

—

VISUAL ARCHIVE

0 1

PROLOG

The discovery of “postdigital”

Postdigital 101: a definition and an introduction

A peer-reviewed definition
Complementary notions

A historical timeline of the use of “post-digital”

The three “digital revolutions”

Technological maturation and diffusion of innovation

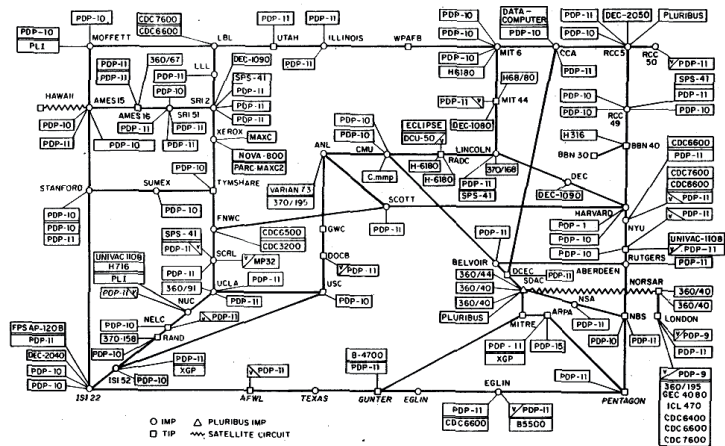
The maturation of the three digital revolutions

The second “talking dog phase”

What is Postdigital architecture ?

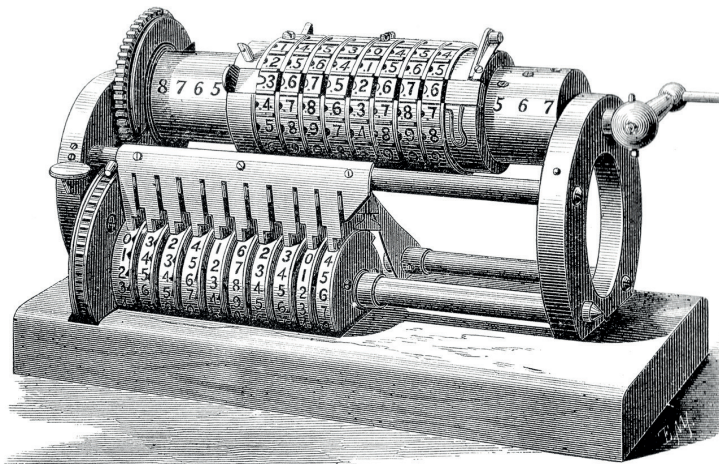
Postdigital architecture ?
The postdigital age ?
Postdigital architecture is not necessary digita

ARPANET LOGICAL MAP, MARCH 1977



(PLEASE NOTE THAT WHILE THIS MAP SHOWS THE MOST POPULATION OF THE NETWORK ACCORDING TO THE BEST INFORMATION OBTAINABLE, NO CLAIM CAN BE MADE FOR ITS ACCURACY)

Apranet Map



Grant Calculating Machine, 1876



UNIVAC I, 1951
(First commercial computer in the US)



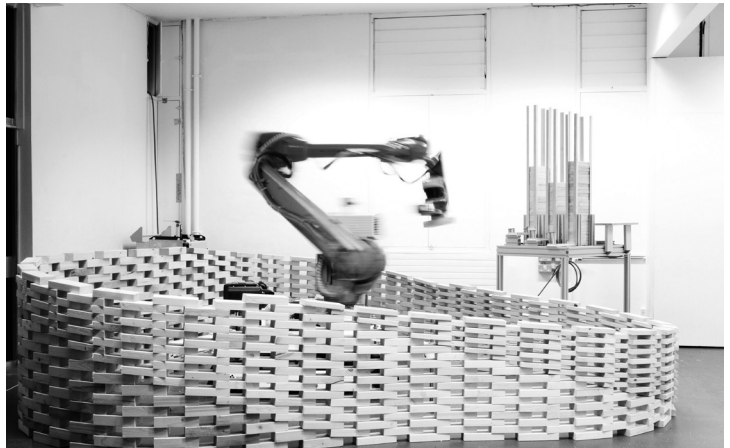
Apple Macintosh 128K, 1984



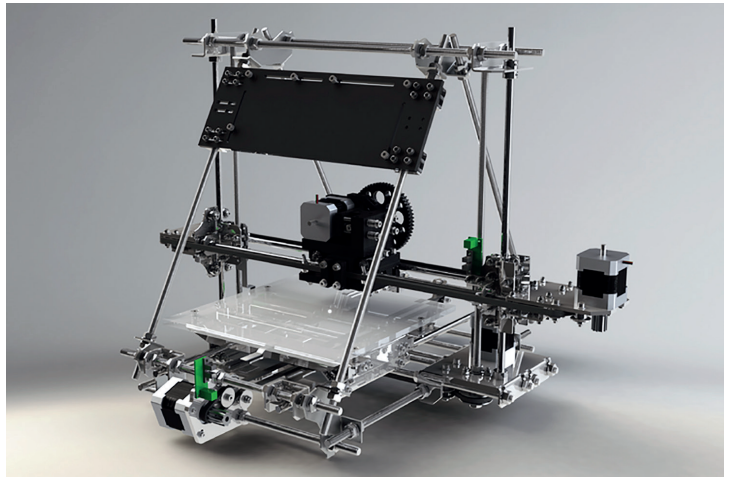
Apple iPhone 6s, 2015



handmade traditional bricklaying



Computer-assisted robotic bricklaying

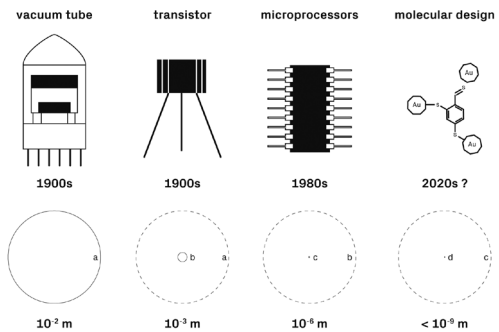


The RepRap 3d printer

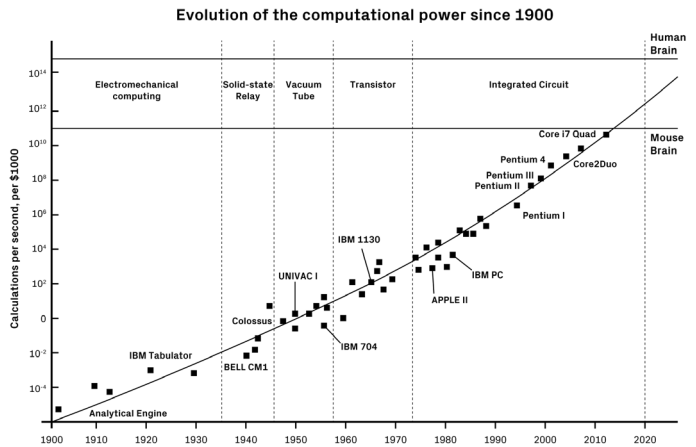


Electrochromic glass able to change opacit

FROM MACRO TO NANO : THE EVOLUTION OF INTEGRATED CIRCUITS



Vacuum tube to molecules



Moore's law evolution

0 2

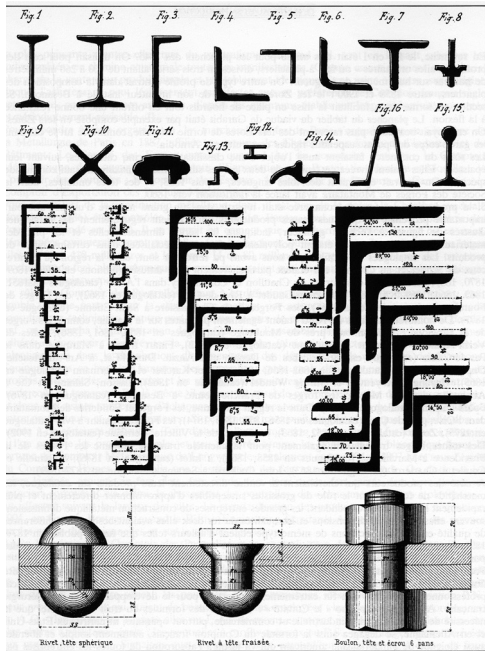
TECHNOLOGICAL DISRUPTION AND ARCHITECTURAL ADAPTATIONS

Direct technological disruption

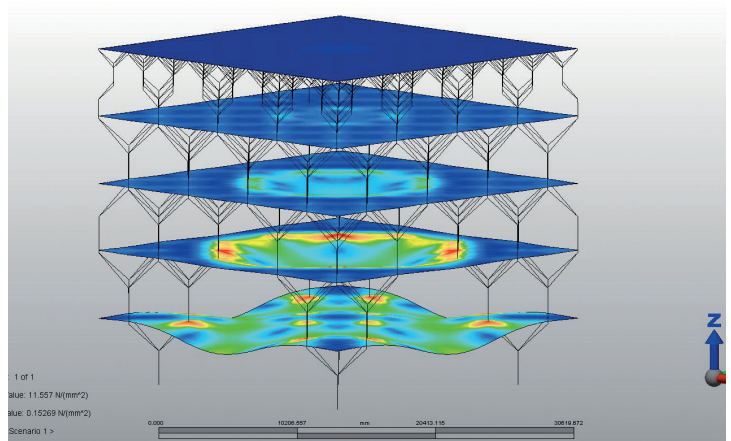
Design tools
Buildings tools & materials

Indirect technological disruption

Socio-economic transformations



Iron Profile and Assemblage element from the 19th century



**Complex structural optimisation through advanced digital simulations
 (finite elements analysis)**



Crown Street Station

FROM ELECTRIFICATION TO CLOUDIFICATION

Electrification

The Capitalistic segregation

The Canut typology

The second phase of electrification

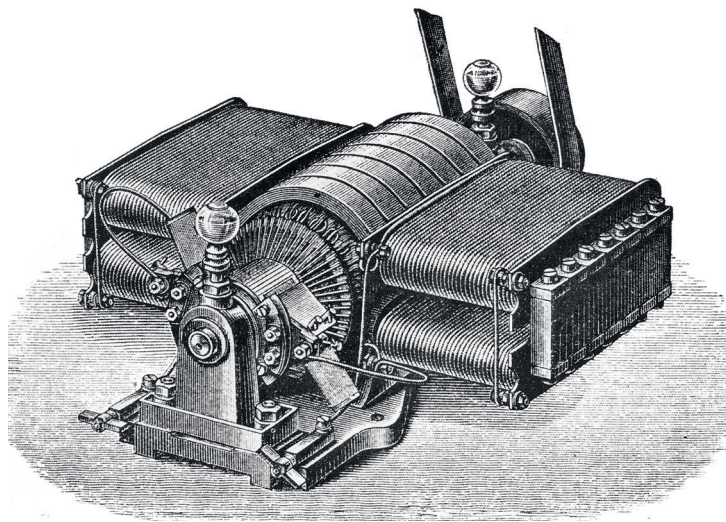
The computerisation of society
and the post-industrial transition

The digital Economy: From brownfields to greyfields

Dematerialisation
Advanced digital logistics

From the room to the pocket:
the architecture of cloudification

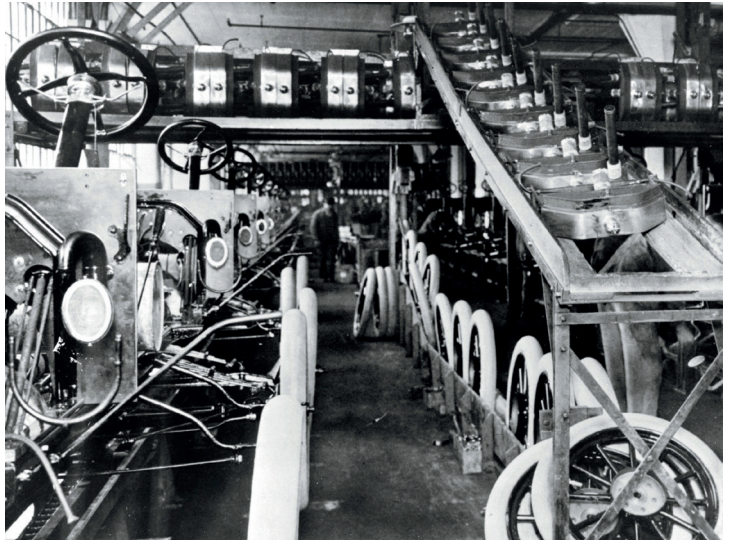
The centralised production of computing power
The ubiquity of processing power



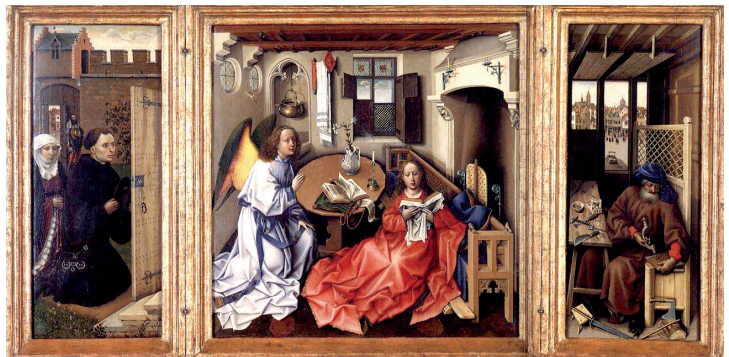
Siemens Dynamo



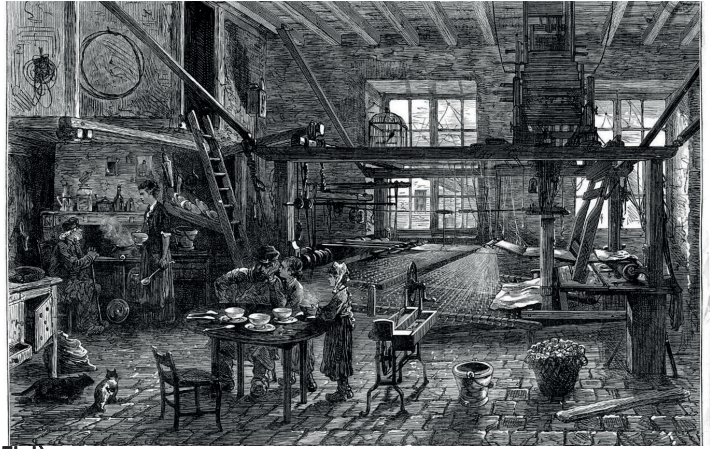
Electric lights NYC



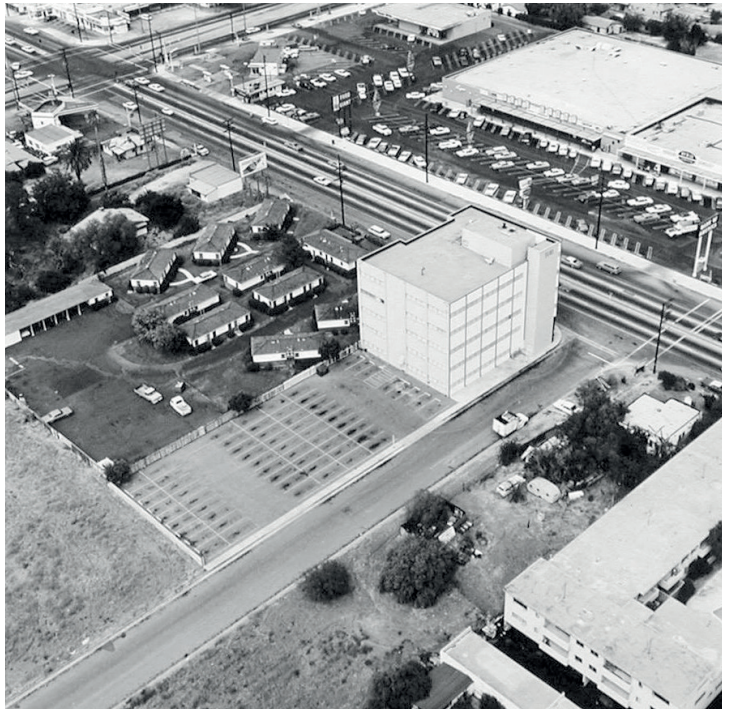
Ford Model T, assembly line, 1913



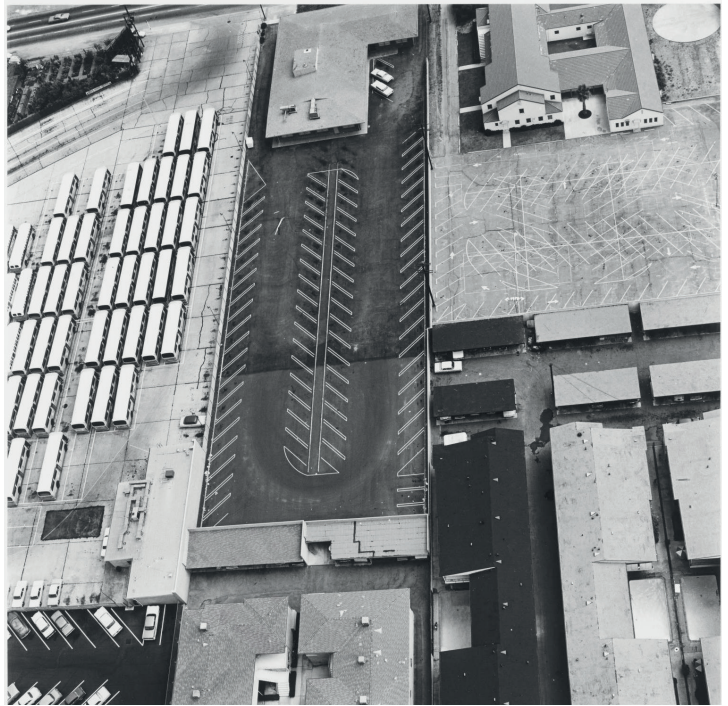
Medieval Triptych : working / living



La Crise Lyonnaise (Canut Flat)



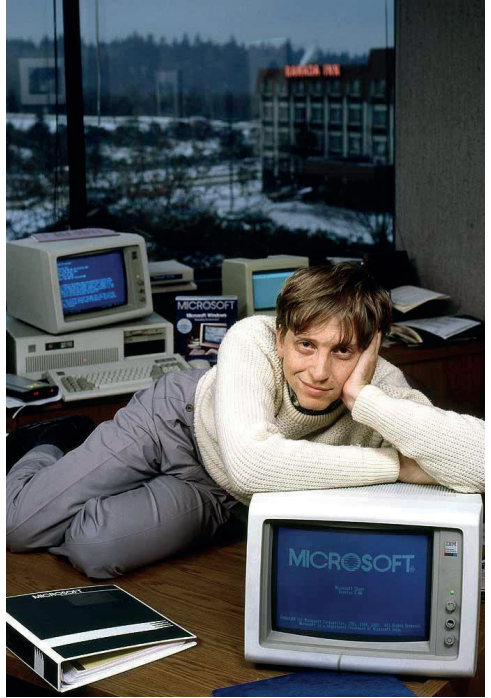
Ruscha Parking lots 01



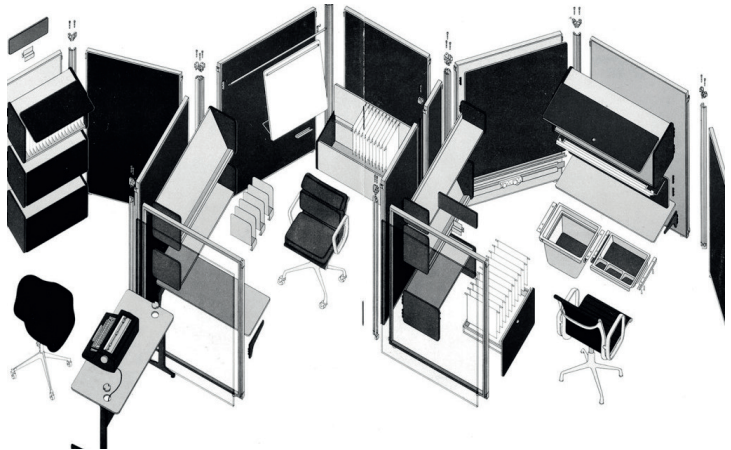
Ruscha Parking lots 02



Beer advertisement (Garden/kitchen)



Bill Gates and Microsoft



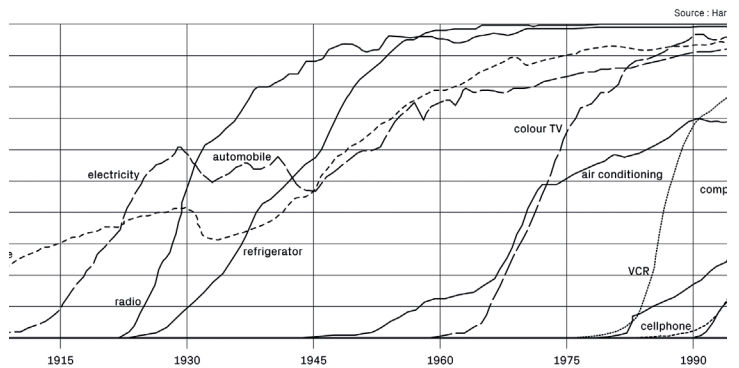
Action office axonometric



PC Cubicle Farm



Ruhrmuseum OMA IMG



THE ACCELERATION OF TECHNOLOGICAL PENETRATION IN THE USA

Acceleration of technological penetration in the USA



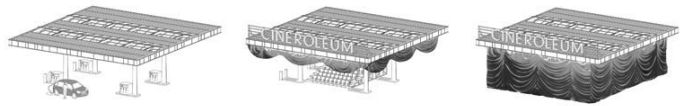
Amazon Fulfilment Center



Abandoned Wal-Mart



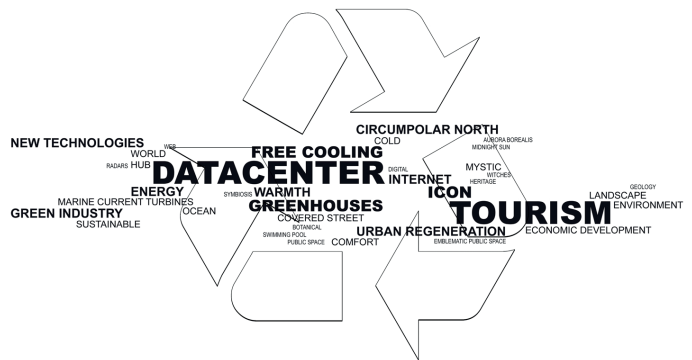
Rackspace Transformation



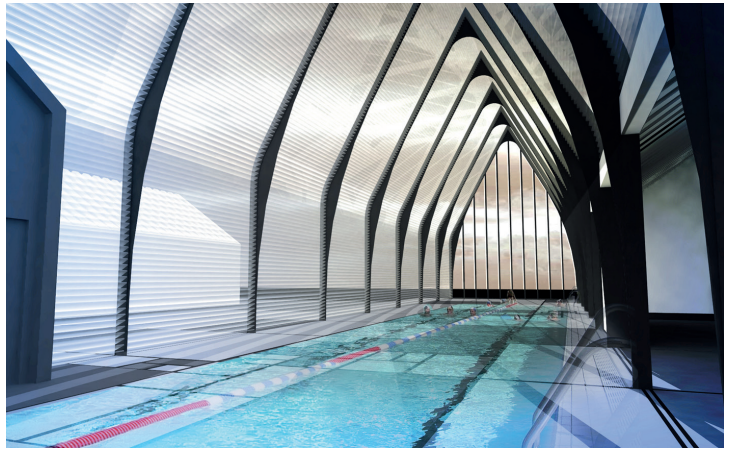
Cineroleum Axonometrics



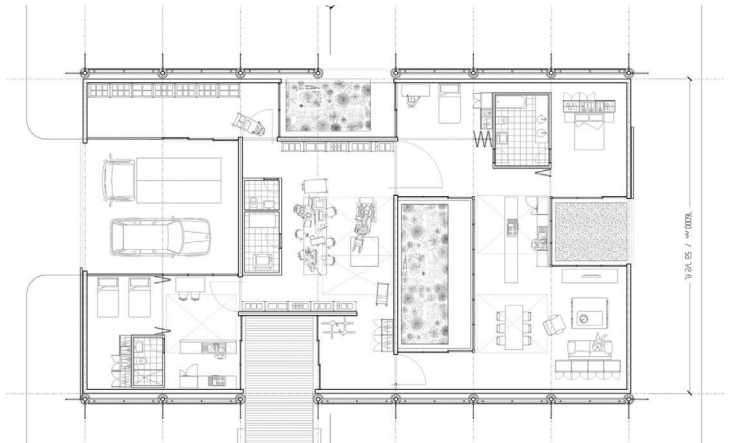
GSAPP KGDVS Data center



Datarock Schema Recycling



Datarock (Pool)



Double House Harry Wei

0 4

BUILDING IN THE POSTDIGITAL AGE

Digital fabrication and architecture

Digital fabrication machines
Creating new “smart materials”

The return of personal fabrication

Fab-labs, maker culture and amateurism in architecture

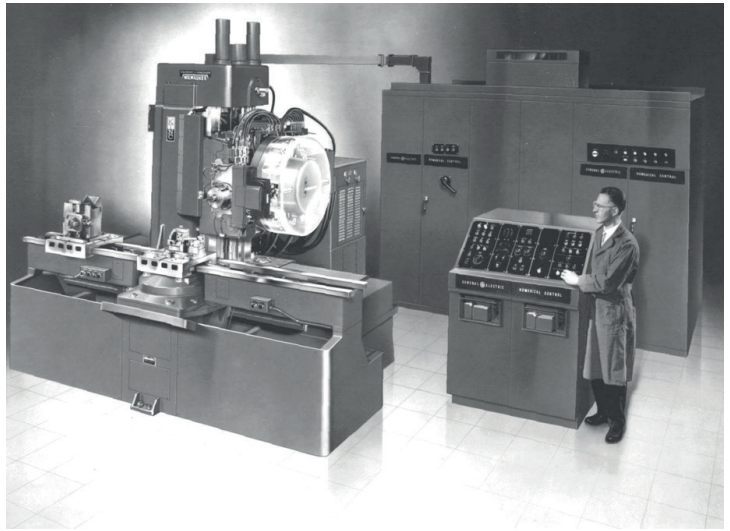
Fab-labs
Maker culture
Amateurism
Personal fabrication on architecture ?

Shifting geographies: Redistributed manufacturing

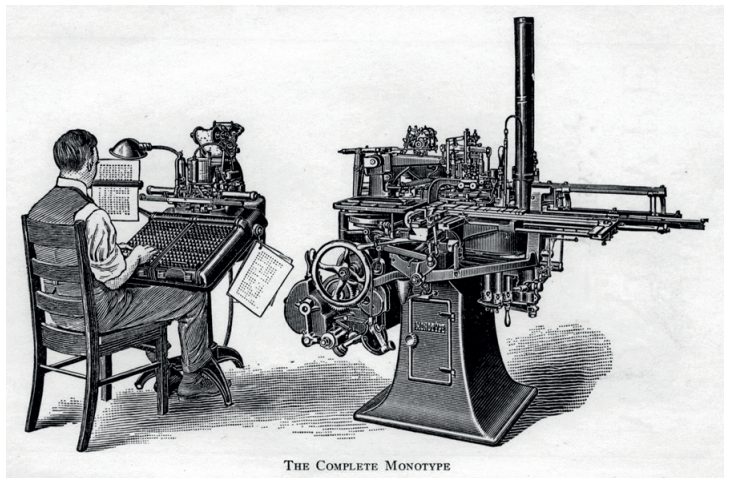
Shipping recipes
Observations on open-furniture
Redistributed manufacturing in architecture ?



Metier Jacquard



CNC General Electric



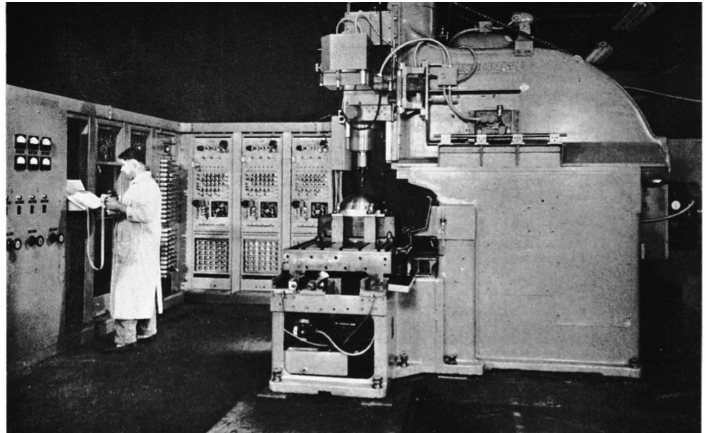
Monotype Machine



+



iPhone + Printer

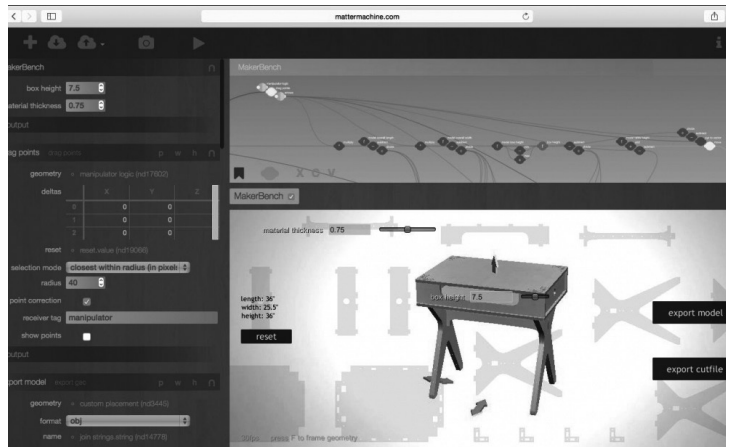


Too big yet for home shop, this MIT milling machine is run by computer-control at left.

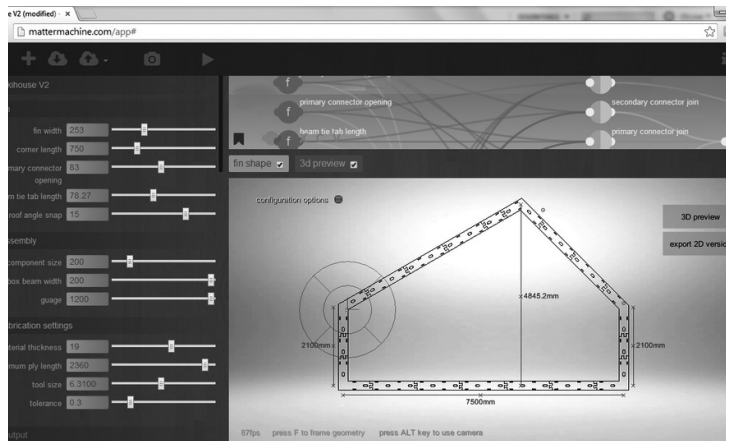
First MIT CNC Milling Machine, 1952



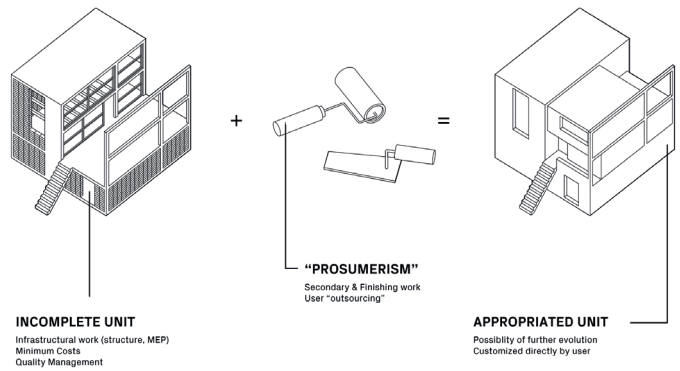
Crawlbot CNC router, 2015



Mattermachine “desk” screenshot



Mattermachine “Wikihouse Section” screenshot



Elemental chile Concept



Elemental chile before customisation



Elemental chile after customisation



Gramazio Kohler NEST 1/2



Gramazio Kohler NEST 2/2



Wikihouse CNC-cutting elements



Wikihouse screwless bespoke assamblage



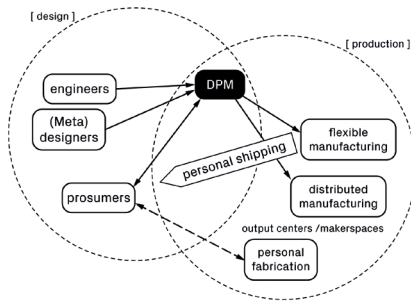
Wikihouse fast profiles construction



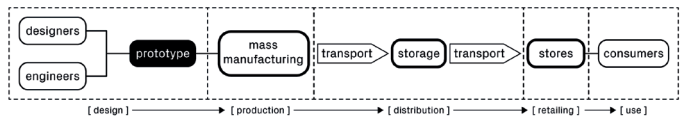
Wikihouse A-barn completed project

NEW (REDISTRIBUTED MANUFACTURING)

DPM : Digital Product Model

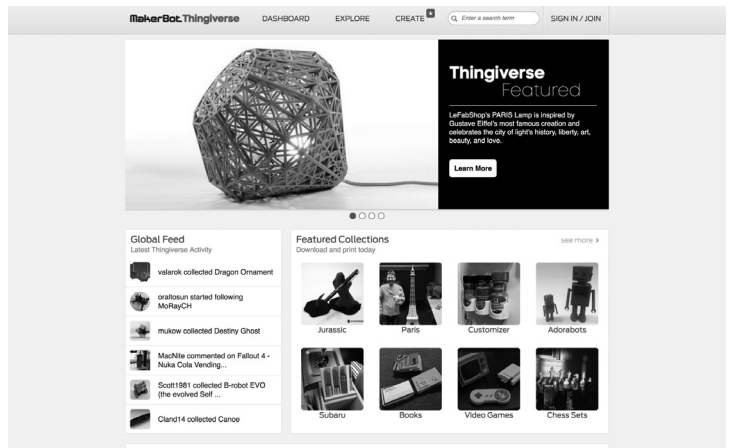


OLD (TRADITIONAL SUPPLY CHAIN)

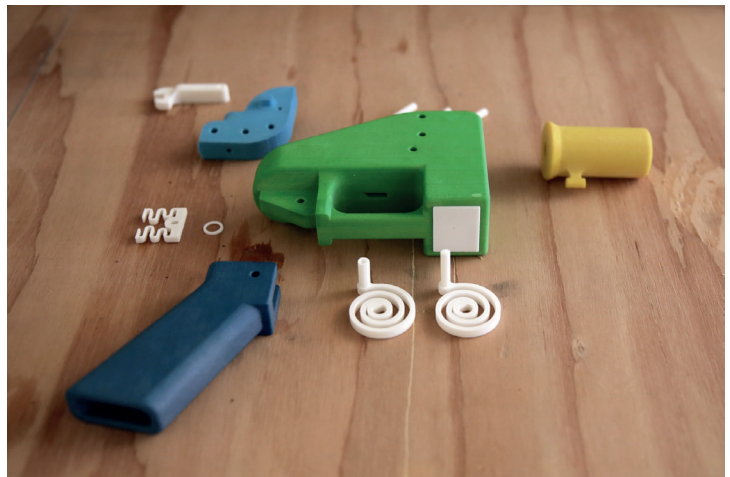


Distributed Manufacturing Diagrams

OLD VS. NEW PRODUCTION AND DISTRIBUTION PARADIGMS



Thingiverse.com

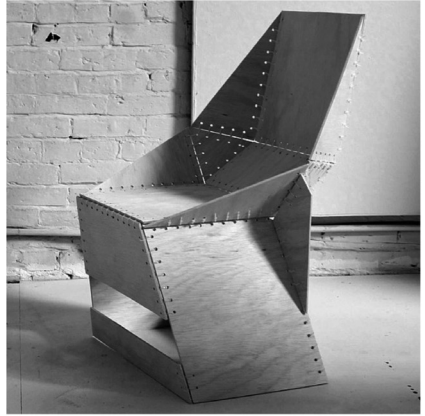


Defense distributed "Liberator Gun"

Open Design – The ZipStitch Chair

Due to the advent of modern technologies such as 3D Printing and propelled by the possibilities of the internet, the vision of Open Design – Design that is available to everyone to be manufactured, adapted and shared – seems more feasible now than ever before. The plans for furniture or the 3D printing data for accessories can easily be downloaded from websites. In FabLabs the tools and machines to build these designs are available to all. Is Open Design just a short-lived trend or maybe paving the way for the design process of the future? After an introduction into the topic, each participant builds the ZipStitch Chair by the American blogger and designer Ben Uyeda (HomeMade Modern) as an example of Open Design.

Duration: 6 hours
 Maximum group size: 10 persons
 Price: € 85,00 per Person
 Dates: 21 November 2015, 16 January, 20 February, 9 April 2016, 10:30 Uh



YOUR VISIT / YOUR OPINION / CONTACT / NEWSLETTER / CREDITS / SEARCH

Vitra Zip Chair



Discover makers near you
 Find digital fabricators to work with »



Explore the design studio
 Share and vote on up-and-coming designs »



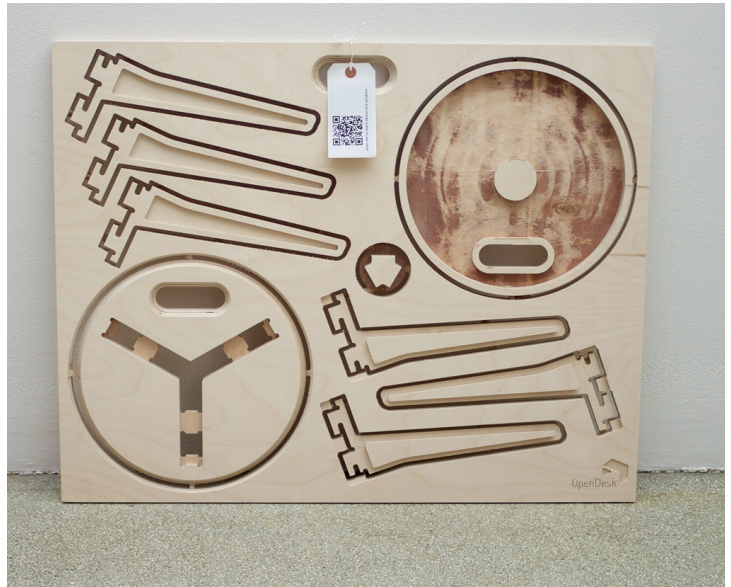
Enter the global workshop
 Check out OpenDeskis being made in the wild »

All around the world ...



We're part of an amazing community of Open Makers, find out more at <https://openmaking.is>

World Map Opendesk



Opendesk Flat Table



Foster "redline project" construction

0 5

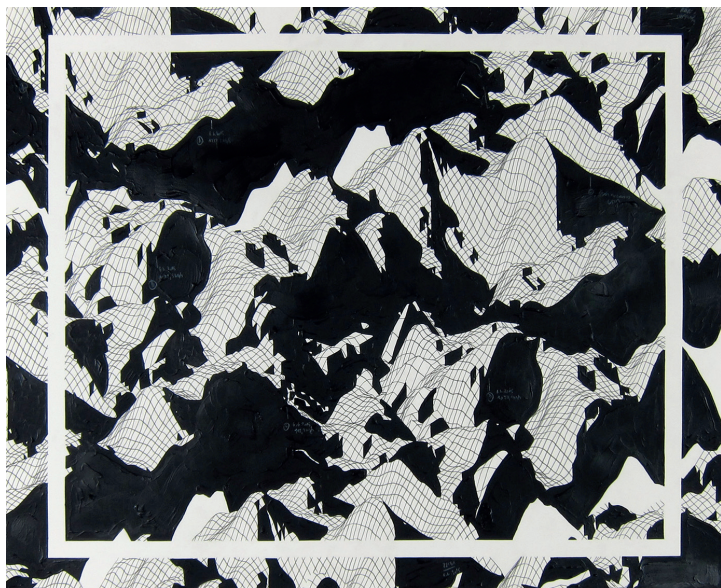
THE RISE OF FULL-SPECTRUM ARCHITECTURE

The electromagnetic landscape

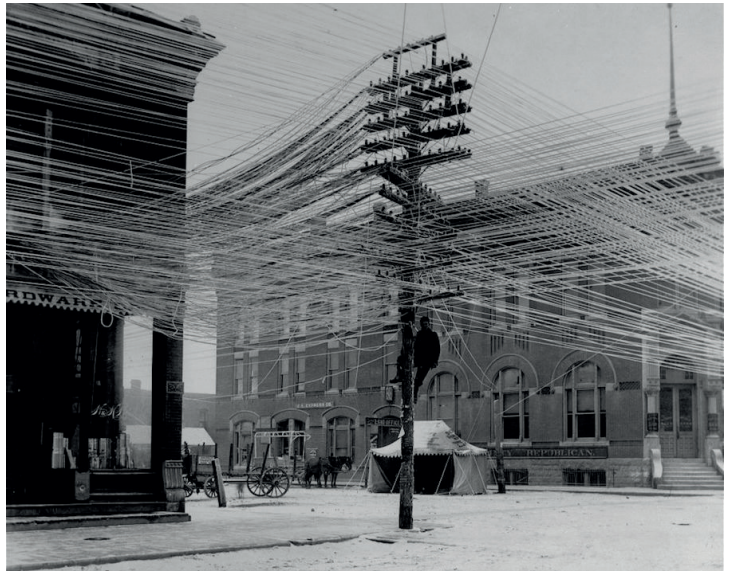
The Infosphere
An invisible layer

Full-spectrum architecture

Physiological approach and “meteorological architecture”
Informational approach and “crypto-architecture”



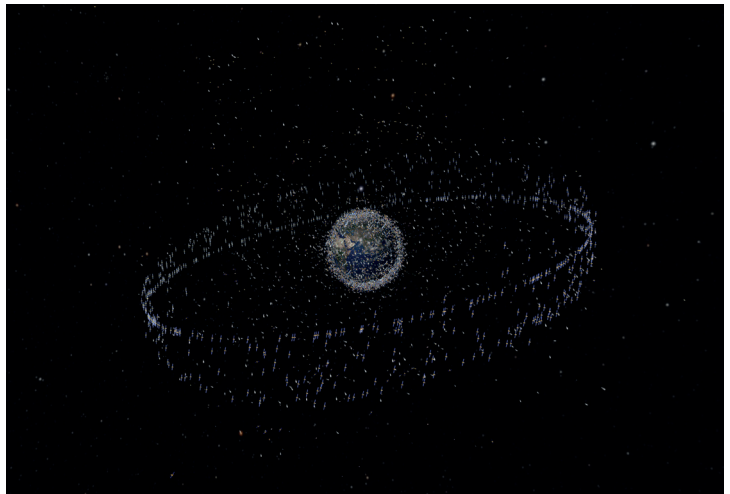
Peter Jellitsch Drawing 38



A Telegraph pole in Pratt, Kansas, 1911



Stockholm Telephone Tower



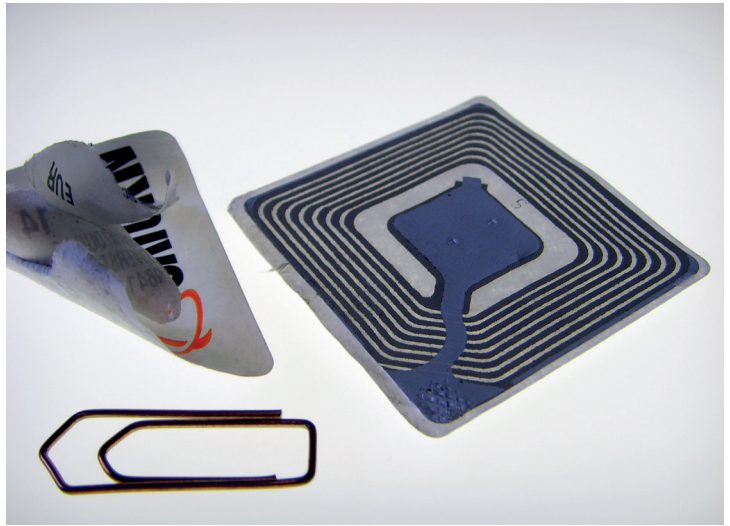
NASA Satellite arounds earth



The architecture of Radio



WiMax Panel



RFID Tag

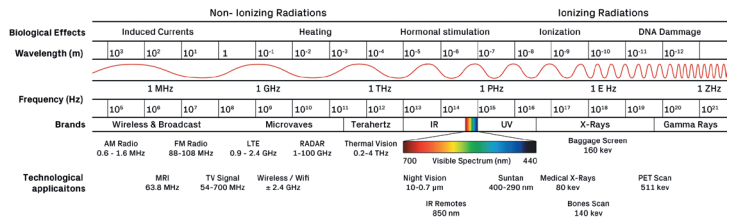


Immaterial Wifi 1/2

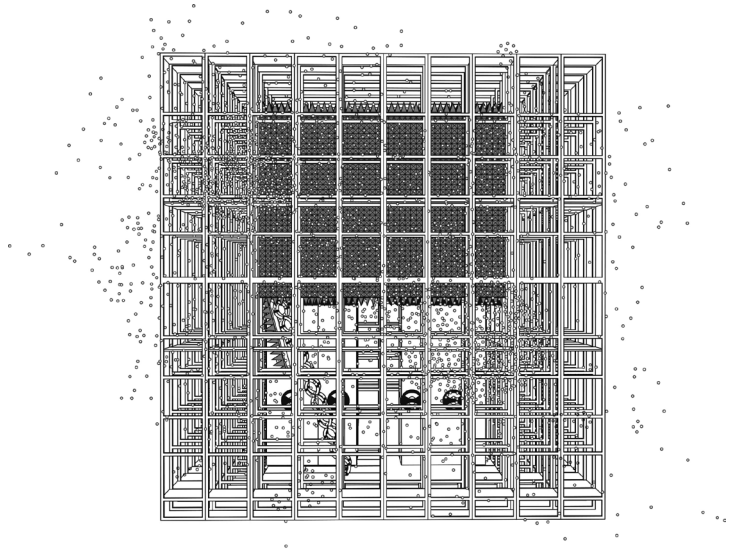


Immaterial Wifi 2/2

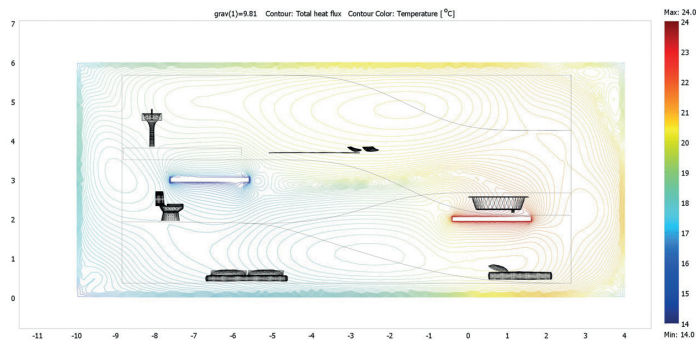
EMBRACING THE FULL ELECTROMAGNETIC SPECTRUM



The Full Electromagnetic Spectrum



RAM House Space Caviar



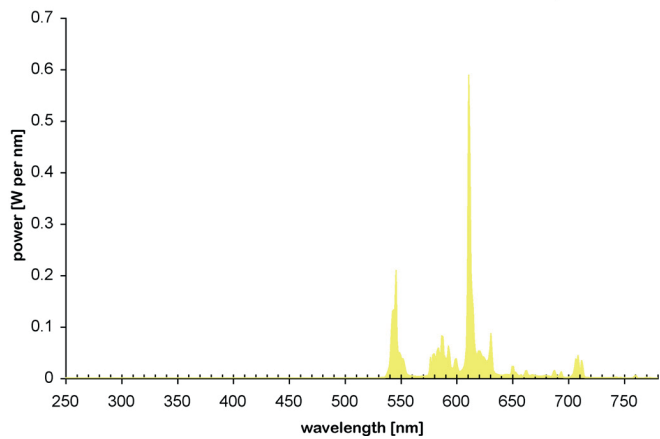
Interior Gulf Stream Section



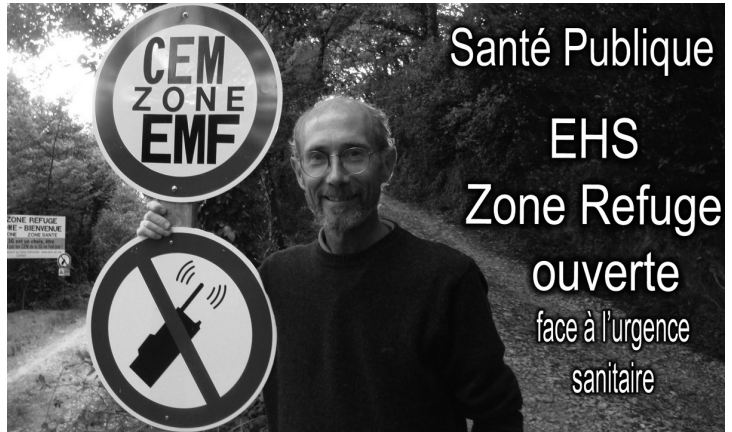
Diurnism Picture

Spectral Power distribution

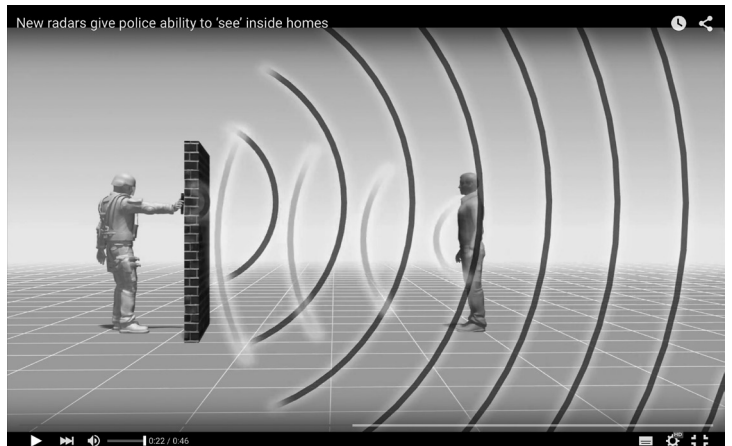
Meas n°: M548015.B
Lamp n°: TLD3683TYCO-1



Diurnism Diagram



Signage Zone EMF / CEM



Youtube Screenshot Police Radar

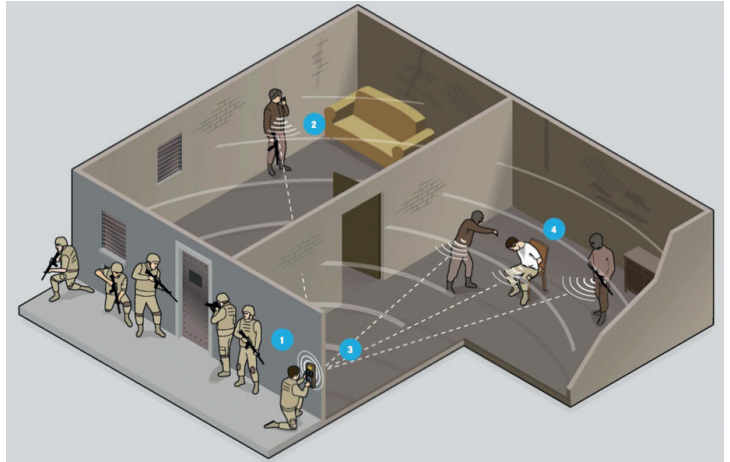


Illustration Range-R Radar

0 6

THE ARCHITECTURE OF THE WELL-CONNECTED ENVIRONMENT

The material redefinition of architectonic elements

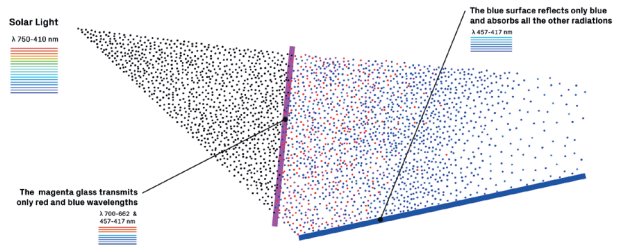
Counter-surveillance materialities
Faraday cages

The re-thinking of technical installations
in architecture

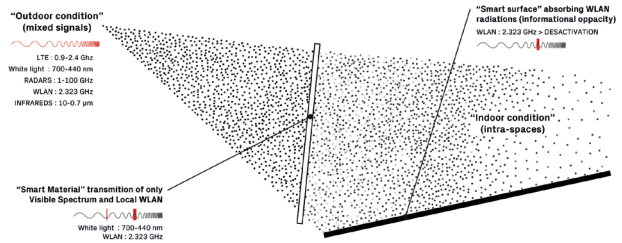
Two technical attitudes
Technological resilience

The adaptation of architectural typologies

The postdigital re-calibration of domestic environments
The full-spectrum extension of public space
Active equipment / Positive spaces
Passive equipment / Negative spaces
“From smoking to instant messaging”



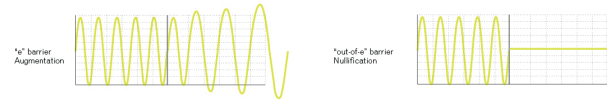
MATERIAL MANIPULATION OF SOLAR VISIBLE SPECTRUM



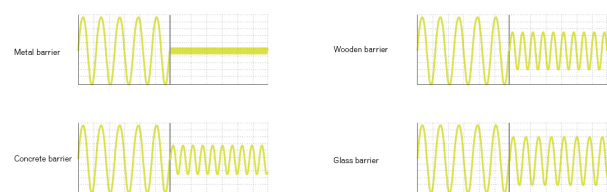
"SMART MATERIALS" MANIPULATION OF FULL ELECTROMAGNETIC SPECTRUM

Material Manipulation Spectrum

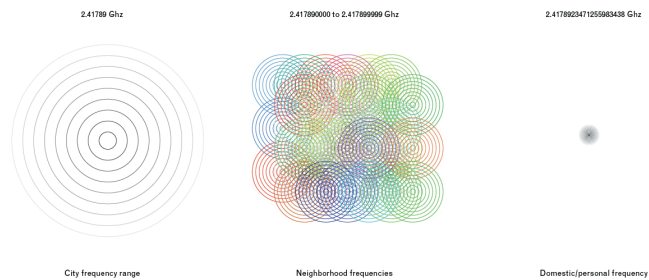
Material properties year 2035
Two materials will be used: one which augments the
wi-f signal, and another which nullifies it.



Material properties year 2010
Attenuation of electromagnetic radiation as it exists
today. These materials often inhibit wi-fi connection.



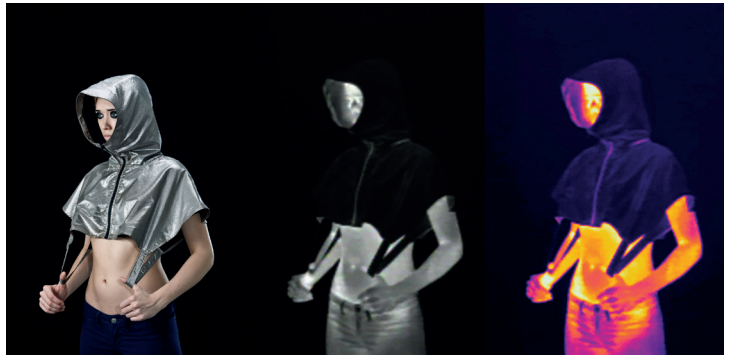
Future Outdoors: Wall Radiation



Future Outdoors: Wifi Interconnection



Stealth Ware Visual View



Stealth Ware Thermic and IR view



Transcendence Film Still



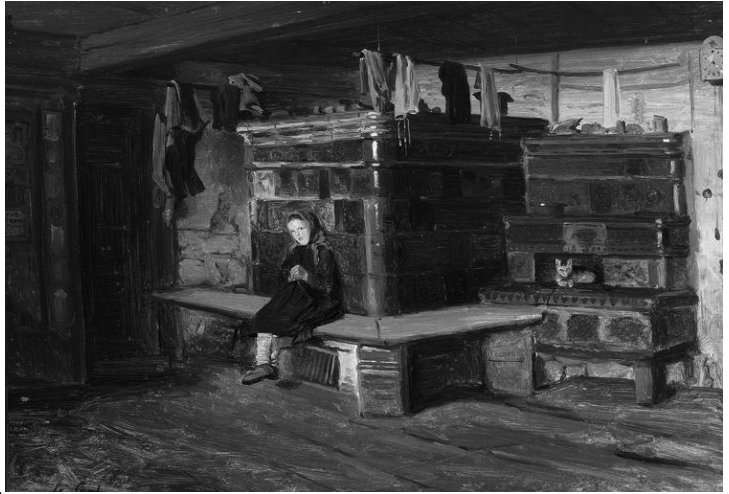
The Darkest Hour Film Still



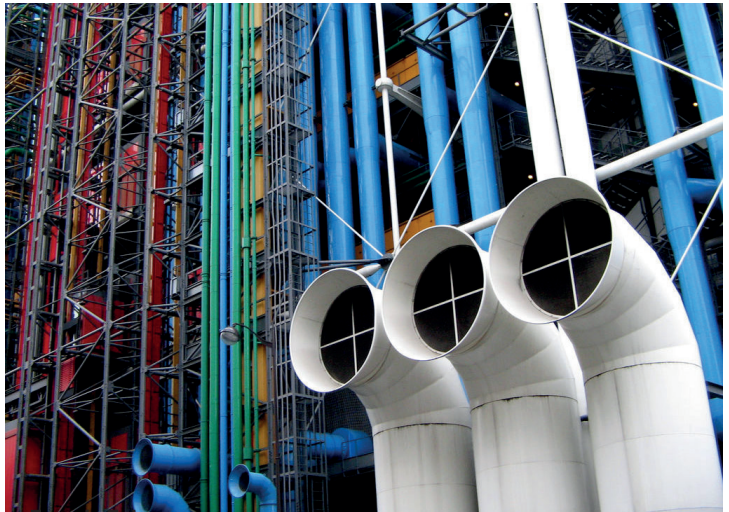
Anti-Drone Tent



Faraday Tent



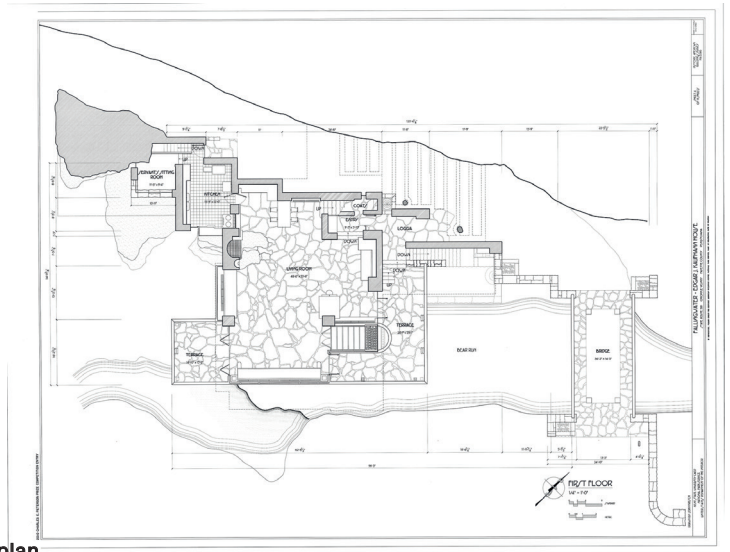
Schwarzwaldstube Painting



Centre Georges Pompidou - Facade Est



Falling Water : Hearth



Falling Water: First floor plan

Rahm double flux installation

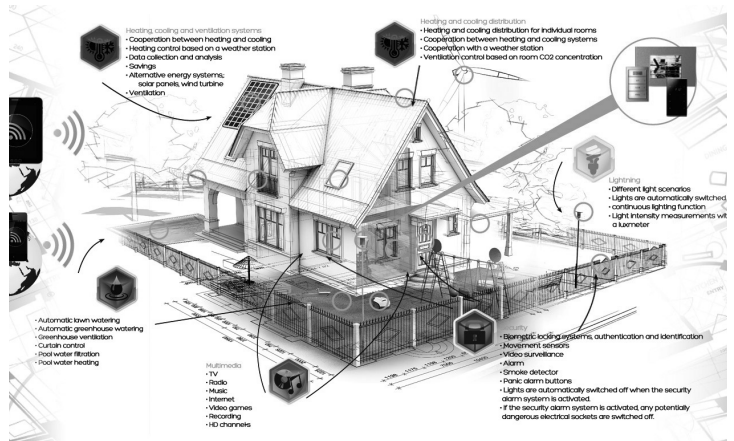




Rahm Stone heating



Rahm “Deteritorialized Milieus”



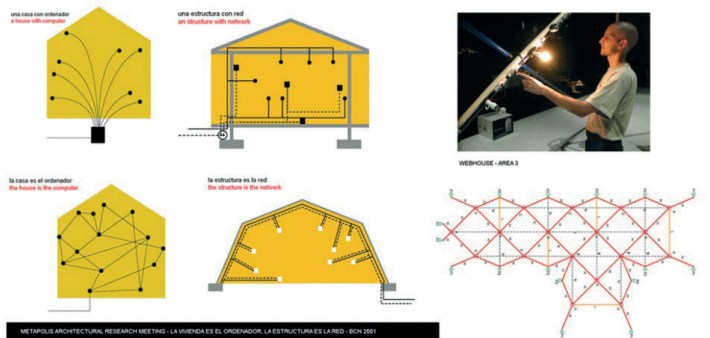
A typical “Smart Home” ?



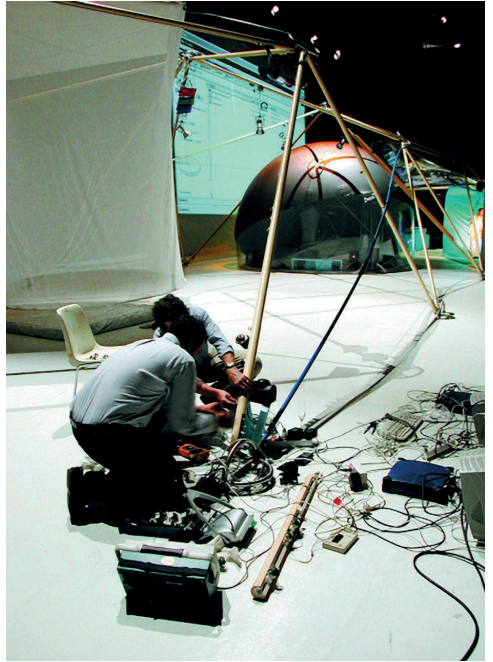
NEST Thermostat



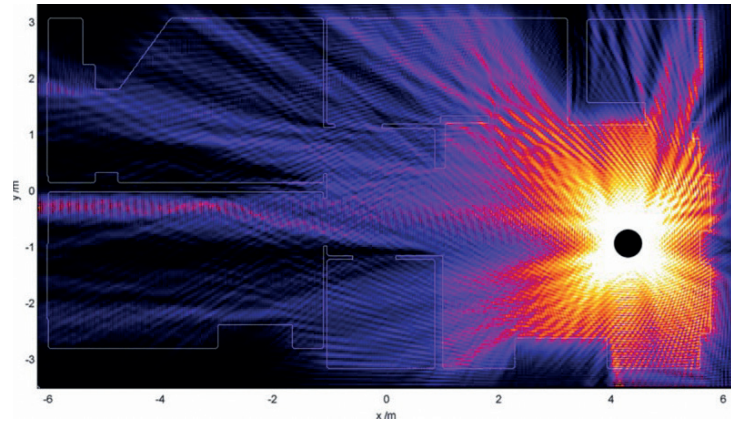
HDM Prada Tokyo CRT



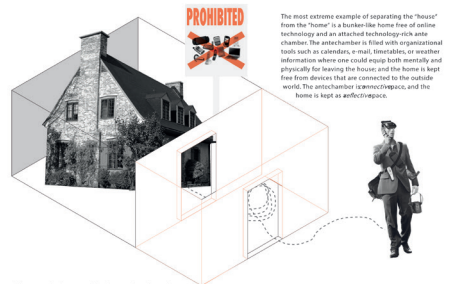
MIT Media-house diagrams



MIT Media-house Structure detail

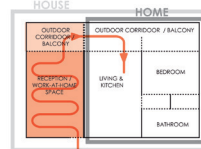


Wifi Home visualisation James Cole



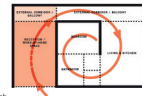
The most extreme example of separating the "house" from the "home" is a bunker-like home free of online technology and an attached technology-rich ante-chamber. The antechamber is filled with organizational tools such as calendars, e-mail, timetables, or weather information where one could equip both mentally and physically for leaving the house and the home is kept free from devices that are connected to the outside world. The antechamber is work/space, and the home is kept as affective/space.

A more moderate proposal is a home whose floor plan is structured to create a more pronounced house/home division by promoting a particular narrative of space.



Here, a work-at-home space is positioned at the entry into the home. Residents must pass through an outdoor corridor to move from the entryway into the living space of the home, emphasizing the threshold between house and home.

An alternate plan suggests a spiral journey into the house, with the more private, home-focused spaces at the end of the spiral. The entrance might include more work-related technology, with the core including more intimate technology.

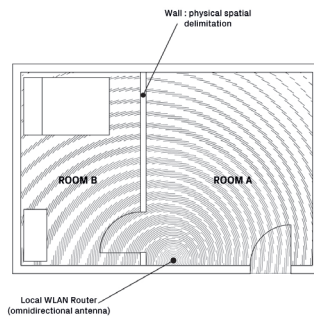


The Heterogenous Home Diagrams

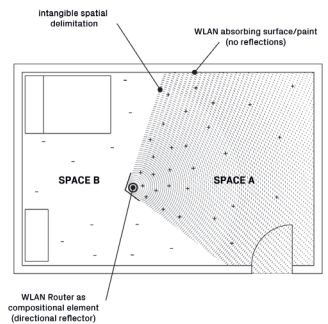


Wifi Antenna Hacking

“FULL-SPECTRUM” SPATIAL DELIMITATIONS & COMPOSITION STRATEGIES



Bedroom and Living room
Programmatic hierarchization vs. “informational homogeneity”

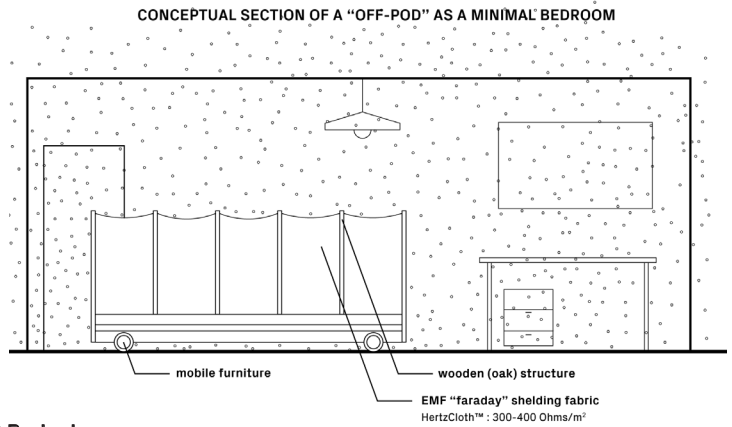


“OFF-Space” & “info-space”
Programmatic indetermination vs. “informational asymmetry”

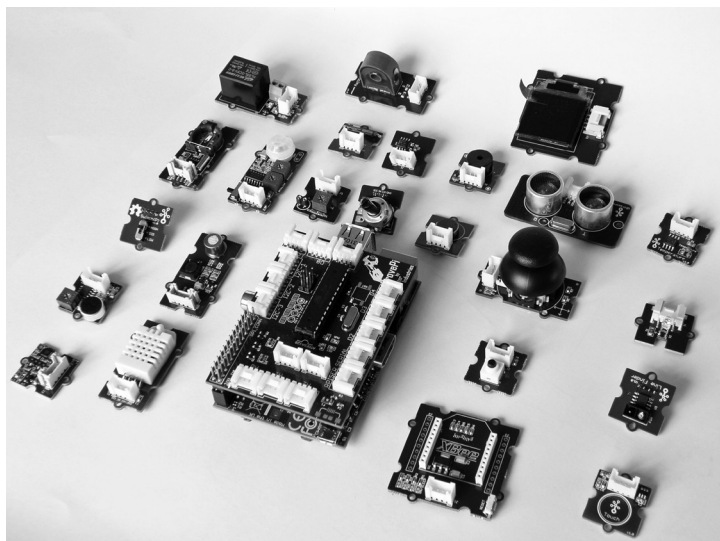
Full Spectrum composition strategies



Slow West Film Still



Axometric of OFF-BED Project



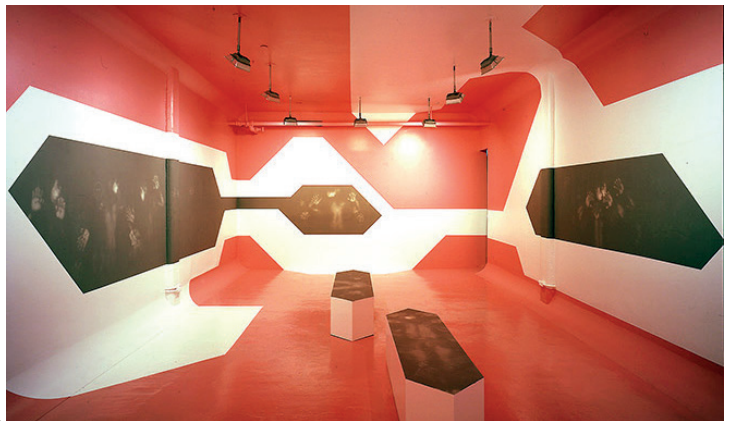
Grove IoT sensor Kit



FiiLike



Berg: Pixel Track



In Heat Jurgen Mayer IMG



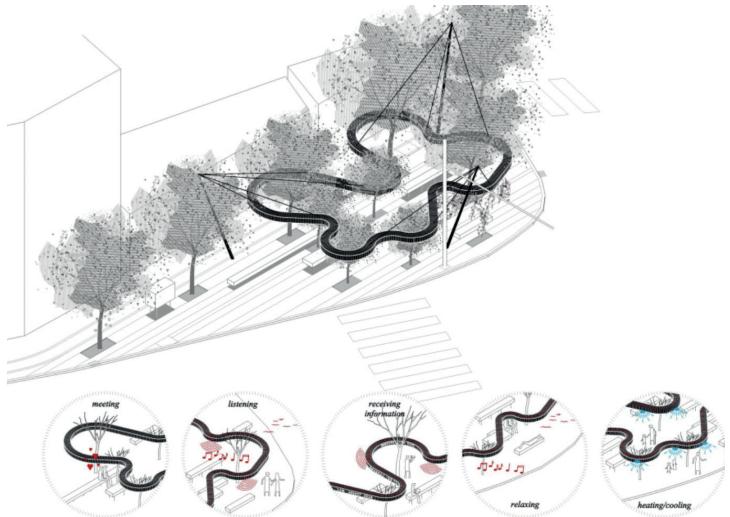
Bit-shift Thibault Brevet



Campo San Toma



Communication Hut



Communication Hut Axonometric



Escale Numérique



Music Kiosk Cambrai

One Nation Under CCTV





Harajuku Smoking Pavillion

0 7

POSTDIGITAL AESTHETICS IN ARCHITECTURE

The deep integration of digital culture

A global phenomenon
Cultural indifferentiation

The mediatic transition

Digital artefacts and Language
The birth of “emoji-architecture”?!

The architecture for/by digital natives

Millenials, generation Z and beyond
Immediacy and architectural flattening

“The New Aesthetic”

James Bridle
Postdigital Aesthetics of Failure
“Youth Mode”



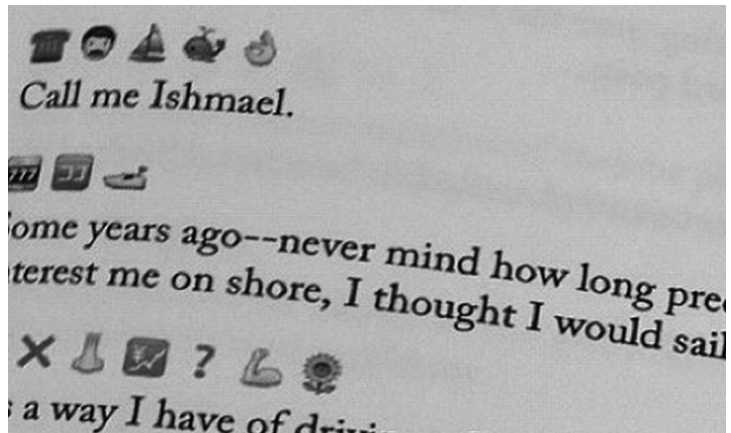
African pay-phone systems



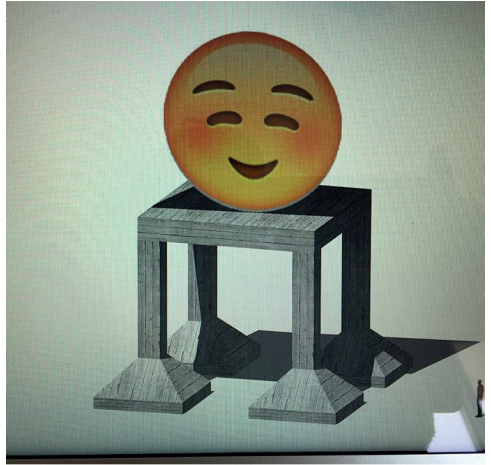
Predator Drone War Rug



Hashtag Finger Nimrod Kamer



Emoji-Dick Book (2010)



...

♥ 107 likes

angelidakis #postdigital #postduck

Angelidakis Emoji Duck





♥ 79 likes

angelidakis Domino Duck #workingonalecture
#postdigital

dakisp ❤️



Angelidakis Venturi Duck



Emojiopolis

Dear Santa,
How are you? I'm good.
Here is what I want for
Christmas.

Ahttp://www.amazon.com/
gp/product/B0032HF60
M/ref=59_hps_bw_g2l_
ir03?pf_rd_m=ATVP
DKIKXODER&pf_rd
s=center-38&pf_rd_r=1XW4
42FH1K03V7BMWQNM
&pf_rd_t=101&pf_rd_p=12289
01542&pf_rd_i=16579

Amazon Santa Letter



1-Click Architecture Geneva

CDG Polka Dot Dress





ANREALAGE Pixel Dot Dress



Been trill NYC snapback



HD is Off Sweater



Sculpture Amanda Ross-Ho



Google Earth Dead Pixel Large



Google Earth Dead Pixel Close

HEEEEEK: Large View





HEEEEEK: Close-up Photo



BEUYS Vitrinen HD-ON



BEUYS Vitrinen HD-OFF

0 8

INTEGRATED AESTHETICS VS. TECHBRUTALISM

New forms of digital divide

Digital literacy
The architectural context

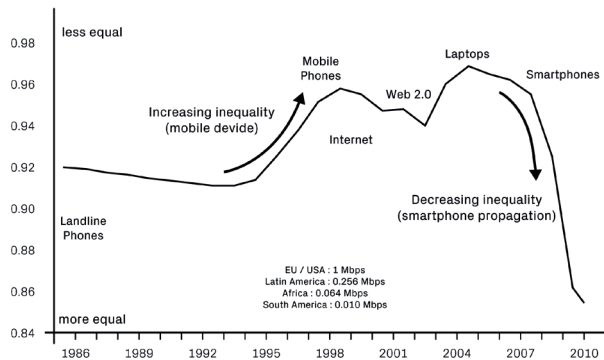
Digital perfection and the “quality-rat-race”

The “quality rat-race” and
integrated aesthetics
The quality threshold

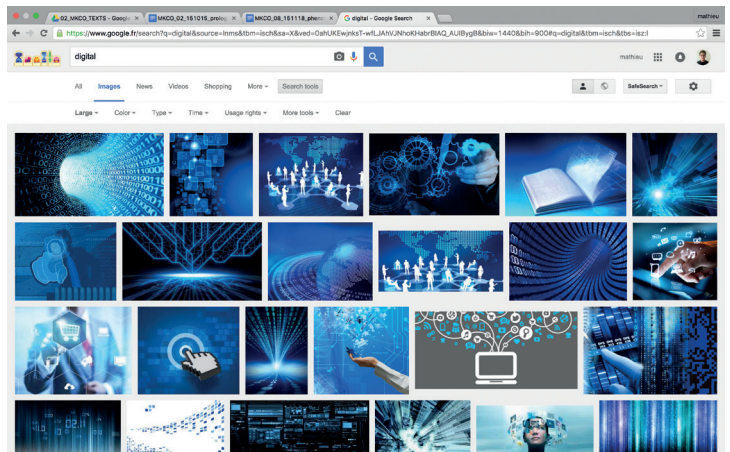
Techbrutalism

Digital bricolage
A visual sampling for Techbrutalism
A short exploration of “Elysium aesthetics”

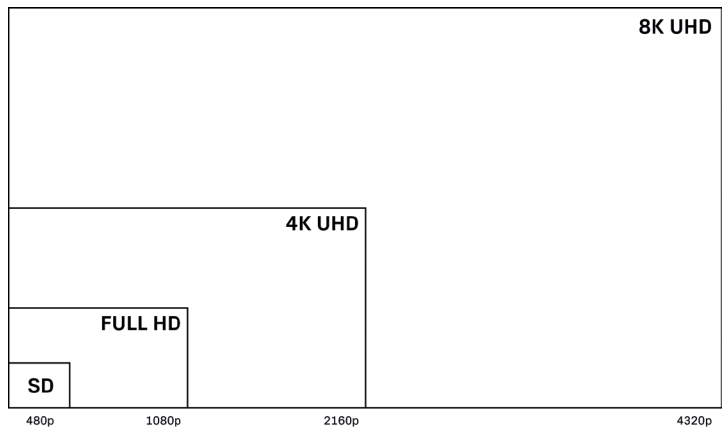
Gini Coefficient for the telecommunication capacity (in KBPS)
Per individual Worldwide (study done in 208 countries)



GINI Digital Divide Diagram



Digital Google Images screenshot



SD to HD Diagram



Motorola Micro Tac



iPhone 6s



UNStudio : Moebius House



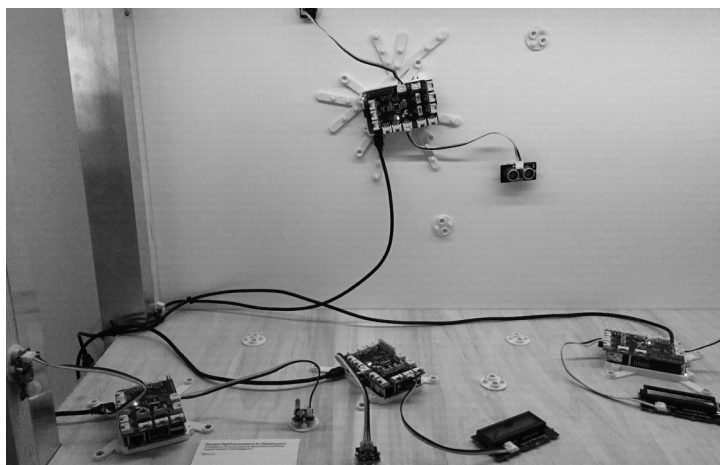
UNStudio: Arnhem Station



Fresh Breeze Old Smell



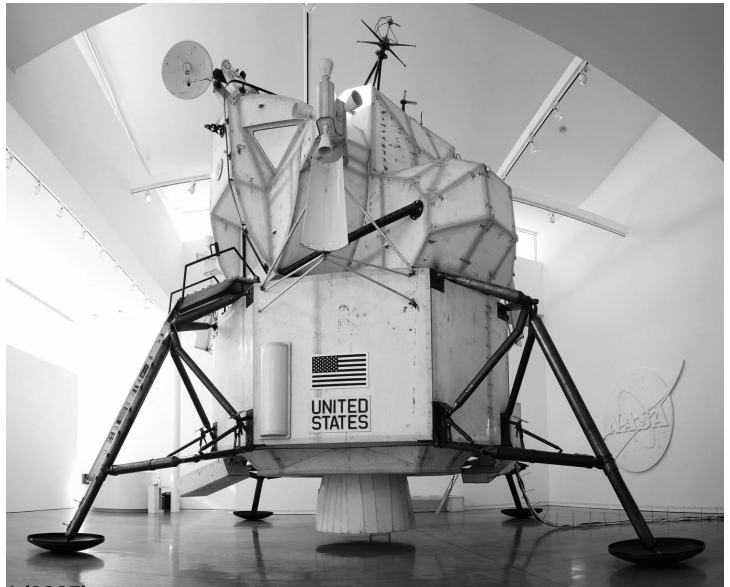
Lacaton & Vassal Palais de Tokyo (2012)



Raspberry Pi HEK



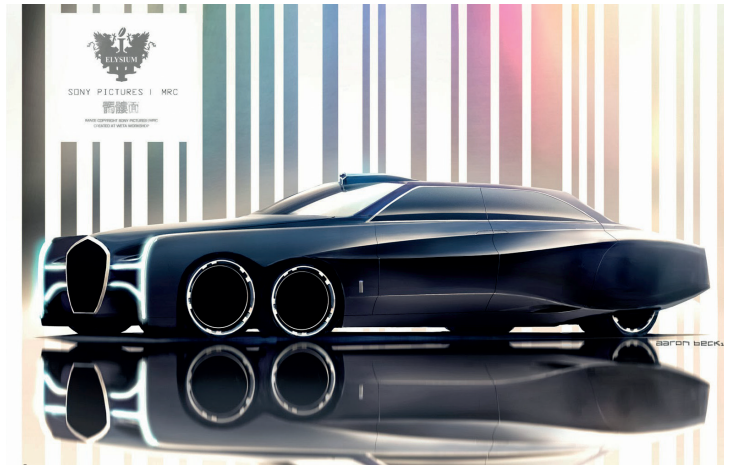
Tom Sachs: godfather viewing station (2013)



Tom Sachs: Apollo LEM 1:1 (2007)



Opendesk CNC Table Mounting



Elysium: Integrated Limousine



Elysium: Hacker Race-Car



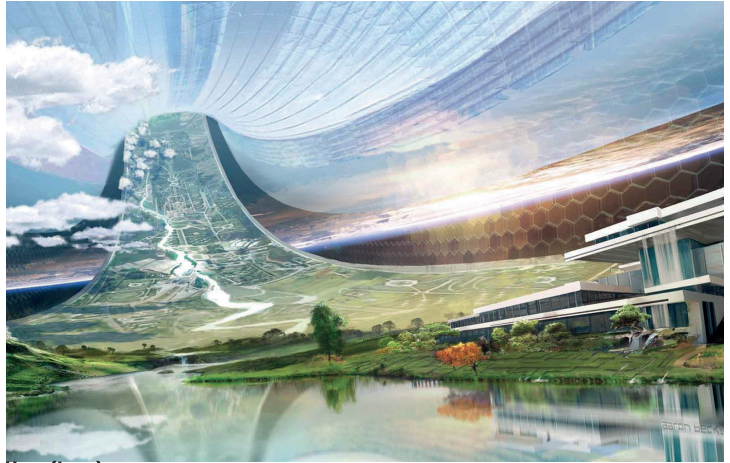
Elysium: Prada Escort-bot

SONY PICTURES | MRC
HARPO RD
GENERATION

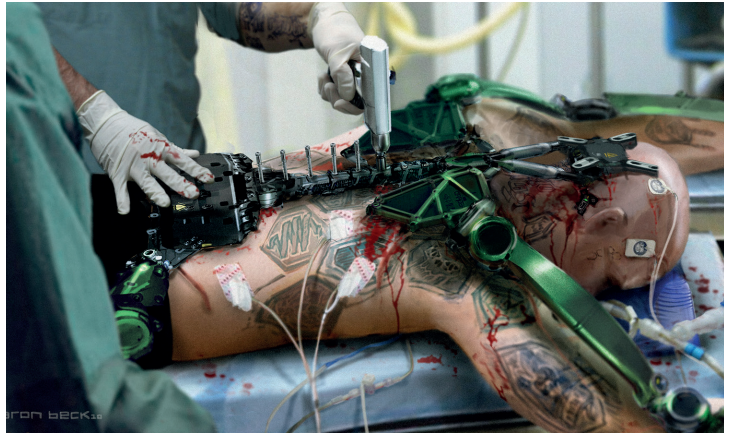


BARON BECK

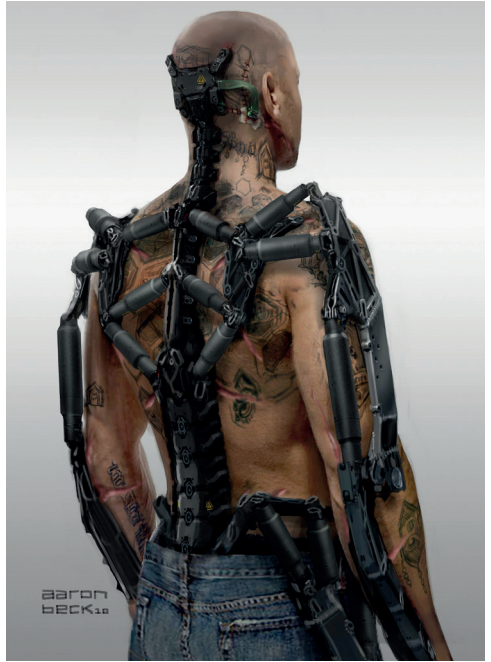
Elysium: Nurse-Bot



Elysium: Internal Perspective (tore)



Elysium: screwing exoskeleton



Elysium: exoskeleton concept

