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Architect, **PUC** and Researcher at **Salutary Design** Lecture: "Salutary Design: Intuition & Evidence" Aug. 17, 2021

WHEN IT COMES TO THE RELATION BETWEEN PUBLIC HEALTH AND THE BUILT ENVIRONMENT, THE ANSWER ALWAYS LIES HALFWAY BETWEEN INTUITION AND



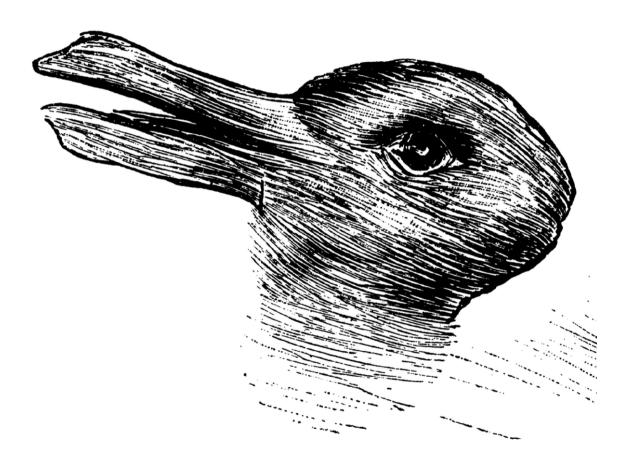
What is salutary design about?

As could be expressed by a doctor, when it comes to the relation between public health and the built environment, the answer always lies halfway between intuition and evidence.

The bad news is that in order to cover the gap between intuition and evidence, architecture is a deficient tool, since it takes too much time.

To overcome that disadvantage, we resort to other disciplines such as visual communication and graphic design, due to the advantage of the insuperable capacity of images to synthesize accumulated knowledge. According to poet Ezra Pound an image is a conjunction of the intelectual and the emotional on the same instant. The image appears when both hemispheres of the brain, the one of intuition and the one of evidence work as a team.

SINCE OUR PROFESSIONAL RESPONSIBILITY PASSES THROUGH CONTRIBUTING TO DEFINE THE CONCRETE SHAPE OF PUBLIC POLICY, WE ARE FACED WITH HAVING TO DEFINE FIRST WHAT IS THE PUBLIC. AND WHEN IT COMES TO ARCHITECTURE FOR HEALTH, TO DEFINE WHAT IS THE SALUTARY.



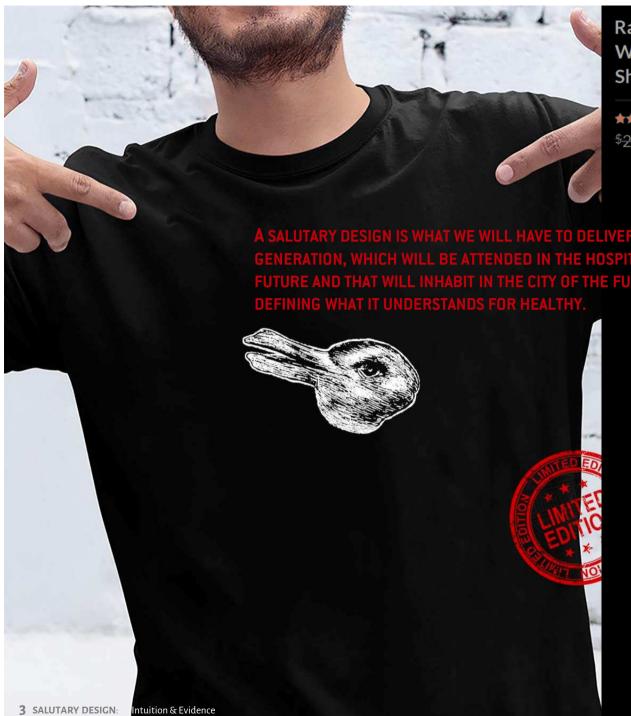
¿ How a salutary design is defined?

An aproximation could be through the *rabbit-duck illusion*, an illustration originally published in the XIX century. The question about if it is about a duck or a rabbit took fifty years to be answered and it wasn't until mid XX century that philosopher Ludwig Wittgenstein finally achieved it.

And his answer was: "It does not matter if it is a duck or a rabbit, because the question is irrelevant". Trying to define ambiguity is impossible. And this is the key feature of the liquid world we inhabit today - as put by Zygmunt Bauman - in permanent Flow and accelerated change, therefore there is no need for anguish in trying to define it.

Since our profesional responsibilty passed through contributing to define the concrete shape of public policy, we are faced with having to define first what is the public. And when it comes to architecture for health, to define what is the *salutary*.

And this is something that salutary design, through suggestive images such as this one, can achieve faster than architecture.



Rabbit Duck Wittgenstein Philosophy Shirt

\$26.99 **\$22.99**

THE FUTURE,

In the beginnings of the XXI century, this social change, brewing for decades, begat a new human fenotype: the *millenial*, representing the most recent state in the evolution of the species swimming through the current liquid and digital world like a fish on water.

¿ What is salutary design?

Is what we Will have to deliver to this generation, which Will be attended in the hospital of the future and that Will inhabit the city of the future, defining what it understands for healthy.

And we know that this definition will be different to the current one, but we don't know well yet which will it be because we don't have the right language to define it. Therefore, if the final user of our cities and our hospitals will be this millenial coming from the future, the question then is:

¿ What is the language of the future?

In the XXI century, the first option always will be in *the green*. And rightly so.

Everyone of us is familiar with this kind of image, simplified to the máximum and on which happy colors, bicycles and happy people are combined. the underlying slogan is to complex problems, *simple answers*. And the interesting thing from the perspective of sanitarion is the promise that the green would have the capacity to heal disease, something that the experts will have to debate based on their own evidence and intuitions.

THE UNDERLYING SLOGAN TO THIS KIND OF ULTIMATE SIMPLIFIED IMAGE, IS TO COMPLEX PROBLEMS, SIMPLE SOLUTIONS.

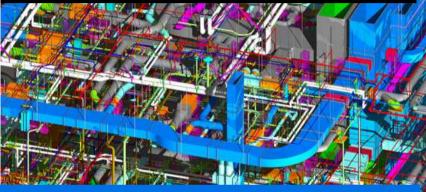








CEDRIC PRICE, 1978



From time to time, something new appears promising to change architecture, such as sustaintability, BIM or the Smart City.

Still there isn't enough evidence that, for instance, BIM systems and all it's iterations 2D,3D,4D,5D o 6D produce better architecture. Evidence show that standarization is more efficient, but intuition indicates that on chilean offices there is a prevalent use of cracked software, therefore standarization becomes imposible or too complex to implement broadly.

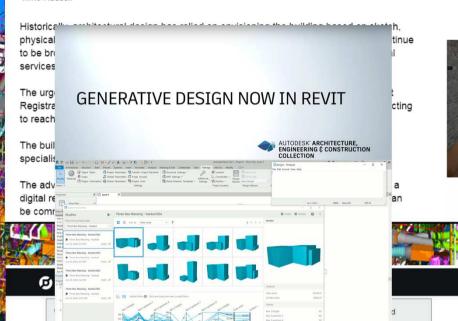
Generative design's tools are able to offer with a single click, ten or more parametric design options, based on evidence. Alternatives which then the architect simply chooses from the one hi gut-feels the most, using his intuition.

But beyond BIM, the paradigm is the one of the Smart City, meaning a parametric urbanism, able to define through algorithms every aspect of life. And of health, indeed.

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How BIM is changing the face of architecture

Mike Russell'

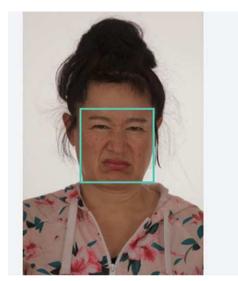


The new architecture of Smart Cities

rickrobinson @dr rick



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Detection Result:
JSON:
                                                        PERSONAL DATA IS THE NEW OIL. THE
                                                         ALGORITHM OFFERS A KIND OF POST-
   "faceRectangle": {
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                                                         THE OUESTION THEN IS HOW WILL THIS
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                                                        AFFECT HEALTH?
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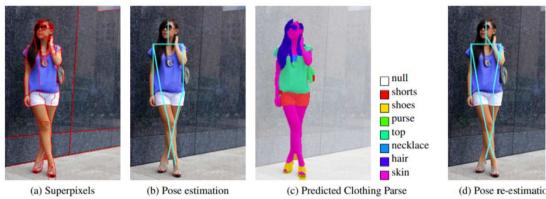
BIG DATA

(Research Image) "Disgust" Custom Hito Steverl Emotion Training Set

And in order to find the question, evidence is needed. Hard data. And today, data is no longer obtained from the environment, but directly extracted from people. Personal data is the new oil and there is no doubt about that it will be the language of the future. In fact, today already is.

And even when all dystopic predictions prove false and *big data* effectively contribute to quality of life, it would anyhow leave out an important percentage of the population that dwells under the poverty line and does not generate data attractive enough for tech corporations.

And something in which the three languages of the future coincide is in that they are taken for granted and cannot be ignored, because what it's at stake is our own survival as a species. That is to say, THEY ARE NOT LONGER OPTIONAL. Today it can't be done without BIM, it can't be done without clean energies and also it can't be done until the internet reaches the last corner of the planet, because if people is left out of the future, then the paradigm isn't useful anymore.



Deep Learning en sistemas Al. Arriba: Reconocimiento de objetos en el espacio público.

Abajo: Reconocimiento corporal a través de sistemas de Clothing Parsing.

It's now or never: Scientists warn time of reckoning has come for the planet

The Observer Climate change

Robin McKie

Sun 15 Aug 2021 08.00 BST

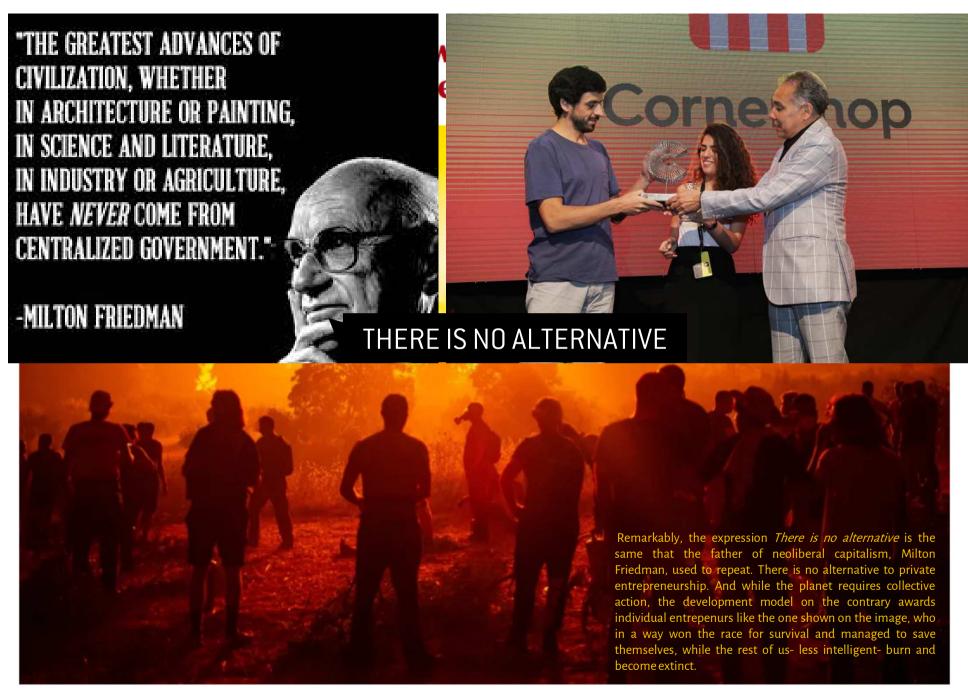








▲ Volunteers support firefighters tackling a wildfire next to the village of Kamatriades on the Greek island of Evia. Photograph: Angelos Tzortzinis/AFP/Getty Images

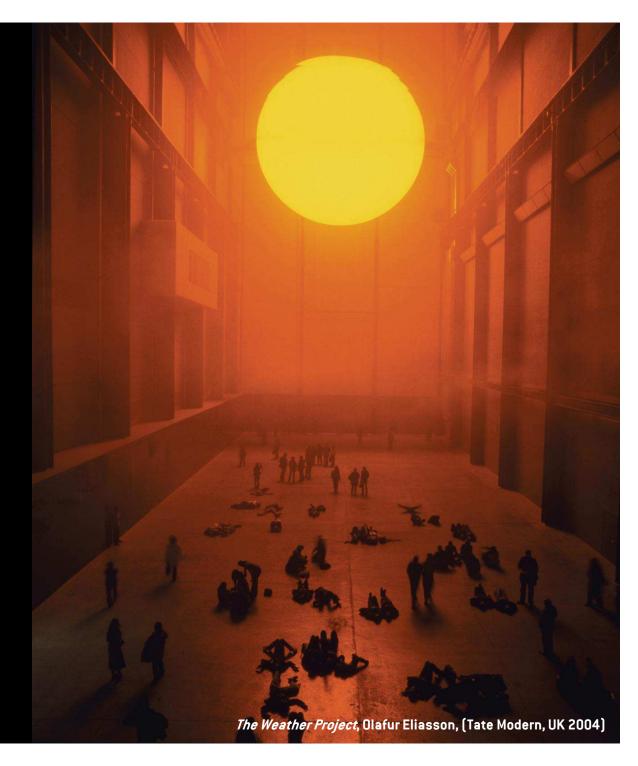


▲ Volunteers support firefighters tackling a wildfire next to the village of Kamatriades on the Greek island of Evia. Photograph: Angelos Tzortzinis/AFP/Getty Images

THE IMAGE CHOSEN BY *THE GUARDIAN* ON AUGUST 15, 2021 TO ANNOUNCE THE APOCALYPSIS, RESONATES WITH AN IMAGE THAT THE ART WORLD HAD PRODUCED 15 YEARS EARLIER.

However fortunately, the salutary conscience is not something new, existing for a long time. It is encouraging to verify that the image chosen last sunday by the editor of *The Guardian* to announce the apocalysis, resonates with an image that the art world had produced 15 years earlier in this installation on the Tate Modern gallery in London, located just meters away of the heart of the financial district of the city, where the most determinant decisions about global warming are made.

That is why from SALUTARY DESIGN, we recommend always to look closely at artists, who on many occasions walk ahead of us, signaling the roads to follow.







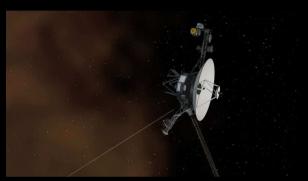


And since this is my first lectura, i will start from the beginning.

I was born on the year 1977, that was a rather newsworthy year, due to events like the simultaneous launch of the Apple II and the Atari 2600, where the former promised domestic informatics and the latter, entertainment through video games, inaugurating with that the era of digital individualism, in an historical progession passing through the PC or personal computer, the Walkman or personal cassette player, the Discman or personal CD player, the Gameboy or personal gaming console and then the iMac, the iPod, the iPad, the iPhone; all with a letter *i*, clearly stating that the important is the I and not the WE.

The launch of the Voyager 2 probe would confirm or deny through evidence, the intuition that we are not alone in the solar system.

That same year the first fiber optics networks was deployed, inaugurating the era of speculative capitalism in Wall Street, where now more power could be accumulated through intuition than through evidence, based only on a Good eye for business.





WITH THE DEPLOYMENT OF THE FIRST FIBER OPTICS NETWORK, THE ERA OF SPECULATIVE CAPITALISM IN WALL STREET WAS INAUGURATED, WHERE NOW MORE POWER COULD BE ACCUMULATED THROUGH INTUITION THAN THROUGH EVIDENCE.





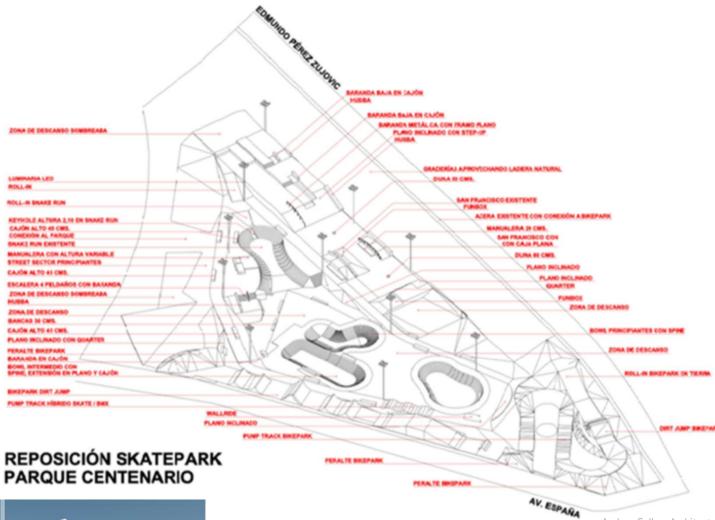
$\stackrel{\cdot}{\circ}$ How will the evident and the intuitive will balance in the future ? Again, ambiguity. It is not clear if this image represent good news or bad news for health. And experts, who should know this, cannot reach an agreement with their communities. Therefore under the logic of salutary design, the question should not be directed to experts but to ordinary citizens. 16 SALUTARY DESIGN: Intuition & Evidence

And for ordinary citizens we have this boys in the picture, who are an example of common people, years before becoming productive members of society and developing a civic conscience.

At that age, with far too Little experience about life, but with a lot of experience about the city, in this case Arica, that these skaters travelled daily on wheels, knowing every street inside out, probably deeper than some expert planner.

The idea behind this image is that participatory design, a key component of the salutary projhect, more tan relief should be about deep research on the life experiences of a particular community.





And that intuition would be verified years later when the opportunity to design a new 8.000 m2 skatepark for the city, which nevertheless it's huge area had none or very little citizen consultation through it's design process.

The only parameter of the client was building a course bigger than the courses of the other majors.



A PROCESS WITH LESS CONTAINMENT AND MORE EMOTIONAL INTELLIGENCE

Andrew Collyer Architect

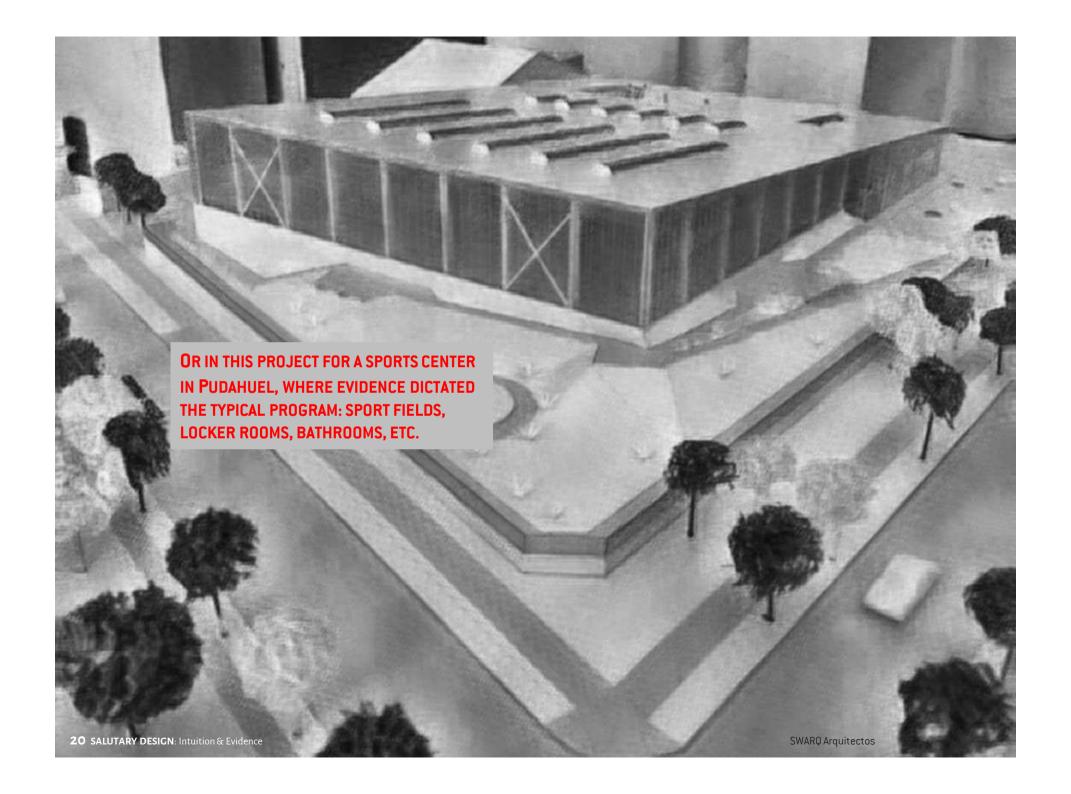
As it turns out the architect, which was me, was the only actor that effectively had ridden a skateboard through the city for years and handled evidence about things no one else sensed, like for instance that for this community of teenage sportsmen the crucial issue wasn't the size of the course but the possibility of seizing a territory of their own to have a social life with peers, therefore forging a group identity

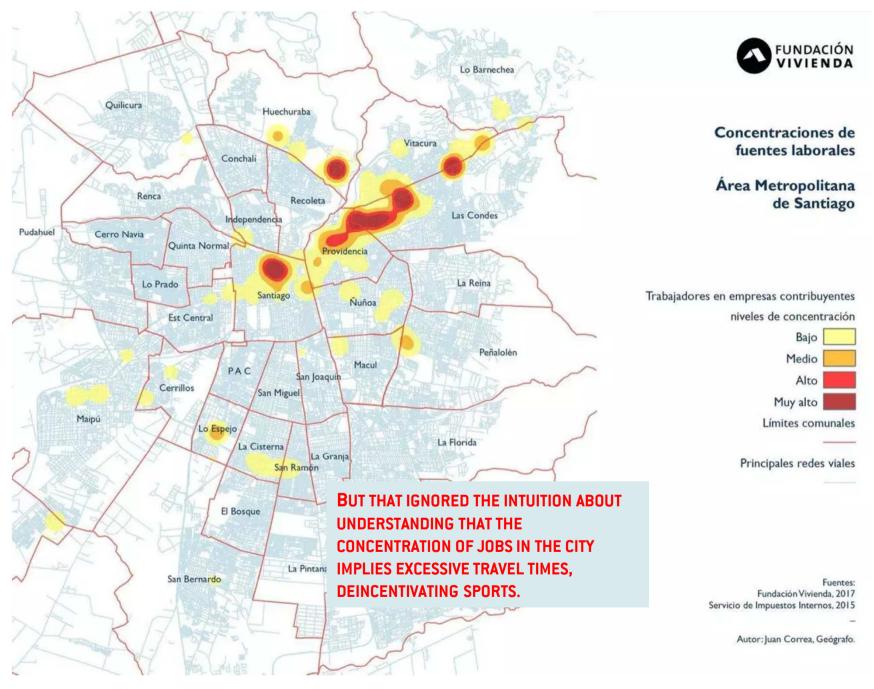
A relevant citizen participation is the one that understands, in practical terms, what is life about. A salutary design cannnot be made without having known before and in the first person a salutary life.

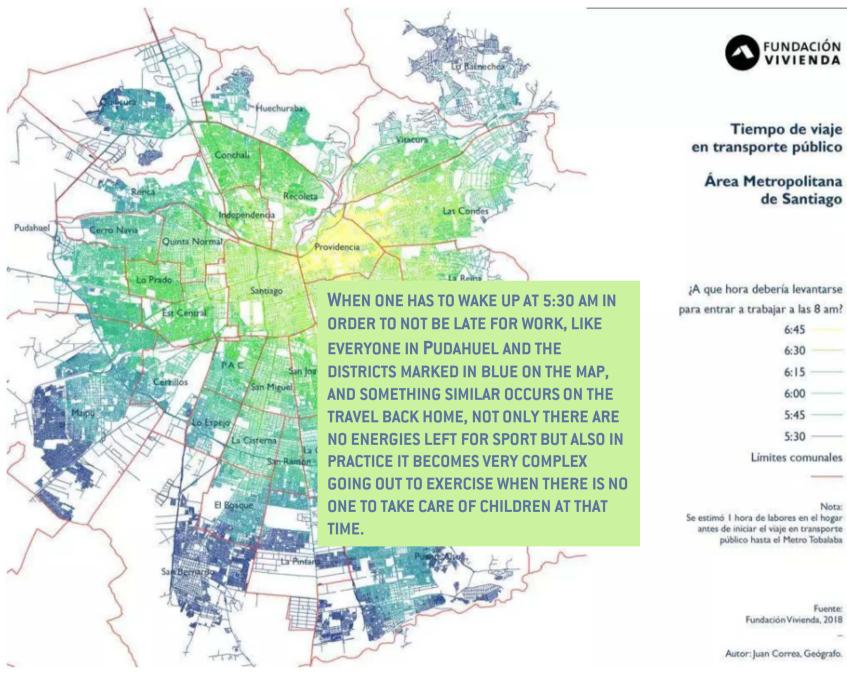
In the case of this project, this intuition would ultimately slash the investment in half, since it prioritized common open spaces where that life could flow, dismissing the idea of having such a big course.







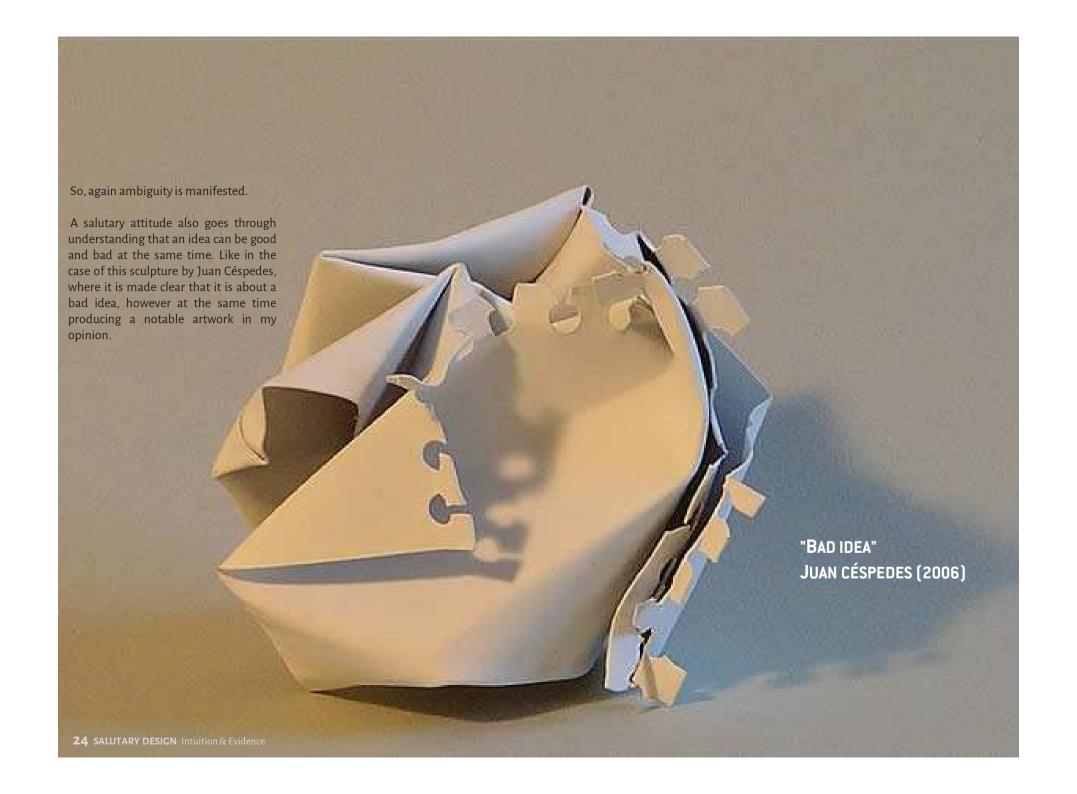




AND THAT INTUITION. BASED ON EVIDENCE (!)
MATERIALIZED THROUGH THE MODIFICATION OF
THE ARCHITECTURAL PROGRAM TO INCLUDE
FAMILY AND CHILDREN SPACES.



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¿How to know if an architecture is salutary or not?

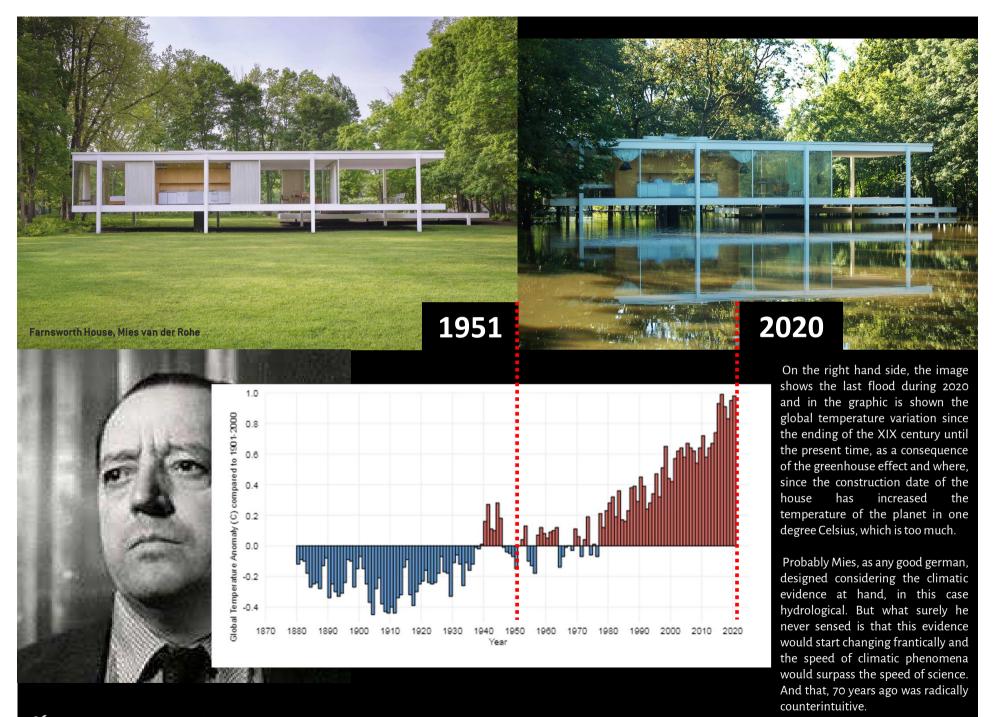
Once again, the answer is through images. If we talk about ambiguity, this is an example of an idea that is both good and bad at the same time.

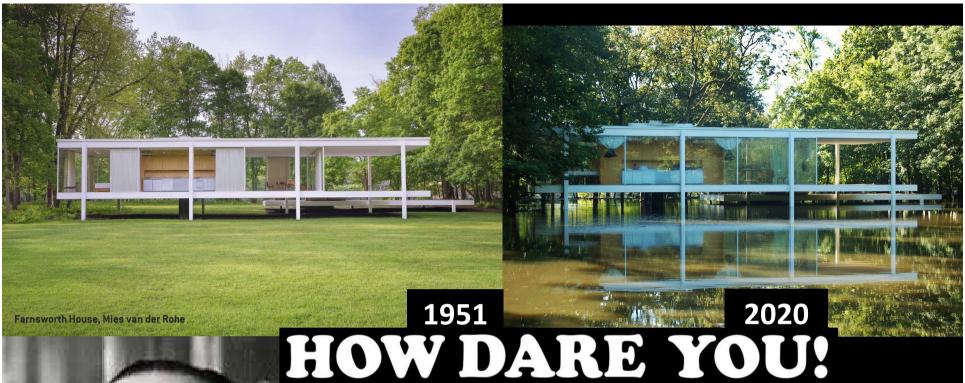
This is a classical example of the modern movement in architecture, based on the rationatilist paradigm of stability and strength. Le Corbusier might be the father of modern architecture, but it was Mies van der Rohe who patented the idea in 1951 on the Farnsworth house, which is the prototype for 99% of the built environment as we know it today. A rigid system, top-down and with a distant relation to nature.

The Farnsworth house separates from nature because it is of no use to it and in that sense is it not a coincidence that this house was built for a distinguished member of the northamerican elite.

Mies produced this masterpiece, nevertheless precisely because it is a masterpiece, the Farnsworth house is imposible to extend because if extended it's architectural concept would be destroyed. And that is something that, in addition to being counterintuitive it is unforgivable for any housing, masterpiece or not. The possibility of extending it, instead of having to build another house, is of an ecological common sense. But in this case, it was imposible, because upon extending the slab there would be more contact points with the ground, therefore ruining the purity of the design.

But with what Mies wasn't counting on was that nature always finds the way of taking back what belongs to her and in the last fifty years, a producto of climate change, the house has been flooded with increasing frequency.





Therefore the extensión problem is resolved by nature. Today the house is double as high at least in percentual terms.

resolved by nature. Today the house is double as big, at least in perceptual terms, by it's reflection on the stagnant flood water.

This house exemplifies very well the relation between architecture and climate change. Mie's approach was probably healthy, but not salutary. In defense of the colleague, one could say that since the effects of global warming were made evident only after, he had no way of sensing the future and prevent the floods.

Or if we are being evil-minded, maybe he did sensed the future, but chose anyway to not change his plans, maybe because of ideology or ego and therefore decided to ignore evidence to get away with it and make his masterpiece at any cost.









Greta's claim visibilizes the current conflict of interests of hyperideologized political leaders versus the reasonable demands of the community.

The new generations challenges the previous. And that is in general what we are looking at today. A head-on crash between public policy based on evidence or on intuition.

Or in the case of COVID, to the clash between the scientific community and the political elites. And that is what currently is being tried to correct through legislation, implementing the universal principle of Health in All Policies.

But on the other hand, is also has to be understood that public policy, before being public are political and leaders must act always under tension between the intuitive and the evident.

In this case, we can easily identify who represents intuition and who represents evidence.

To the left, the doctor Anthony Fauci, leader of the strategy against COVID-19 in the United States and who simply cannot keep hiding his embarrasment in view of the foolish suggestions of his president like, for instance, injecting disinfectant to acquire inmunity.

Or to the right, german chancelor Angela Merkel, who also cannot believe what she is hearing and that to us looks like a fun meme, until we start to consider that the last hope of salutary resolution of the geopolitical conflicto between the United States and China passes precisely through Europe.

And then her face does not cause laughter anymore, but fear.





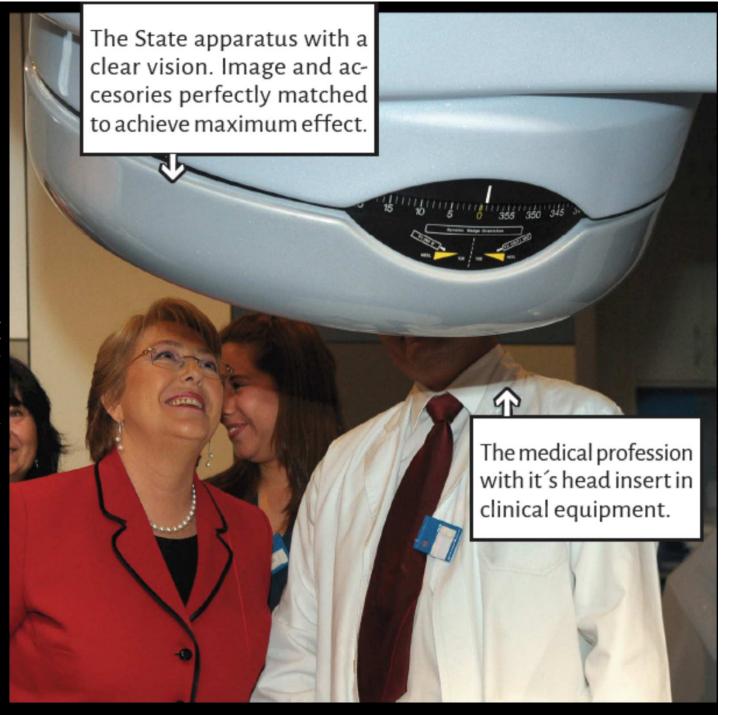
SEPTEMBER OCTOBER

And Chile is not exempt from this tension. Quite the contrary.

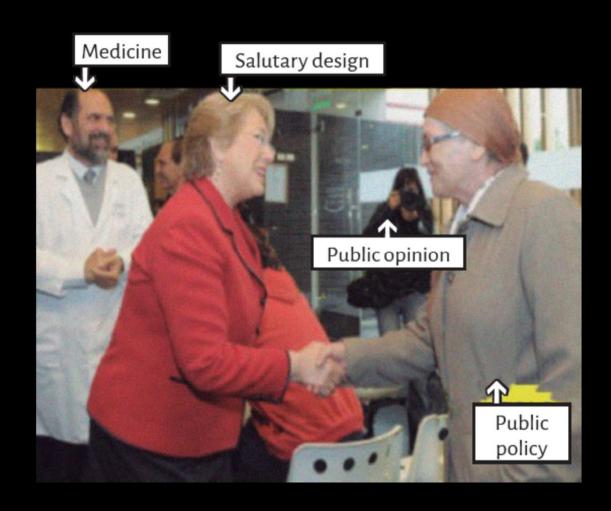
Here, energy exploded under the form of accumulated anger caused by the pressure over a hyper-demanded public sector , of which social services are the preferred *targets* of the irate mobs, and where works like this one, which i happened to design in downtown Santiago on 2019, ends completely destroyed just a few weeks after their inauguration.

And this does not have to do with left or right wings. The issue is transversal. For instance on the healthcare network, where there is a permanente deficit, long before the pandemic.

And where the medical body, desperate and impotent, has it's head completely insert in clinical equipment and supplies. And in many cases not even dreams with a salutary healthcare infrastructure.



Entonces, el Estado debe administrar recursos públicos insuficientes y ante la evidencia de su escasez, no le queda otra opción que recurrir a la intuición para no perder de vista aspectos fundamentales como la dignidad de la población.



All this is of an unhealthy complexity.

The result is that trust in public institutions decreases and therefore the mood of society facing the future also decreases.

And so the architect, who is the one that must shape to the public works society commissions him, is stuck in between, trying to keep his sanity in an insane context.

To achieve salutary responses in this scenario, he has to alternate between acting as the most pragmatic person on the team and at the same time acting as the most idealistic.

Having to produce solutions simultaneously conservative, based on evidence, and innovative, based on intuition.



Y la intuición que todos tenemos es que finalmente algún día el arquitecto logrará su objetivo de alcanzar a la realidad, comprenderla y definirla para siempre.



