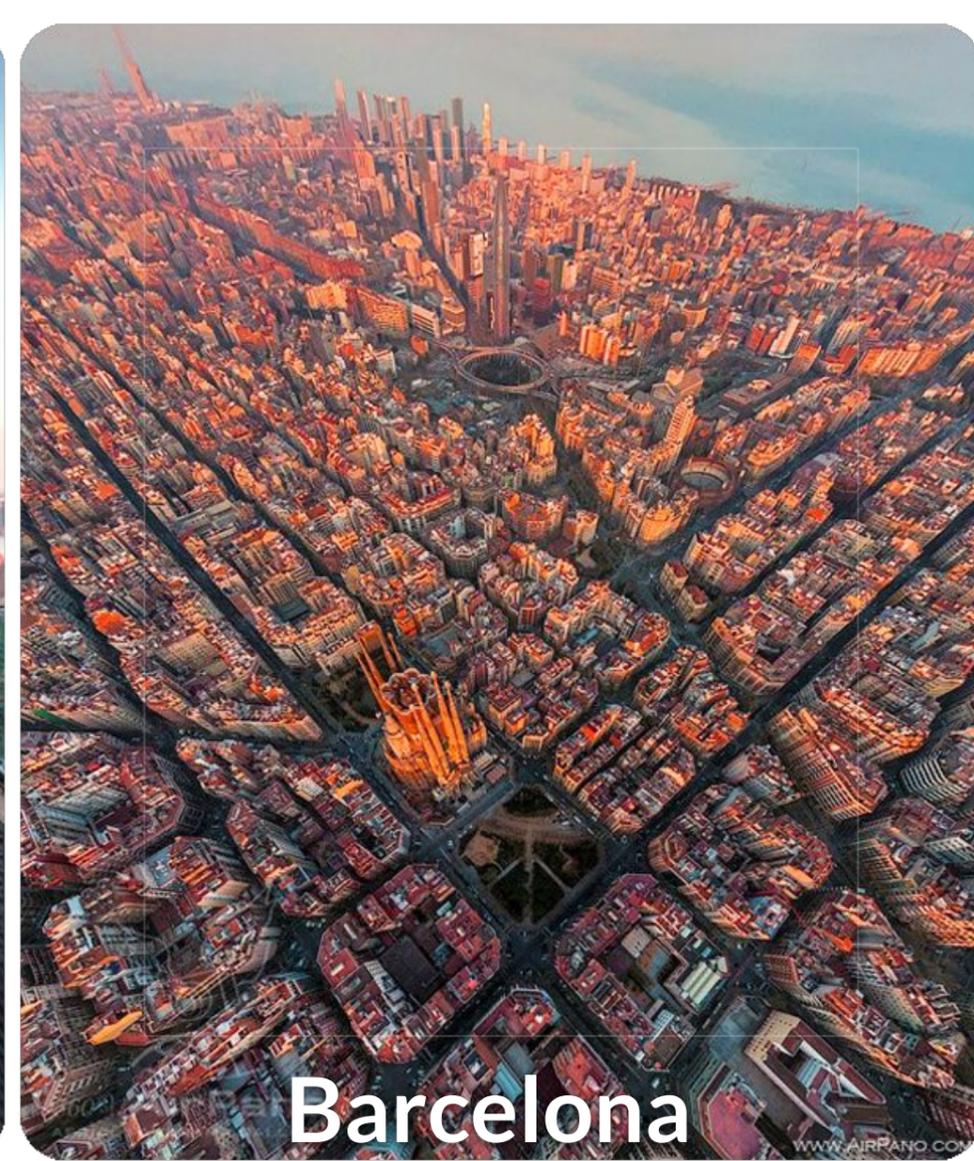
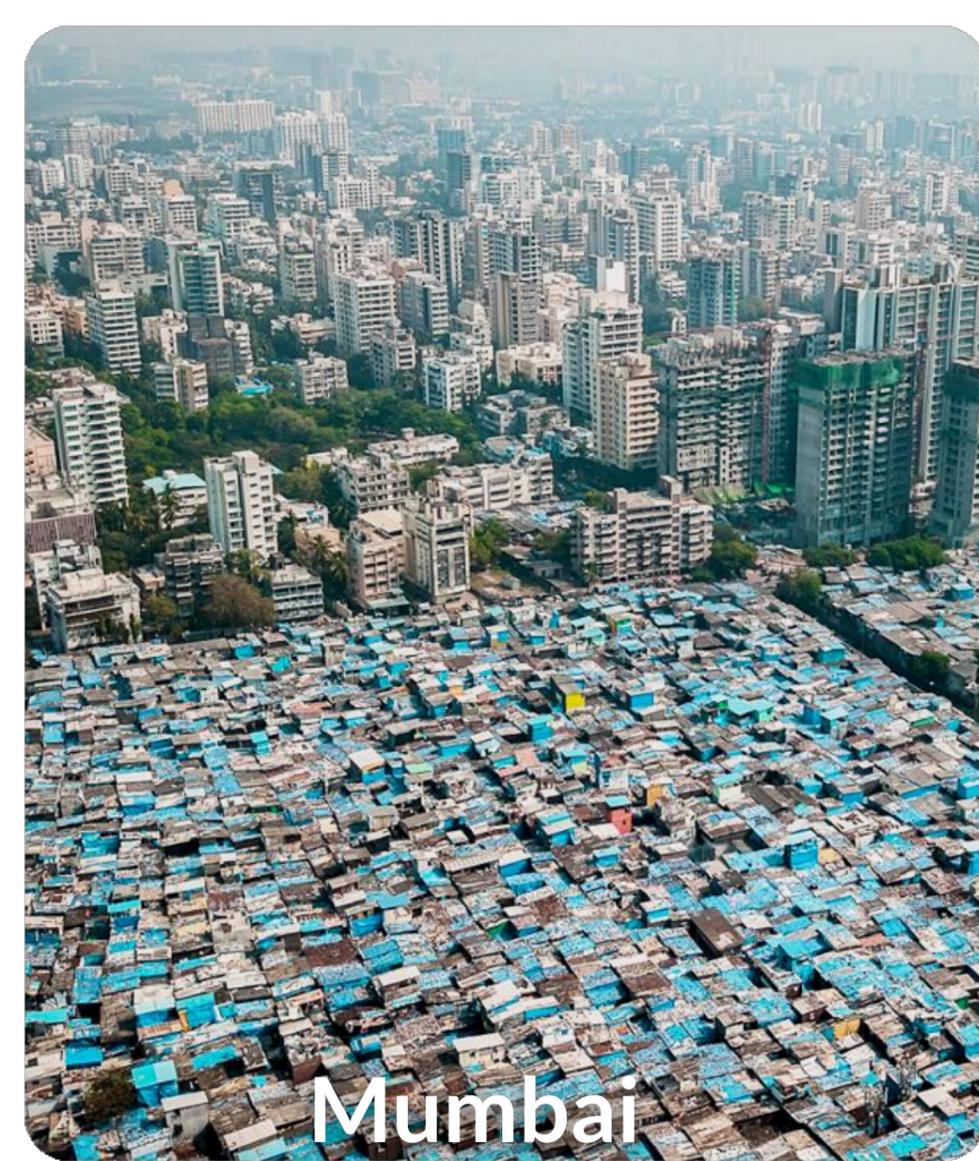


PARASITIC ARCHITECTURE

What if Architecture was grown as a parasite on an existing host-architecture?



Img 1: Dense Urban Fabric of Mumbai, New York and Barcelona all differently defined from each other

Premise

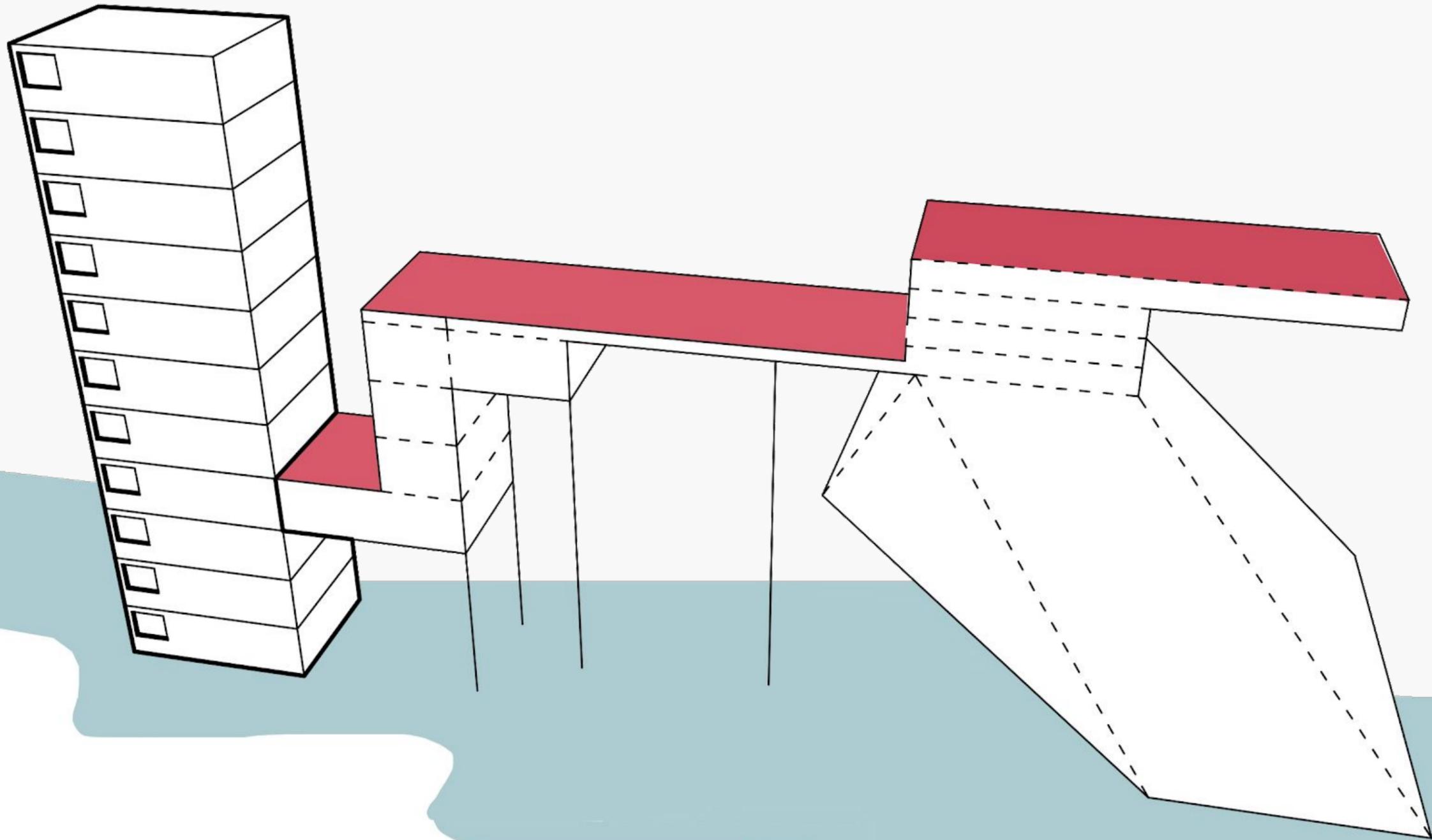
Today, **55% of the world's population** lives in urban areas, a proportion that is expected to increase to **68% by 2050**. Projections show that urbanization combined with the overall growth of the world's population could add another **2.5 billion people** to urban areas by **2050**.

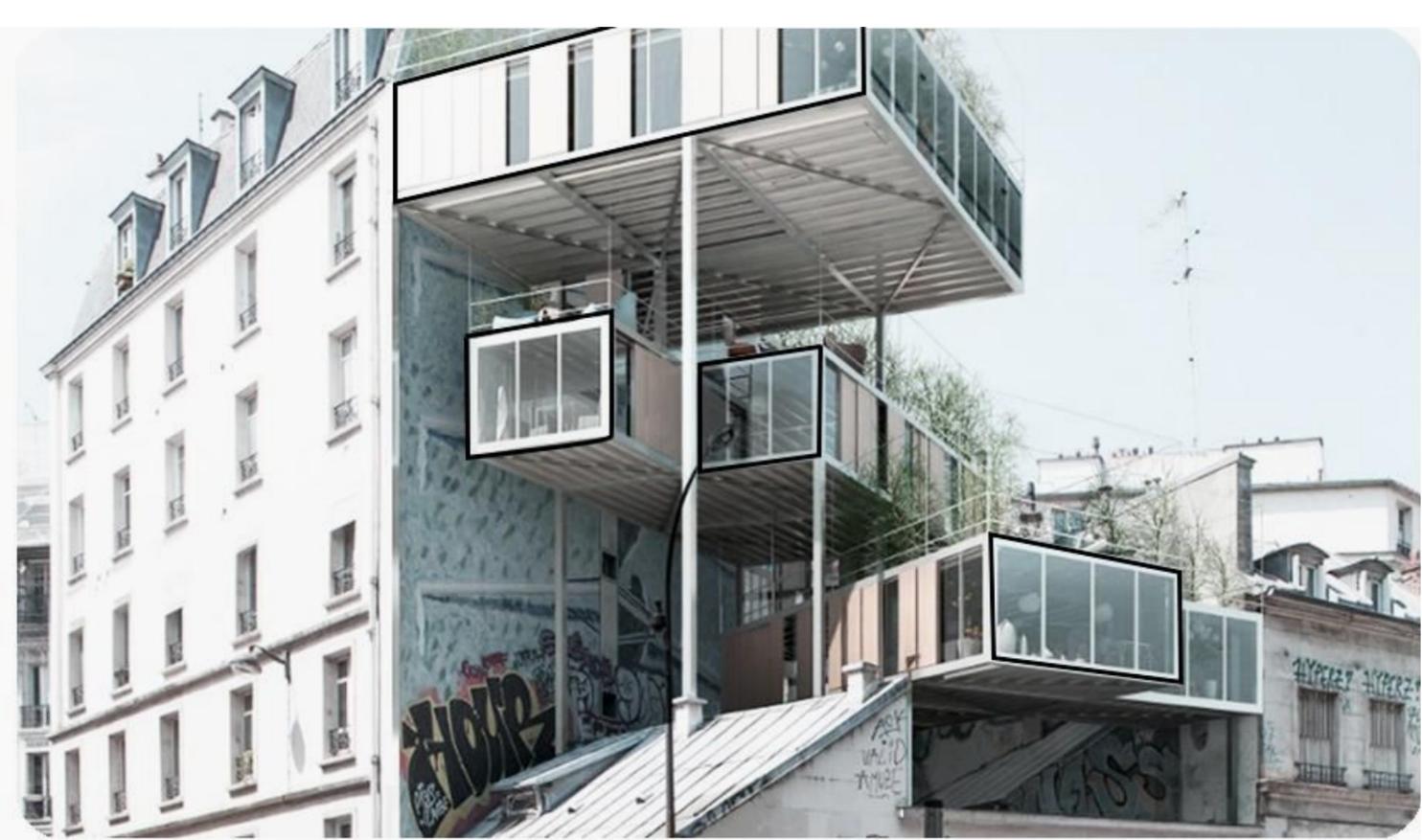
Living in these densely urbanized pockets is not just ridiculously **expensive**, but also **substandard for average and low economic groups**. Moreover, the cost of living increases so rapidly that being at the same pace with it becomes almost impossible for most households, resulting in an abysmal quality of life.

Although implementing population control policies and developing satellite cities as an urban alternative are good long term solutions, they are time consuming and market dependent. Possible solution thus is to smartly increase the availability of liveable spaces in the cities that are already thriving with people.

Introduction

As we seek to increase the availability of spaces cities or structures already thriving with people we resolve the crisis of lack of space in dense urban fabric. New structures and functions now feel obligated to be nurtured by the existing ones acting as selfless hosts. ***New architecture now feels obligated to be the parasite!*** Parasitic architecture is defined as a building that is attached to an existing larger structure.





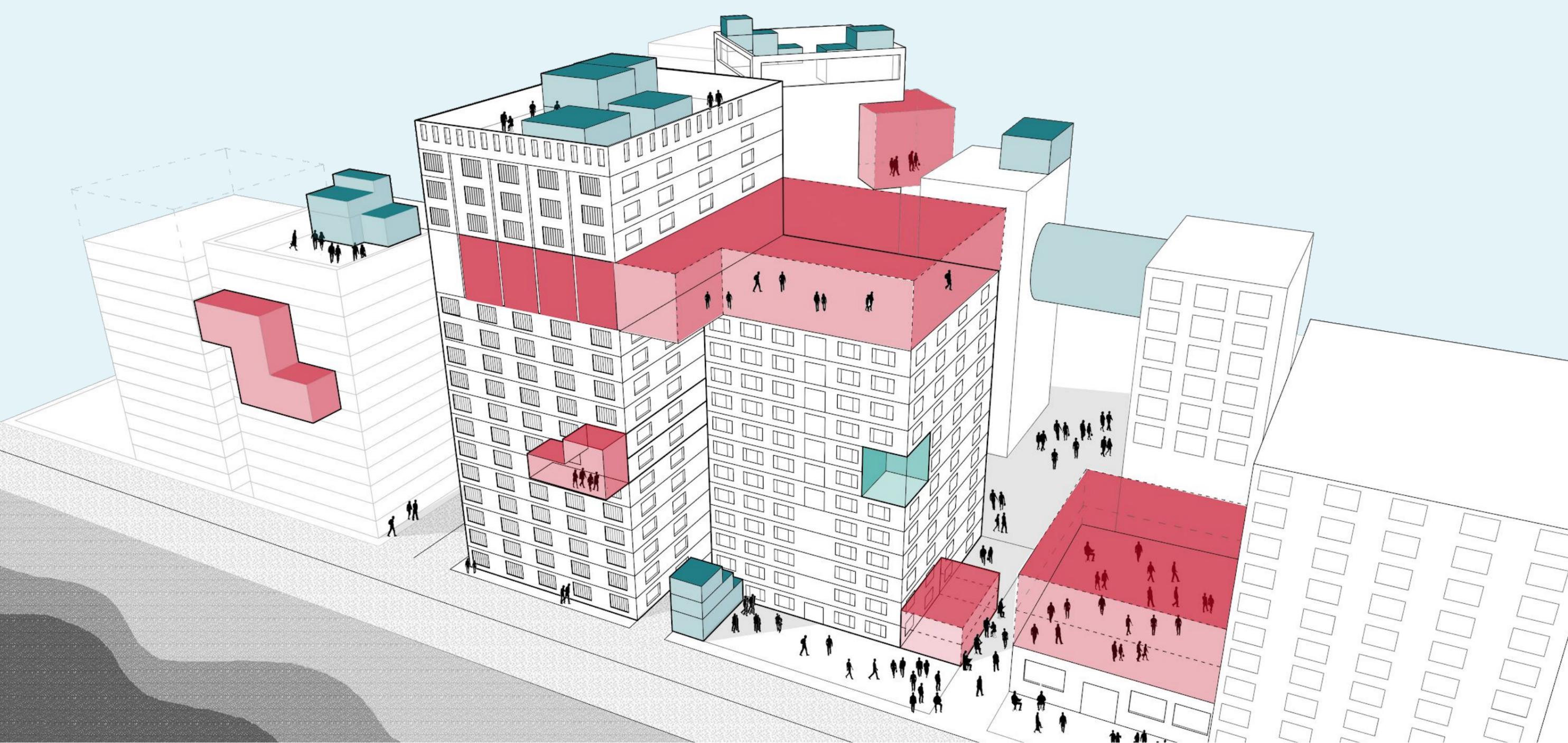
img_2: Parasite can respond to context, acting as an extension (left) or act as a landmark by standing out (right). [Source](#)

Context

As parasitic architecture serves as a solution to an urban problem, the proposal has to be based in a densely populated urban context. More densely packed the city is, more effective the role of the parasite would be. Additionally, the parasite should be serving a typological purpose that is public in nature and resonates with the function of its host and its immediate context. Thus the parasite will embed itself firmly into the urban fabric with a basic economic relevance.

The host should also be functionally relevant and ideally have a function of public nature, so that the parasite can take a much leading role in providing public respite. Moreover, it would be great if the host already has some socio-cultural relevance in the context, as it will help the parasite to be more iconic in its outreach.

Practically, the context plays the most crucial role in the existence and success of the parasitic architecture project, as this entire exercise **highlights an effort to solve the problems of the context, with the context.**



Img_3: Future of cities, with the new form architecture serving as an agent of social change

Inquiry

As a Parasite, *what if this new architecture*

- relied on a host architecture for its structure, services and access?
- grew on and around an existing architectural, infrastructural element?
- served as an agent of social change, that promoted architecture to be more symbiotic to its context?

Brief | Criteria



Location : Densely populated City

Should have a density of at least 10,000 people/km²



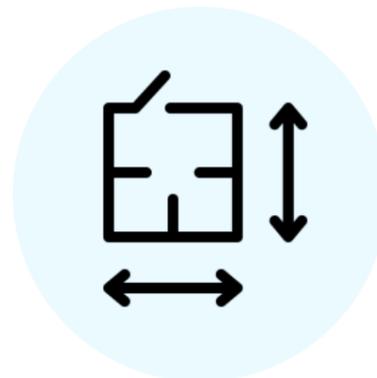
Typology: Over a Building or Infrastructure

Could be a residential, commercial or civic building or infrastructure such as bridge.



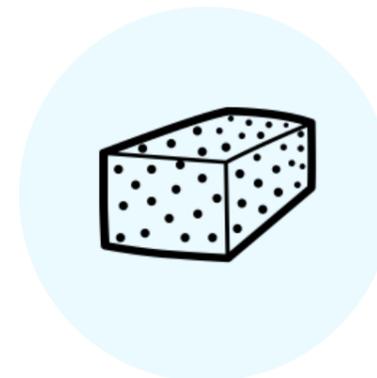
Function: Public interest and relevant to host

Functions such as in the informal commercial sector such as ice-cream kiosk or pop-up library.



Size : Should be between 10 m³ and 100m³

For small ice-cream kiosk of 3m X 3m, there could be some outdoor seating without exceeding overall volume



Materials : Contemporary and available

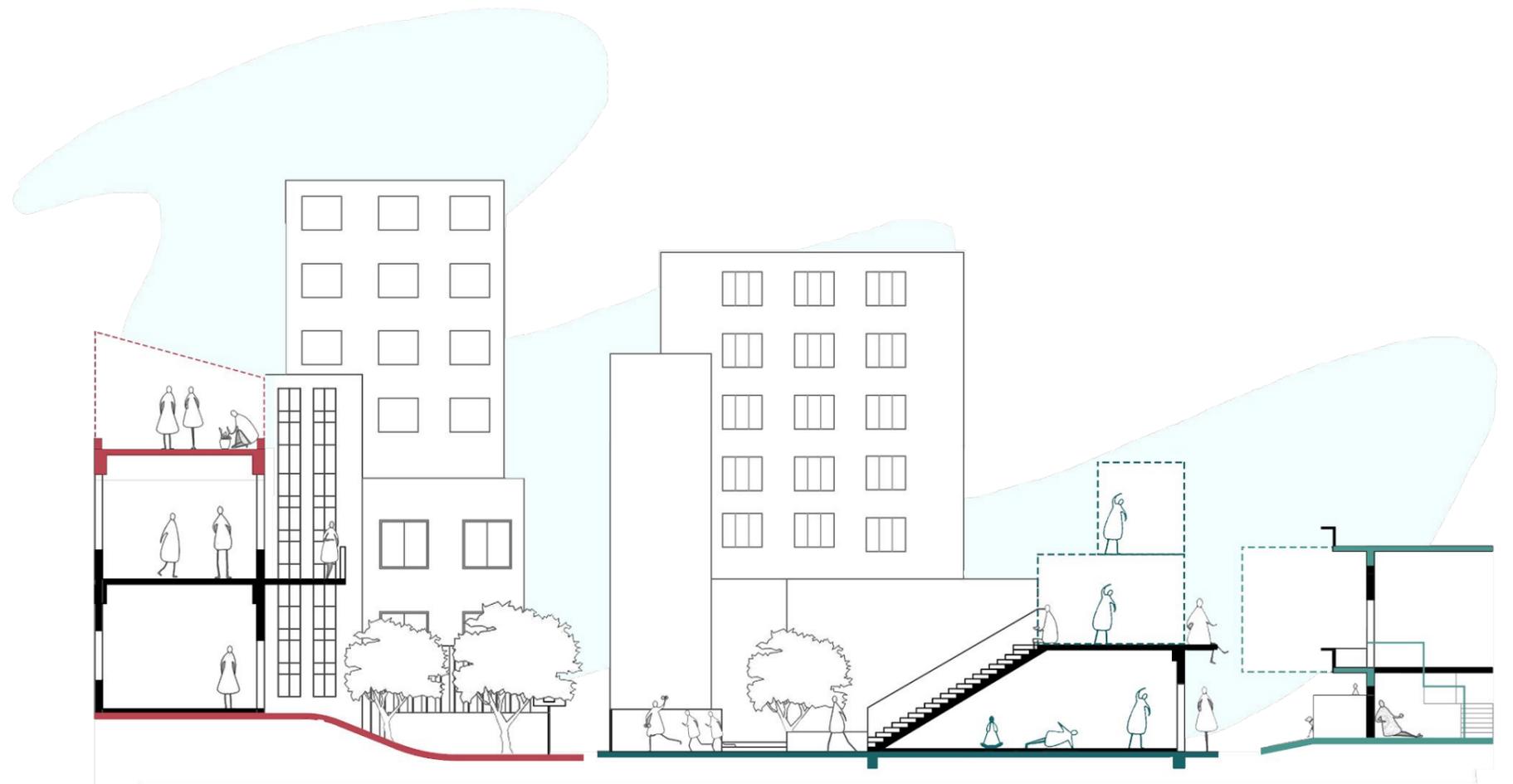
Successfully tested experimental techniques could also be implemented



Other restrictions: Fire Safety

As it's a public place, fire safety and any contextual design risks should be thoroughly considered

Brief | Overview

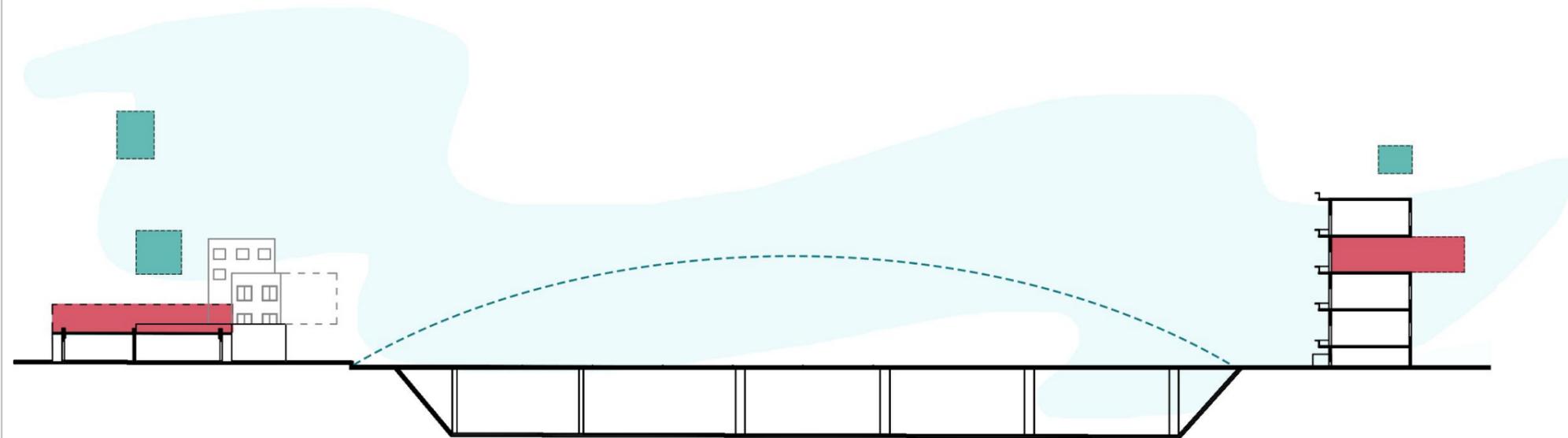


The WHAT

To be identified as parasitic, the architecture should serve at least 2 of the following criteria:

1. Be **structurally** supported by a host architecture.
2. Be **typologically** relevant to the original function of its host architecture.
3. Be **accessible** through the host architecture.

Brief | Overview



The WHERE

The parasitic architecture must fulfill all the following criteria when choosing the location:

1. Be located in a city with a population density of at least 10,000 people per km².
2. Be located on an existing residential/commercial/civic building or civic infrastructure such as bridges.
3. Be serving a public function whether the host is a public building or private property.

The HOW MUCH

Although growing organically, parasitic architecture should adhere to all of the following restrictions:

1. Be between 10 m³ and 100 m³ in volume.
2. Be able to be constructed by available materials and contemporary construction techniques.
3. Be respectful of fire-safety regulations.

Submission

This additional resources folder contains: FAQ Questions

Minimum requisites in the sheets are 3 sheets/boards + Cover image containing:

- Site plan (Compulsory)
- Key conceptual sections x 1 (Minimum)
- 3D views x 4
- Cover image/Thumbnail of size 2000 x 1000 px or larger in aspect ratio 2:1.
- Floor plans, images, sketches (if any) can be added to support the entry in the form of additional images.
- Answer 6 FAQ questions in the discussion section as given on the '[additional resources folder](#)' and [here](#)

- + The team limit for this competition is 4 members maximum.
- + Use exploded views to discuss multi levelled conceptual models better.
- + Ensure that the final sheets which are submitted do not include your name or any other mark of identification.
- + Mention sheet number on corner of every sheet.
- + This is a design ideas challenge only. There is no built commission/realization is associated with the problem
- + Plagiarism of any idea / form / design / image will be disqualified with a notice.

Registration page here: <http://competitions.uni.xyz/parasitic-architecture>

Submission Deadline: 5 May, 2020

Submission closes this day.

Public Voting begins: 15 May, 2020

Submitted entries are open for voting.

Public Voting ends: 5 June, 2020

Voting ends on this date.

Result Announcement: 15 June, 2020

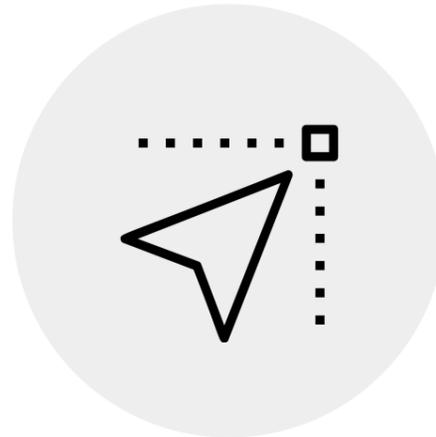
Rewards



Grants of up to a total of **20,000\$** can be won on this challenge. Learn more about the full conditions on the competition page here.

Judging Criteria

The entries will be judged by an international jury of the competition on the following criteria:



Presentation

The fundamental to a good entry is a good presentation.



Concept/Idea

Quality of thought and intent in pre-design phase.



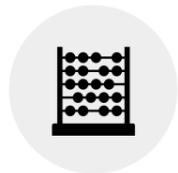
Spaces/Programme

How the spaces are calculated and ordered.



Design Output

The final architectural outcome of the solution.



The judging panel can also add other criteria based on their internal discussions - which will be in line with the problem statement. Participants are advised to fulfil above given criteria first in their design.

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Curator



Angad Warang

Designer | Researcher | Design Researcher

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Based in Spain and shuttling between India and the Netherlands, Angad Warang specialises in Computational Design and Digital Fabrication. He graduated with BArch from VNIT, Nagpur, India in 2012 and completed MS Arch in Biodigital Architecture from UIC, Barcelona, Spain. He is currently pursuing a PhD in Computational Design titled 'Architecture of Computational Ecosystems'. He also works as a Research Assistant in the Institute for Biodigital Architecture and Genetics, ESARQ, UIC, Barcelona. Angad teaches Computational Design and Digital Fabrication as an Associate Professor at the Biodigital Architecture Master in UIC, Barcelona. He also teaches in several Architecture and Design institutes in India as a visiting faculty. He is constantly conducting workshops in India, Spain and the Netherlands as a contribution to his research. He is also the co-founder and co-owner of UnDesignLabs -, a research, design and education consultancy that specialises in digital fabrication.

Visit on LinkedIn - <https://www.linkedin.com/in/angad-warang-7658b1117/>



Hybrid Futures is a unit block for UNI in the field of Architecture that covers the field of near future architectural thought. It intends to break the barriers of design ideologies that are limited by the technologies of today and aligns itself to futuristic thought processes. This arm of Uni banks on growing technological advancements to frame architecture in the megacities of tomorrow. It is a research initiative dedicated to providing opportunities for designers from all domains to explore ideas that go beyond the boundaries of architectural discipline and enrich our built environment; thereby opening up possibilities for promotion of design thought process at a global level.

Queries: support@uni.xyz

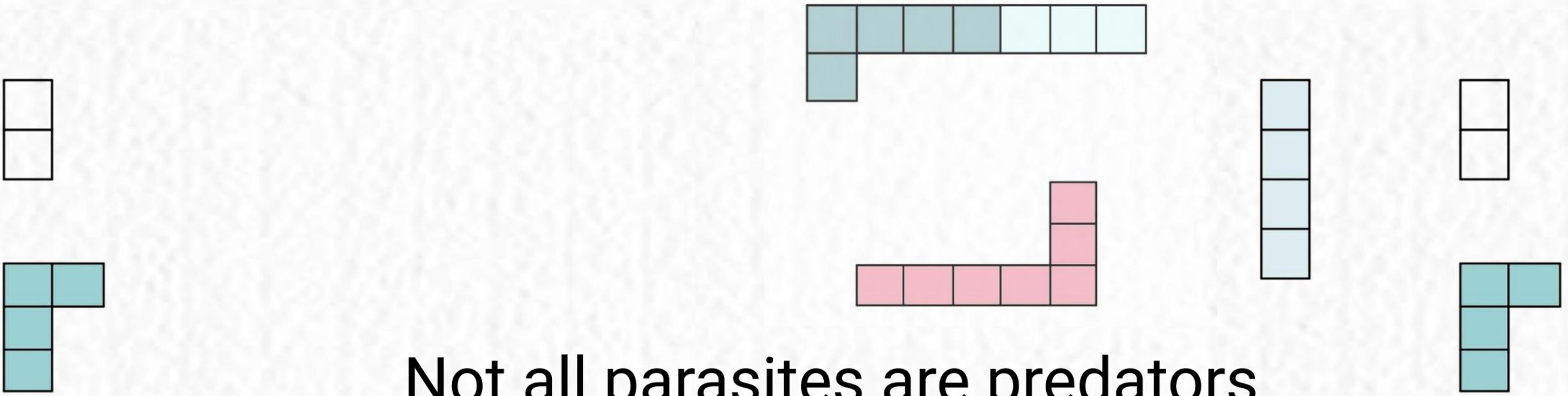
Discover other competitions: <http://competitions.uni.xyz>

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Discover FAQ's about this competition on our help forum here: <http://help.uni.xyz/>

PARASITIC ARCHITECTURE



Not all parasites are predators.

