



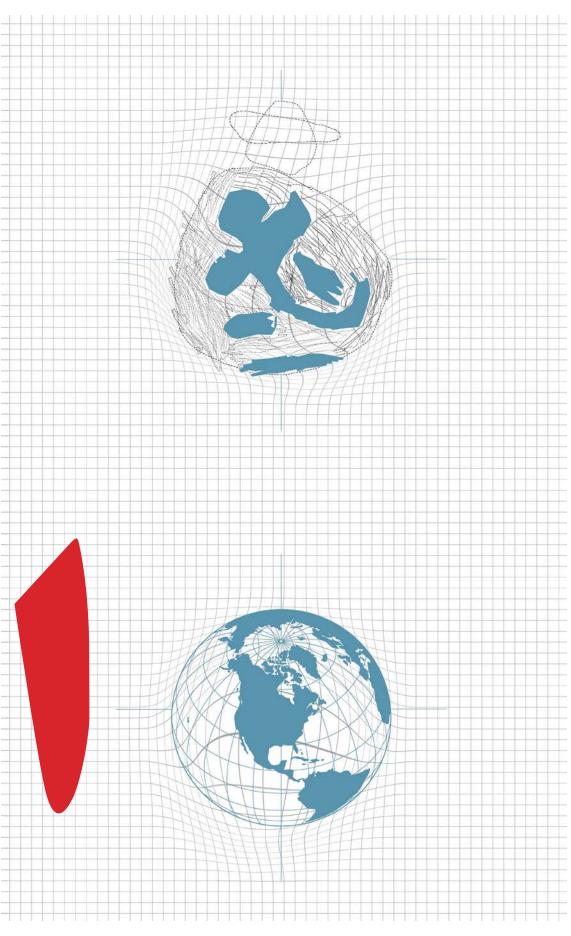
earth, drawing by adnan, 6 years old, january 2020



- look, look ibrahim! this is the earth. did you know that the golden toad and the baiji dolphin are extinct. this dolphin should be here in this big ocean can you see it?

adnan my 6 year old cousin was my first asterisk moment





this is my little cousin adnan. we call him nano. i stopped by london on my way back to new york to see him. we like to draw together. he drew an earth and we started talking about it. he wanted to tell me about animals that were disappearing, forests that were being cut down by people. nano, knows that i build things. nano asked if i could build a safe place for the baji dolphin. he was already thinking collectively about the world. in his own way, nano was adressing some of our biggest challenges by drawing them. nano, here is how i think architecture can respond to some of these realities of today and tomorrow.



this is nano while we were drawing, reading and talking

#### \*

- i see it nano! i also see clouds everywhere, tiny very tiny dust everywhere in the air. where is lebanon on your map, and where is new york? and you know im going to peru here on the map later this year!

adnan my 6 year old cousin was

## the bestest

with marco ferrari / summer p.10

## saloua

with ada tolla and giuseppe lignano / fall p. 52

#### mens sana

with paul preissner / fall p. 56

## sectarian ecologies

with felicity scott / fall p.86 ongoing wider research with andrés jaque and mark wasiuta

## zingiber

with bika rebek / spring p.104

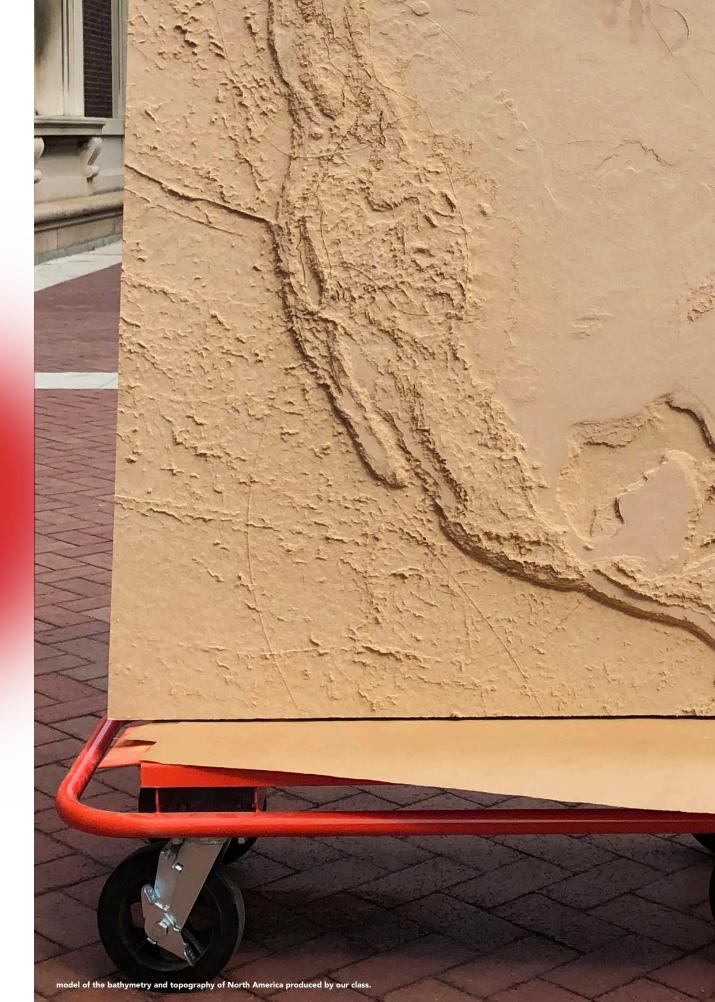
## kitchen parliament

with anna puigjaner / spring p.110

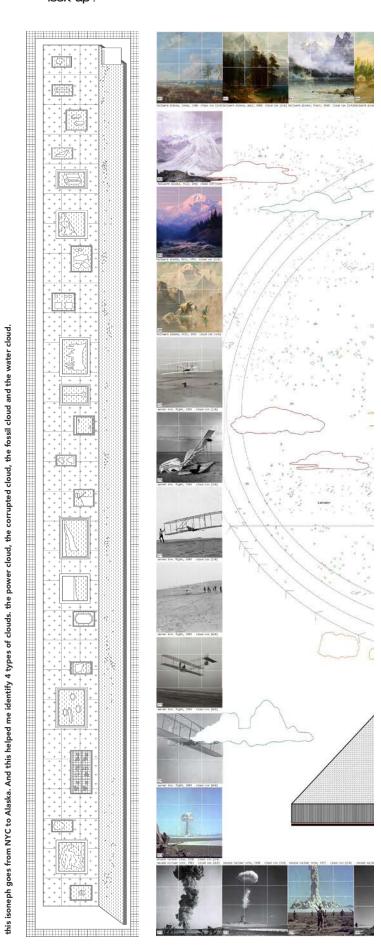
### the Bestest

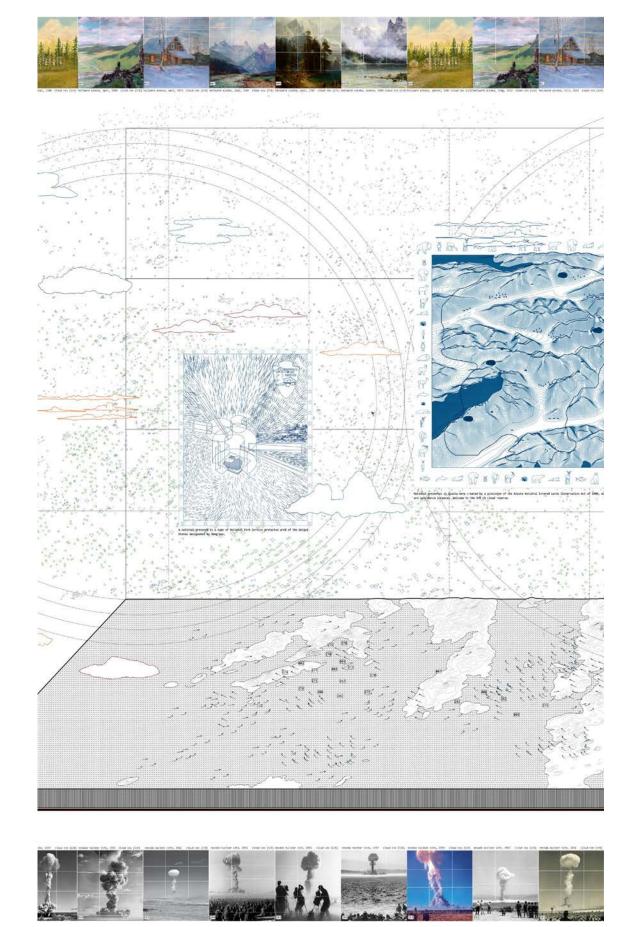
'We have the cleanest, purest, most crystal clear air in the world, we are the greatest people by far, we are America'. This is an extract from one of the latest speeches by the American President. Clouds provide a revealing indication of the current state of the atmosphere. An isoneph is 'a line on a map connecting points that have the same average percentage of cloudiness.' The isoneph of 50% cutting through the American continent reveals the complexities of this 'crystal clear air'. The cumulus, a visible mass of minute droplets, in the atmosphere of a planetary body or similar space might inevitably disappear with the rapid increase in temperature. Through a series of speculative 'potentials' injected in the continental landscape, this project seeks to look at these changes, the politics behind these processes but also at the plethora of clouds in our atmosphere, such as the data clouds or the atomic clouds. This isoneph projects narratives on the future of the sovereignty of water between states, measuring cloud coverage through invisible latency, institutionalizing cloud reserves, sensing ephemerality and carbon dioxide as a partisan political device. The clouds are in medias res, they are constantly 'in the midst of things' and reveal the political implications of these clouds above, under or sometimes floating in our heads.

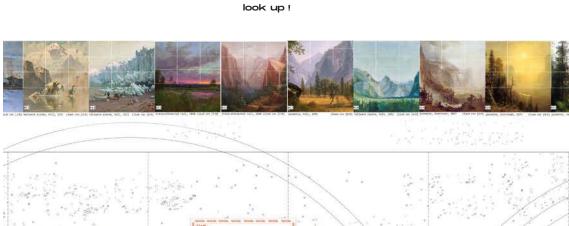
CH<sub>s</sub>, methane, when leaks into the air, absorbs th sun's heat, warms

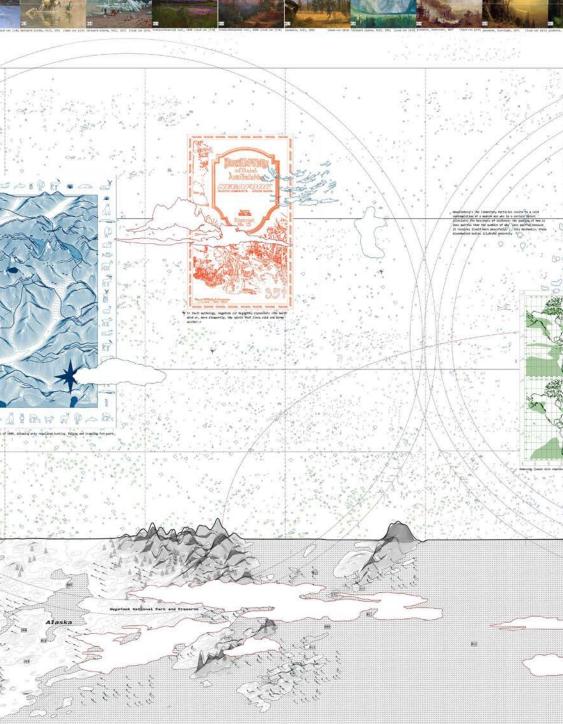






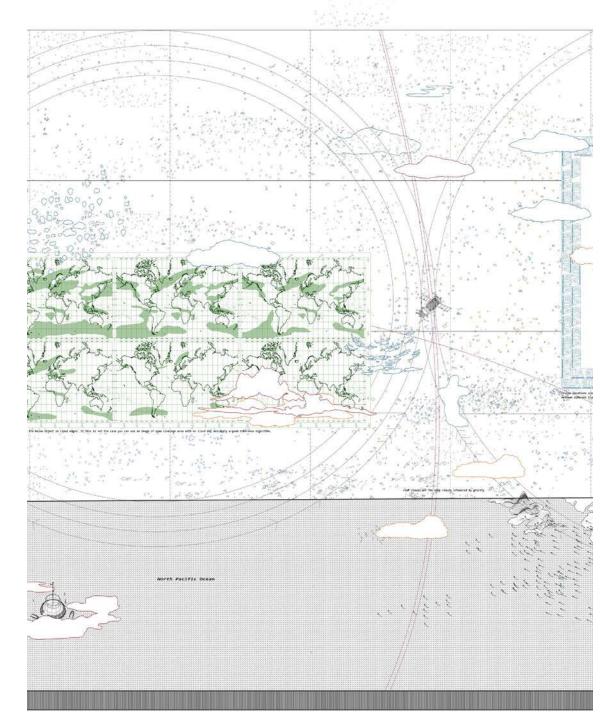




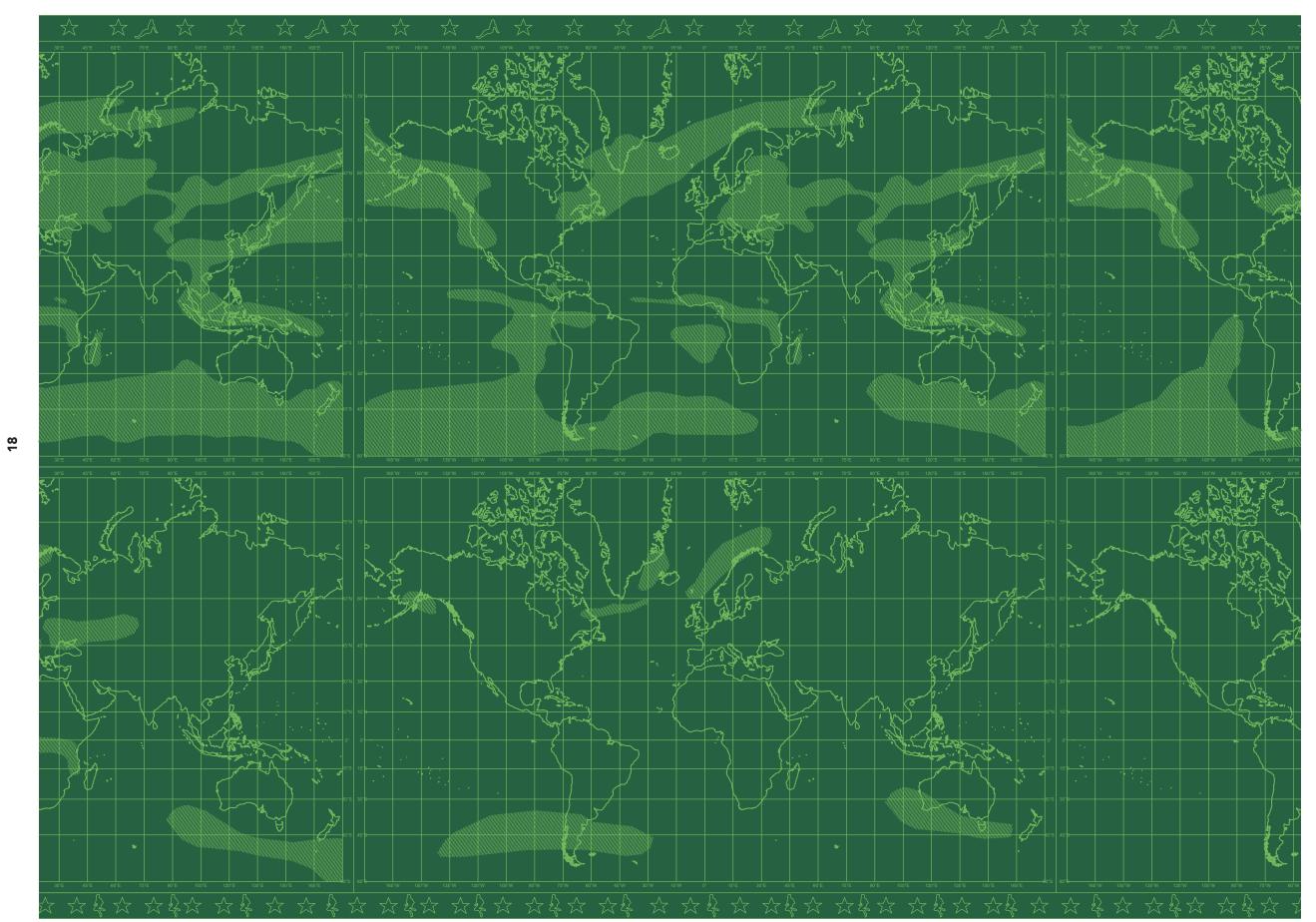




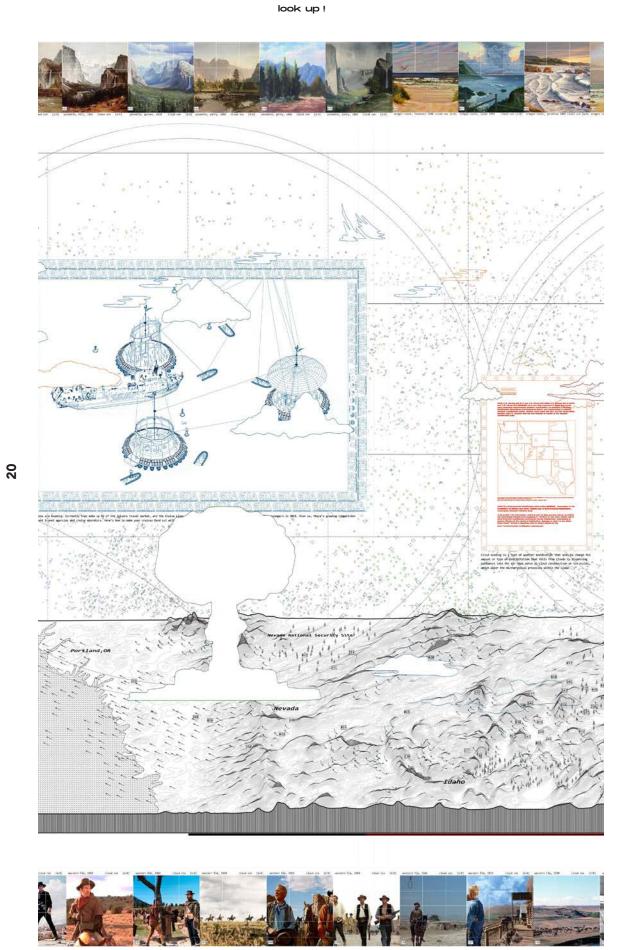


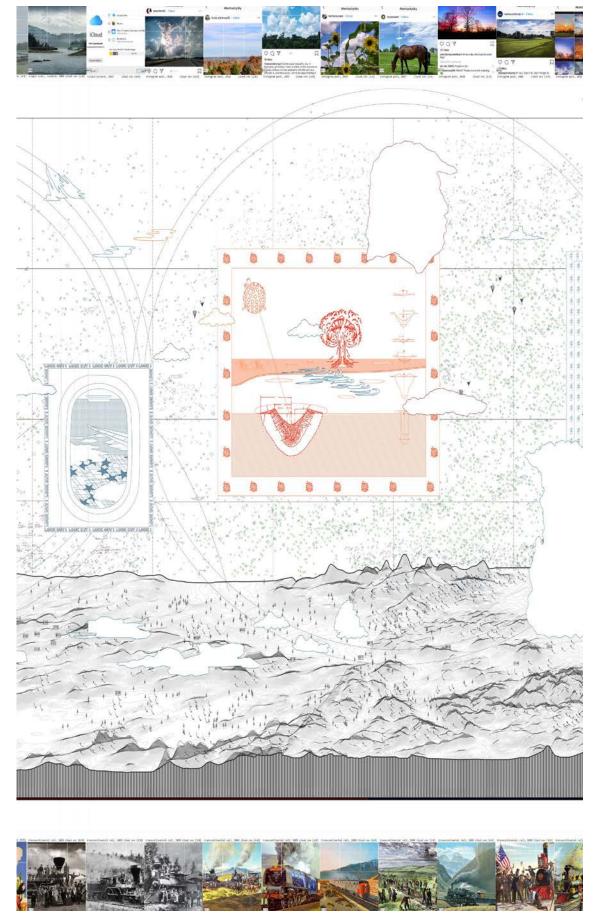


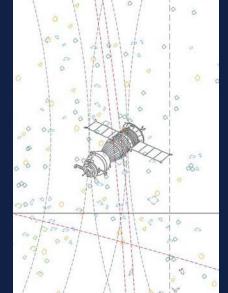




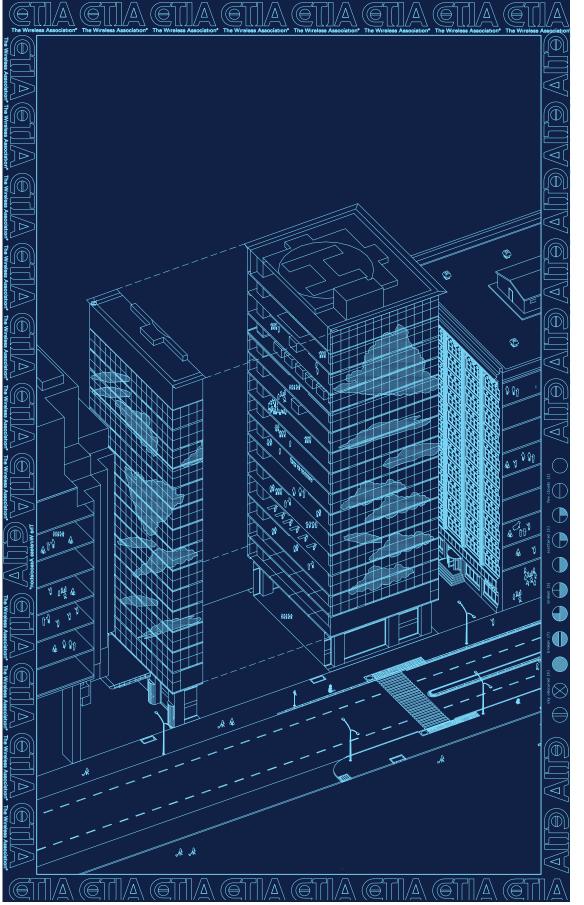
computer models lead by Schneider at Caltech explains that if CO2 reaches 1,200 parts per million - three times the current level, - which we are going toward-







before satellites we looked at the world, and the sky upwards. Through satellite, now, we looked at our world downwards. This shift articulates clouds today.

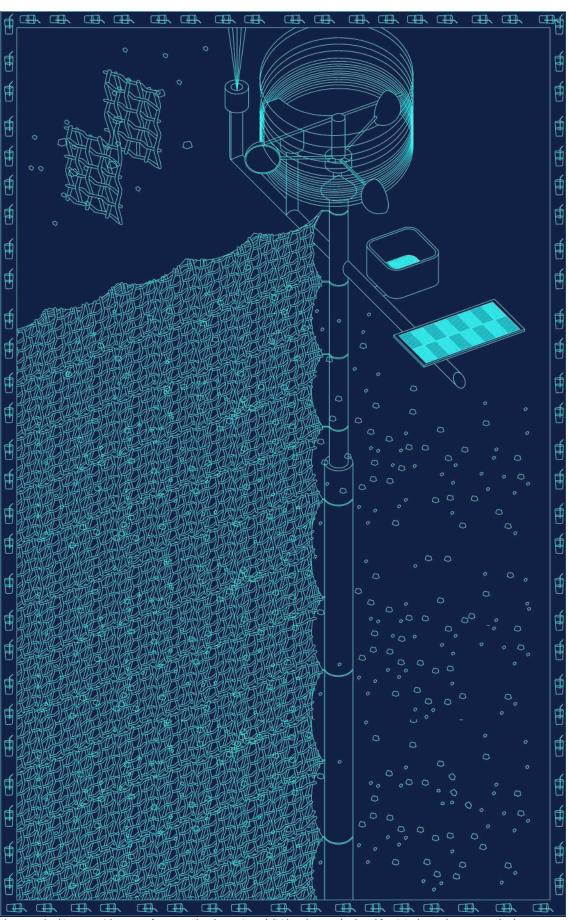


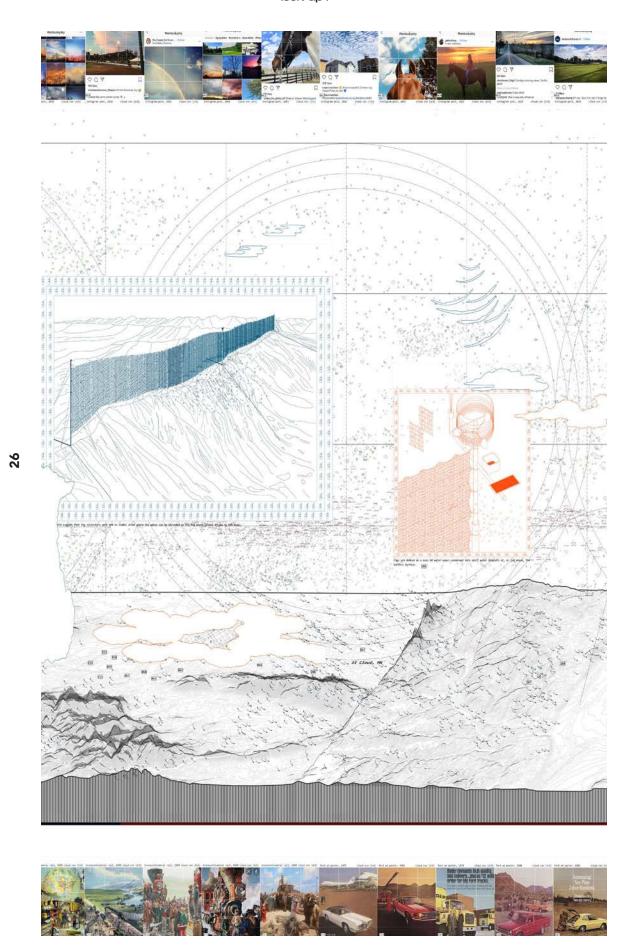
 $of fices \ of the \ extension \ to \ the \ CTIA \ telecommunication \ agency. \ it \ uses \ the \ phone \ coverage \ latency \ to \ measure \ clouds.$ 

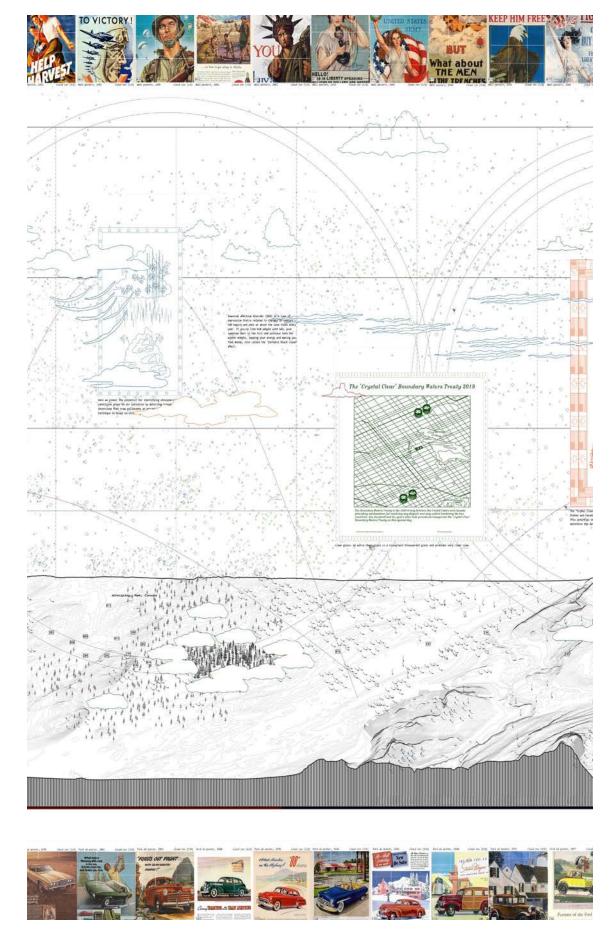
# 'We have the cleanest purest most crystal clear air in the world, we are the greatest people by far, we are America'.

United States President

First Rally Campaign in Colorado, June 2019



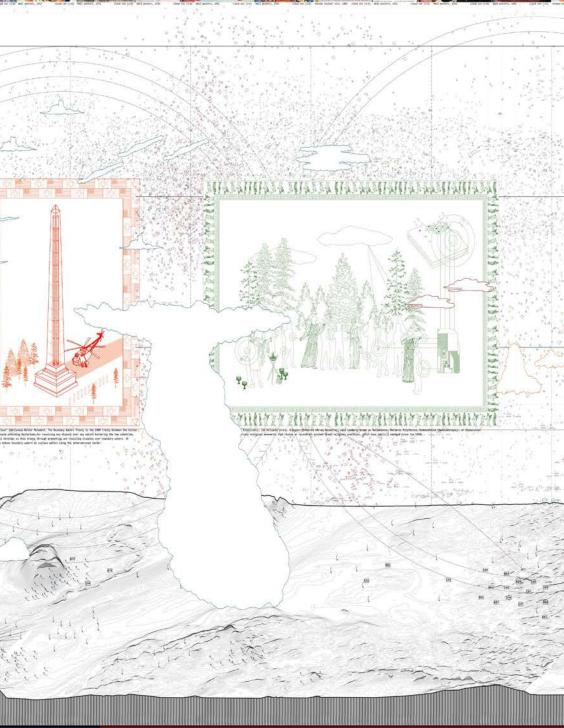






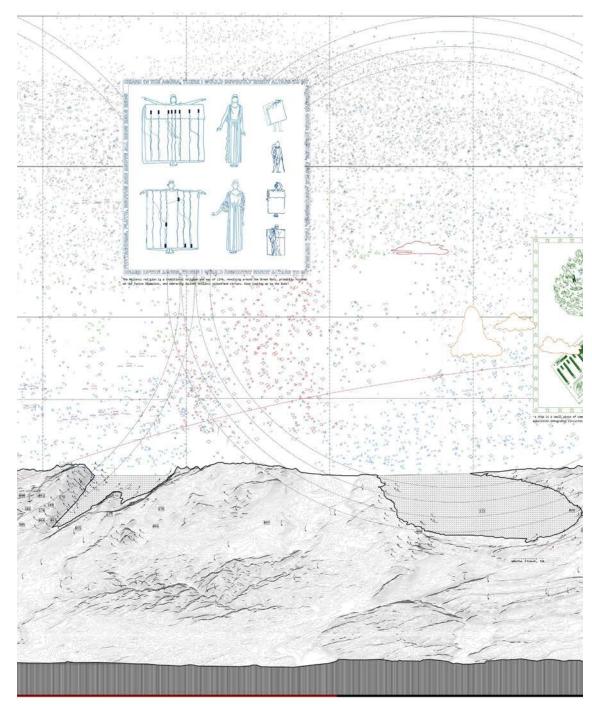
TIA operates as an institution and as such organizes conferences and some privileged seemless cruise parties along the pacific.











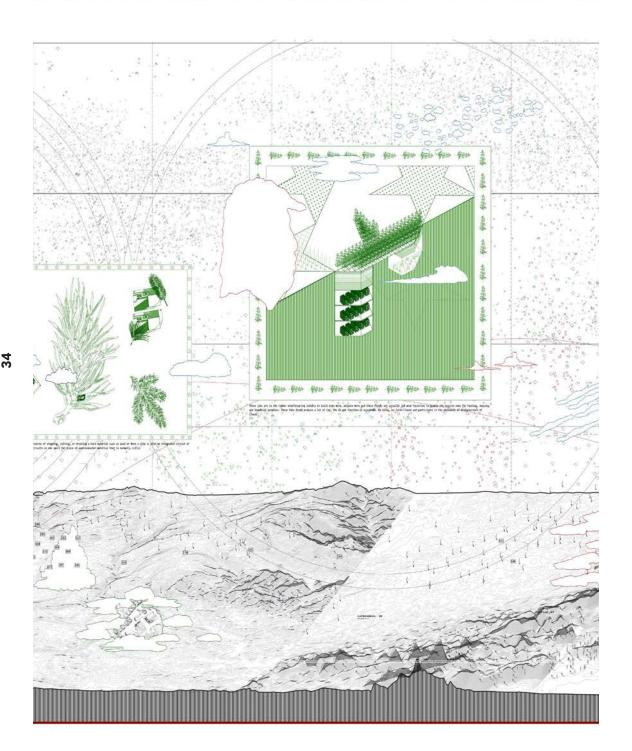


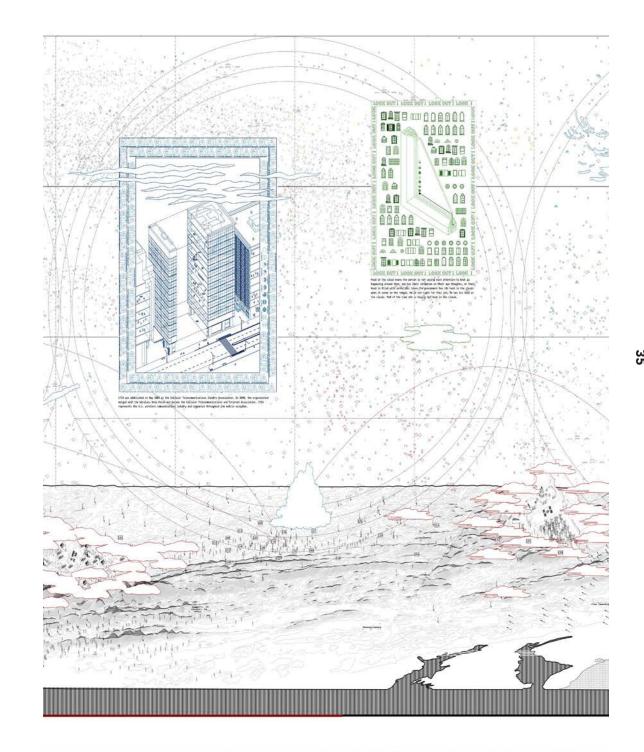


look up!

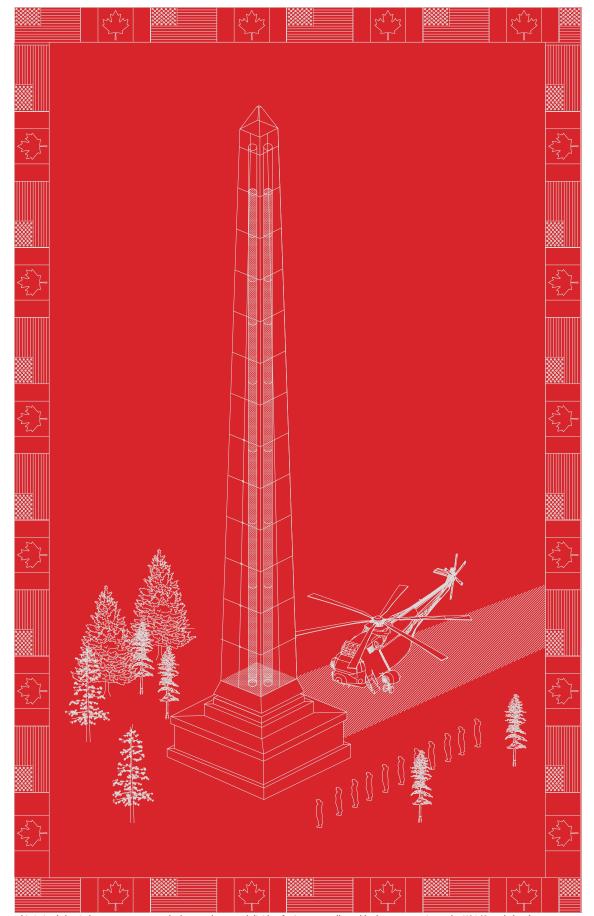






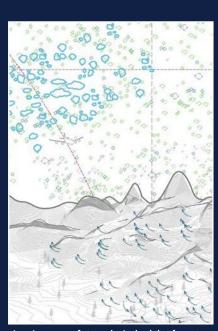






this 'cristal clear' glass monument reveals the seamless equal divide of rain water collected by large reservoirs at the USA/Canada border

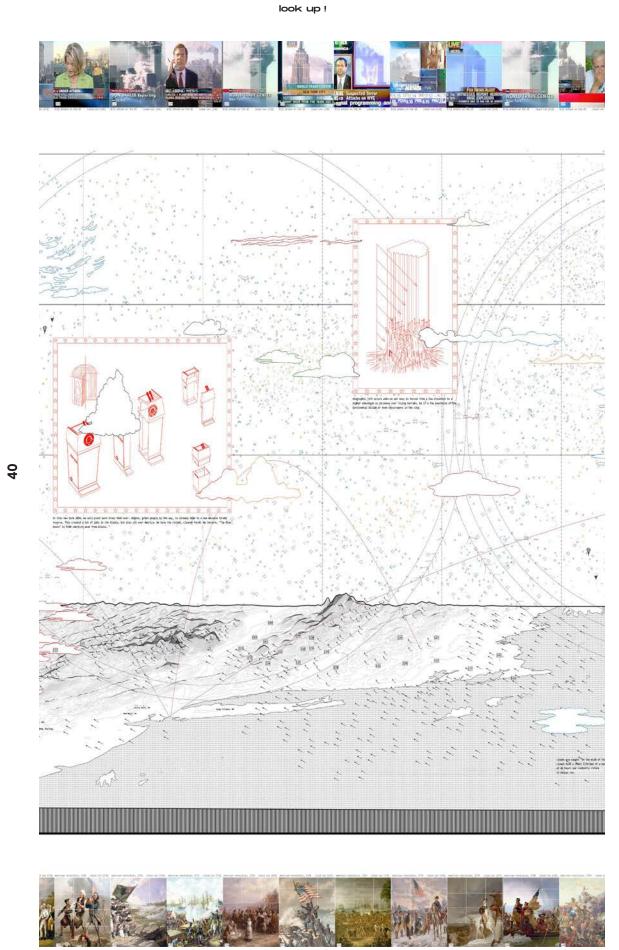


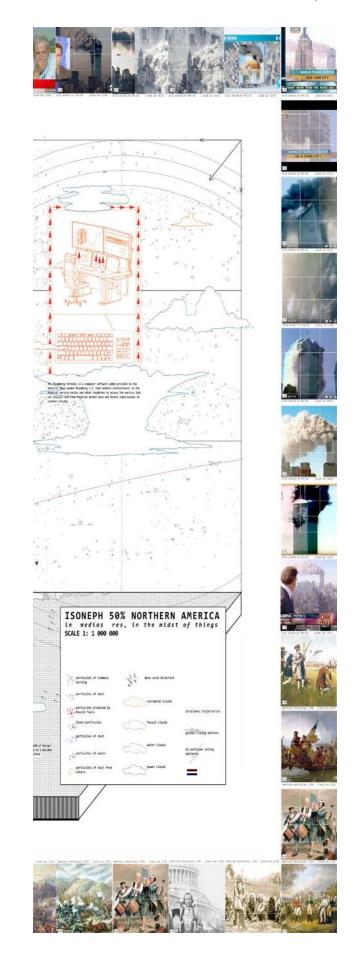


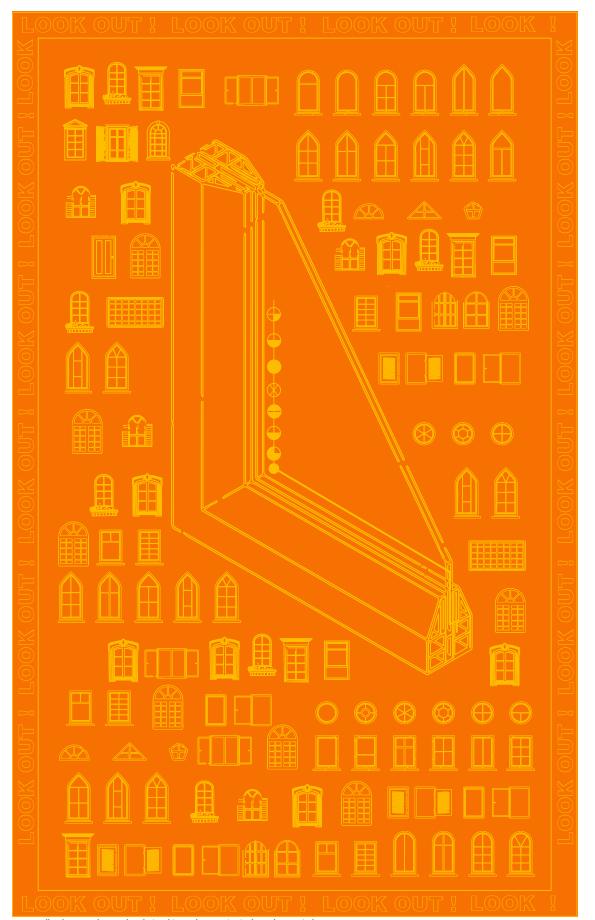
cirrus is a genus of atmospheric cloud that form at any altitude between 16,500 ft and 45,000 ft above sea level.



institutionalized forests measure CO<sub>2</sub> coverage produced by trees and constantly control their activity through underground data centers.





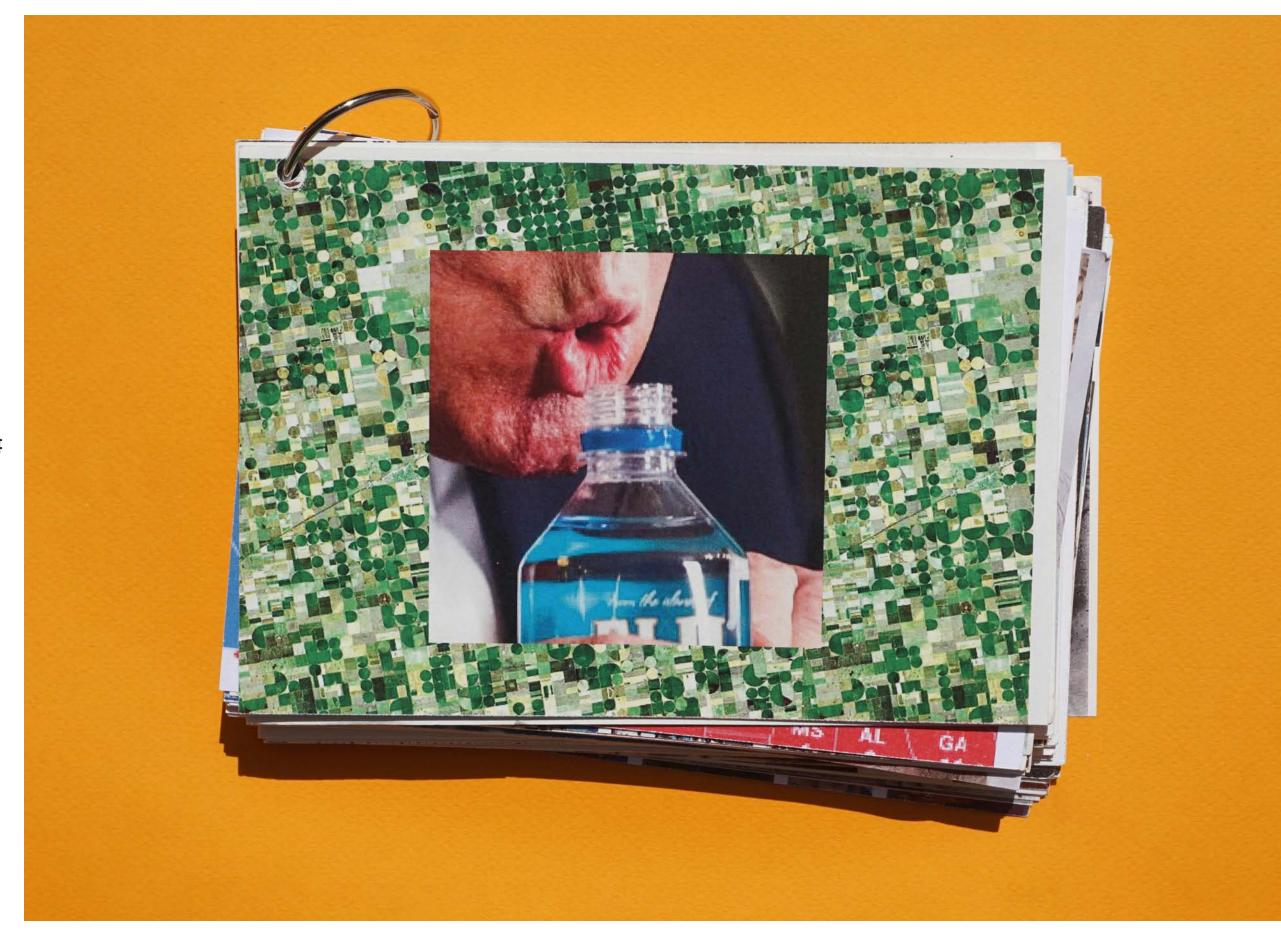








The clouds are in medias res, they are constantly 'in the midst of things' and reveal the political implications of these clouds above, under or sometimes floating in our back.





Establishing Cloud Reserves might be the only way we will be able to preserve these endangered species.

these Reserves would consist of a territory that encompasses a portion of the stratosphere as part of a National Park.



### saloua

concrete, wood, fabric, plastic and metal. each week, we had to come up with an object that fits in 12" x 12" x 12". i decided to approach this exercise as a dialogue with Saloua Raouda Choucair, a Lebanese artist and one of the first abstractionists in the Arab world. She had recently passed away and I had not gotten the chance to meet her. This speculative and poetic exercise became the lieu for a dialogue with her. Our exchanges where mostly on material quality, shapes, modernism, poetry and where shared, enhanced by the presence of my peers and professors.

C<sub>2</sub>F<sub>a</sub>, Hexafluoroethane, greenhouse gas

concrete. he dropped his zaatar manouche in-situ. saloua, did you see it?

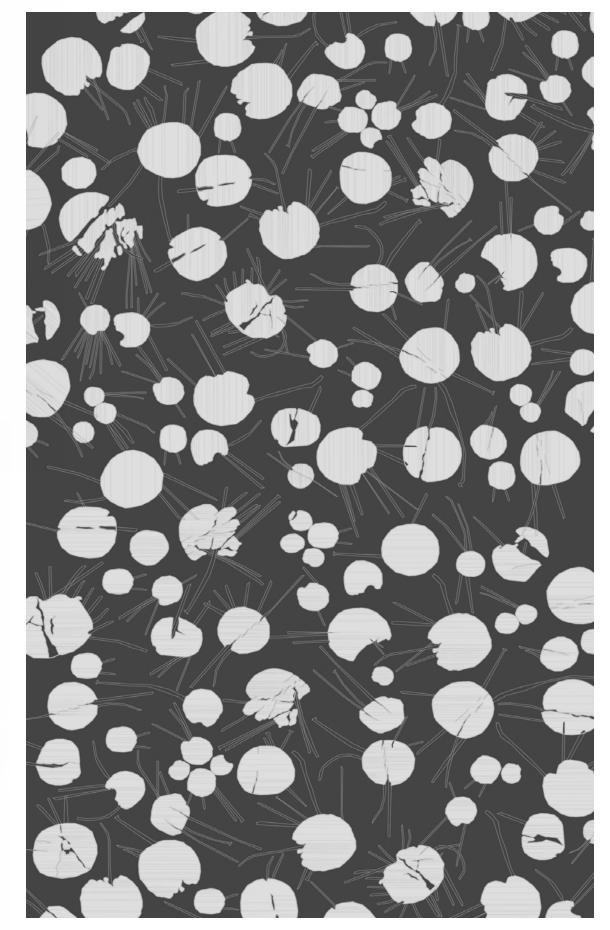
plastic. she just delivered your package. the order tt3810b5 your 'poem of nine verses', tufa stone, 1963 must have fell out of the box! funny enough, i just found these nine remaining pieces. saloua do you think its a coincidence?

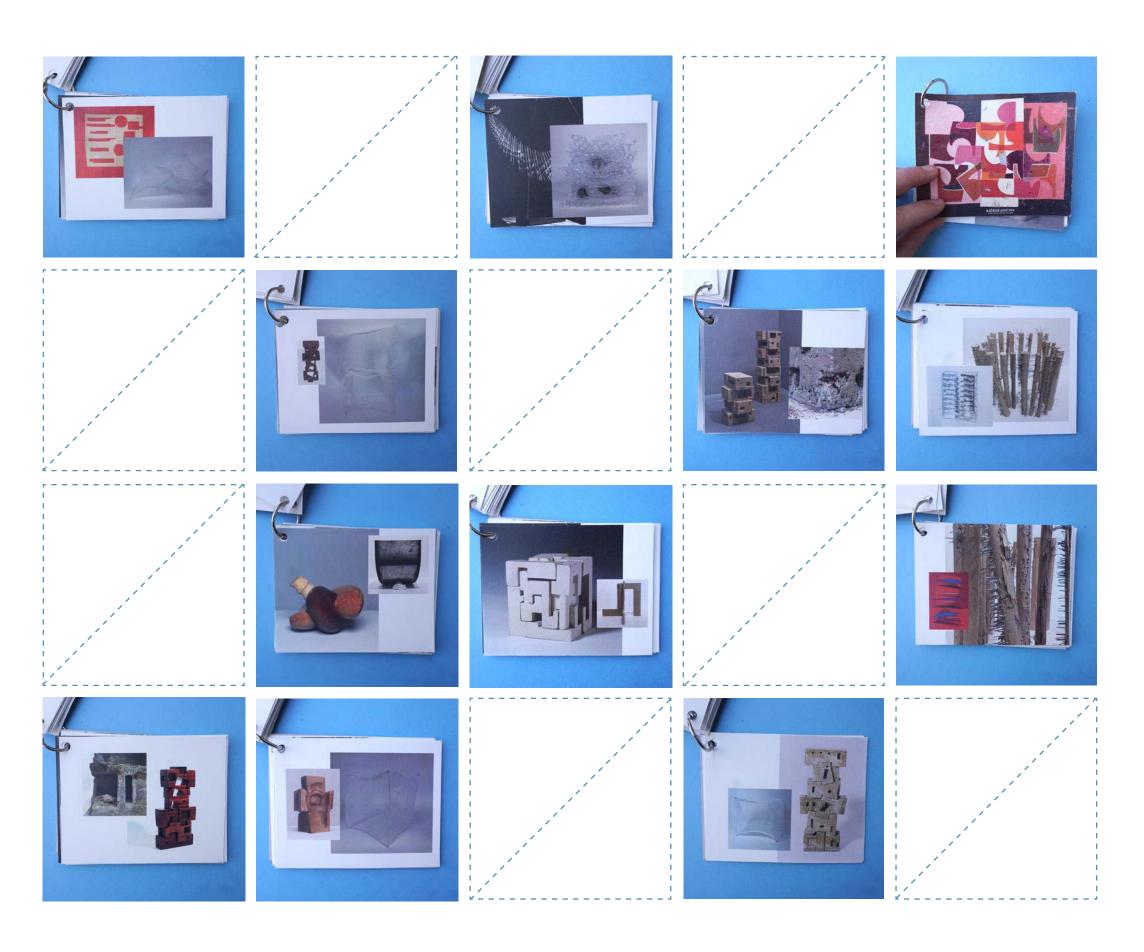
SO<sub>2</sub>, sulfure dioxide gas, produced by power plants and industrial boilers

metal. he played your favorite song, oum khaltoum's al atlal. the whole room was supplied with the melancholic chants. even the ducts were waltzing. saloua, can you still hear it? can your poems dance?

wood. i remember when that bullet went right into the pink rectangle in your painting. how many bullets can go threw my cube before it fails, saloua?

textile. you must be looking down at me, i imagine you sitting on a cloud, or between two fragile cubic clouds, smiling and absorbing what is around you. saloua, will you remember me?





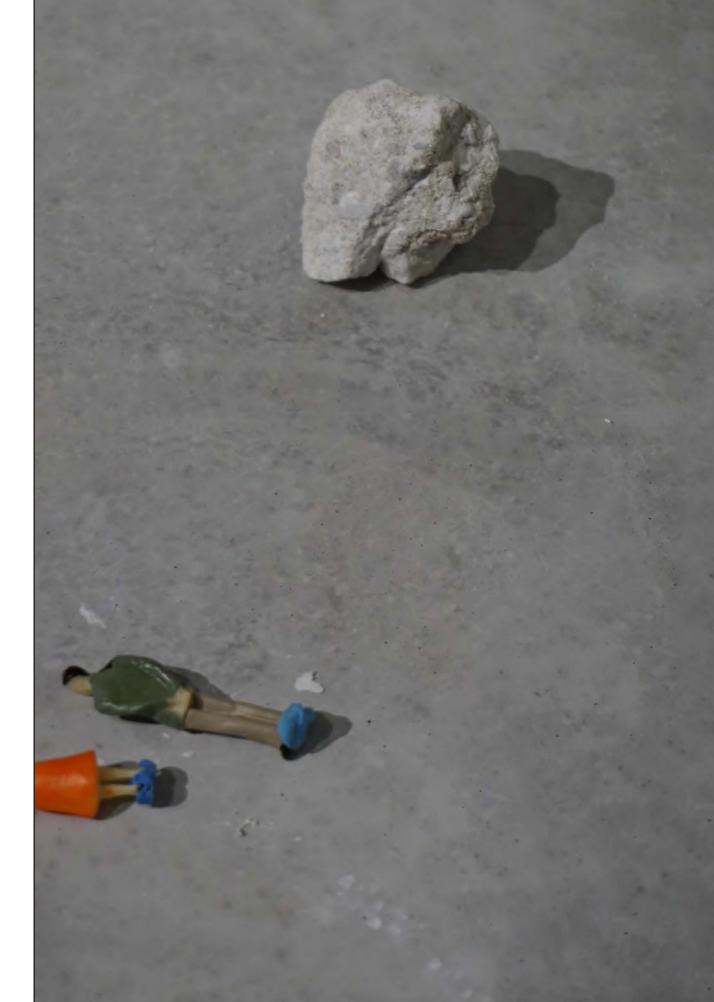
look up ! today, our only relationship to the outside is through our windows. I look up, now, I see aerosols, I see Zeus, I see alarming CO2 levels, what we see out of our windows is the context that we as architects must constantly dialogue with. when we look out, we speculate. Through drawing, we render visible particles floating around us, random hat our own eyes might not see. Spec rough architectural 'potentials' injected become tools to increase recognition shared urgent realities. our biggest hallenge today is addressing the climate crisis. look up, you see hope too! within this climate urgency, we design for even more uncertainty, for crisis as usual. Speculation can carve out spaces where the role of politics and transnational connections are visible and re-direct them towards better outcomes for people and the environment.

#### mens sana

this is a public hall on the lake of chicago, il. the studio attempts to use material research and exploration as a tool of production. this public hall is made of dust, cleaning detergent, more dust, plaster, some concrete and probably something else. the public hall produced exists as a physical reality, the very reality of the architecture lays 'with the material produced and the process of its production'. this public hall is made of a series of walls and columns, it has a large hole in the middle of the slab. this hole opens to the lake. it becomes the main hall space where people congregate . this hall is also a celebration of banality, and the grotesque of 'dusty' un-used spaces. like some halls, this hall believes in the latin saying 'mens sana in corpore sano' (a healthy mind in a healthy body). this project attempts to answer what is a healthy debate in an un-healthy space. the dust is gathered in, on, under, above the walls and slabs and is an integrated ever growing part of these living members.

dust particule migrating from a factory in the US and ending up in the Sahara Desert participating in the

N<sub>2</sub>O, nitrou oxide, interacts with water, oxygen and other chemicals in the atmosphere to form acid rain

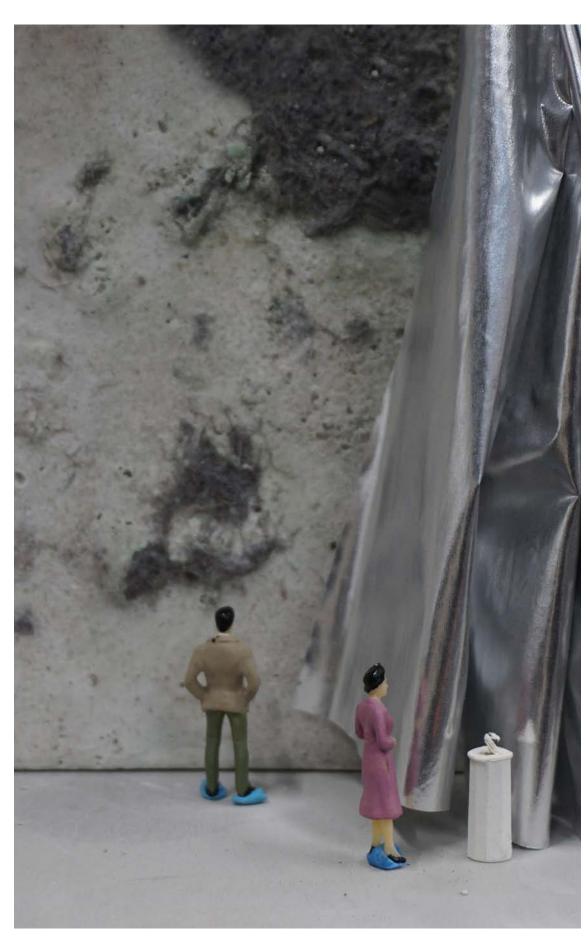




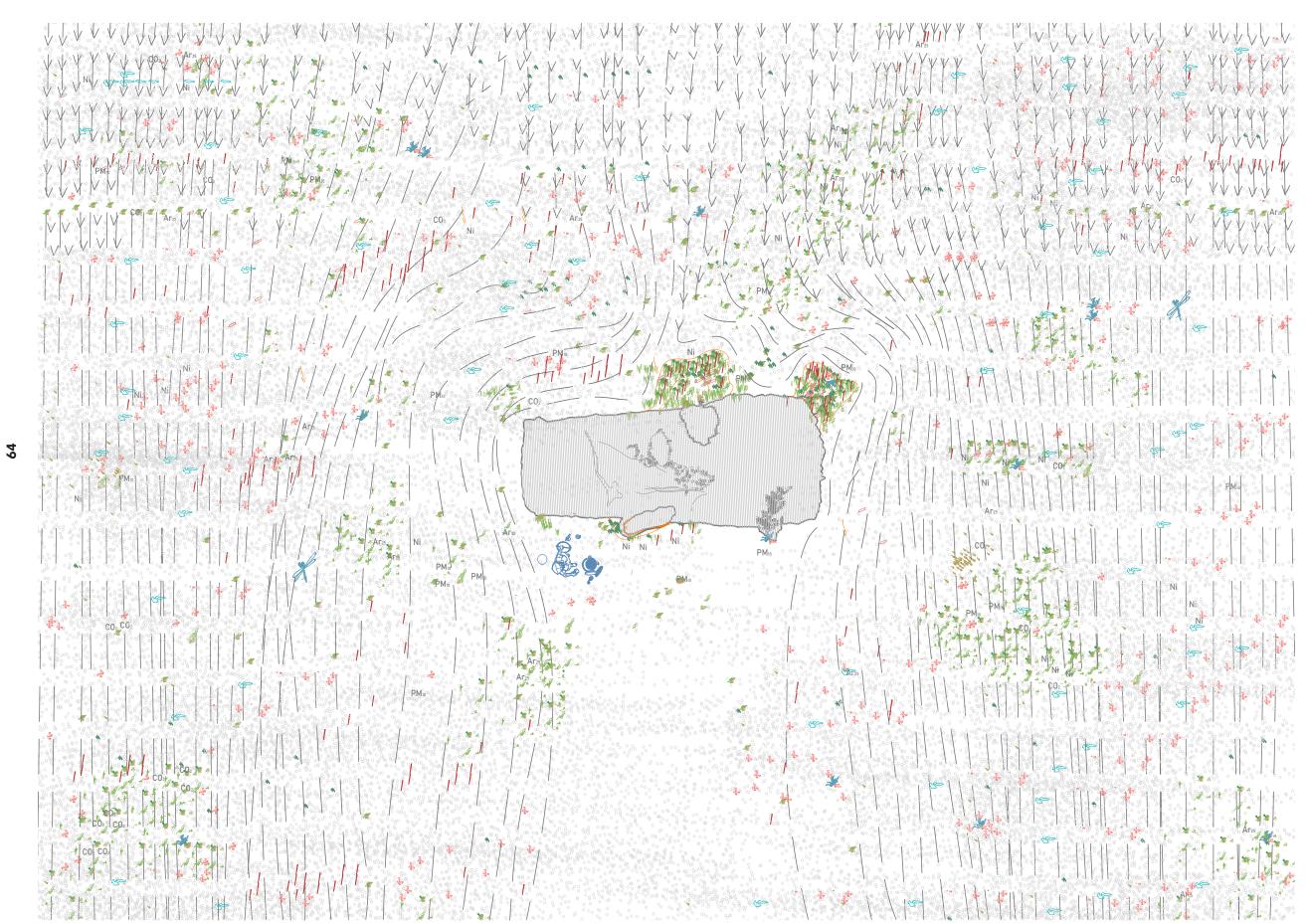




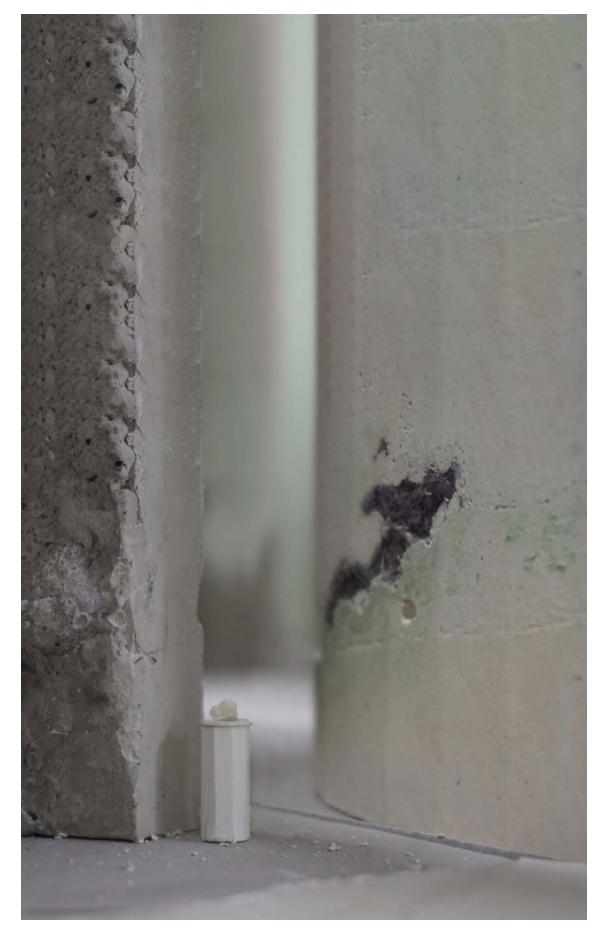






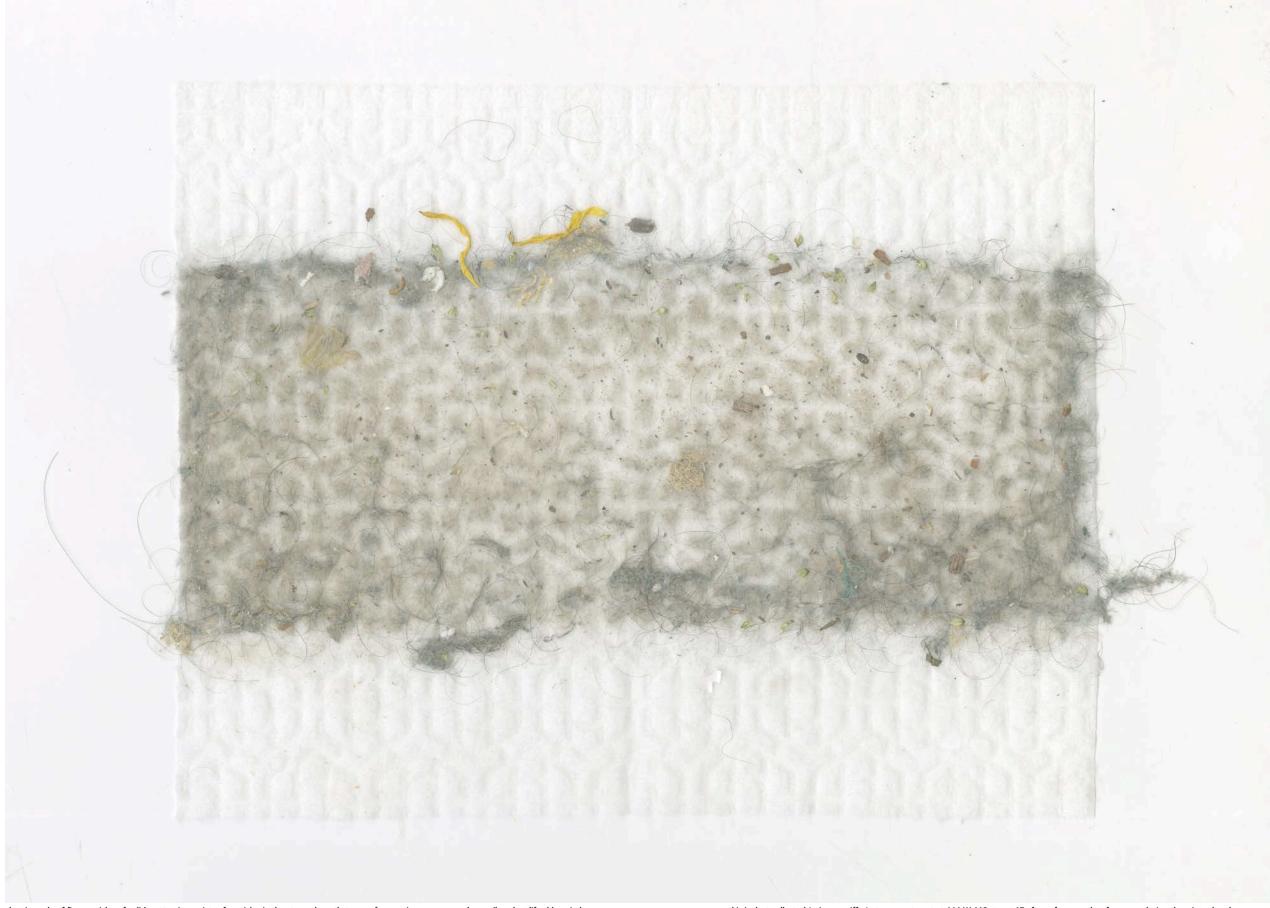


the aeolian processes, pertain to wind activity and specifically to the wind's ability to shape the surface of the Earth... and here to shape walls and slabs



Mens Sana





dust is made of fine particles of solid matter. it consists of particles in the atmosphere that come from various sources such as soil or dust lifted by wind.

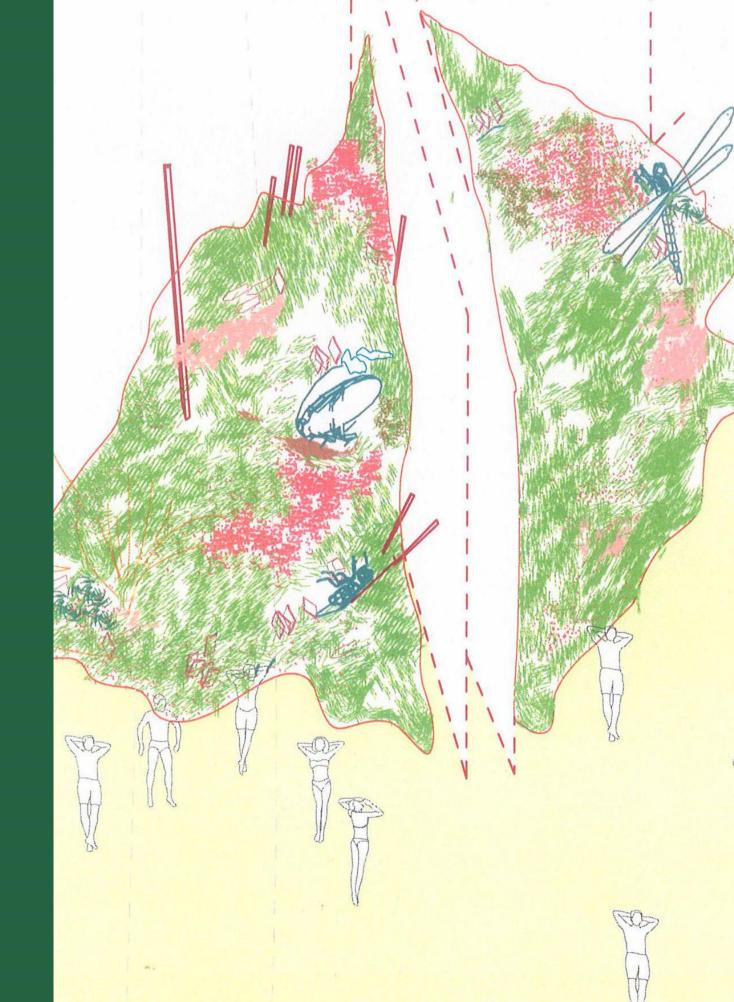


- look, look ibrahim! these are rain guns of water falling from the clouds, there is an elephant next to the people. they are playing together. here on the left there is snow because it is far from the sun, so it won't melt.











إلعب

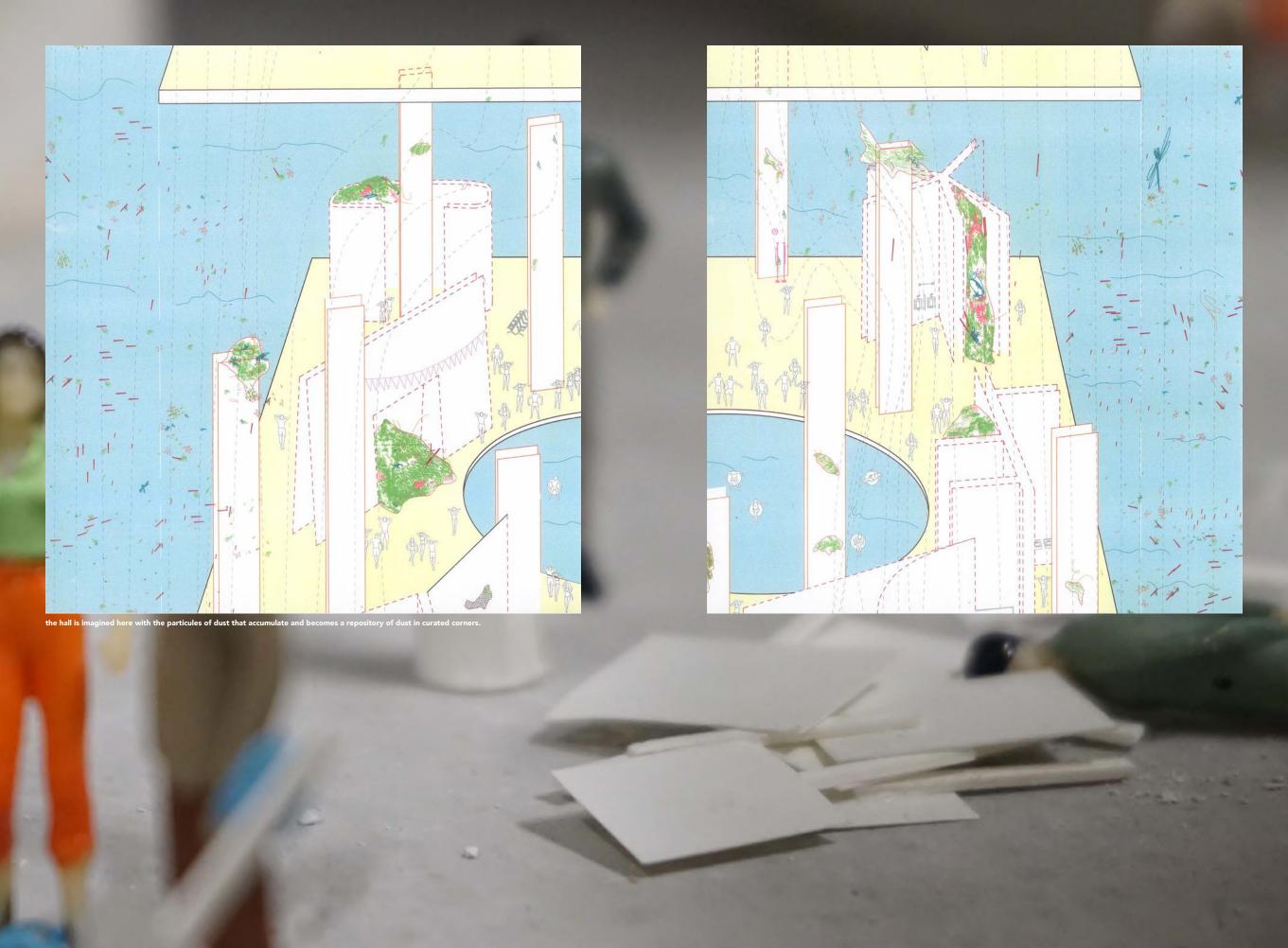


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play!



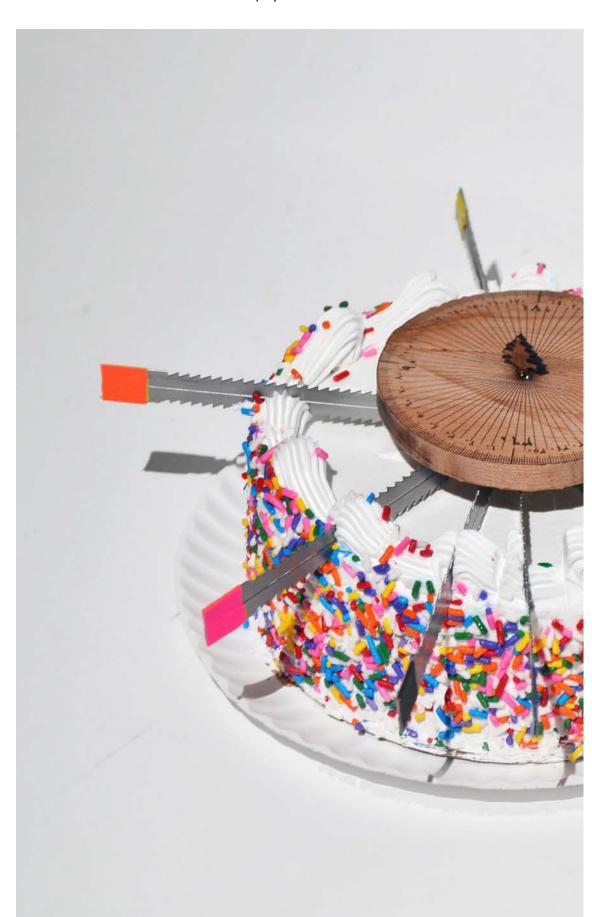


Mens Sana



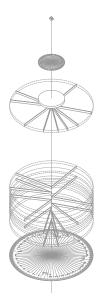
Mens Sana







إلعب



Sectarian Ecologies

Lebanon

### sectarian ecologies

Imagine cutting a small cake into 18 slices. Lebanon is amongst the most religiously diverse countries in the world, recognizing 18 religious sects (and represented in nine major sectarian parties)1. Whilst this diversity provides social richness it also embeds social delineation between Lebanon's citizens. Whilst the civil war has ostensibly ended<sup>2,</sup> today the political leaders of Lebanon's sects effectively rule over local territories. These leaders are known as 'zaims' in Arabic. The power of a zaim (mostly men<sup>3)</sup> is legitimized through his family's history and the 'performed act'4 of the Lebanese constitution which guarantees parliamentary seats and political positions to them - in effect creating a form of modern feudality. The legitimacy of a zaim is reinforced by 'sec-

Imagine cutting a small cake into 18 slices. Lebanon is amongst the most religiously diverse countries in the world, recognizing 18 religious sects (and represented in nine major sectarian parties)7. Whilst this diversity provides social richness it also embeds social delineation between Lebanon's citizens. Whilst the civil war has ostensibly ended8, today the political leaders of Lebanon's sects effectively rule over local territories. These leaders are known as 'zaims' in Arabic. The power of a zaim (mostly men9) is legit imized through his family's history and the 'performed act'10 of the Lebanese constitution which guarantees parliamentary seats and political positions to them - in effect creating a form of modern feudality. The legitimacy of a zaim is reinforced by 'sectarian difference'11. Zaim power feeds on generating stronger bonds to the sect<sup>12</sup> than the state, thus dividing the Lebanese people. A manifestation of this is the shaping of territory by the zaim in order to embed their political hegemony. Bou Akar explains this as the production of 'sectarian geographies', where an unstable regime is constantly being 'made and unmade'13.

Lebanon is reduced to a cake where zaims are fighting for the best slice. A zaim rules over his sect, his 'followers'14 and his territory. Fundamentally he is ruling over all organisms that exist in his environment. The slicing process produces sectarian ecologies and damages the environment of different areas to varying extents. This research attempts to render visible these disseminated environmental damages along sectarian lines. Ecological discourse in Lebanon is almost nonexistent and only surfaces when zaims enter conflict over the exploitation of a forest, river or mountaintop. Environmental laws in Lebanon are extremely limited and what exists suffer from lack of enforcement. Into this void

Sectarian Ecologies

Lebanon

<sup>&</sup>lt;sup>1</sup> Cammett, Melani. Compassionate Communalism: Welfare and Sectarianism in Lebanon. Ithaca, NY: Cornell University Press, (2014)
<sup>2</sup> Krayem, Hasan. "The Lebanese Civil War and the Taif Agreement." In Conflict Resolution in the Arab World, edited by Paul Salem, 411–35. Beirut: American University of Beirut, (1997)

Zaim are almost all men and as such this research will use the masculine pronoun to designate him.
 Arendt, Hannah, "The Decline of the Nation State and the End of the Rights of Man," in The Origins of Totalitarianism (San Diego: Harcourt Brace & Company, 267 - 302. (1966)

<sup>&</sup>lt;sup>1</sup> Cammett, Melani. Compassionate Communalism: Welfare and Sectarianism in Lebanon. Ithaca, NY: Cornell University Press, (2014)

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<sup>6</sup> Wehbe, Mohamad. "Living Sectarianism: Lebanon's Demographic Cold War." Al-Akhbar English, September 5, (2011)

<sup>&</sup>lt;sup>7</sup> Cammett, Melani. Compassionate Communalism: Welfare and Sectarianism in Lebanon. Ithaca, NY: Cornell University

Fire 3, (2014) Krayem, Hasan. "The Lebanese Civil War and the Taif Agreement." In Conflict Resolution in the Arab World, edited by Paul Salem, 411–35. Beirut: American University of Beirut, (1997)

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<sup>&</sup>lt;sup>10</sup> Arendt, Hannah, "The Decline of the Nation State and the End of the Rig<sup>h</sup>ts of Man," in The Origins of Totalitarianism (San Diego: Harcourt Brace & Company, 267 - 302. (1966)

<sup>11</sup> Bou Akar, Hiba. For the War Yet to Come Planning Beiruts Frontiers. Stanford University Press, (2018).

<sup>&</sup>lt;sup>12</sup> Wehbe, Mohamad. "Living Sectarianism: Lebanon's Demographic Cold War." Al-Akhbar English, September 5, (2011)

<sup>&</sup>lt;sup>14</sup> Edmond Rabbath, La Formation Historique du Liban Politique et Constitutionnel [The historical formation of Lebanon, political and constitutional] (Beirut: L'Université Libanaise, (1986)

The first slice is a wedding venue in Christian northern Lebanon which displays how sectarian drivers have facilitated severe environmental damage on a river ecosystem. The second slice is a private rest house and resort abutting a nature reserve in Shia southern Lebanon. Here, the ostensible environmental benefit of a new nature reserve appears undermined by the sectarian political objectives of the zaim who created it. The two examples provide different insights into the intersection and interdependencies of sectarian politics in Lebanon today and its impacts on Lebanon's ecosystems. Yet despite their differences, both illuminate the impact of sectarianism on Lebanon's ecosystem – often to the detriment of the Lebanese state and people.

Case study #1 presents a slice of the Lebanese cake where sectarianism damages the environment through a wedding venue.



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Weddings are a foundation of Lebanese society and economy. Couples are expected to have large weddings and parties with guest lists of hundreds. It is often the great-

est single expense that any Lebanese couple will bear, with people taking out 'wedding mortgages' 26. The cheapest of weddings generally cost at least \$20,000, which is above the average annual salary of many public sector workers such as teachers and soldiers27. In this way weddings act as a major Lebanese industry, which produce their own environmental externalities. There is pressure and expectation for weddings to be lavish and extravagant, to reflect well on the generosity and success of the couple and their families. Marriages are also an expression and reinforcement of sectarianism in Lebanon. Civil marriages are not possible in Lebanese law. All marriages must be performed by a religious authority, and therefore can only take place between a couple of the same sect. Those wishing to have a civil marriage must marry outside the country. In cases of interfaith relationships, either partner must convert to the faith of the other in order to marry. This sectarian nature of weddings supports Lebanon's zaim embed their control. Weddings guests are primarily from the same sect as the newlyweds, and weddings can provide ample opportunity for building networks within the sect – this can include making business deals or finding your future husband or wife. Lebanon's zaims often sponsor weddings to reinforce their loyalty, and gratitude to the sect.<sup>28</sup>

The Legend is a prime wedding venue situated along the Nahr el Kalb river in the majority Christian Kesrouan district

north of Beirut, Lebanon. It is situated The Legend is a prime wedding venue situated along the Nahr el Kalb river in the majority Christian Kesrouan district north of Beirut, Lebanon. It is situated at the end of a gorge of before the river meets the Mediterranean

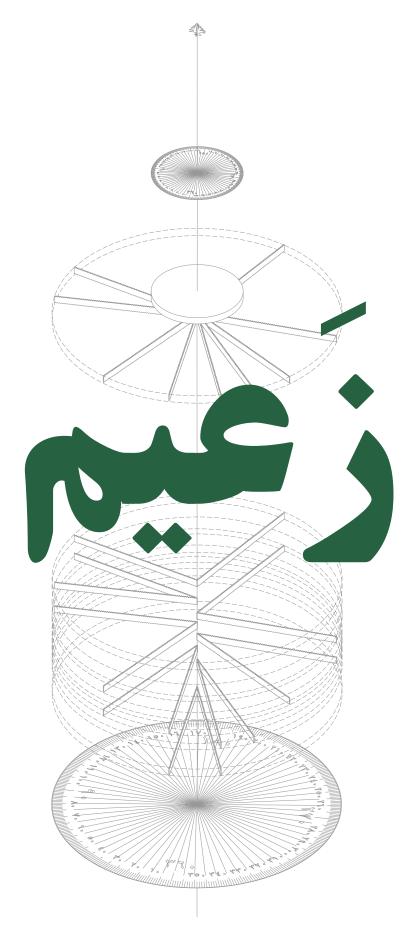


This area is of historical importance<sup>4</sup>. On the hills nearby a series of commemorative stelas have been carved into the mountain. The oldest are Roman and Greek inscriptions. The Legend venue abuts a Roman bridge and faces a Roman aqueduct. The Legend's website quotes Julius Caesar's 'I came, I saw, I conquered'. The venue, and the sectarian

<sup>1 &#</sup>x27;What do I get?', Bank Audi Website https://www.bankaudi.com.lb/personal-banking/loans/home-loans/home-loan-in-usd. (2016)

<sup>&</sup>lt;sup>3</sup> Hubbard, Ben 'Here Comes the Bride. And the Bride. And the Bride. Mass Weddings Boom in Lebanon', New York Times, 15 Sept 2019. https://www.nytimes.com/2019/09/15/world/middleeast/lebanon-weddings.html

<sup>&</sup>lt;sup>4</sup> 'The stelae by the river were listed in the Memory of the World UNESCO initiative'. UNESCO Website, 2005 http://www.unesco.org/new/en/communication-and-information/flagship-project-activities/memory-of-the-world/register/full-list-of-registered-heritage/registered-heritage-page-2/commemorative-stela-of-nahr-el-kalb-mount-lebanon/



Sectarian Ecologies



#### هد المجرورينية اللبت النية مدارة المسارجية والمنترين مديرية الشزون السياسية والقصلية استمارة معلومات شخصية 1-البيانات الشخصية: ا تاريخ البيلاد | 15-24-95 | Date of birth الاسم والشهرة 1-1 me and Surname عنوان السكن المدالي عنوان السكن المدالي Current address مكان الولادة و الثنيد Birth & registry 614 W 113st Apt 1F 10025 NY, NY ا فيات الخابري أو الو الساب ( 1347 453 0434 + 1847-170623743 + 1847 453 0434 المحالة المحالة المحالة ( 1347 453 0434 المحالة Arrival date to the country of residence 2- مطومات حول الاهل او الوصى في لينان: الرصي في لينان الإهل الم الرصي في لينان المسلم في لينان الرصيل Information about the parents or guardian in tome address Lebanon Maher Kombarji 03-604288 Contact numbers عنوان السكن Itani Bldg - 7th Floor Raouche - Beirut - Lebanon Home address عنوان العمل Work address Itani Bldg-7th Floor Raouche - Beirut - Lebanon الإشخاص الذين يجب الإنصال بهم عند الحالات الطارنة Name أرقام الاتصال 03-604288 Person to contact in case of emergency Contact numbers عنوان السكن Home address Itani Bldg - 7th Floor Raouche - Beirut - Lebanon 3-الوضع الصحى: ایة امراض مزمنة وایة انویة) Any chronic انویة) diseases or medication) معلومات حول التأمين الصحي Information about the medical insurance medical insurance

a zaim is a political leader who provides both general and personal services. the leader's power is based on the loyalty of his clientele and the relationship held with the state or central authorities. the style of 'leadership' is personal rather than party-based. Such a leader may have a religious or community base or transcend confessional boundaries by having a local or geographic base.

zaim are particularly pronent in Lebanon. this is a document asking students that wish to return back 'home' during COVID-19, to complete this document as soon as possible. states collecting personal information that is later stored in data centers and used by the zaims for electoral favors.

politics it represents, has truly conquered the ecosystem surrounding it, causing great damage. The venue itself is extensive and operates year-round. Yet the degree of Nahr

el Kalb's toxicity was made clear when newspapers reported the water had turned luminous green in 2018 and sea and animal life has effectively disappeared from the area. People no longer swim in the sea nearby with swimming



pools next to beaches being constructed instead. In 2015 Lebanon ran out of landfill space, leading to trash mountains appearing around the country, including in the Nahr el Kelb valley.5 A UNDP report6 on the impact of climate change on Lebanon highlights that most Lebanese rivers are tending towards a reduction in groundwater levels. For Nahr el Kalb the river shrunk by over 7,000 cubic meters in 2003. The Legend is actively participating in the slow desiccation process of the river. One way it has done this is through providing constructed special 'river stages' for weddings which temporarily dam the river on one end so that weddings can be conducted around the Roman bridge, and provide more space for the wedding. Importantly, it also disrupted the local ecosystem, causing desiccation of lands and reducing its arability. It also affects the growth of riparian plants7 in this area. The venue has also imported several non-native plants such as the olive trees or Cycas

revoluta palm trees along the venue's edge facing the river, giving an illusion of lushness for wedding guests, when in reality fauna is significantly reduced and the river flow slight. Wealthy Lebanese are able to fill this gap by having access to a generator, often supplied by



companies affiliated with the local zaim. In this case, these two generators produce around 7725 lb of carbon dioxide per night.8 This amount of carbon dioxide release is almost equivalent to a Boeing 747 flight from New York to Washington DC. The activities in a Lebanese wedding also play a significant role in contributing to CO2 release. These carbon dioxide emissions can be revealing, similar to 'a fingerprint on a crime' as explained by Lahoud.9 A central ceremonial

practice during these weddings is the orchestrated arrival of guests. The Legend is reached by car, and upon arrival the guests are met by valets who park the guests' cars. But the guest will need to wait in their car for an average of ten minutes until the valet takes their car. In this ten minutes, a car produces on average 1 pound of carbon dioxide<sup>10</sup>. If there are 400 cars (900 people invited approximately) then during the arrival process 4000pounds of carbon dioxide is produced at this one location. Once through this process the guests are met by the families of the groom and bride and then move into the cocktail area where networking starts. These operational processes therefore produce new sectarian networks, small talks and carbon dioxide. Leftover food



560 guests for approximatively 500 guests invited'. The heating and preparation of these dishes, as well as the containment of such large quantities in plastic containers, then their transportation to and from the wedding venue before later disposing of them creates large wastage and CO2. If requested, The Legend provides 'optional additional services to be paid separately'. This 'extra' feature is widely taken up by the wedding organizers as Lebanese culture is noted for its passion

for 'extra' and excessiveness, when it comes to display of wealth and power. 'Of course, I want it all, with all the extra'<sup>11</sup>, said Kareem a young Lebanese fiancé preparing for his wedding at The Legend. With this symptomatic 'extra', comes the 'extra' pressure on the ecosystems.

Alongside direct damage to the river and the production of CO2 emissions, weddings at The Legend produce significant sound and light pollution which have damaged the local ecosystem. This noise pollution is detrimental to the slowly inexistent wildlife of the river. As such, acoustic overexposure interferes with the 'normal activities' 12 of animals and cause imbalance in communication, reproduction and navigation of certain native species. The Silene reuteriana (Boiss) for instance is a prevalent species in Mount Lebanon that flourishes on sandstone in middle mountain regions 13. The growth of such native species depends on pollination by animals who have now left the area due to the noise. Migrating birds, some of which feed mostly at

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<sup>&</sup>lt;sup>9</sup> Lahoud, Adrian 'Scale as Problem, Architecture as Trap' in "Climate Change and the Figuration of Community" in Climates: Architectures and the Planetary Imaginary, ed. James Graham. New York and Zurich: Columbia Books on Architecture and the City and Lars Müller Publishers, (2016)

<sup>11</sup> Interview by author

<sup>&</sup>lt;sup>12</sup> Barton, Brandon. 'Testing the AC/DC hypothesis: Rock and roll is noise pollution and weakens a trophic cascade'. Ecology and Evolution. (2018)

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night, might have to change direction<sup>14</sup>, as some nocturnal species can no longer feed in these areas. A Lebanese wedding is not complete without the grandiose finale of fireworks. The Legend's contract explains that only 'Volcano and Waterfalls: "Pyrotechnics" fireworks are allowed and they are 'exclusively' provided by the Christian-owned J&J Company. In the contract, Article 4 is entitled 'Climate Change'. In it, The Legend owners explain that under no

> oxygen atoms. It occurs naturally in Earth's atmosphere as a trace as. Carbon dioxide contributes gas. Carbon dioxide contributes to air pollution in its role in the greenhouse effect. Carbon diox-ide traps radiation at ground lev-el, creating ground-level ozone.

This atmospheric layer prevents the earth from cooling at night. ... Oceans absorb carbon dioxide

from the atmosphere. Most of this air pollution we cause results

from the burning of fossil fuels, such as coal, oil, natural gas, and gasoline to produce electricity

and power our vehicles. Carbon dioxide (CO2) is a good indicator of how much fossil fuel is burned

and emitted as a result. Carbon dioxide is a good indicator of how much fossil fuel is burned

Carbon dioxide is a colorless gas with a density about 60% higher than that of dry air. Carbon di-oxide consists of a carbon atom covalently double bonded to two weather change.' Cautiously, it is true that they are not to be blamed for the heavy rains experienced during Samir and Patricia's 'fairytale unique breathtaking wedding' ceremony ('at 15\$ per sqm for the tent and 10\$ for the flooring' the wedding kept going). Nonetheless, it appears that The Legend Venue will have to take some responsibility for the long-term 'climate change' in the atmosphere and ecosystems of the area. The responsibility of these damages are shared, distributed and are a result of larger sectarian political impli-

cations. These weddings operate as part of larger 'treadmill of production' consumer-oriented societies and largely 'accelerate the pace of ecocide'. They stand as ecosystems 'of evidence'15 by revealing the constellation of actors involved. If a slice of the cake is divided here, it is cut again into smaller bites and redistributed to local Christian entrepreneurs. This power-play between the zaim, the wedding venue owner and the services involved demonstrate the spatial decoupage and interconnections of the sectarian political order. One that is constantly 'reconfigured and reproduced<sup>'16</sup> as ecocides in local ecosystems.

Case study #2 presents a different slice of the Lebanese cake where sectarianism again impacts on the environment, but with claims of environmental protection. Tyre is Lebanon's fifth largest city. It is located 52 miles south of Beirut on the coast. It is an ancient Phoenician sea port, with extensive Roman ruins. Tyre hosts one of the only 'public' beaches in Lebanon, and despite trash littering the water, Beirutis regularly flock to its beaches given its seawater is considered relatively 'clean'. Tyre has undergone a transformation in its political landscape since the end of the Lebanese Civil War Today Tyre is predominantly a Shia city and is the effective

<sup>15</sup> Keenan, Thomas, "Mobilizing Shame," South Atlantic Quarterly 103, no. 2<sup>7</sup>3 (Spring/Summer 2004): 435 16 Bou Akar (2018)

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capital of the Shia 'Amal' political party<sup>17</sup>.



The city is bathed in green flags, not intended to reflect support for the environmental, but rather to represent the Amal party. Walls are covered with pictures of Amal's zaim, Nabih Berri, as well as "martyrs" from Lebanon's many con-



flicts with Israel. Berri is the Speaker of the Lebanese Parliament, the most senior position for Shia since the role came into existence following the Taif Accord which divided political power between Lebanon's sects in 1992. Tyre's physical

landscape has also changed to reflect this new political reality. The wife of Nabih Berri, Randa Berri, has played a prime role in the city's development via her real estate development company. For example, a contract to build a section of the coastal motorway was 'awarded to' Randa Berri's firm to a value of over \$100 million in excess of construction costs. Yet one of the clearest symbols of the 'zaim sectarianism' of post-war Tyre is the construction of the Tyre Rest House & Resort and the corresponding creation of a

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serve and thereby offers extra protection for the reserve. In Tyre, the buffer zone is in a particularly polluting 25 form of a parking area that attaches to the non-permanent beach clubs that serve beverages and food to visitors. The parking is also used by some visitors of the Tyre Rest House & Resort. The area does not operate as an effective "buffer" for the nature reserve. Further, the actual environmental benefits of the creation of the TCNR are questionable. One of the key purposes of TCNR is to provide a nesting site

> for the endangered loggerhead and green sea turtles. Yet local conservationists highlight that the segregated space dedicated for this is too small26, and pales in comparison to the space dedicated for the public beach with taxable beach

tions continue to struggle. Local conservationists claim that a larger increase to turtle populations came when Israel invaded in 200627 and TCNR was not accessible to the public. Similarly, to the case of The Legend, the proximity of a prime ecological site to a private property is not coincidence. The manifestation of the sectarian zaim allows for such overlaps and uses the seemingly pristine 'picturesque' sandy beach, seafront, river or lake as a backdrop to business activities, a land to exploit and a visual trophy to his

These venues have entered and disrupted A buffer zone is generally a zon- al area that lies between two or local ecologies, whether it is on a beachfront, in a forest or on a mountain causing irreparable damage. And yet this research has also sought to show that the solution is not the creation of protected environmental spaces if these are based on sectarian geographies, as is the case in TCNR. At present the zaim's approach continues to be 'let them eat cake') the people are clear that they want a new governance, based on an

al area that lies between two or more areas (often, but not neces-sarily, countries), but depending on the type of buffer zone, it may serve to separate regions or con-join them. Common types of buf-fer zones are demilitarized zones, border zones and certain restric-tive assement zones and green border zones and certain restric-tive easement zones and green belts. Such zones may be, but not netcessarily, comprised by a sover-eign state, forming a buffer state. Buffer zones have various purpos-es, political or otherwise. They can be set up to prevent violence, protect the environment, shield residential and commercial zones from industrial accidents or nat-ural disasters. or isolate prisons. ural disasters, or isolate prisons, and have uses in several other scenarios. Buffer zones often rescenarios. Butter zones often re-sult in large uninhabited regions that are themselves noteworthy in many increasingly developed or crowded parts of the world. A buffer zone is intended to avert.

end to corruption. These sectarian ecologies present new challenges Lebanon's ecological order, yet the democratization of space may provide opportunities for better relationships to the environment and an end to sectarian ecocide. This research reveals how these sectarian ecologies have produced unsustainable local regimes and ecosystems.

#### **Bbliography**

Arendt, Hannah, "The Decline of the Nation State and the End of the Rights of Man," in The Origins of Totalitarianism (San Diego: Harcourt Brace & Company, 1966 Barton, Brandon. 'Testing the AC/DC hypothesis: Rock and roll is noise pollution and weakens a trophic cascade'. Ecology and Evolution. 2018

Bridle, James. New Dark Age: Technology and the End of the Future. London, New

York: Verso Books, 2018.

Brock, Alan, Pyrotechnics: the history and art of firework making, London, D. O'Connor,

Bobbette, Adam. "We All Live in the Wrong Place: Thinking Beyond Resilience in Volatile Environments", Material Culture ,2017.

Broswimmer, Franz. Ecocide: A Short History of the Mass Extinction of Species. Pluto

Bou Akar, Hiba. For the War Yet to Come Planning Beiruts Frontiers. Stanford University Press, 2018.

Cammett, Melani. Compassionate Communalism: Welfare and Sectarianism in Lebanon. Ithaca, NY: Cornell University Press, 2014

Cobban, Helena. "The Growth of Shi'i Power in Lebanon and its Implications for the Fu-ture." In Shi'ism and Social Protest, edited by Juan Ricardo Cole and Nikki R. Keddie, 137-55. Yale University Press, 1986.

Dudley, Joseph P and Michael H. Woodford. 'Bioweapons, Biodiversity, and Ecocide: Potential Effects of Biological Weapons on Biological Diversity'. BioScience, vol. 52, no.

Edmond Rabbath, La Formation Historique du Liban Politique et Constitutionnel [The historical formation of Lebanon, political and constitutional, Beirut: L'Université Liba-

Fawaz, Mona, Mona Harb, and Ahmad Gharbieh. "Living Beirut's Security Zones: An In-vestigation of the Modalities and Practice of Urban Security." City & Society 24, no.

Gil, Teresa 'Conserving Wild Plants in the South and East Mediterranean Region' IUCN Center for Mediterranean, 2018

Hany El Shaer; Ms. Lara Samaha; Ghassan Jaradi, ', Lebanese Ministry of Environment.

Higgins, Polly. Eradicating Ecocide. Shepheard-Walwyn, 2016.
Keenan, Thomas, "Mobilizing Shame," South Atlantic Quarterly 103, no. 2/3 (Spring/ Summer 2004): 435

Krayem, Hasan. "The Lebanese Civil War and the Taif Agreement." In Conflict Resolution in the Arab World, edited by Paul Salem, 411-35. Beirut: American University of Beirut,

Latour, Bruno. Down to Earth: Politics in the New Climatic Regime. Cambridge: Polity

Margules, C. R.; Pressey, R. L, 'Systematic conservation planning' 2011.

Moreno, Jean, 'Parks in Peril: People, Politics and Protected Areas'. The Nature Conservation vancy Island Press, 1998.

Raja, Rao Satellite Communication: Concepts And Applications. 2013

Silvermann, Isabelle 'The Health, Environmental and Economic Impacts of Engine Idling'

Wehbe, Mohamad. "Living Sectarianism: Lebanon's Demographic Cold War." 2011
Woodroffe, Rosie; Ginsberg, Joshua R. 'Edge Effects and the Extinction of Populations
Inside Protected Areas', Science 280, 2005

Yusri Hazran, "How Elites Can Maintain Their Power in the Middle East: The Junblat Family as a Case Study," Middle Eastern Studies 51, no. 3, 2015.

Climate Change and the Figuration of Community" in Climates: Architectures and the

Planetary Imaginary, ed. James Graham. New York and Zurich: Columbia Books on Architecture and the City and Lars Müller Publishers, 2016.

#### Webography

Azar May 'Amwaj President Statement', The Daily Star, 2013 http://www1.dailystar.com. lb/ArticlePrint.aspx?id=22923&mode=print

Gauger, Anja, 'The Ecocide Project', sas-space.sas.ac.uk. 2018 https://sas-space.sas. ac.uk/4830/1/Ecocide\_research\_report\_19\_July\_13.pdf
Hubbard, Ben 'Here Comes the Bride. And the Bride. And the Bride. Mass Weddings Boom

in Lebanon', New York Times, 15 Sept 2019. https://www.nytimes.com/2019/09/15/ world/middleeast/lebanon-weddings.htm

Moussalem, Manal. Post-conflict oil spill clean-up project, 2008 http://www.undp.org.lb/ ProjectFactSheet/projectDetail.cfm?projectId=54 Monbiot, George 'The Destruction of the Earth', The Guardian, 28 March 2019 https://

www.theguardian.com/commentisfree/2019/mar/28/destruction-earth-crime-polly-higgins-ecocide-george-monbiot Yee, Vivian 'Lebanon Protests Unite Sects in Demanding New Government' New York

Times, 28 Oct 2019 https://www.nytimes.com/2019/10/23/world/middleeast/lebanon-protests.html

Yee, Vivian 'To Make Sense of Lebanon's Protests, Follow the Garbage', New York Times, 3 Dec 2019 https://www.nytimes.com/2019/12/03/world/middleeast/lebanon-protests-corruption.html

Objectives', Amwaj Website http://www.amwajenvt.com.lb/object.html

Ministry of Environment Report, http://climatechange.moe.gov.lb/viewfile.aspx?id=50 Law 708-Lebanese Law-Ministry of Works http://nna-leb.gov.lb/ar/show-news/29780/

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-play! making 'produces' new ways of sharing and new types of conversations. another normal is slowly emerging. A constant state of emergency and collective unpredictability. We can actively engage in these daily exercises of 'micropolitics'. When distances between each other is questioned, when hygiene in public

halls is doubted. Whi inspected. We shoul produce new realitic disinfectant, weddin produce new meaning

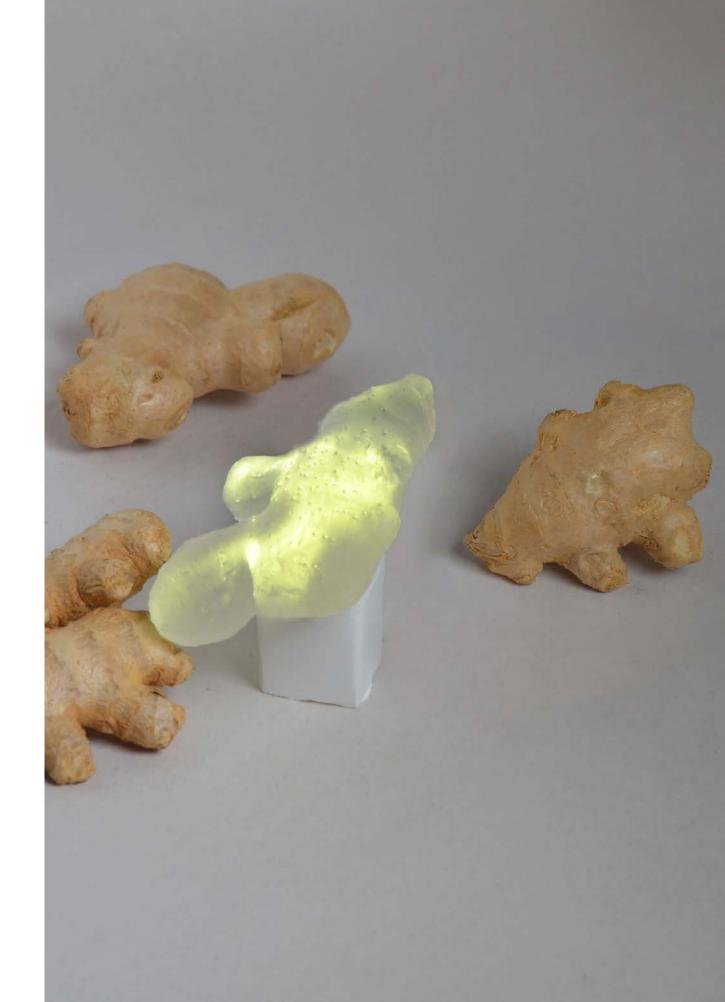
of materials is se accidents to sining dust with cocides can rchitecture should

'produce' these arenas of dialogue. Initiating conversations through spaces and scales is one of the strongest tools of activism we architects have. pushing the limits, empowering discussions and change. this only happens when we use exercises to think new relationships and rituals in our day—to—day realities.

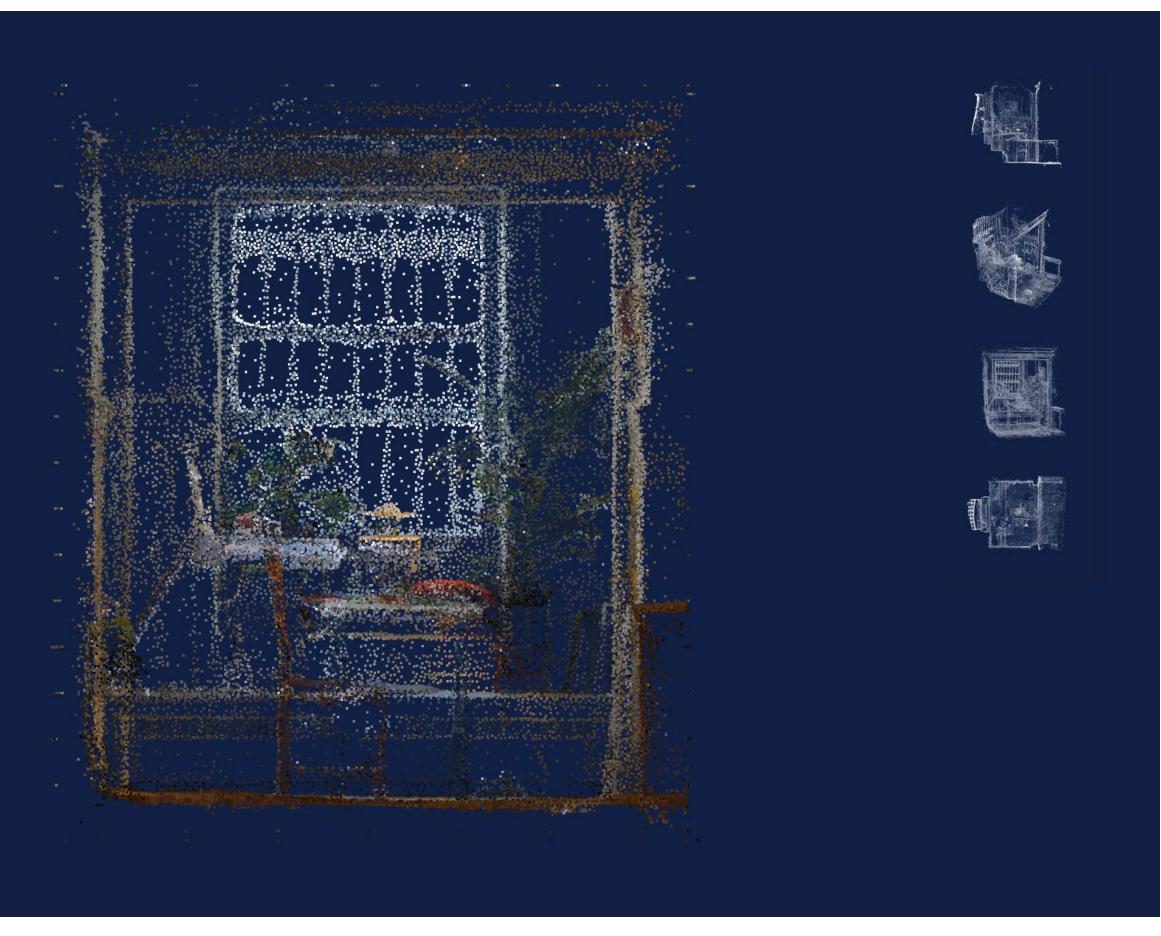
## zingiber

a replica of a banal object can inform, help redefine and reshape the object. the production of facsimiles especially those relying on complex digital techniques such as scanning, can be the most fruitful way to explore the original object. this (right) is an attempt to understand and render visible the circuits of production/provenance, distribution and use of ginger in today's imperatives. ginger is an herbaceous plant with a tuberous root native to the humid tropical climates. zingiber officinale -the scientific name given to gingeralso 'inhabites' magical and soothing qualities that are highlighted here through this replica. this resin based 3D print of the 3D scanned replica is placed in shear vicinity to the 'real' gingers, revealing the complexities of the ginger's shape, use and hints to its mystical qualities.

this is a complete 3D scan of the window niche at my apartement. a domestic studio is put together in this ground floor apartment. the kitchen table becomes the studio table the back of the last printed pin-up becomes the background, the cans of beans become the tripod, the nightstand and window light become the lighting equipment. a shared window with the passers, who's smiles appear behind the masks when they see the maquette for studio being photographed.





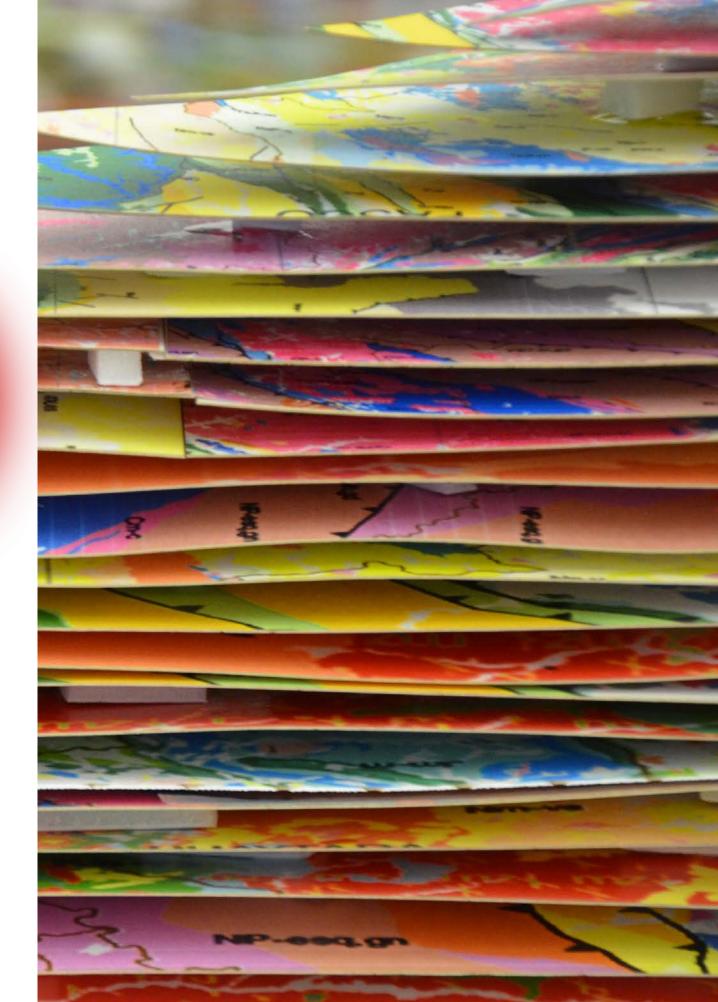


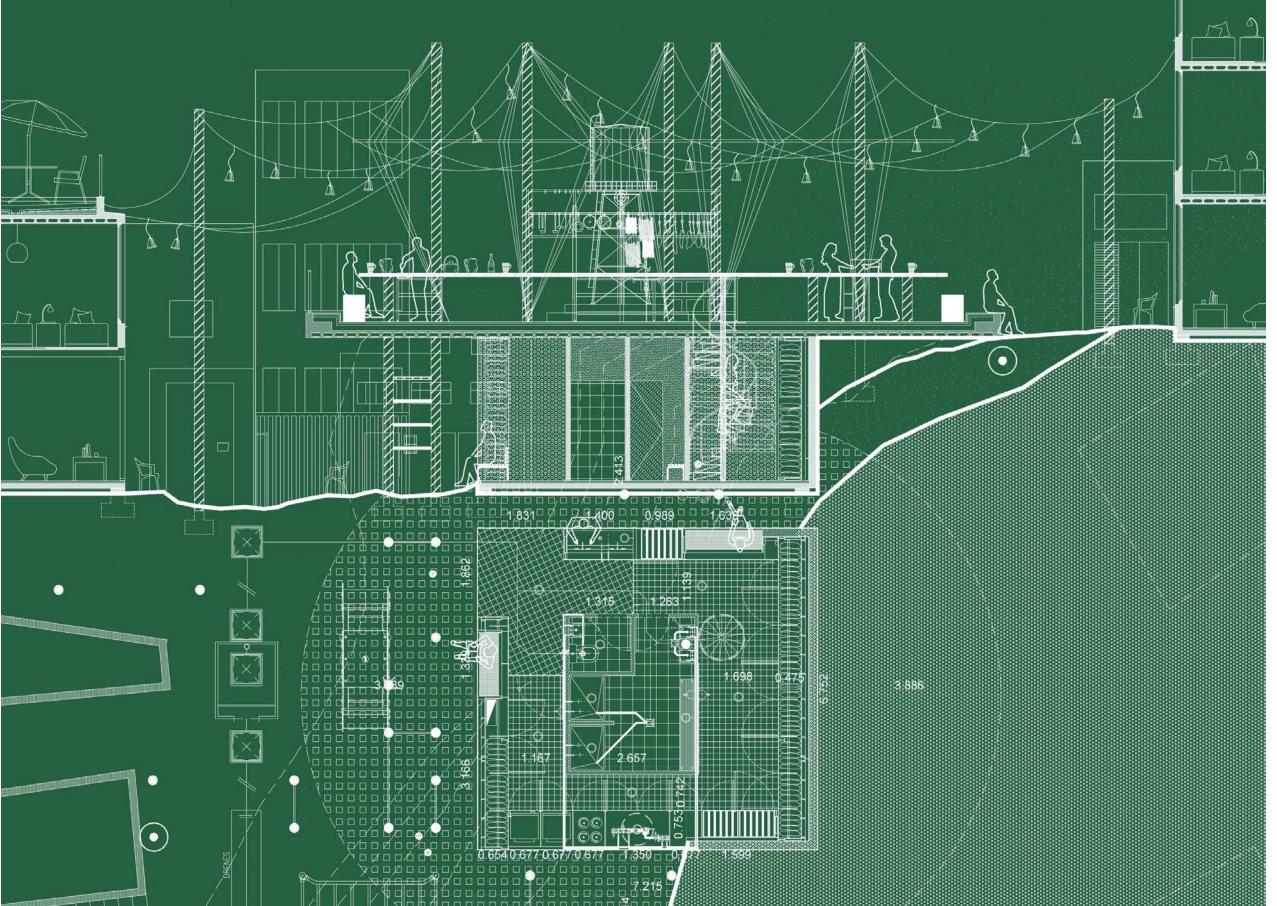
108

## kitchen parliament

We propose a Kitchen Parliament, where through a network of spaces strategically positioned we can enable displaced sectors of society to be empowered. Within the context of these open parliaments we promote visibility to the forgotten issues that constantly reshuffles the political power-play in Peru. A domestic subject is a product of things that surround us. By displaying common objects and locating them in new layouts, organizations, inside or outside areas we are dealing with the introduction of the idea of monumentality within the context of mundane objects. By the displacement of objects we look at the behaviorology and reaction of the people caused by a simple mundane device. By exposing and rendering visible the existing architecture we inevitably create a new one, an architecture concerned with political agency, that addresses cultural urgencies as well as engages with critical components within a society. The **'Kitchen Parliament' proposes a space for** conversations, and empowerment through the activity of cooking, this medium has the capacity to be political, where the kitchen no longer serves as simply a nutritious environment, essentially it loses its main character in order to open discussions and dialogues.

CH<sub>a</sub>, methane, w leaks into the air absorbs the sun' heat, warms the atmosphere



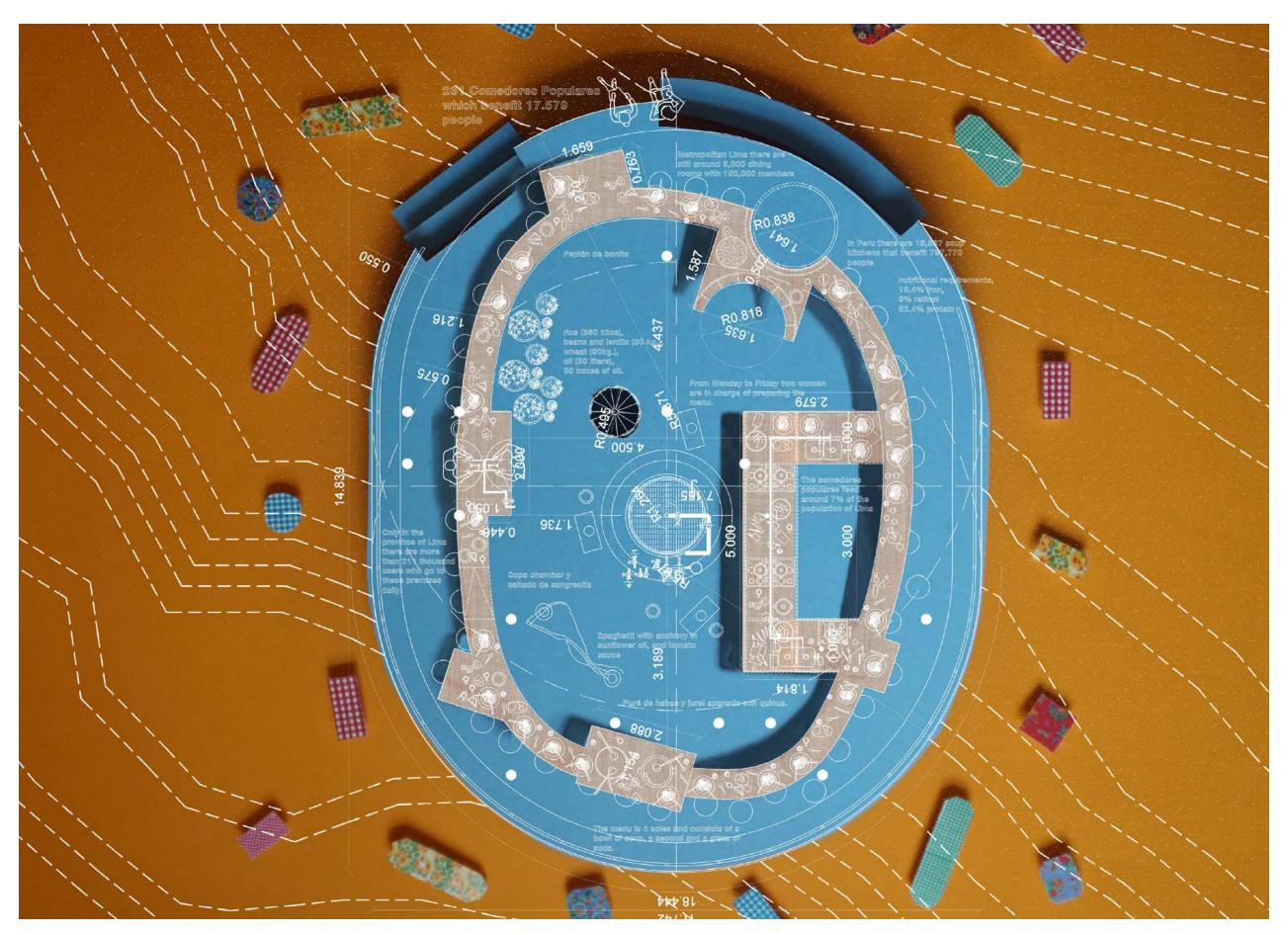


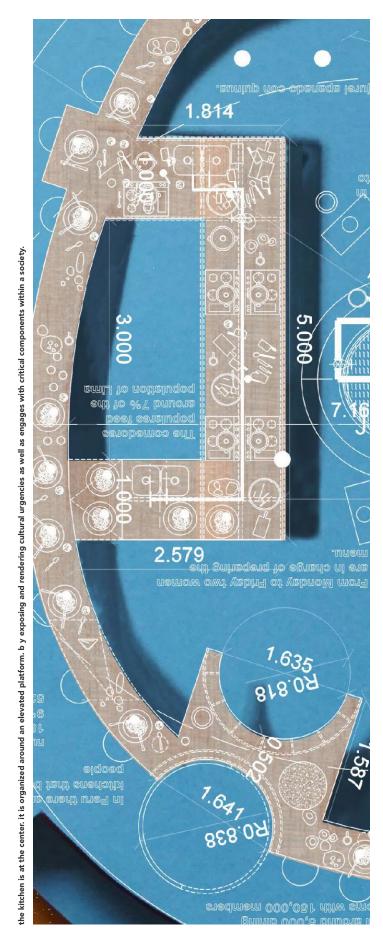
the lower part of the parliament is organized into a storage for the donations, a bathroom for the city and a showering and preparation space for the cookers.

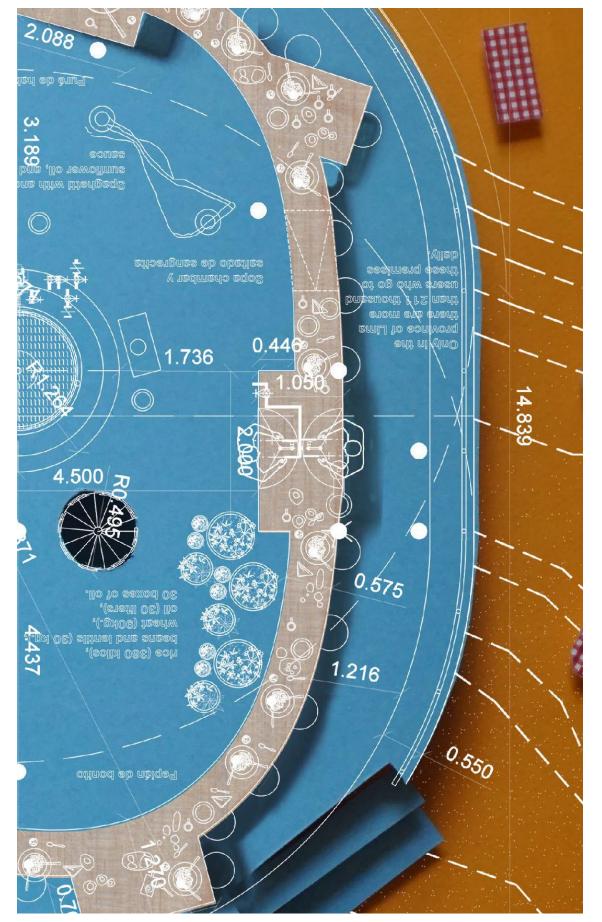
this basement is also the lieu for more informal and smaller discussions between two citizens waiting for their kids playing within the columns.



Kitchen Parliament



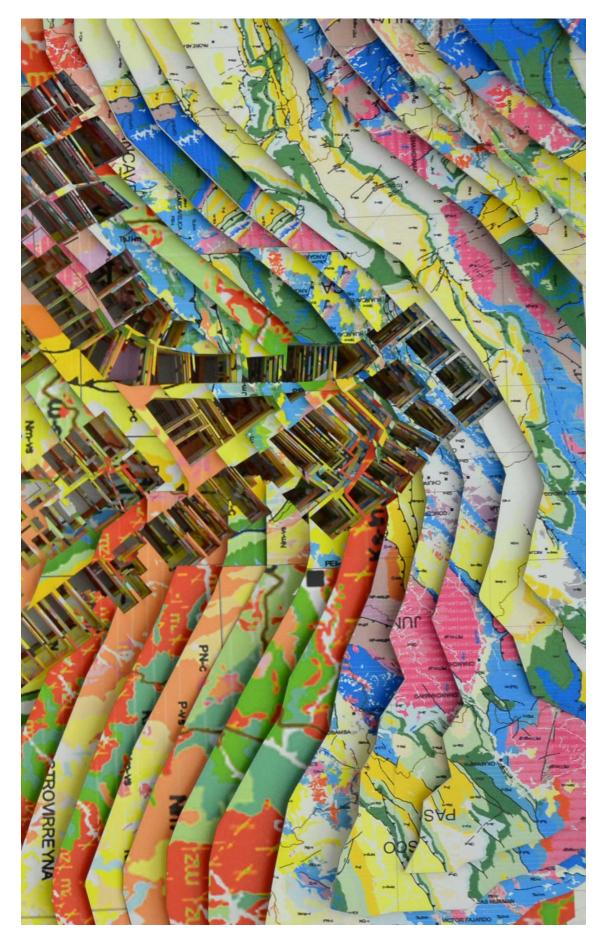




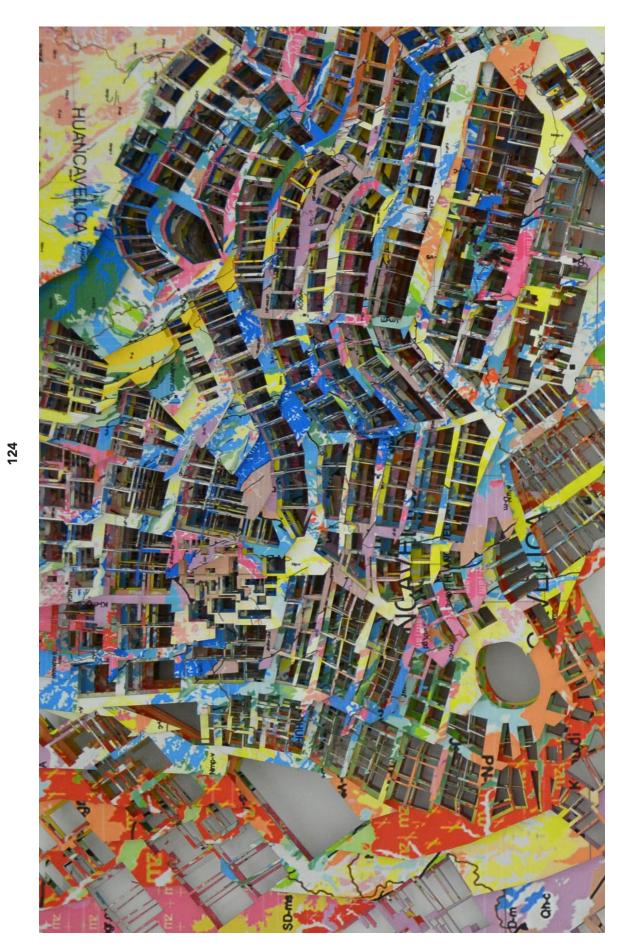
Kitchen Parliament

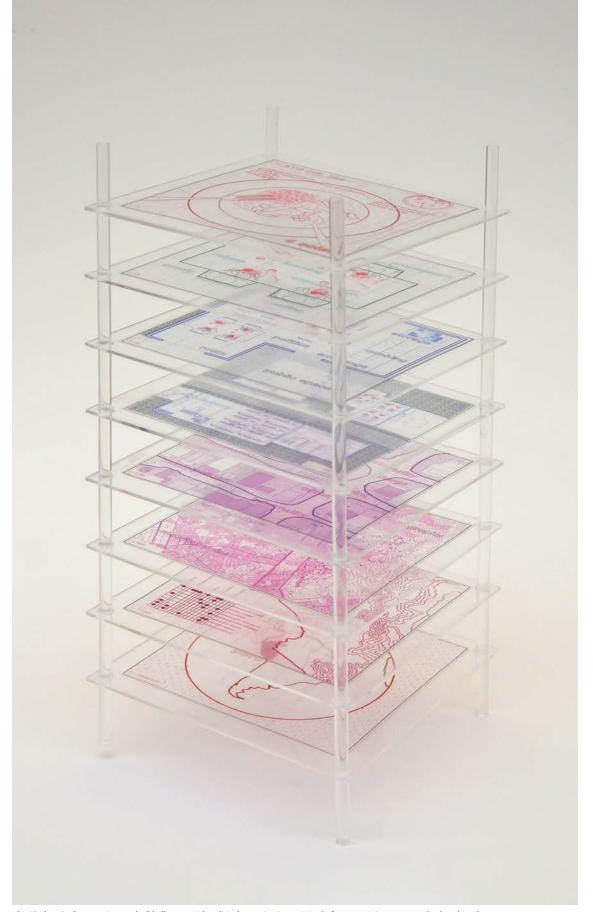
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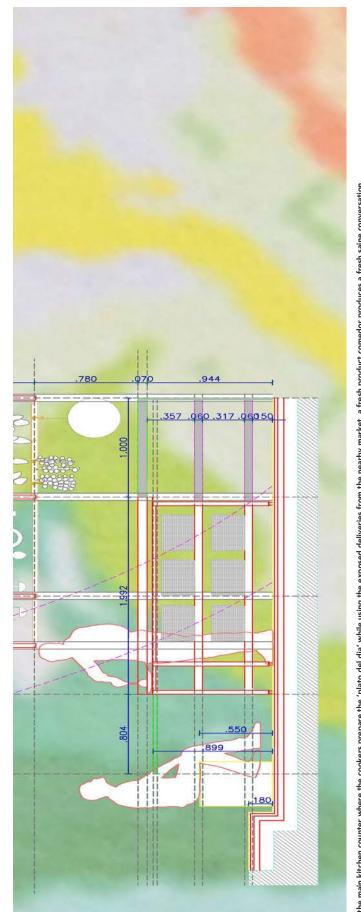


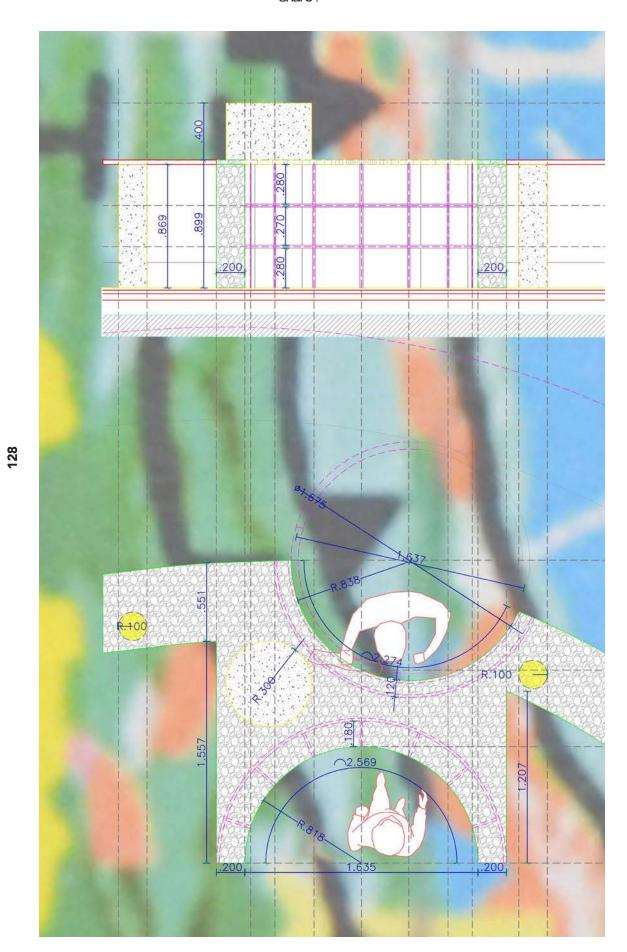


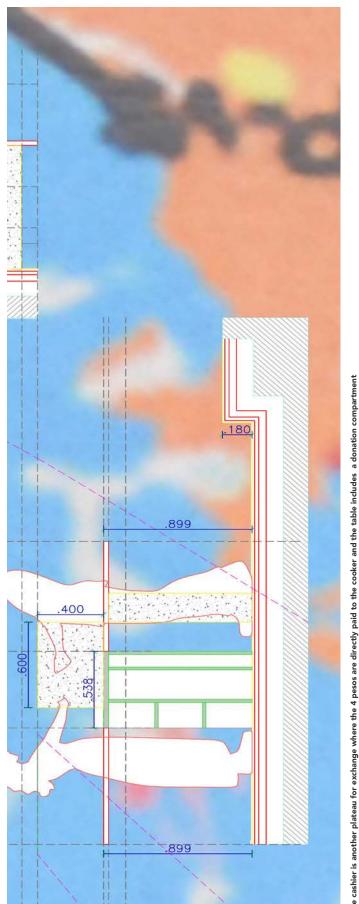


the Kitchen Parliament aims to build alliances with political organizations, civic platforms, activist groups and cultural workers.

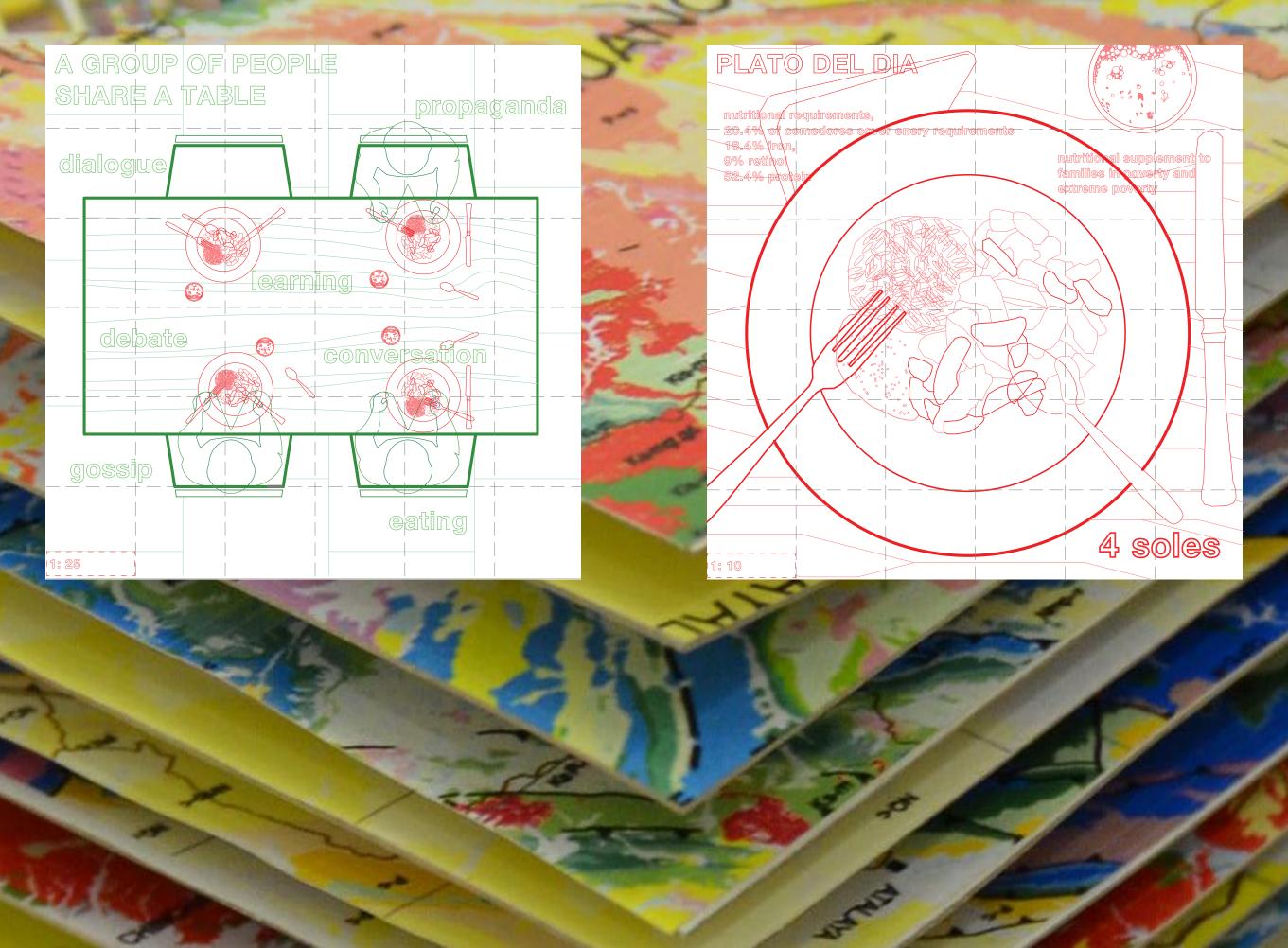
126







other plateau for exchange where the 4 pesos are directly paid to the cooker and the table ind



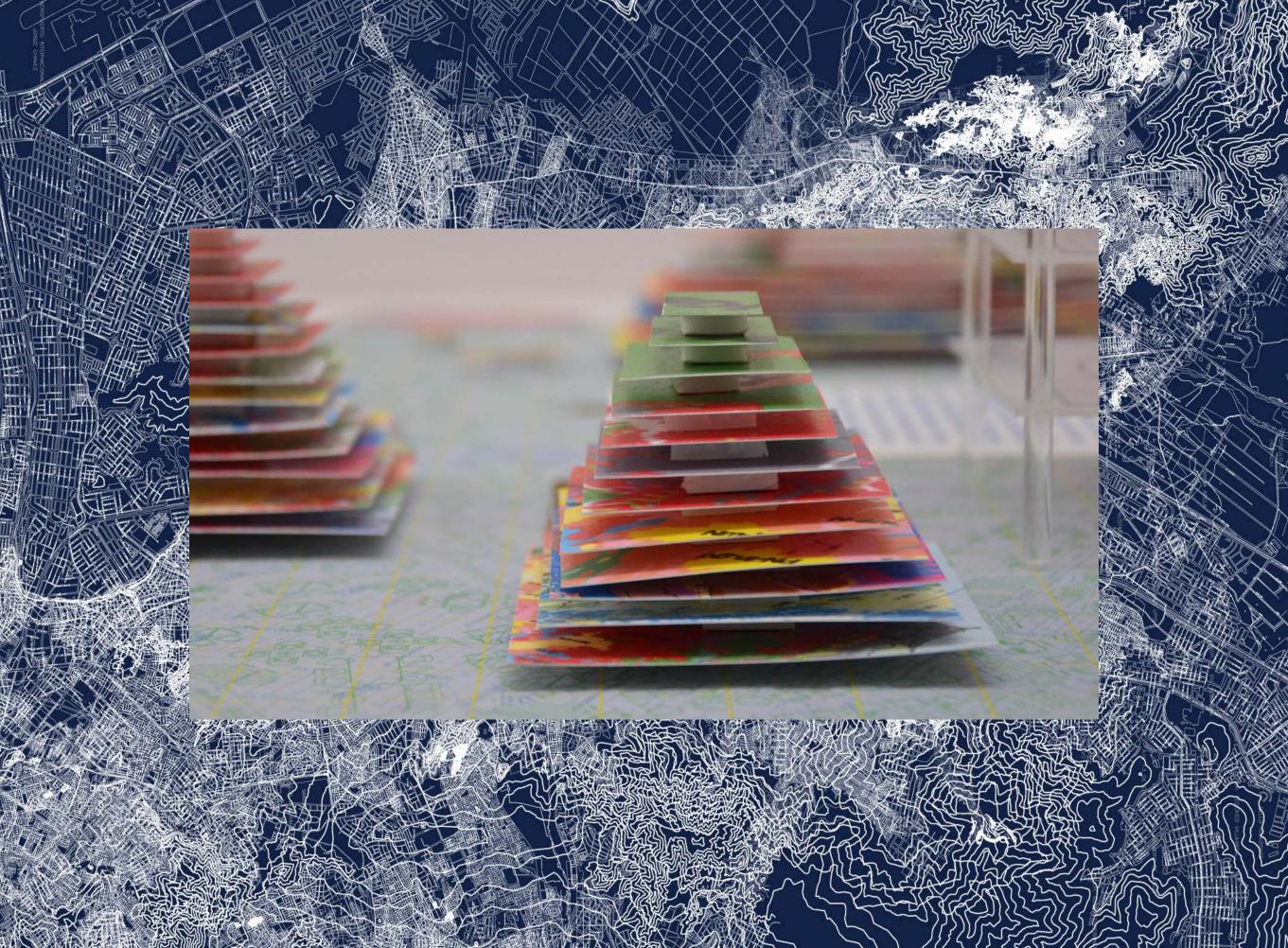
132



Kitchen Parliament

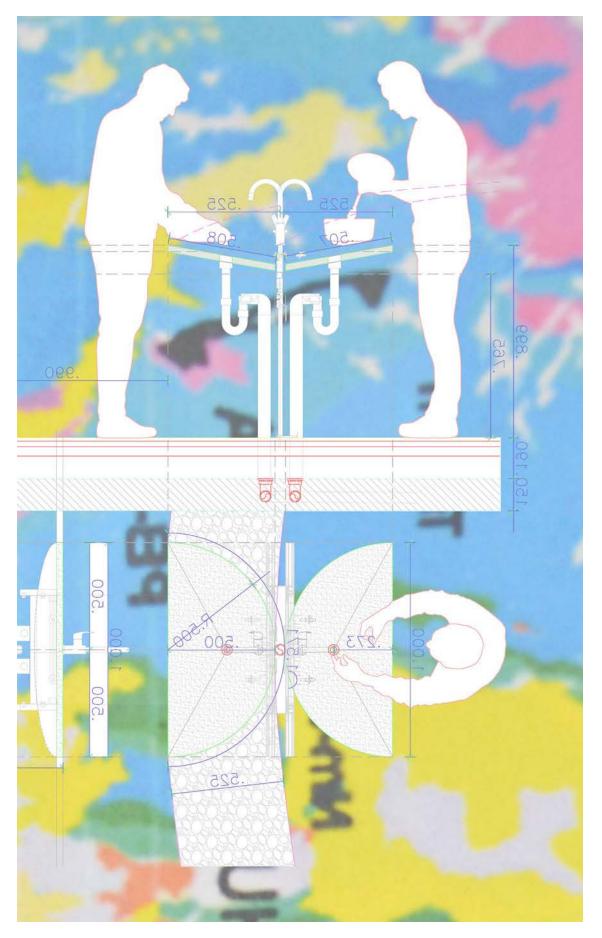
# CH, methane, when leaks into the air, absorbs the sun's heat, warms the atmosphere between the tables becomes the lieu for gossiping. A table in the 'comedores' is an active political agent.

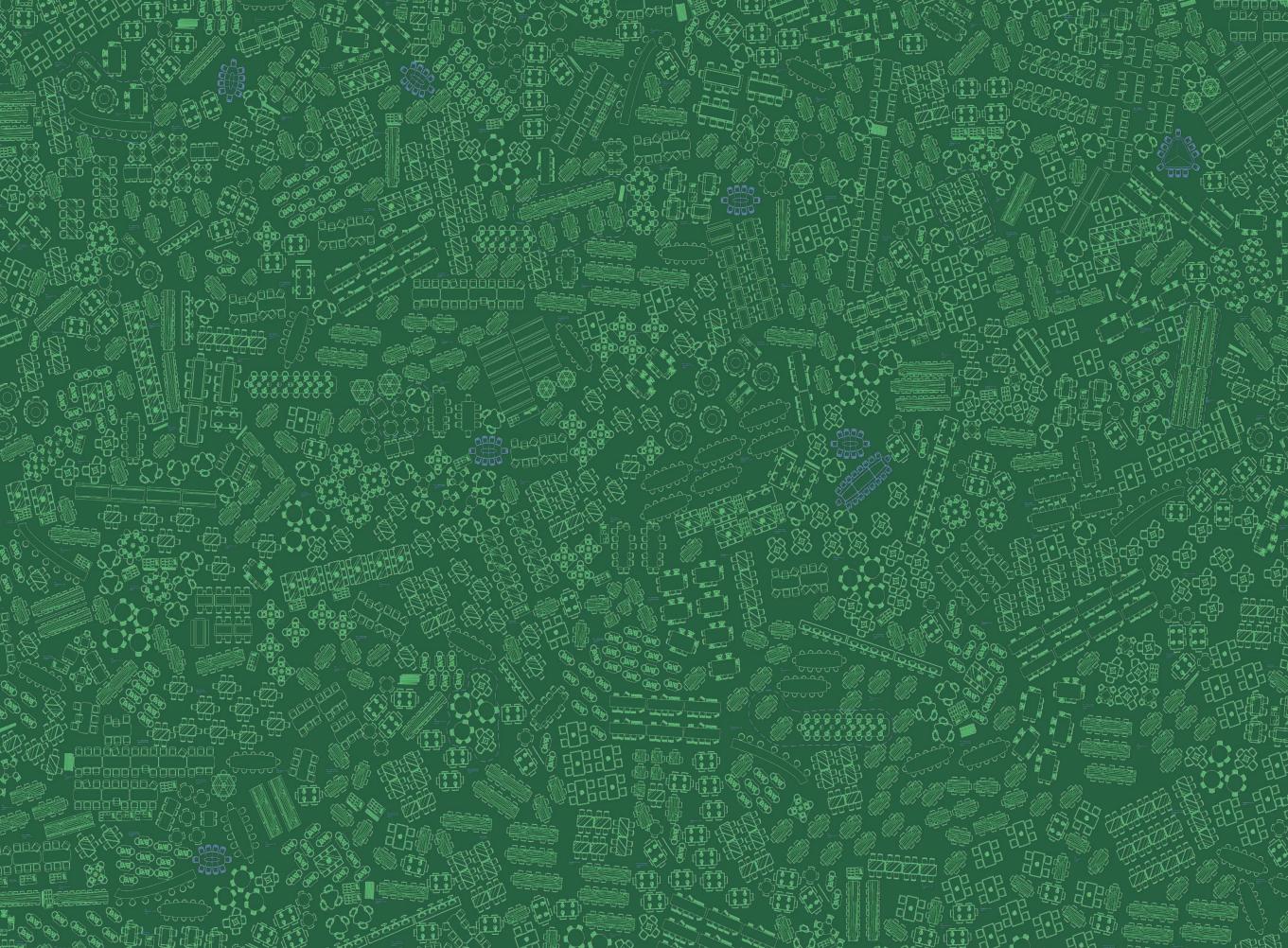












-share! a need of being together even in discomfort. Collectivity and the capacities of working together is essential. Rethinking intimacy and repartition of roles in public spaces through our kitchen parliament has revealed the importance of caring and repeating conversations. we share the planet as adnan puts it. we share the granticles of biomass burning, duent into produced by fossil fuels and was ns. political fallout affects the environr hitecture can address some of the such as ocean contamination, toxic air, carbon dioxide release or our relations to wild ecosystems. we as humans are part of larger ecosystems with animals, plants, microbes and particles. architecture becomes the tool for negotiations, sites of visibility and alliances. sharing a mean to operate within rituals, territories and dialogues.

-stay safe! definition: 1. expression of a wish for the continued welfare of a fellow human being. 2. free from harm or risk. 3. a friendly farewell, expressing carefulness for a person to not get into trouble. Let us embrace and work within the complexities of our world. proximity and collective behavior is empowering. this current health crisis renders ome of these larger global and systemic responsible for global carbon emissi data consumption, our financial operati sites of accumulation and ex n. we can conceive these spaces for relief, these conversations. we can also create alliances with other study spheres. our biggest shared challenge today is still addressing the climate crisis. crisis as usual. we as architects should aim to be astute diplomats constantly engaging with complex and uncertain geopolitical absurdities.

