bienes de mayor valor agregado, sus exportaciones valdrán cada vez menos **(2.2% menos del producto bruto para el 2040).**

Oppenheimer, 2023

Intoxicación digital
Hiperestimulación



Cerebro distraído
Deterioro cognitivo



Cuando esta prima, el cerebro lo adolece y la creatividad se atrofia

A más pantallas, menos corteza prefrontal (Rojas Estapé, 2024)

Creatividad ← 

Si hay dependencia, hay adicción.

¿Cómo saber que estamos en ese punto?

- Uso excesivo de redes sociales.
- Adicción a los smartphones.
- Comportamiento compulsivo (**FOMO**).
- Procrastinación digital (Una forma de evitar el **trabajo profundo**).
- Dependencia creativa (Se convierte en la **salida fácil**).

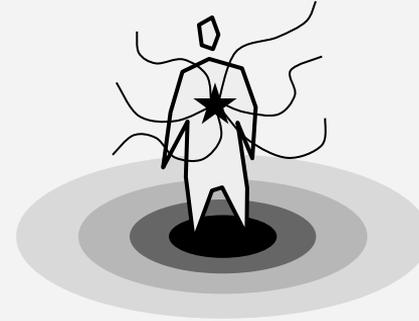


Internet and Technology Addiction Anonymous

La enseñanza-aprendizaje enfocada en el desarrollo y la consolidación de **competencias** para gestionar la incertidumbre con resiliencia y flexibilidad.



VS



Reacciona

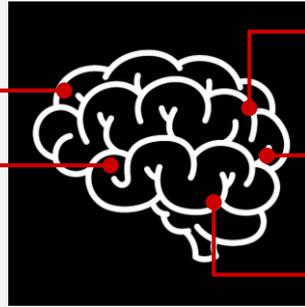
Destrezas para él
Acumulación de habilidades duras

Responde

Competencias de él
Potenciamiento de habilidades blandas

Ondas Delta: Sueño profundo y reparación. Aquí el cerebro se regenera y recupera energía.

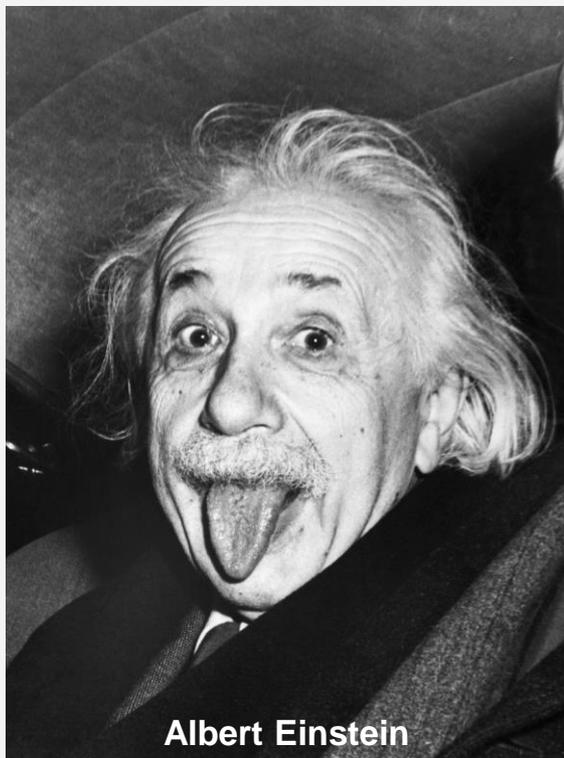
Ondas Theta: Imaginación y memoria. Estas ondas te conectan con tu subconsciente, perfectas para la meditación.



Ondas Beta: Concentración y acción. Ideal para resolver problemas complejos o enfrentar retos.

Ondas Alfa: Relajación creativa. Cuando estás tranquilo, pero alerta, tu mente fluye en creatividad.

Ondas Gamma: Consciencia y pensamiento. Estas propician las emociones, la motivación, el lenguaje.



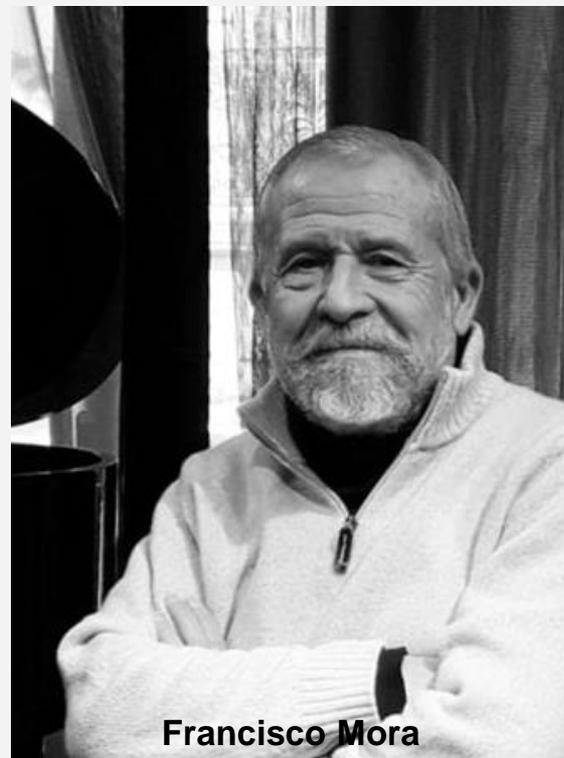
Albert Einstein

La creatividad es la
inteligencia divirtiéndose.

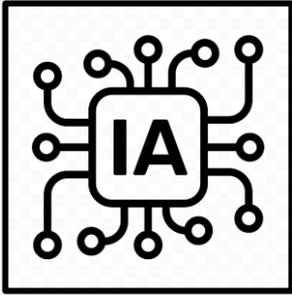
La inteligencia es la
capacidad de adaptarse al
mundo que te rodea.

*La inteligencia es la base o
la capacidad de adaptación
que alimenta y habilita a la
creatividad para explorar y
redefinir los límites de lo que
es posible.*

Ninguno de los dos hace
mención de Inteligencia
Artificial o Inteligencia
Natural.



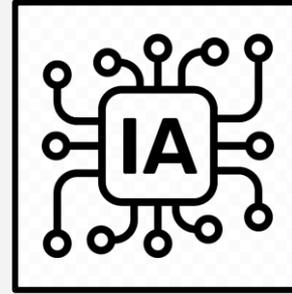
Francisco Mora



La **Inteligencia Artificial**, creada mediante algoritmos y datos, evoluciona tecnológicamente, sin conciencia ni emociones. Aprende y toma decisiones funcionales basada en datos, simulando creatividad sin intuición. Su capacidad de procesamiento le permite ejecutar tareas específicas con precisión, dentro de límites programados; **es principalmente digital**.



La **Inteligencia Natural**, resultado de la evolución biológica, es flexible y adaptativa, con conciencia, emociones y subjetividad que influyen en las decisiones. Aprende de experiencias y errores, es creativa e intuitiva, y puede innovar y conectar conceptos abstractos, permitiendo un pensamiento profundo y complejo; **es de naturaleza analógica**.



La **Inteligencia Natural** proporciona un marco de creatividad genuinamente flexible y disruptiva, mientras que la **Inteligencia Artificial** aporta una capacidad de expansión asistida y optimización basada en datos. **Juntas**, en un **contexto colaborativo**, podrían explorar y redefinir los límites de lo posible, **combinando adaptación humana con procesamiento masivo de datos**.

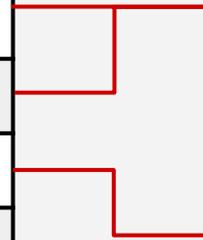
2018	2022	2023	2025
Cognitiva	Cognitiva	Cognitiva	Cognitiva
Cognitiva	Autoeficacia	Cognitiva	Autoeficacia
Cognitiva	Cognitiva	Autoeficacia	Cognitiva
Autoeficacia	Tecnología	Autoeficacia	Cognitiva
Cognitiva	Cognitiva	Autoeficacia	Cognitiva
Autoeficacia	Cognitiva	Tecnología	Cooperación
Autoeficacia	Cooperación	Autoeficacia	Tecnología
Cognitiva	Autoeficacia	Autoeficacia	Tecnología
Cooperación	Cognitiva	Cooperación	Autoeficacia
Gestión	Cognitiva	Ética	Cognitiva

Pandemia Covid-19 entre 2019 y 2023
 La I.A Big Data ocupa la posición #15 en el 2023

- Pensamiento analítico e innovación.
- Aprendizaje activo y Estrategias de aprendizaje.
- Resolución de problemas complejos.
- Pensamiento crítico y análisis.
- Creatividad, originalidad e iniciativa.
- Liderazgo e influencia social.
- Uso, monitoreo y control de tecnología.
- Diseño y programación de tecnología.
- Resiliencia, tolerancia al estrés y flexibilidad.
- Razonamiento, ideación y resolución de problemas.
- Inteligencia artificial y Big Data.
- Atención al detalle, confiabilidad.
- Inteligencia emocional.
- Coordinación y gerencia de tiempo.
- Análisis y evaluación de sistemas.
- Literatura de tecnología.
- Empatía y escucha activa.
- Control de calidad.

World Economic Forum (WEF): Future of Jobs Report

Competencias	2018	2022	2023	2025	#	N°
Cognitiva	5	6	2	5	18	Primera
Autoeficacia	3	2	5	2	12	Segunda
Tecnología	-	1	1	2	4	Tercera
Cooperación	1	1	1	1	4	Tercera
Gestión	1	-	-	-	1	Cuarta
Ética	-	-	1	-	1	Cuarta



Percepción.
Memoria.
Aprendizaje.
Razonamiento.

Confianza.
Habilidad.
Capacidad.

Análisis de datos.
Programación (JavaScript o Python).
Automatización.
Habilidad digital.

Todo es veneno y nada es veneno, sólo la dosis hace el veneno
(Paracelso, s. XVI)



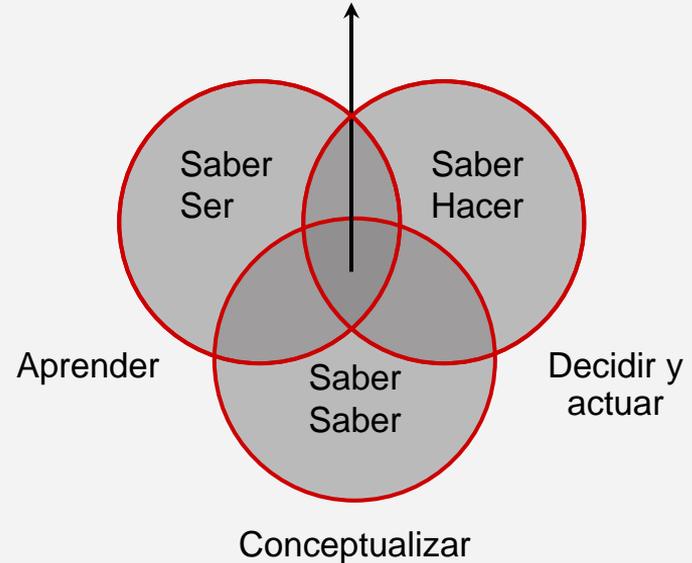
Saber Pensar

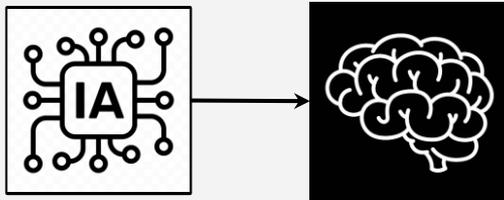
Coherencia y armonía

El trabajo no nos lo quitará la I.A. sino
aquel que la sepa gestionar, no
manipular.

La I.A. es tan inteligente como aquel que
la gestiona.

Es decir, el que sepa pensar de manera
inteligente.





Exclusividad digital PERJUICIOS

Ondas Beta: Reducción del pensamiento libre lo que deviene en el consumo de lo inmediato. Contribuye a estados de ansiedad y estrés.

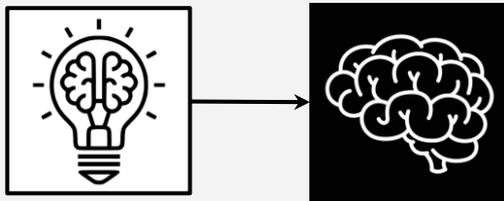
Ondas Alfa: Impide los estados de relajación, lo que dificulta el descanso mental, la calma reflexiva y la creatividad.

Ondas Theta: Afectación de los estados meditativo lo que impide el descanso profundo, la regeneración mental, la exploración intuitiva y la introspección de ideas propias.

Ondas Delta: Disminución de la calidad del sueño, lo que afecta la regeneración física y mental y la generación de ideas frescas.

Ondas Gamma: Debilitamiento de la flexibilidad cognitiva debido a la fatiga mental por la sobrecarga de información y la multitarea.

Trabajar exclusivamente con Inteligencia Artificial en diseño arquitectónico promueve eficiencia y rapidez, pero puede reducir la profundidad de la concentración, la creatividad intuitiva y el procesamiento complejo, afectando las ondas cerebrales que se asocian con el pensamiento profundo y el esfuerzo cognitivo sostenido.



Exclusividad analógica PERJUICIOS

Ondas Beta: Fatiga mental y estrés por la alta demanda de concentración, lo que reduce la calidad del trabajo y la creatividad a largo plazo.

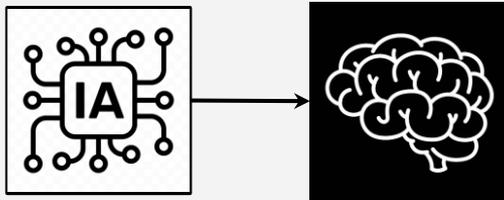
Ondas Alfa: Menos recurrencia de los momentos de relajación por la carga analítica continua lo que disminuye la capacidad de inspiración haciendo el proceso creativo, tenso y pesado.

Ondas Theta: Obstaculización del estado de flujo y limitación para ver nuevas posibilidades debido a lo técnico y rutinario de ciertas tareas.

Ondas Delta: Cansancio físico y mental debido a la carga cognitiva prolongada lo que provoca estrés que imposibilita el descanso reparador.

Ondas Gamma: Dificultad para resolver el problema y crear ideas complejas debido a que la visualización de la solución es limitada, a causa de su naturaleza compleja.

Trabajar de forma analógica fortalece la conexión mente-cuerpo y estimula la creatividad intuitiva y la resolución de problemas, aunque la carga mental sostenida puede reducir la eficiencia y provocar fatiga en algunos tipos de onda, en especial la Beta y Delta.



Participación digital BONDADES

Ondas Beta: Optimiza el enfoque y la precisión en tareas técnicas y detalladas sin agotamiento excesivo.

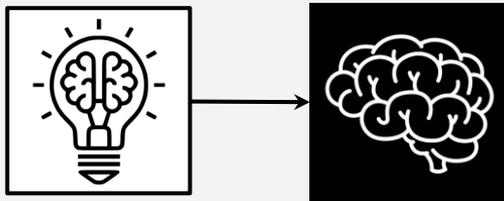
Ondas Alfa: Facilita un estado de calma (reducción del estrés y la ansiedad) en el proceso de ideación gracias a visualizaciones instantáneas y menos revisiones.

Ondas Theta: Fomenta la creatividad e intuición al explorar posibilidades de diseño generativo.

Ondas Delta: Mejora el descanso y reduce la fatiga mediante la automatización de tareas repetitivas.

Ondas Gamma: Potencia la resolución de problemas complejos mediante simulaciones avanzadas y modelos 3D en tiempo real.

La Inteligencia Artificial actúa como un facilitador que apoya la creatividad, reduce el estrés, aumenta la precisión y permite el flujo de trabajo más eficiente, favoreciendo las ondas cerebrales correspondientes a cada etapa del proceso creativo en el diseño arquitectónico.



Participación analógica BONDADES

Ondas Beta: Incrementa el enfoque y la atención a los detalles al trabajar sin automatización.

Ondas Alfa: Sin la interrupción digital se dan momentos de relajación mental y contemplación, favoreciendo la calma y claridad en el proceso creativo.

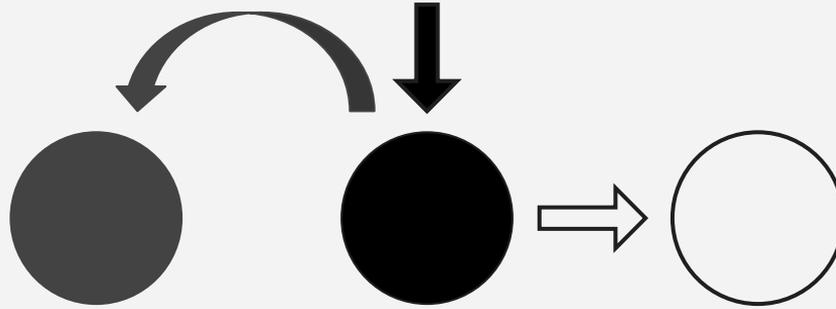
Ondas Theta: Fomenta una creatividad intuitiva, estimulando ideas originales desde el interior de manera más profunda.

Ondas Delta: El cansancio natural facilita un descanso más reparador al inducir un cansancio natural y productivo.

Ondas Gamma: Estimula activamente la creatividad profunda y la resolución compleja de problemas al explorar ideas manualmente, a través de bocetos y modelos.

El proceso de diseño arquitectónico con Inteligencia Natural potencia una creatividad auténtica, una concentración detallada y un equilibrio natural en el ciclo de trabajo y descanso, lo cual beneficia la actividad cerebral en cada tipo de onda.

¡Enseñamos-aprendemos hoy, con información de ayer, para
enfrentar el mañana!





No se trata de aprender por aprender y acumular saberes, sino de poner críticamente en tela de juicio lo que se sabe e ir **construyendo conocimiento**

El diseño *no es solo una habilidad artesanal, sino que debe considerarse una disciplina basada en el **conocimiento** por derecho propio, con **metodología rigurosa** y principios de investigación incorporados en el **proceso** de diseño.*

Archer, 1965

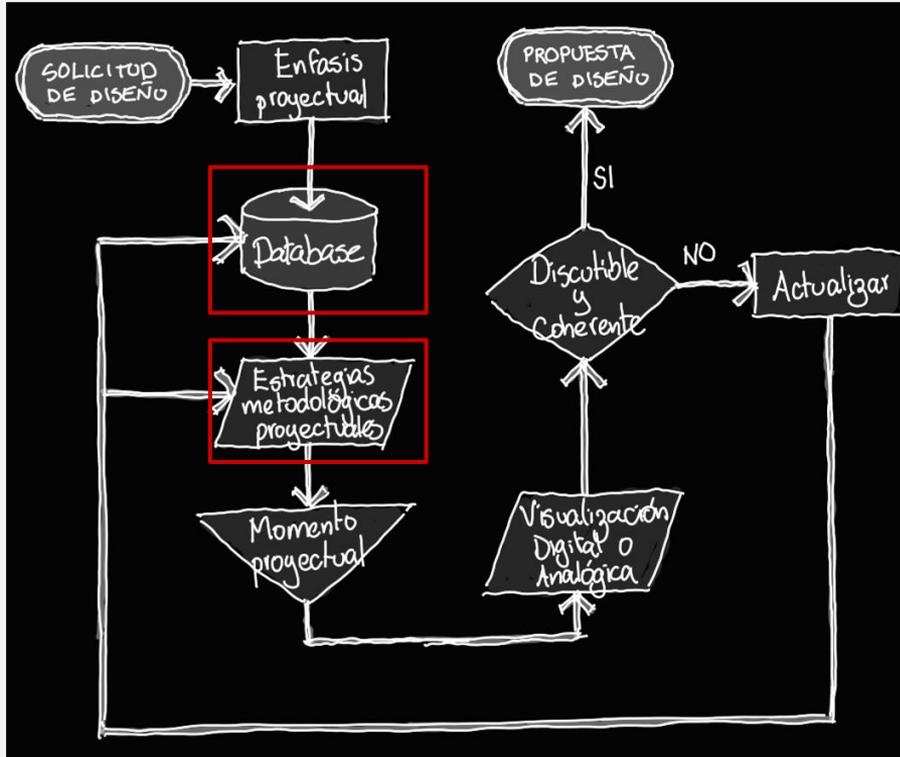
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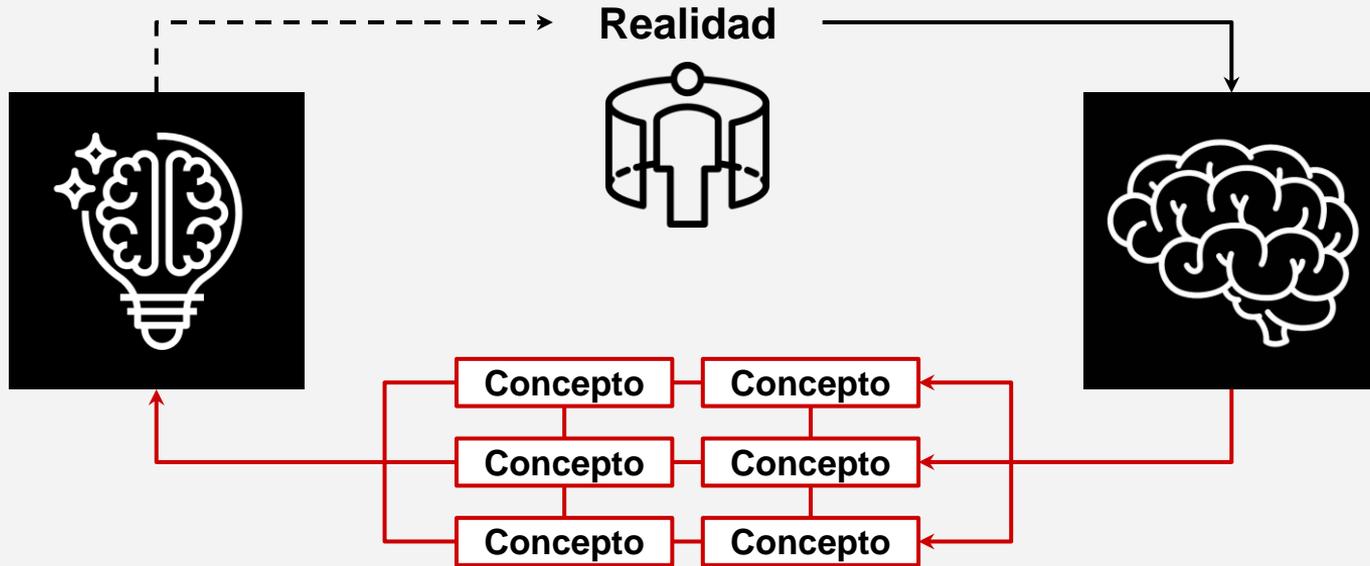
Autogestión del proceso de diseño

El Diagrama de Flujo Proyectual permite observar, examinar y **gestionar** la toma de decisiones proyectuales.

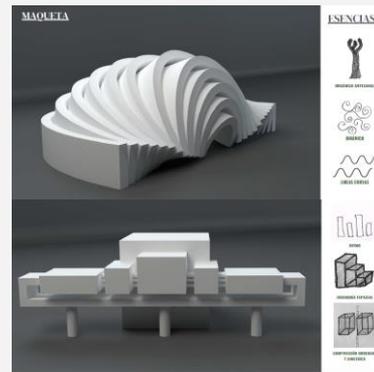
Este diagrama posibilita **construir conocimiento**, sin develar una forma pero permite que la idea pueda ser visualizada y comunicada.



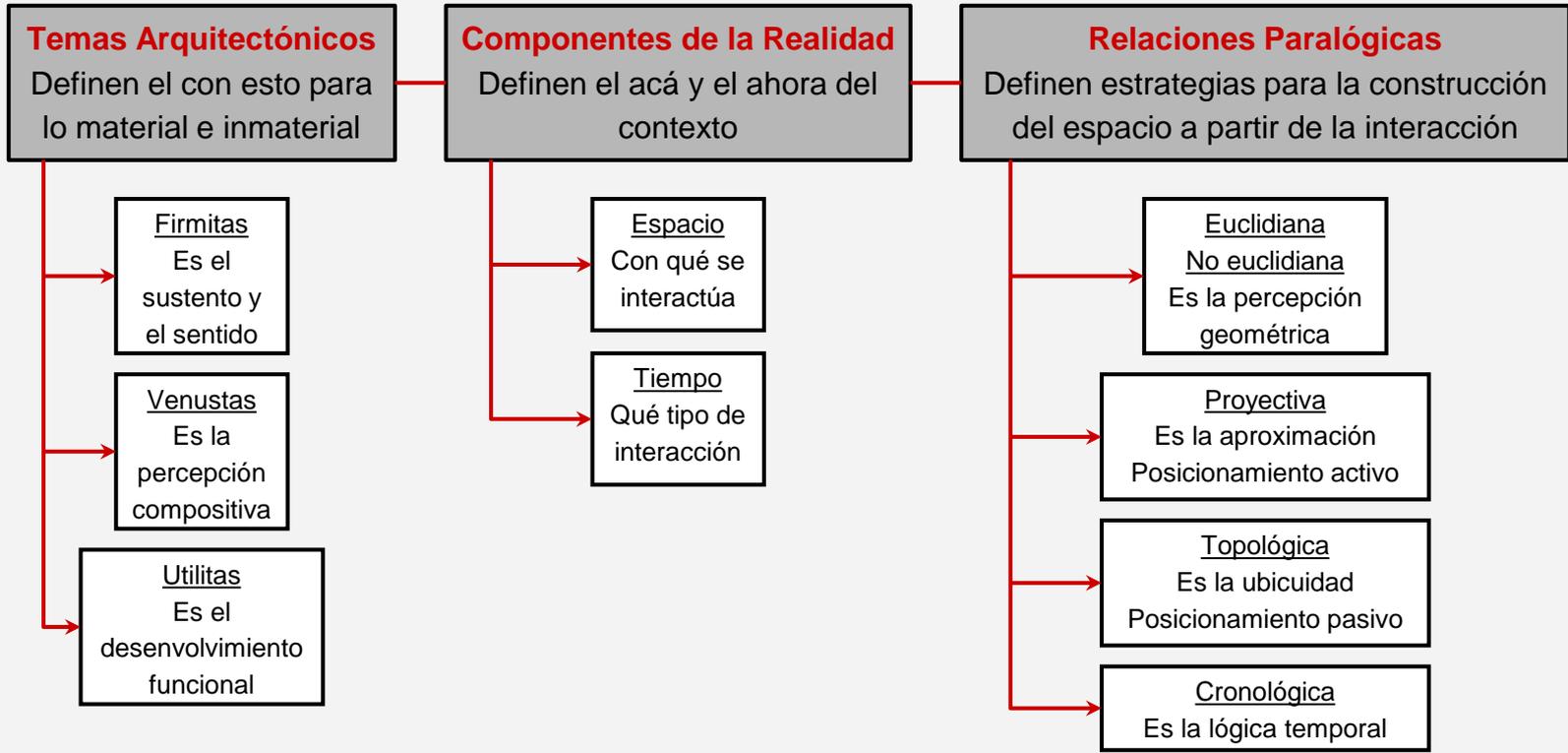
El proceso de diseño como un diagrama de flujo proyectual. (Peña, 2024)



El cerebro crea conocimiento trabajando con conceptos. (Mora, 2020)



Experiencias académicas. UCAL. 2022-2023



Menú diagramático proyectual. (Peña, 2023)

TA

Firmitas: Egipto Gótico

Minuto, Transición, Disposición/Eje, Escala Color, Espacio Estrecho

Ventanas: Proporción, Escala, Abierto, Gestalt, Proporción, Equilibrio

Utilitas: Servido, Servidor, Contenedor, Contenido, Excluido, Integrado

Esfera, Iluminación, Desagregación, Reflexión

CR

Espacio: Preexistencia natural, Preexistencia artificial, X°C Temperatura (Frio-caliente), Viento (Sentido-velocidad), Luz (natural-artificial) (Lumens), Orientación (norte-sur, este-oeste, noreste-suroeste, suroeste-noreste)

Tiempo: Articolado, Árbol, Separado, Lineal, Circuito, Pas, Divergente, Convergente

RP

Topológicas: Cerca, Ljos, Ambiente, Tarea, Aérea, Serena, Piana, Ambiente, Sobre, Contiguo, Adyacente, Evidente, Seguridad, Escapar-Dismulada

Proyectivos: Ancho, Angosto, Alto, Bajo, Angulado, Regular, Irregular, Orientado, No orientado

Euclidianas/No euclidianas: Angulado, Regular, Irregular, Orientado, No orientado

Crónicas: Tiempo ordinal, tiempo creciente, tiempo decreciente, tiempo progresivo, inconstante, permanente, constante, eventual

Este acercamiento detona la creatividad por el alto grado de asociación que poseen los conceptos y exalta el potencial de actualización de lo heredado en lugar de limitarse a la manipulación de información previamente dada.





Experiencias académicas. UCAL. 2019-2023

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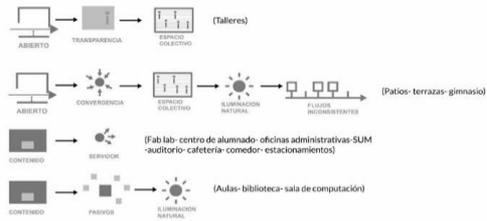
Nuevos lenguajes del espacio:
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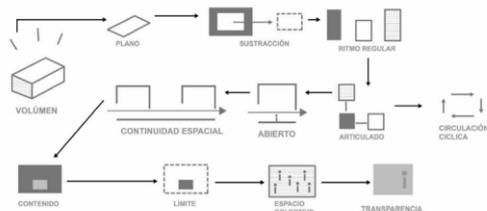
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PERSONALIDAD



The volume will function as a **learning institution**. The volume must have **open and continuous spaces** in its composition with **overhead light input** that function as classrooms. The classrooms must reflect the concept of **transparency**. The general volume must have 2 basement levels and 2 floors maximum. This volume must be a collective space.

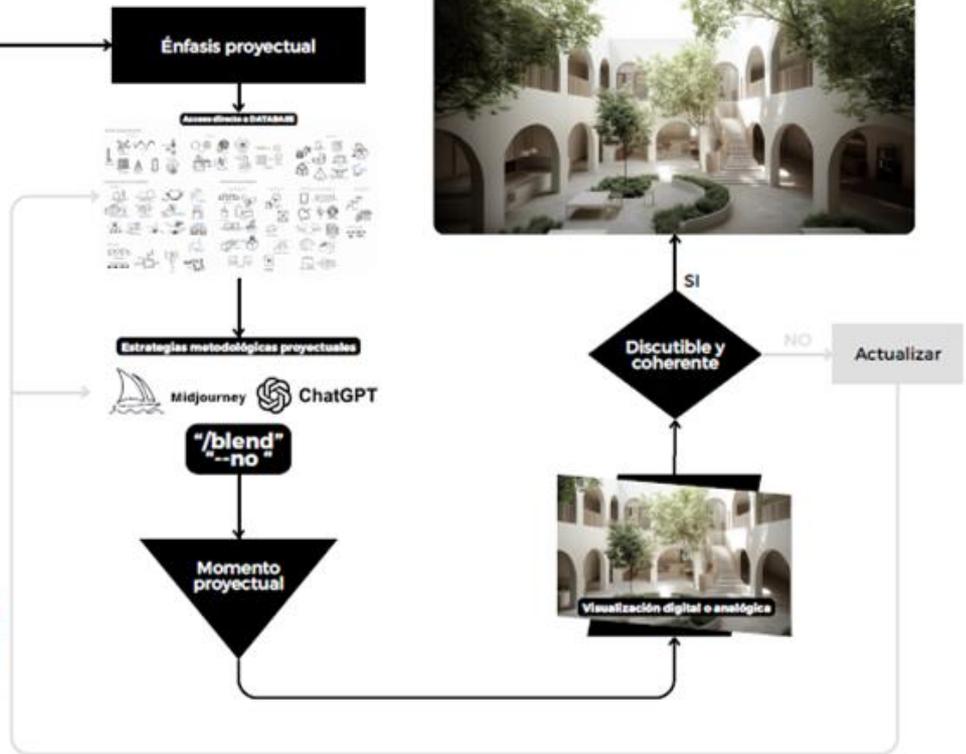
Preserve the original volume dimensions and characteristics. Show the volume in an isometric aerial view. The volume is located in front of a **two-lane main avenue**. The main entrance of the volume faces the two-lane main avenue. The volume is located in the **La Molina** district in Lima, Peru. This volume must be a collective space.



Experiencia académica 2023-II. (Higa, Medina y Muñiz)



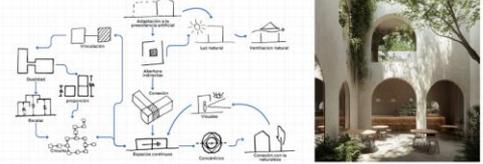
DIAGRAMA DE FLUJO Proyectual



Temas arquitectónicos				
Componentes de la realidad				
Espacios		Relaciones paradigmáticas		

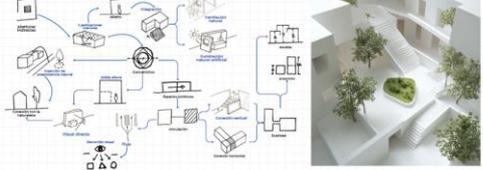
MOMENTO Concepción-Intuición

Esquema: Concepto: propuesta arquitectónica para un edificio ubicado dentro de un espacio preexistente, con el fin de transformar el espacio de manera orgánica y adaptativa. **Objetivo:** Diseñar un arquitectónico proposal for a city located in a historic Lima mansion, where the goal is to transform the space in an organic and adaptive way.



MOMENTO Gestación-Prescriptiva

Esquema: Este es un momento de diseño que requiere conceptualizar una propuesta de espacio interior de un volumen básico. **Objetivo:** This is an architect moment to design a conceptual model for an interior design proposal of a volume basic volume.



Experiencia académica 2024-II. (Ascencio y Pereda)



PARAMETRIC ARCHITECTURE

Competition

AI in practice

Experiencia profesional. Peña, 2024.

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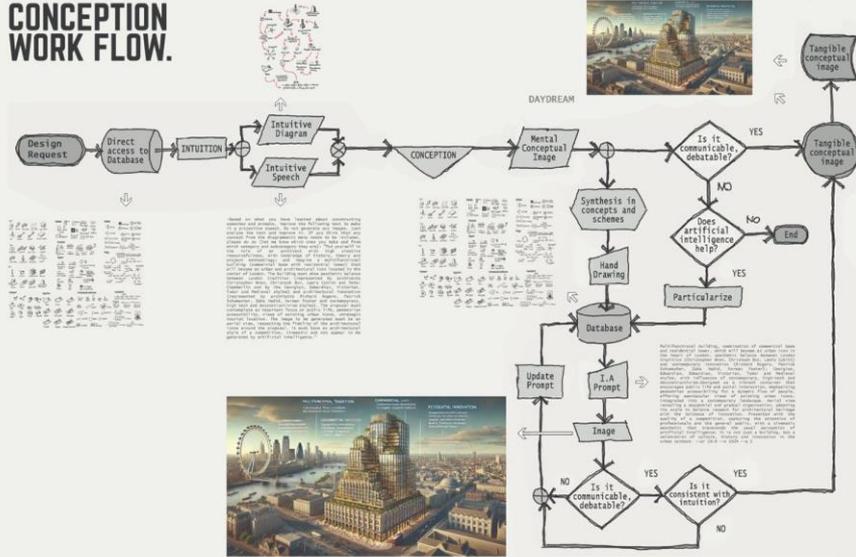
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CONCEPTION WORK FLOW.



INTUITION

PROJECT SPEECH

Design a multifunctional building, combining a commercial base with a residential tower, situated in the dense and architectural core in the heart of London. This design seeks to demonstrate an aesthetic balance between London's rich architectural tradition, represented by figures such as Christopher Wren, Christopher Ben and Lewis Cubitt, as well as Georgian, Edwardian, Victorian, Tudor and Modernist styles, and the contemporary innovation of visionary architects such as Richard Rogers, Patrick Schumacher, Zaha Hadid and Norman Foster, integrated into a contemporary style, high-tech and deconstruction.

The building stands as a counterpoint that respects urban context, showcasing public life and social interaction. It design, merges function and aesthetics, creating a unique form that weaves its way through the space. The proposal not only preserves functionality, but also offers spectacular views of existing urban icons, highlighting the connection to London's rich history while integrating into its contemporary landscape.

From an aerial view, the design reveals a sequential and gradual organization, where each element responds to the characteristics of the surroundings. The scale of the building is carefully defined, balancing respect for the surrounding architectural heritage with the boldness of modernity. This approach seeks to generate a space that not only respects history, but also enriches it, offering a new point of reference that will inspire future generations.

Finally, the architectural style must be presented with the quality of a competition, seeking to capture the attention not only of professionals in the sector, but also of the general public, with a cinematic aesthetic that transcends the usual perception of artificial intelligence. The proposal, therefore, is not just a building; it is a celebration of culture, history and innovation in the urban context.

PROMPT

Multifunctional building, combination of commercial base and residential tower, which will become an urban icon in the heart of London, aesthetic balance between London tradition (Christopher Wren, Christian Wren, Lewis Cubitt) and contemporary innovation (Richard Rogers, Patrick Schumacher, Zaha Hadid, Norman Foster); Georgian, Edwardian, Victorian, Modernist and Contemporary styles, with influence of contemporary, high-tech and deconstructivism. Designed as a vibrant counterpoint that encourages public life and social interaction, respecting pedestrian accessibility for a dynamic flow of people, offering spectacular views of existing urban icons, integrated into a contemporary landscape. Aerial view revealing a sequential and gradual organization, adapting its scale to balance respect for architectural heritage with the boldness of innovation. Presented with the quality of a competition, capturing the attention of professionals and the general public, with a cinematic aesthetic that transcends the usual perception of artificial intelligence; it is not just a building, but a celebration of culture, history and innovation in the urban context.

FLOW DIAGRAM

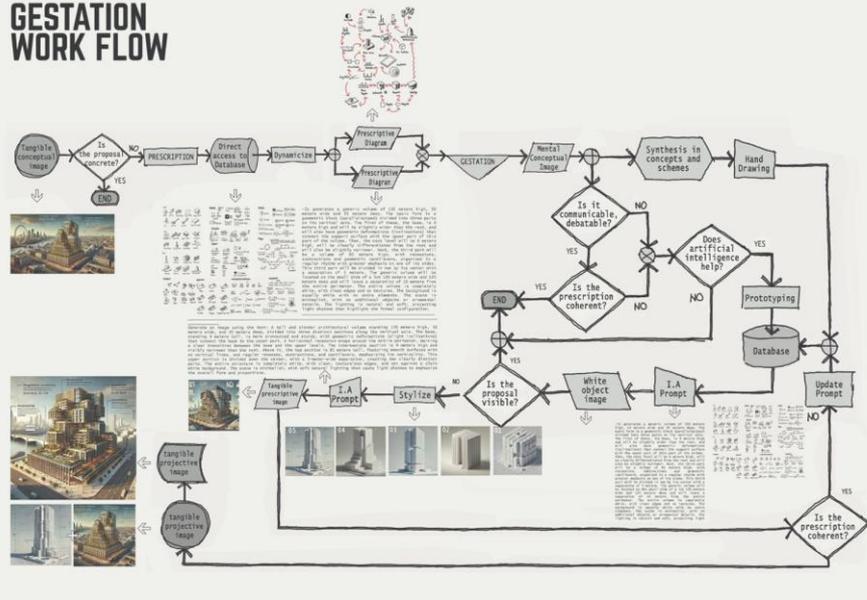
MULTIFUNCTIONAL TRADITION
 Christopher Wren's tradition in architectural design

COMMERCIAL CLASS
 The legacy of Christopher Wren and Lewis Cubitt

RESIDENTIAL INNOVATION
 Contemporary architectural design

Experiencia profesional. Peña, 2024.

GESTATION WORK FLOW

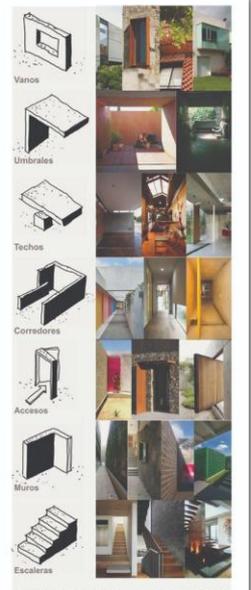


ESSENTIAL PROFILE

Architectural designer with a special approach that covers the entire life cycle of projects from the creative conception, its gestation to its specific realization. The technological complexity of Facilities and Facilities complements together with the incorporation of digital technology, such as AI. The proposal's outcome combine "structure" and "functional" type, always with attention to detail and excellence.



PARTICULAR DIAGRAMMATIC MENU



ARTIFACT LIBRARY

Experiencia profesional. Peña, 2024.

WHITE VOLUME (GENERIC)

TRAINING AND UNDERSTANDING OF WHAT IS A GENERIC VOLUME USED IN THE EARLY STAGES OF THE DESIGN PROCESS.

GENERIC VOLUME

- Definition: A simple and direct representation of the basic physical form of a project, without going into details of usage or interior functionality. Purpose: It serves to visualise the overall mass and occupancy of space on the site. It is used to ensure the building fits into its urban context.
- Characteristics:
 - Basic shapes (cube, rectangle, cylinder, etc.).
 - Simple proportions without elaborate details.
 - General focus on overall volumetry rather than aesthetic or functional details.
 - Useful for feasibility studies or site impact analysis.
 - Generic volumes are more utilitarian and practical.

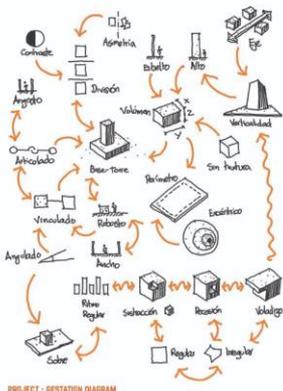
I Said:

-Based on these three types of volume (and their definition), which of them is the most accurate for defining the models used in the early stages of the design process of an architectural proposal?

ChatGPT Said:

- White mock-ups used in the early stages of the architectural design process are more aligned with the generic volume. These mock-ups are focused on simply and directly representing the massing and spatial occupancy of the project without elaborate detailing.
- The key features of these white mockups are:
 - Simple and clear proportions to understand the relationship between the project and its surroundings.
 - Lack of ornamental details or specific materials, focusing attention on volumetry, scale and spatial arrangement.
 - Simplicity in the elements, such as blocks or basic forms, to study the interaction of the building with the site and between its parts.

Although they may evolve into more conceptual volumes as the white proposal is refined, in the early stages, mock-ups are often used to visualize and experiment with the more general and practical aspects of the design.



PROJECT - ESTACION GIARAMA

1-CHATGPT

I said:

It generates a generic volume 150 meters high, 10 meters wide and 15 meters deep. The basic shape is a generic volume (cylinder) divided into three parts on its vertical axis. The first of them, the base, is 8 meters high and will be slightly wider than the rest, and will have generic differentiation (columns) connecting the support surface with the top of this part of the volume. Then, the next level will be 2 meters high, will be clearly differentiated from the rest, and will be slightly narrower. Then, the third part will be a volume 8 meters high, with recessions, indentations and generic concave lines, repeated in a regular rhythm with greater emphasis on one of its sides. This third part will be divided in two by its center with a separation of 5 meters. The generic volume will be located on the small side of a lot 10 meters wide and 15 meters deep and will have a separation of 10 meters with the road. In the entire perimeter, the entire volume is completely white, with clear edges and no textures. The background is also white with no extra elements. The scene is minimalist, with no additional objects or ornamental details. The lighting is natural and soft. Center light shadows that highlight the formal configuration.

I said:

-Based on these three types of volume (and their definition), which of them is the most accurate for defining the models used in the early stages of the design process of an architectural proposal?

ChatGPT Said:

-White mock-ups used in the early stages of the architectural design process are more aligned with the generic volume. These mock-ups are focused on simply and directly representing the massing and spatial occupancy of the project without elaborate detailing.

-The key features of these white mockups are:

- Simple and clear proportions to understand the relationship between the project and its surroundings.
- Lack of ornamental details or specific materials, focusing attention on volumetry, scale and spatial arrangement.
- Simplicity in the elements, such as blocks or basic forms, to study the interaction of the building with the site and between its parts.

Although they may evolve into more conceptual volumes as the white proposal is refined, in the early stages, mock-ups are often used to visualize and experiment with the more general and practical aspects of the design.

1-CHATGPT
2-CHATGPT
3-CHATGPT
4-CHATGPT
5-CHATGPT (FINAL GENERIC VOLUME)

I said:

I have seen the generated image and I like some modifications:

- The base should not have three divisions, only an inclined deformation to connect the support surface and the top of the base.
- The intermediate level should be narrower.
- The vertical proportion should be more extended, the volume should look slender.
- The separation in the center of the upper part is fine, but it is not as clear as you said, the well-differentiated parts are seen.

ChatGPT said:

I have generated the image with the modifications you requested, highlighting a larger vertical proportion, an inclined deformation to make any further adjustments or continue with this version. I answered: Yes, I want to see adjustments. In this version, the division into 3 parts on the vertical axis of the volume has been lost, but that division back without losing what you just did.

I said:

I have seen the generated image, it is much closer to what I imagined, I want you to keep this image as well as possible, but make the following adjustments:

- The vertical lines should be gone.
- The base should be more marked, I believe the base I saw you to make a horizontal recession around the perimeter that divides the whole volume.
- Adjust the image according to your instructions, this is how I see it.

1. Remove the vertical lines: The surface should be completely clean and without features to maintain the purity of the volume.

2. More defined base: It will increase the prominence of the base, highlighting its extension in relation to the rest of the volume, giving it more visual emphasis.

3. Horizontal lines on the perimeter: I would add a division or groove around the entire perimeter, just above the base, to mark the transition to the upper levels, keeping the volume divided into its three parts.

If you are happy with this description, I can try to generate the image again with the tool I available to describe in detail the advancement on a future answer.

I said: I agree.

I said:

I have seen the generated image, it is much closer to what I imagined, I want you to keep this image as well as possible, but make the following adjustments:

- The vertical lines should be gone.
- The base should be more marked, I believe the base I saw you to make a horizontal recession around the perimeter that divides the whole volume.
- Adjust the image according to your instructions, this is how I see it.

1. Remove the vertical lines: The surface should be completely clean and without features to maintain the purity of the volume.

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If you are happy with this description, I can try to generate the image again with the tool I available to describe in detail the advancement on a future answer.

I said: I agree.

I said:

I have seen the generated image, it is much closer to what I imagined, I want you to keep this image as well as possible, but make the following adjustments:

- The vertical lines should be gone.
- The base should be more marked, I believe the base I saw you to make a horizontal recession around the perimeter that divides the whole volume.
- Adjust the image according to your instructions, this is how I see it.

1. Remove the vertical lines: The surface should be completely clean and without features to maintain the purity of the volume.

2. More defined base: It will increase the prominence of the base, highlighting its extension in relation to the rest of the volume, giving it more visual emphasis.

3. Horizontal lines on the perimeter: I would add a division or groove around the entire perimeter, just above the base, to mark the transition to the upper levels, keeping the volume divided into its three parts.

If you are happy with this description, I can try to generate the image again with the tool I available to describe in detail the advancement on a future answer.

I said: I agree.

Experiencia profesional. Peña, 2024.

6° ENCUENTRO DE EXPERIENCIAS INSTRUMENTALES

Nuevos lenguajes del espacio: Workflows contemporáneos en la arquitectura y el diseño

INSTITUCIÓN UNIVERSITARIA COLEGIO MAYOR DE ANTIOQUIA

FABLAB COLMAYOR

LOCATION

ADDRESS

Belvedere Road, South Bank, London SE1 7GP

DESCRIPTION:

This lot is located just steps away from the London Eye and the Royal Festival Hall. The location offers direct views of the River Thames and central London, making it a strategic location for both tourism and pedestrian accessibility.

INSTRUCTIONS

I said:

-Put yourself in the role of an urban architect, an expert in urban planning and management. You are about to propose a new multifunctional building (commercial base with residential tower) with the following characteristics: pedestrian accessibility, strategic location, great view to existing urban scene). This new building is intended to coexist in form for the site and will be located in central London. Based on this information, what would be the ideal locations for V1? List three based on Feasibility and architectural impact. Do not use vector if there is an existing building on the location as this will be removed for the execution of the future proposal.

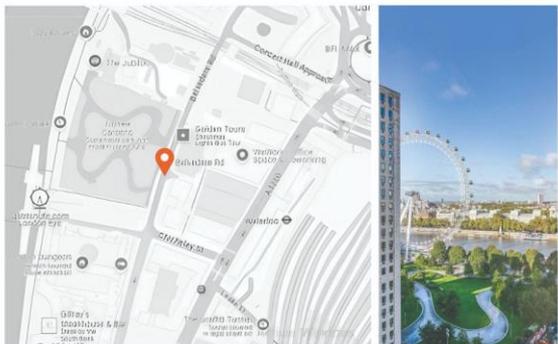
ChatGPT said:

-As an urban architect, posing a multifunctional building in London with the above characteristics: pedestrian accessibility, tourism views, and views of urban icons requires careful site selection. Here are three ideal locations based on Feasibility and architectural impact:

1. South Bank (area of London Eye & Royal Festival Hall)
2. Piazza Trafalgar
3. Centre St (area of London Eye)
4. King's Cross (area of St Pancras)
5. Somerset House
6. Canary Wharf
7. Covent Garden

I said:

-Offer me a specific lot (exact address) for the first three options described (South Bank, Trafalgar Square, New Tower of London) that is the most suitable for the development of a multifunctional building with the above mentioned characteristics



PROJECT IMAGE V.01

PROJECT SPEECH

The architecture proposal seeks to merge two volumetric and stylistic references, creating a synthesis that responds to its urban context in Belvedere Road, South Bank, London. The physical form of the design is based on the volume of the first image, respecting its overall massing, site occupancy, height, proportion, scale and dimensions. The setbacks, recesses and protrusions that characterize its volumetric configuration are essential to maintain the integrity of the original design, ensuring a strong and coherent presence in the environment.

On the other hand, the aesthetic character of the project adopts the stylistic guidelines of the second image. Colors, materials, ornaments, details and architectural features will be carefully selected to reflect this stylistic language. These aesthetic elements enrich the volumetric purity with a layer of sophistication that dialogues with the tradition and architectural environment of London, integrating a contemporary style that respects and complements its historical context.

The site on Belvedere Road, an iconic area on the South Bank, implies a strategic location that demands a building of strong visual impact and urban functionality. This merged design, combining mass and aesthetics, seeks to harmonize the monumentality of its form with the delicacy of the details, becoming a new architectural reference for the area.



PROMPT

Combine the physical form of the first image with the stylistic guidelines of the second image. Retain the general massing, footprint, height, proportion, scale, elements, setbacks, recesses and protrusions of the first image. From the second image, take the colors, materials, ornaments, architectural details and features. The final design is located in Belvedere Road, South Bank, London SE1 7GP. The goal should combine monumental volume with detailed and refined aesthetics, London urban context,



THE GENERATED IMAGE IS SUBJECT TO COPYRIGHT AND IS NOT TO BE USED IN THE PROJECT (FUTURE) RESULTING IN:

The building is a sleek, high-tech modern structure with clear influences of organic and futuristic architecture. The use of clean geometric forms is softened by curved corners, integrated vegetation, creating a harmonious balance between the built and natural environment. The building features a mix of setbacks, recesses and protrusions that define its dynamic form and urban presence. The facade is a mix of materials, including glass, metal and concrete, creating a rich texture and depth. The building is set in a lush, green environment, with a large body of water in the background, creating a serene and modern atmosphere.



PROJECT IMAGE V.02

PROJECT SPEECH

The building is an elegant, high-tech modern structure that integrates elements of London's architectural tradition, reflecting a balance between the old and the new. The form of the volume is carefully proportioned to create a fluid transition between the base and the height, where the silhouette of the tower stands out against the South Bank skyline. The design is articulated in a progressive and sequential manner, creating a regular rhythm that maintains a harmonious visual order.

The concepts of linked and unified are maintained in the spaces of the building, where the lower levels are actively integrated with urban life, while the upper floors, more private, maintain a certain independence, respecting the programmatic functionality. The structure, open at the lower levels and progressively closed at higher levels, responds to the natural progression of the site, taking advantage of the views and orientation without being strictly formally oriented.

The use of clean geometric lines, adorned with curved corners and integrated vegetation, generates a harmony that dialogues with the urban environment of the South Bank, London. The building's relationship with its surroundings, contributing to the harmonized perception of the building from different urban viewpoints, generating a monumental and open structure that, at the same time, is rich in subtle details.

At the compositional level, the building proposes a play of scales and proportions that allow its integration into the historical and contemporary context of London, respecting tradition while embracing an innovative structure. The setbacks and protrusions that define the structure create a progressive rhythm, linked to light and vegetation, offering spaces of interaction for both residents and visitors.



PROMPT

Using the heated image as inspiration and direct reference. Design a sleek, high-tech modern structure with clear influences from organic and futuristic architecture. Incorporate a slender, vertically, proportional transitions and elegant form. Utilize dynamic transitions, curves and integrated vegetation to create a harmonious rhythm that integrates seamlessly with the urban environment of the South Bank, London. Highlight an active, connected base that opens to the urban environment, with an elevated, more private upper levels. Soft geometric lines with curved corners, integration of greenery and glass facades harmonize the building's relationship with its surroundings, contributing to a balanced aerial view to highlight the classical and modern composition. -AR 1618 x 1024 -v2.

Experiencia profesional. Peña, 2024.

PROJECT IMAGE V.03

PROJECT SPEECH

The multifunctional building located on Belvedere Road, South Bank, London, presents a harmonious integration between London's architectural tradition and contemporary innovations. The slender, monumental structure combines the concepts of transition and balanced proportion, both in its volume and in its required elevation of concrete base and repetitive base, creating a clear balance between the open and the closed, the sacred and the profane. The concrete base, active and directly linked to the urban environment, acts as a dynamic container, while the residential tower serves as a control that rises with an elegant easiness towards the heights, maintaining a fluid and orderly proportion.

Integration with the natural and man-made pre-existence of the South Bank is central to the design. The tower, with its organic and irregular structure, responds to the geometry of the site, respecting the urban fabric and incorporating views over the River Thames and nearby London icons. The regular rhythm of the facade, composed of progressive and articulated terraces, reinforces the relationship with the context, while the textures on the exterior surfaces establish a dialogue between tradition and modernity.

Inspired by the habitable bridges of the Tudor period, the building proposes a cyclical and sequential organization in its interior spaces, where the transitions between public and private are clearly defined. The terraces, closed in certain areas and open in others, allow the play of natural light and ventilation throughout the different levels. Overhangs, stepped terraces and adjacent and contiguous spaces reinforce the progressive connection between the different uses of the building, while the articulations between the volumes underline its dynamic character.

The design incorporates elements of artificial and natural pre-existence, with a focus on urban integration, establishing a balance between organic forms and angular geometric volumes. The high-rise structure, with long-horizoned views and continuous transitions, serves as a monumental landmark, integrating technology, vegetation and a fluid relationship between inside and outside. The building progressively articulates the spaces, creating a cyclical and gradual architectural experience that reflects both the London tradition and its evolution.



PROMPT

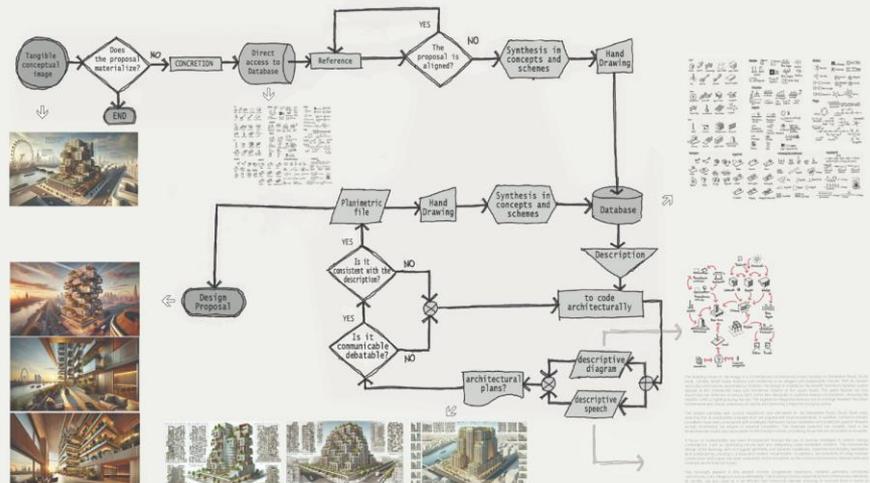
Using the attached image as inspiration and direct reference: Design a contemporary, slender and monumental building located on Belvedere Road, South Bank, London (UK). The structure fuses elements of London's architectural tradition with modern innovation, combining a commercial base with a tall residential tower. Focus on proportional transitions, rhythmic terraces and irregular, angular geometry. Incorporate public and private spaces, with open and closed sections, emphasizing the balance between service and service functions. Highlight its verticality with spaced transitions between the base and the tower, and integrate natural vegetation and textures that blend with the surrounding context. The facade should feature progressive articulation, dynamic cantilevers and a consistent view of the Thames, offering a mix of traditional and high-race elements. Show the building from a skewed aerial perspective, paying attention to light and shadow, texture and monumental scale. --ar 16:9 --v 1.02 --q 2.

THE GENERATED IMAGE IS SUBJECT TO CONFERENCE EVALUATION AS INDICATED IN THE PROJECT MEMORANDUM REQUESTING IN:

The building shown in the image is a contemporary architectural project located in South Bank, London, which fuses tradition and modernity. It is characterized by its slender verticality, with modular and irregular structure, highlighting the smooth transitions between public spaces at the commercial base and residential spaces on the upper levels. The glass facade reflects natural light and the stepped terraces integrate the urban and dynamic context, balances functionality and aesthetics, creating a rhythmic and modern visual rhythm. Key concepts present are progressive transitions, dynamic geometry, combined functionality and vegetation integration.

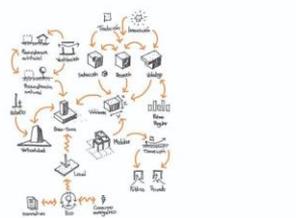


CONCRETE WORK FLOW



Experiencia profesional. Peña, 2024.

CONCRECTION



PROJECT SPEECH

The building shown in the image is a contemporary architectural project located on Belvedere Road, South Bank, London, which takes tradition and modernity in an elegant and sustainable manner. With its slender, verticality and modular, asymmetrical volumes, the design is inspired by the smooth transitions between public spaces at the commercial base and residential spaces at the upper levels. The glass facade not only maximizes the utilization of natural light but is also designed to optimize energy consumption, reducing the need for artificial lighting during the day. The vegetation-integrated facade acts as a bridge between the urban environment and nature, improving air quality and providing a high-rise breathing space.

The project complies with current regulations and standards for the Belvedere Road, South Bank area, ensuring that its construction and operation are aligned with local requirements. In addition, London's climatic conditions have been considered, with strategies that favour natural ventilation and protection against frequent winds, minimizing the impact of adverse conditions. The materials selected are durable, have a low environmental impact and are suitable for the London climate, prioritizing those that are recyclable or reusable.

A focus on sustainability has been incorporated through the use of passive strategies to reduce energy consumption, such as optimizing natural light and integrating cross-ventilation systems. The microclimate design of the building, with its organic geometry and dynamic cantilevers, balances functionality, aesthetics and sustainability, creating a unique and modern visual rhythm. In addition, the possibility of using modular construction techniques has been evaluated, which will speed up the construction process, reduce costs and minimize environmental impact.

Key concepts present in this project include progressive transitions, dynamic geometry, combined functionality, program integration and sustainability. This building not only responds to the contemporary demands of London, but also does so in an efficient and conscious manner, ensuring its success both in terms of construction and impact on the urban and social environment.



PROMPT

This prompt was adjusted to use the Project Image v3 as a base for generating the proposal, as follows:

"From the updated image, generate a new image that is inspired by it and that includes the following indications: design a sleek, contemporary architectural building located on Belvedere Road, South Bank, London SE1 7JF, featuring fluidity and asymmetry. The structure features slender verticality with modular, asymmetrical volumes and smooth transitions between public commercial spaces at the base and residential levels above. The glass facade captures natural light, reducing energy consumption, while terraces with integrated vegetation blend the urban and natural environments. The building connects with local regulations and incorporates sustainable materials suitable for London's climate. Dynamic overhangs, irregular geometry, and modular construction techniques ensure a balance of functionality, aesthetics, and sustainability. Highlight progressive transitions, geometric dynamism, and integrated green spaces, with a monumental yet modern visual rhythm. --realistic --high-detail --ar 16:9 --v 5.04 --q 2"

THE GENERATED IMAGE IS SUBJECT TO CORRECTION (AS INDICATED BY THE PROMPT FLOWCHART) RESULTING IN:

The updated building reflects an approach closely aligned with concepts such as elegance, contemporaneity, asymmetry, modernity, volume, natural light, dynamics and irregularity. However, aspects such as slenderness, integration with natural surroundings and sustainability could be more pronounced to improve coherence with the context of Belvedere Road, South Bank.

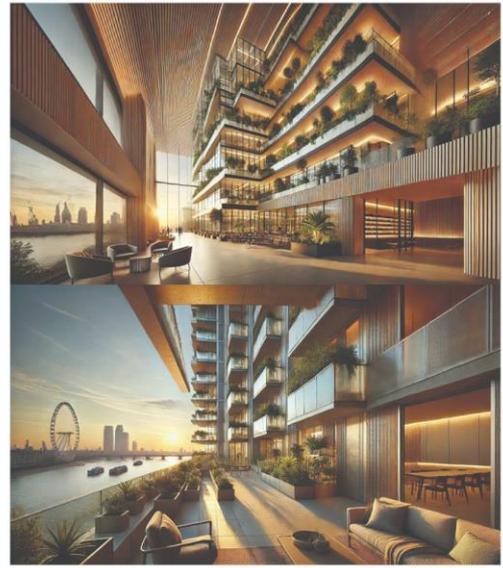
THIS RESULT IS TAKEN AS IMPERMISSIBLE AND ADJUSTMENTS ARE MADE WITH CHATGPT TO GENERATE A NEW IMAGE:

I said:

--I have seen the generated image and I would like, from the updated image and being faithful to it, to adapt it to reinforcing the following: integration of the natural surroundings of Belvedere Road, South Bank, London SE1 7JF. Irregularity and asymmetry in the facade, incorporate obvious elements of sustainability, to the upper levels from the street, includes solar panels or specific energy-saving technologies, emphasize the slenderness and verticality of the building, includes clear aesthetic elements of the London architectural tradition --realistic --high-detail --ar 16:9 --v 5.04 --q 2"

CHATGPT said:

--Here is the generated architectural image based on your request. It integrates the natural surroundings of Belvedere Road, South Bank, London SE1 7JF, while retaining irregular geometry, sustainability elements, and verticality, all within the context of the urban environment. Let me know if you would like any further adjustments!



THIS RESULT IS TAKEN AS POSITIVE AND WE CONTINUE WITH THE NEXT STEP WHICH IS TO GENERATE TWO INTERNAL IMAGES FROM THIS IMAGE (CHATGPT IS ASKED HOW TO STRUCTURE A PROMPT FOR THIS PURPOSE)

PROMPT

Use the updated image as inspiration, and stick to it to generate an image using the following prompt: "From the modern facade with glass and glass surfaces of the external building, and the sustainability characteristics on the facade of the lobby interior, the lobby should reflect the same lines and drapings of the exterior, prominently using a style that fuses tradition and modernity, combined with integrated plant elements such as vertical gardens and large plants, reflecting the exterior design. The space should feature a modern design that fuses London architectural tradition with contemporary elements, incorporating 3-meter-high ceilings and floor-to-ceiling windows, and should look out over the Thames River at Belvedere Road, South Bank, London SE1 7JF. Use a neutral and warm colour palette, with black metal details and wood trim to maintain aesthetic coherence between the interior and exterior, highlighting the use of natural light and open and welcoming atmosphere. The setting is dusk, with long, warm golden light hitting the glass, creating a deep atmosphere and highlighting the reflections on the glass and metal surfaces. --realistic --high-detail --ar 16:9 --v 5.04 --q 2"

PROMPT

Use the updated image as inspiration, and be faithful to it to generate an image using the following prompt: "From the modern facade with organic lines and glass surfaces of the exterior together with the sustainability strategies of the same, generate an image of the interior of an apartment in the residential tower. The apartment must have a minimalist design with neutral tones, using a palette of warm colors and earth tones. The modern aesthetics of the exterior must be reflected. The floor is elevated towards the view exterior, part of the terrace with integrated vegetation must be shown, continuing the use of metal and glass from the exterior and pora with lush vegetation. The background view is the Thames River Bay at Belvedere Road, South Bank, London SE1 7JF. The lines of the exterior must be present in the furniture and internal finishes, creating a consistent visual flow. The volume of the exterior is reproducible from the interior. The setting of the scene is dusk, with long, warm golden light hitting the space, generating a deep atmosphere and highlighting the reflections on the glass and metal surfaces. --realistic --high-detail --ar 16:9 --v 5.04 --q 2"

NOTE

ALTHOUGH THE PROMPTS ARE BASED ON THE STRUCTURE USED BY IMAGE GENERATORS LIKE MIDJOURNEY, THEY WERE NOT USED IN MIDJOURNEY, APPLIES TO ALL GENERATED IMAGES.

Experiencia profesional. Peña, 2024.

CREATIVIDAD LIBRE Y RAZONADA

Workshop

FABLAB GOLMAYOR
PROGRAMA DE ARQUITECTURA E INGENIERÍA

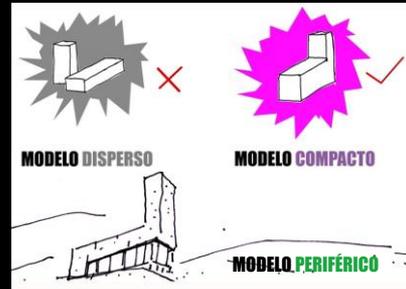
6 ° ENCUENTRO DE
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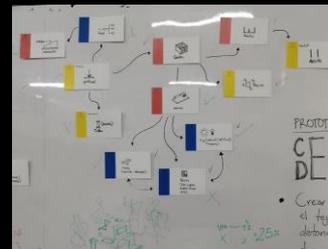
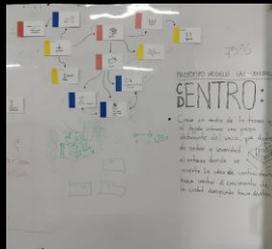
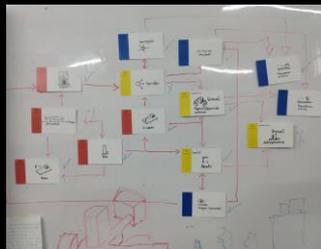
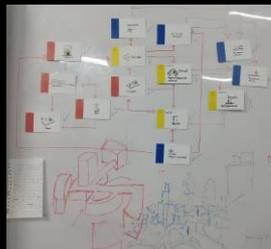
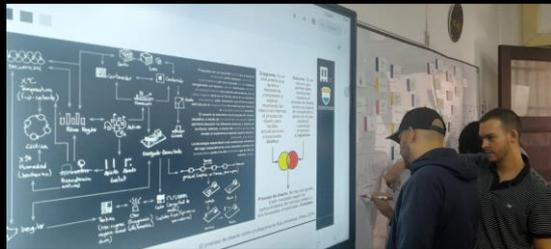


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Workshop_Creatividad libre y razonada. Noviembre, 2024.



Workshop_Creatividad libre y razonada. Noviembre, 2024.

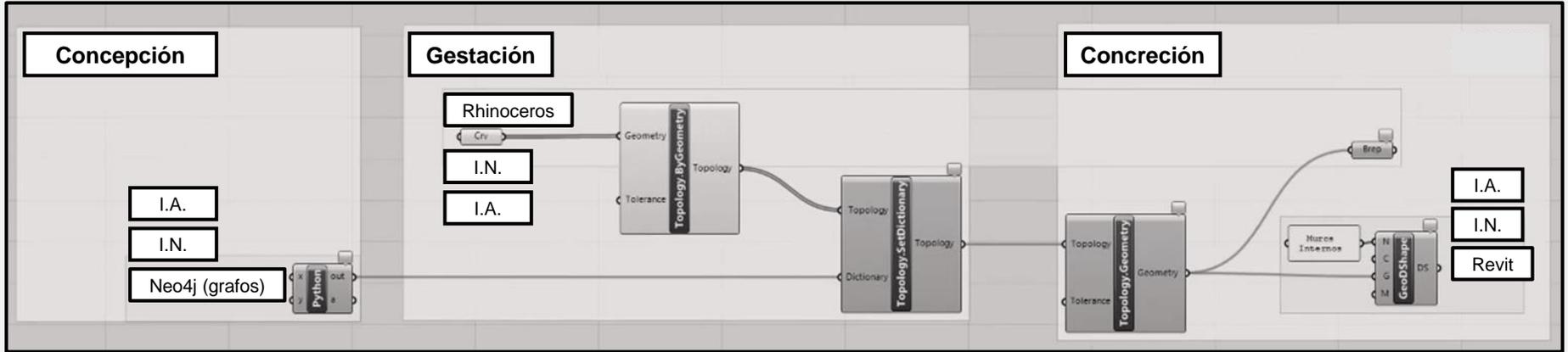
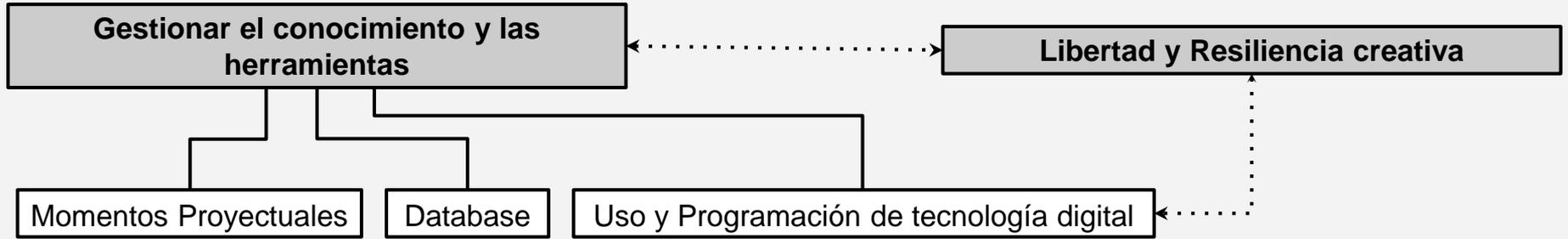
6° ENCUENTRO DE EXPERIENCIAS INSTRUMENTALES

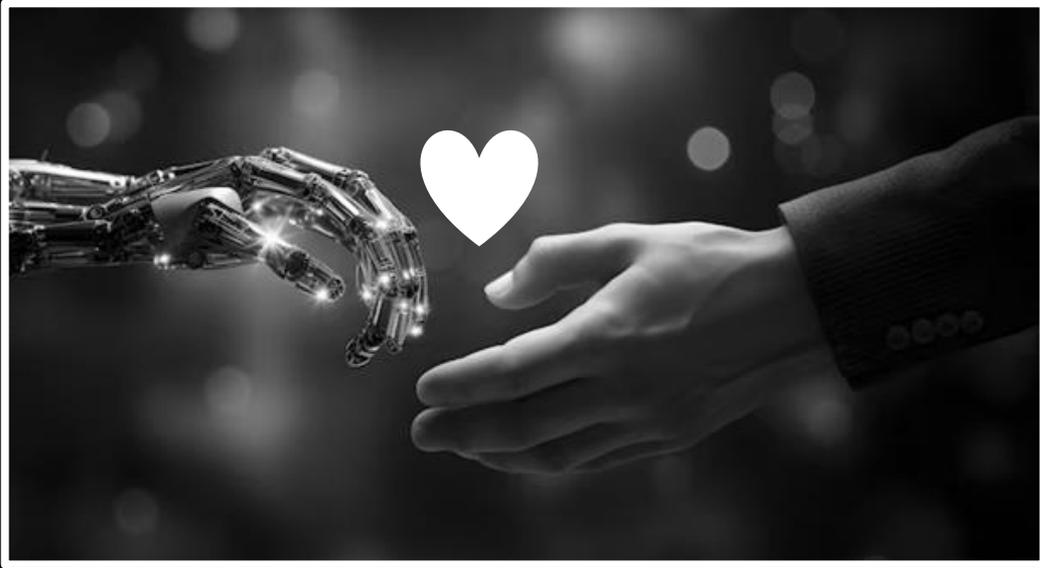
Nuevos lenguajes del espacio:
Workflows contemporáneos en la arquitectura y el diseño



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MUCHAS GRACIAS

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