

**Iaac**

Institute for  
advanced  
architecture  
of Catalonia

BARCELONA



MASTER IN  
CITY &

**TECHNOLOGY**

BARCELONA 2017 - 2018

# WORLD OF CITIES

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The next 40 years will see an unprecedented transformation in the global urban landscape. Between 2010 and 2050, the number of people living in cities will increase from 3.6 billion to 6.3 billion. Almost all of that growth will occur in developing countries. By 2025 there will be 37 megacities, each with a population greater than 10 million; 22 of those cities will be in Asia. The impacts of this new phase of urbanization on the global economy and on existing urban infrastructure and resources are already being felt. They are also spurring innovation in urban design, technologies, and services. Trillions of dollars will be spent on urban infrastructure in this period, presenting an immense opportunity for new transport management systems, smart grids, water monitoring systems, and energy efficient buildings. Information and communication technologies will

be deeply embedded in the fabric of both old and new cities and will change the way we think of city operations and how we live and work in these environments. Pike Research forecasts that the smart city technology market will grow from \$6.1 billion annually in 2012 to \$20.2 billion in 2020.<sup>{1}</sup>

Metaphors based on futurism and utopianism have been used over the past two decades to describe the changing ICT-based city. The information era and the technological advances in communications allow specific planning and design ideas to get far away from futuristic approaches; concepts for the future agglomeration seek bottom-up processes where importance is not final aesthetics or final accountancies but rather than data and information that prepare the ground for the birth of an urban metabolism.

Urban environments have always stood in close relationship to the technologies of production, transport, and communications. By introducing ICT in spatial planning, it can be conceptualized as a new type of infrastructure providing for the transport of data or information. As technologies and their impacts on urban environment change, their relationship calls for new or adapted concepts, where the emerging pattern language of electronic connections tie in seamlessly with the language of physical connections.

The great challenge for a new urban metabolism lies in the capacity of the city to interact, to give and receive information among interconnected nodes of different scales and natures (infrastructure, buildings, public space elements, environmental conditions, flows). This anticipates fundamental concepts related to the importance of proposing

symbiotic systems of organization based on real time data that can be further articulated into responsive systems and metabolic organizations, where small decisions can have a large impact at an urban scale. Cities, then, perform as organisms and become behavioral.

The city is a connective network among human beings and their activities. This is what led to urbanization in the first place: individuals clustered so that communication distances would shrink to a minimum, while the number of connective nodes increased.

The future city model gives a leading role to information and communication technologies as well as to user empowerment in terms of interaction and innovation.

{1} [www.pikeresearch.com/research/smart-cities](http://www.pikeresearch.com/research/smart-cities)



# MASTER IN CITY & TECHNOLOGY

The Master in City and Technology is a professional Master program oriented in training the new professionals that both City Government and Industry need in order to develop projects for the transformation of the cities using the potential of technologies of information.

Following up the urban research carried out by the IAAC in the last years in fields like Internet of Things, Smart Buildings, Eco neighborhoods, Internet of Energy, Hydrogrid, Digital Fabrication or Smart Cities, the Master in City and Technology is addressing the question of the implementation of Information and Communication Technologies (ICT) in different layers of the urban environment.

The program aims to develop new categories of projects, technologies and solutions that can be extended systematically to the cities of the world, thus helping them to become more efficient and more human.

Every Master Candidate will develop technological seminars, city studies, cultural analysis, and pilot projects in order to have a global comprehension of the development of Smart City Projects based in real real life environments.

Participants will be introduced to concepts such as Open Innovation and will learn the new necessary processes and tools on how cities, surrounding regions and rural areas can evolve towards sustainable open and user driven innovation ecosystems to boost future Internet research and future Internet enabled services of public interest and citizen participation.

They will be developing research on new modes of Economic Governance based on Public-Private Partnerships and decentralized collaboration

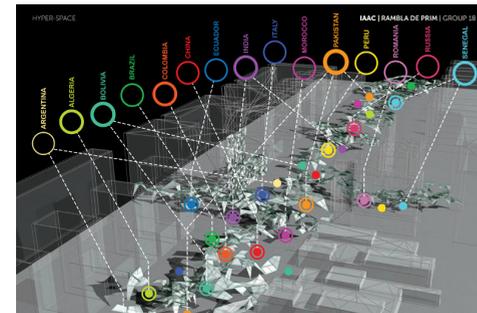
relying on the policy networks found in civil society.

Finally, Master Candidates will learn to develop and implement symbiotic systems of organization based on real time data that can be further articulated into responsive systems and metabolic organizations, where small decisions can have a large impact at an urban scale. They will learn how to make projects that integrate the design of public space and buildings, the infrastructures of services, the user interaction and the technologies of information, developing technical, social and economical skills. This will allow to develop the new economy of city services and the new models of city management that boost the potential of the Internet of Everything.

From urban planning to urban management and citizen-based services the Master in City and Technology foresee new city economy and new city management models through the creation of efficient, responsive, decentralized, productive and hyper connected systems to be implemented in order to build the city of the future.

The Master program is oriented to engineers, architects, designers, economists and graduates in any discipline related with the transformation and management of cities and technologies of information.

The program will be developed with the collaboration of companies and industry, and will form new professionals interested in leading this new field of city economy that is emerging worldwide.



# PROGRAM ORGANIZATION

The Master in City and Technology is an innovative educational format that offers interdisciplinary skills and understanding through the research on new categories of projects, technologies and solutions related with information and communication technologies in urban environments.

IAAC gives students the opportunity to create individual Studio agendas and develop Pilot Thesis Projects based on Citizen Innovation, New City Business Models, Urban Apps, Smart City Infrastructure, new Citizen-based Services, Open Data Development and more. In this way, IAAC puts together an experimental and learning environment for the training of professionals with both theoretical and practical responses to the increasing complexity of contemporary urban environments.

Students have the opportunity to be part of a highly international group, including faculty members, researchers and lecturers, in which they are encouraged to develop collective decision-making processes and materialize their project ideas.

The Master program represents an effort of facilitating the exchange of knowledge and the mutual learning of urban experiences among cities.

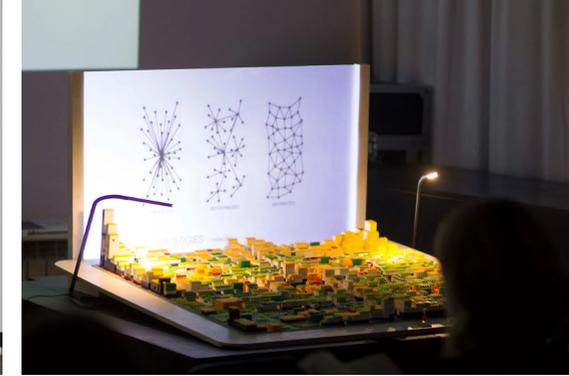
Barcelona is considered to be at the forefront for urban strategic planning, awarded the European Capital of Innovation ("iCapital" – 2014) prize "for introducing the use of new technologies to bring the city closer to citizens" by the European Commission.

MaCT foresees new city economy and new city management models for the creation of a decentralized, productive and social city of the future, forming graduates that will become the change makers in our future cities.

The Master develops seminars, studios and master classes along 5 main thematic: Theory, Strategic Planning, Technology, Urban Design, and Studios (Data, Strategy and Design).

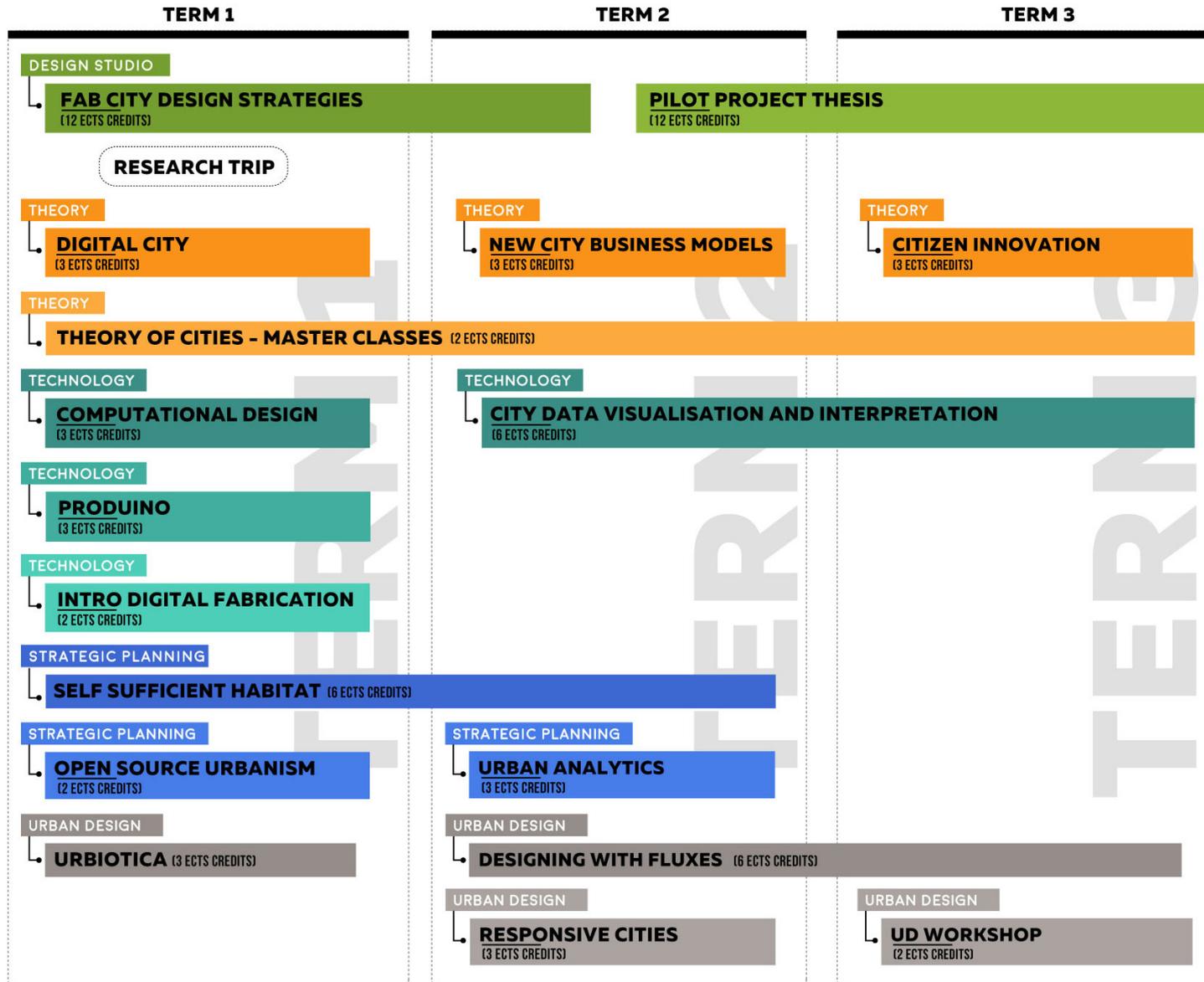
The Master in City and Technology comprises the following elements:

- TC. THEORY
- SP. STRATEGIC PLANNING
- TE. TECHNOLOGY
- UD. URBAN DESIGN
- ST. DESIGN STUDIO
- LS. LECTURE SERIES
- RT. RESEARCH TRIP

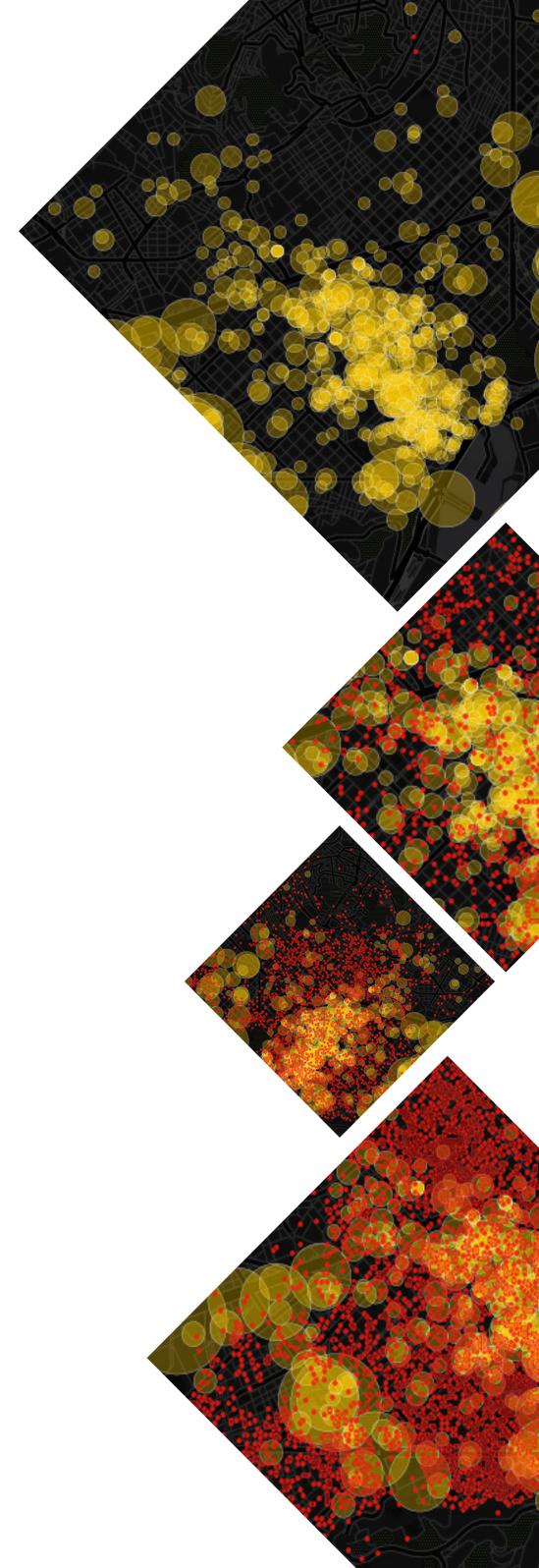


# PROGRAM

OCTOBER - JUNE



The following program refers to the Academic Year 2016-2017.  
The program for the Academic Year 2017-2018 may be subject to slight variations



# TUITION FEES

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## TUITION FOR STUDENTS ATTENDING MACT (75 ECTS: 1 YEAR)

Tuition for the year 2017/2018 is 16,000€. The selected candidates must send to the Institute a scanned proof of a down payment of 2,500€ to confirm participation, maximum 4 weeks after their acceptance. The remaining part of the tuition fee (13,500€) may be paid either in one or two intallments, 60% (8,100€), before September 1st, 2017 and 40% (5,400€) before December 1st, 2017.

All payments of the selected program must be paid by bank transfer only to:

Bank: Santander  
Agency: 6784  
IBAN – ES55 0049 6784 3226 1615 5632  
SWIFT – BSCHESMMXXX  
Holder: Institut d'Arquitectura Avançada de Catalunya.

Note: Make sure that bank transferring SUBJECT is the applicant's name, and not the person who orders the transfer. Also make sure to select the SWITF instructions code "OUR" when ordering the bank transfer. This means that you have to pay the transfer charges.

MACT  
STUDIOS AND SEMINARS

The following program refers to the Academic Year 2016-2017.  
The program for the Academic Year 2017-2018 may suffer minor variations.

# DESIGN RESEARCH STUDIO

TERM 1, 2 AND 3 - 2 DESIGN RESEARCH STUDIOS ARE DEVELOPED ALONG THE 3 TERMS.

## FACULTY OF PAST AND CURRENT EDITIONS:

ARETI MARKOPOULOU (IAAC ACADEMIC DIRECTOR),  
BRUNO MOSER (FOSTER + PARTNERS URBAN DESIGN GROUP),  
VICENTE GUALLART (VALLDAURA PROJECT FOR SELF SUFFICIENCY),  
TOMAS DIEZ (FAB CITY RESEARCH LABORATORY DIRECTOR),  
MATHILDE MARENGO (ACADEMIC COORDINATOR).

Human life is changing in a speed that never did before. New technologies are affecting the way we live, and how we interact with other humans and our physical space. How can we define the current city model? is the smart city enough? Do we really need a single model to define a city? How can our city adapt to the real-time needs and desires of its users?

The design research studios of the Master in City & Technology are oriented to the development and applications of the general learnings of the Master towards real urban scale interventions and applications. Each year the Master works hand in hand with a city from around the world, along with its administration, proposing advanced proposals for areas in transformation. The Master projects therefore contribute to real-world solutions. The first edition of the MaCT worked in the BDD Chawls area in the city of Mumbai, and the second edition of the Master is focussing on the city of Barcelona, now actuating the transformation of the SuperBlock Plan, initially proposed by Salvador

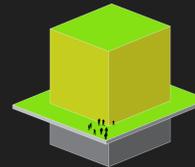
Rueda and the Barcelona Ecology Agency, in the @22 Innovation District of the city.

The third edition of the Master in City & Technology will be moving towards Asia, and China in particular, understanding and planning for the continuous and very fast paced urban growth the touches the country. This is an opportunity to work towards sustainability questioning big versus small, densities, smartness and slowness of cities; investigating how these cities can become productive; developing tools for participation through virtual and augmented reality; and actuating solutions for these future of the hyper connected mega city regions.

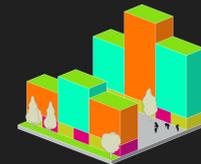


MaCT 2015/2016 - THE RESPONSIVE CITY

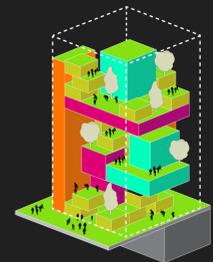
## typological study



mono-programmatic intervention



multiple mono-programmatic interventions



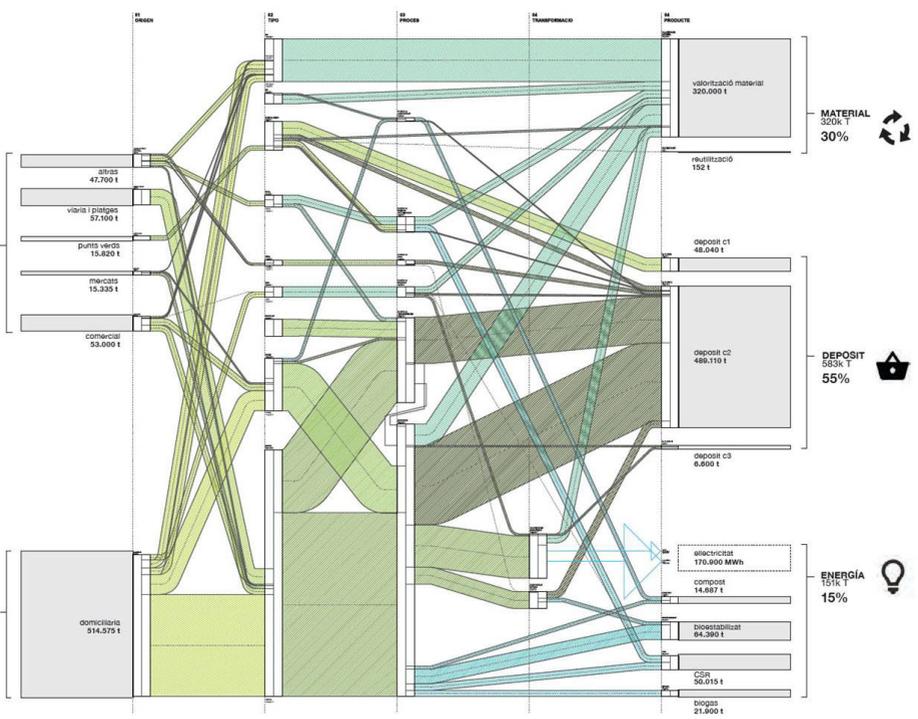
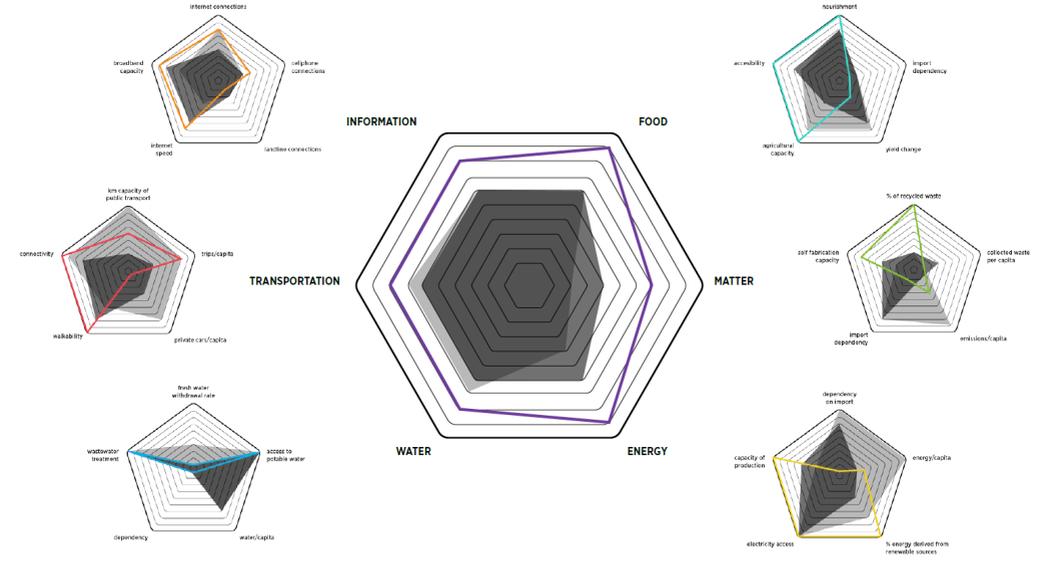
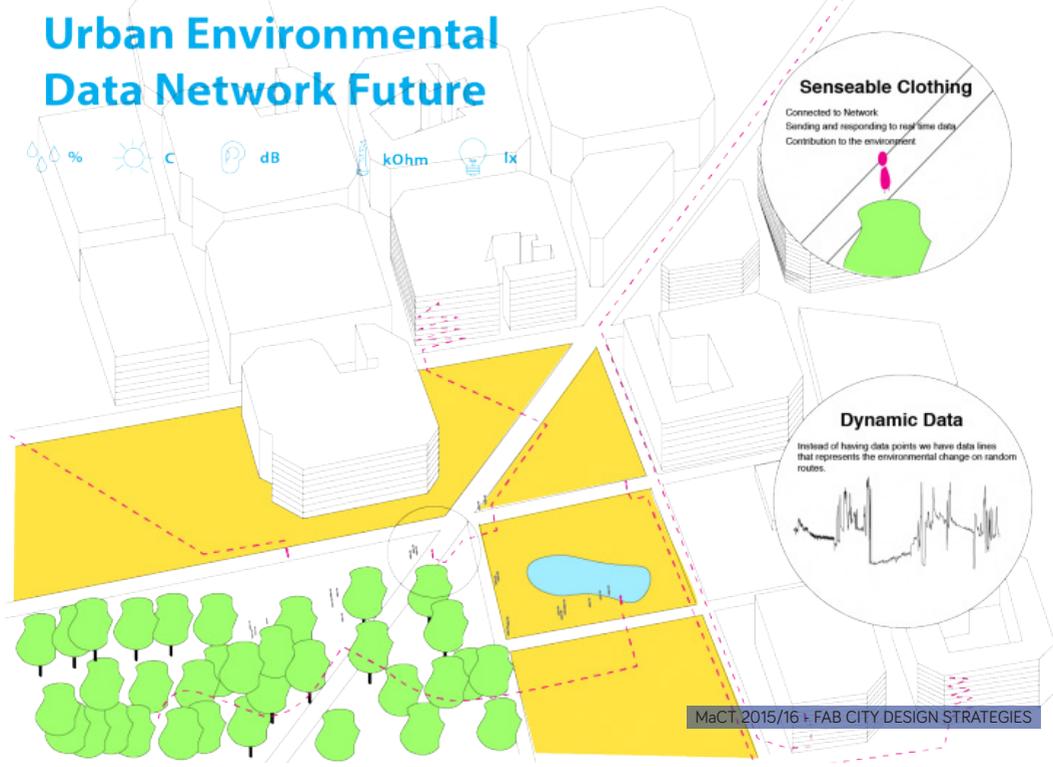
multi-programmatic intervention

distributed activities on different levels

- shopping mall
- housing
- hotel
- leisure
- parking
- public space

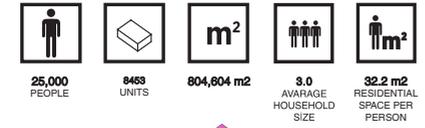
MaCT 2015/2016 - SENSEABLE CITY WORKSHOP

# Urban Environmental Data Network Future



Sankey diagram of the trash flows in Barcelona

## SELF SUFFICIENT NEIGHBORHOOD PROTOTYPE



SHARED HOUSING MIXED TYPOLOGIES HYBRID BUILDINGS

# THEORY OF CITIES / MASTER CLASSES

TERM 1, 2 AND 3 - 2 TO 5 MASTER CLASSES EACH TERM.

MULTIDISCIPLINARY FACULTY.

The Master in City & Technology foresees new city economy and new city management models for the creation of a decentralized, productive and social city of the future. This program is oriented towards training new change makers that the Administrations, Industries and Communities need.

The Theory of Cities course aims to create a platform where the students can have direct contact with people from diverse areas of expertise, furthering their formation and knowledge towards

their development as multidisciplinary change makers.

The Course is developed in a transversal manner, throughout the entire Master program, in the form of Master Classes. Each Master Class counts on the intervention of a select expert from around the world, renowned in a particular field influential to the future of our cities, including economists, sociologists, politicians, architects, urbanists, engineers, philosophers, ICT experts, HCI experts and more.

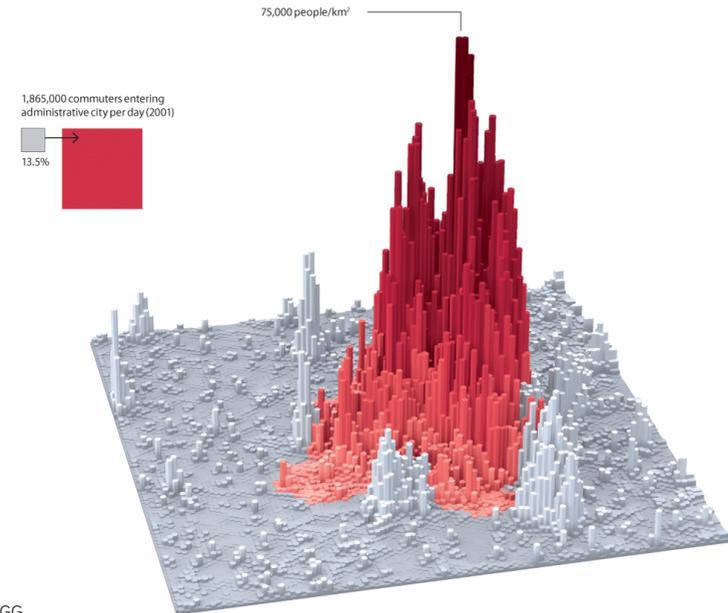
The past and current editions' interventions include:

Maita Fernandez - UN Habitat; Júlia López - C40 Regional Director, Europe; Salvador Rueda - Ecology Agency Barcelona; Manual Gausa - Actar Arquitectura; Ignasi Fontanals - CEO Opticits; Antoni Vives - Late Vice Mayor of Barcelona; Ethel Baraona - dpr; Javier Nieto - Santa&Cole; Daniel Ibañez - GSD Harvard; and many more.

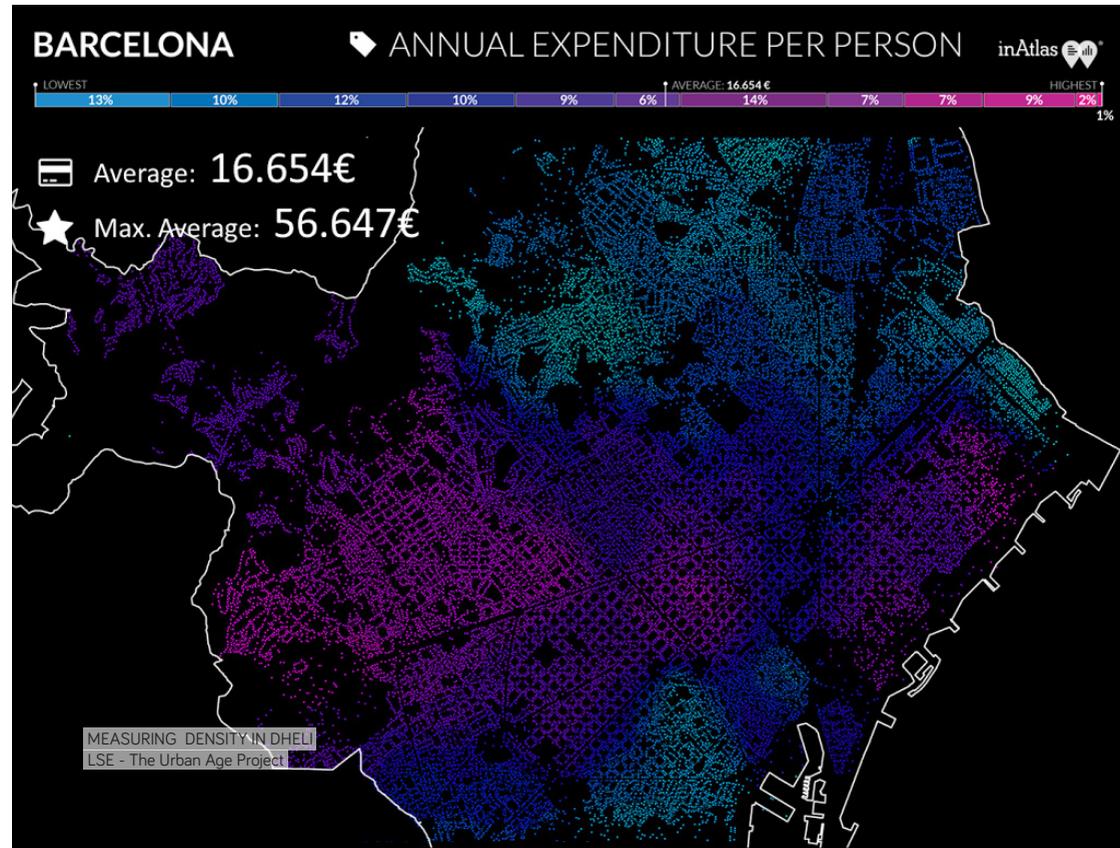
Students will be given a bibliography prepared by the Guest faculty prior to the ToC Master Class, used as the basis for the discussion on the Master class with the Guest faculty.



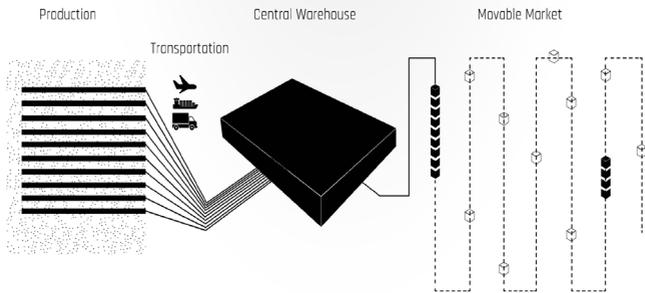
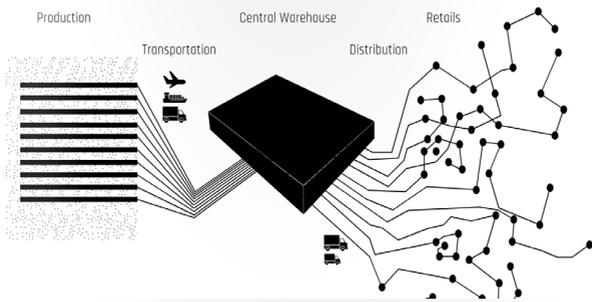
## DELHI



AIR QUALITY EGG  
Community-led sensing network initiative







MACT 2015/2016 - SENSEABLE CITY WORKSHOP

## #2 MOBILE APP | USER AR INTERFACE

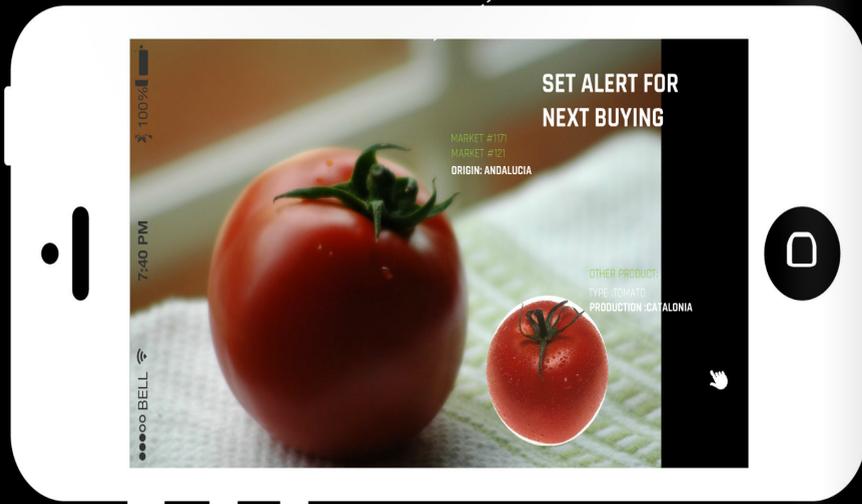


SCAN YOUR ITEM  
FIND THE SUPPLY IN THE CITY  
OR SET ALERT FOR NEXT BUYING



FIND THE MARKET IN THE CITY

MORE INFORMATION IS BROADCASTED ON PRODUCTS  
INCLUDING DETAILS OF TYPE, PRICE, PRODUCTION, AND ORIGIN.



### MACT 2015/16 - FAB CITY DESIGN STRATEGIES

This air filter... opening up a basin drain can provide you basic information about how the system works. And you can figure out the most efficient way to reuse the wastewater.

Water after used in a wash basin and some basic filtration, is still usable in other activities like flush and for plants.

Your virtual **water footprint** i.e. indirect water consumption done to produce the products that we use is about

**1050000** lit/year

there is not much we can do about it. But your direct water footprint i.e. the water we consume directly is

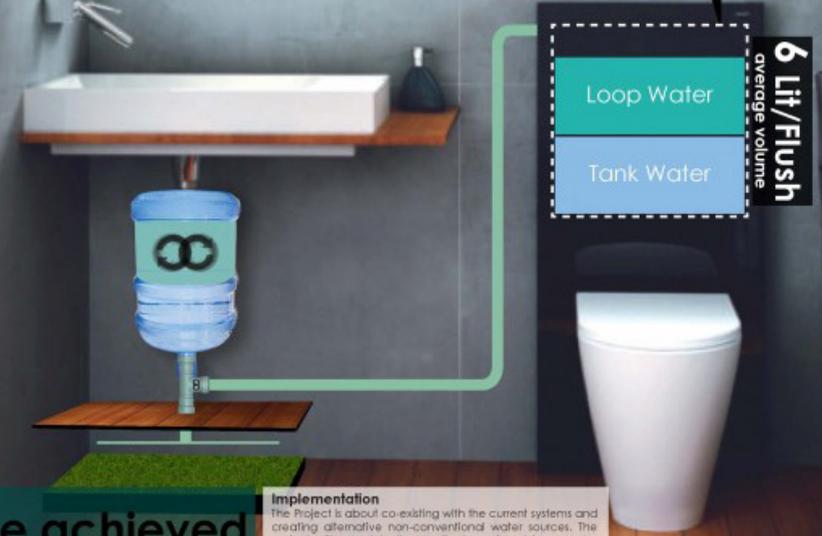
**92840** lit/year

and this is something we can directly affect. By using small system hacks like these you can reduce the direct water footprint to

**53020** lit/year.

70% of total water which would have been wasted can instead be used in flush tank

50% of total water used for flush can come from the filter connected under the wash basin

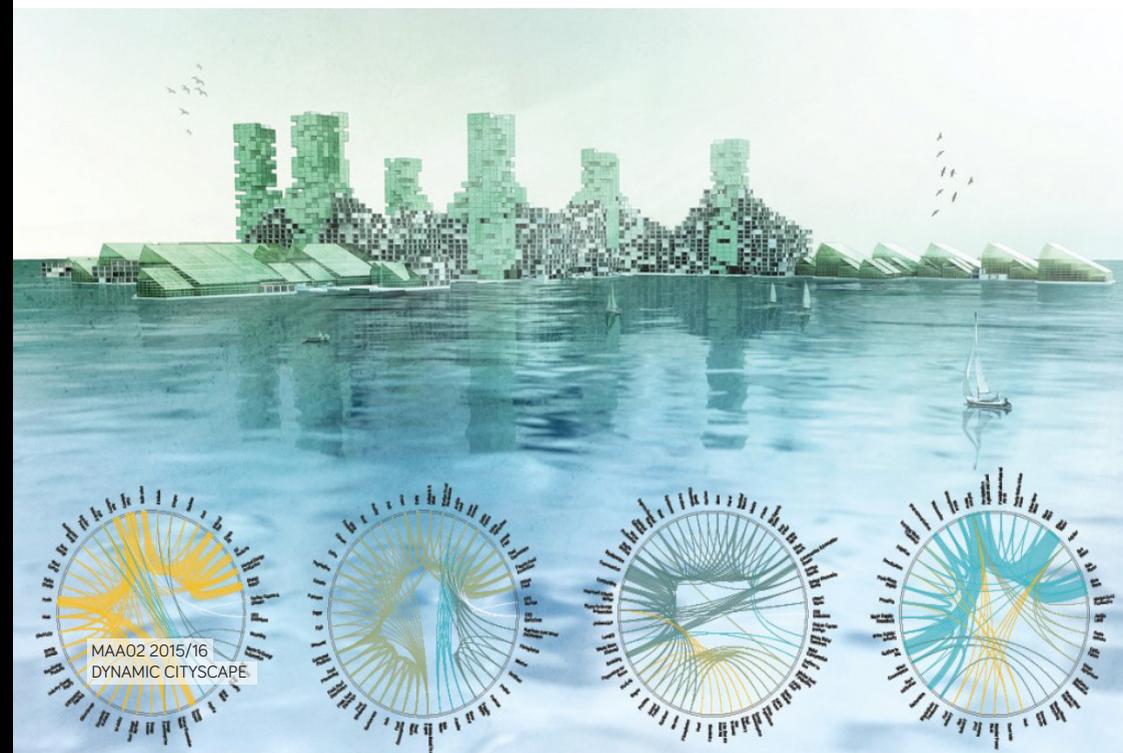


### Implementation

The Project is about co-existing with the current systems and creating alternative non-conventional water sources. The project will complete the smaller loops in a bigger water cycle.

## what can be achieved

www.researchgate.net/publication/275111111



# TECHNOLOGY SEMINARS

TERM 1, 2 AND 3 / SEMINARS, DEVELOPED IN 1 TERM (20 CLASS HOURS) AND 2 TERM (40 CLASS HOURS) FORMAT, ARE DEVELOPED ALONG THE 3 TERMS.

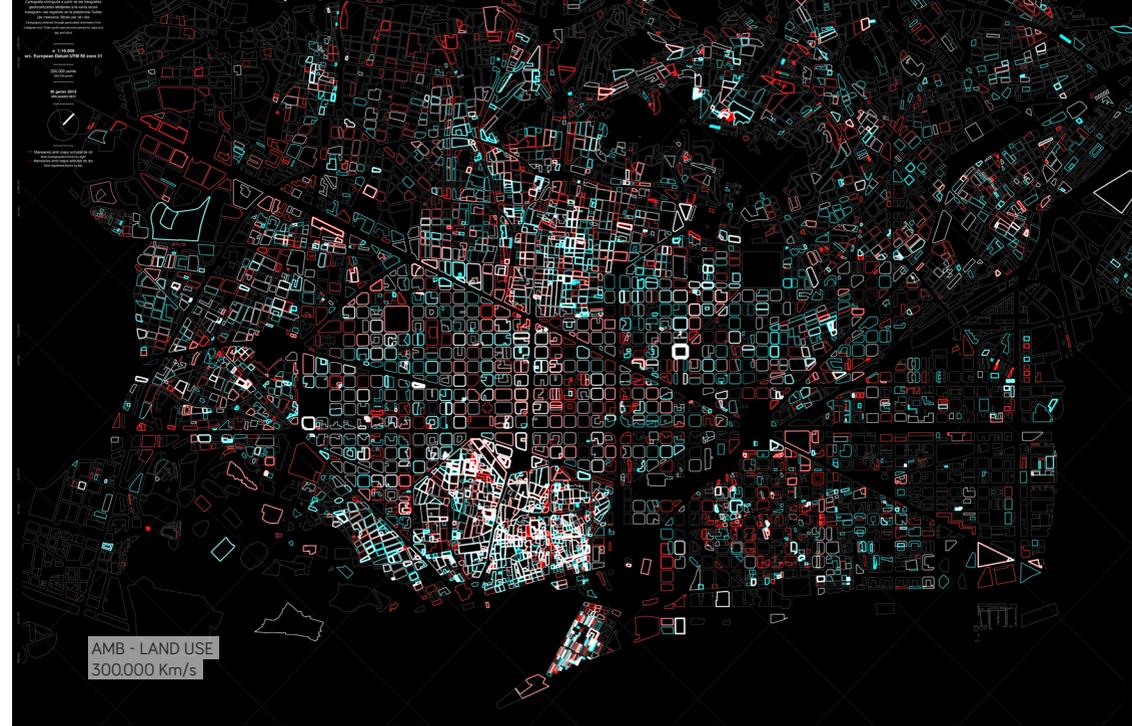
## FACULTY OF PAST AND CURRENT EDITIONS:

FRAN CASTILLO (SYNERGIC PARTNERS),  
MAR SANTAMARIA, PABLO MARTINEZ (300.000KM/S),  
CARLES FERREIRO + STEFFEN BECKER (DOTOPEN),  
ANGELOS CHRONIS + ANGEL MUNOZ + RODRIGO AGUIRRE + ALDO SOLLAZZO  
(ADVANCED ARCHITECTURE GROUP - COMPUTATIONAL FACULTY)

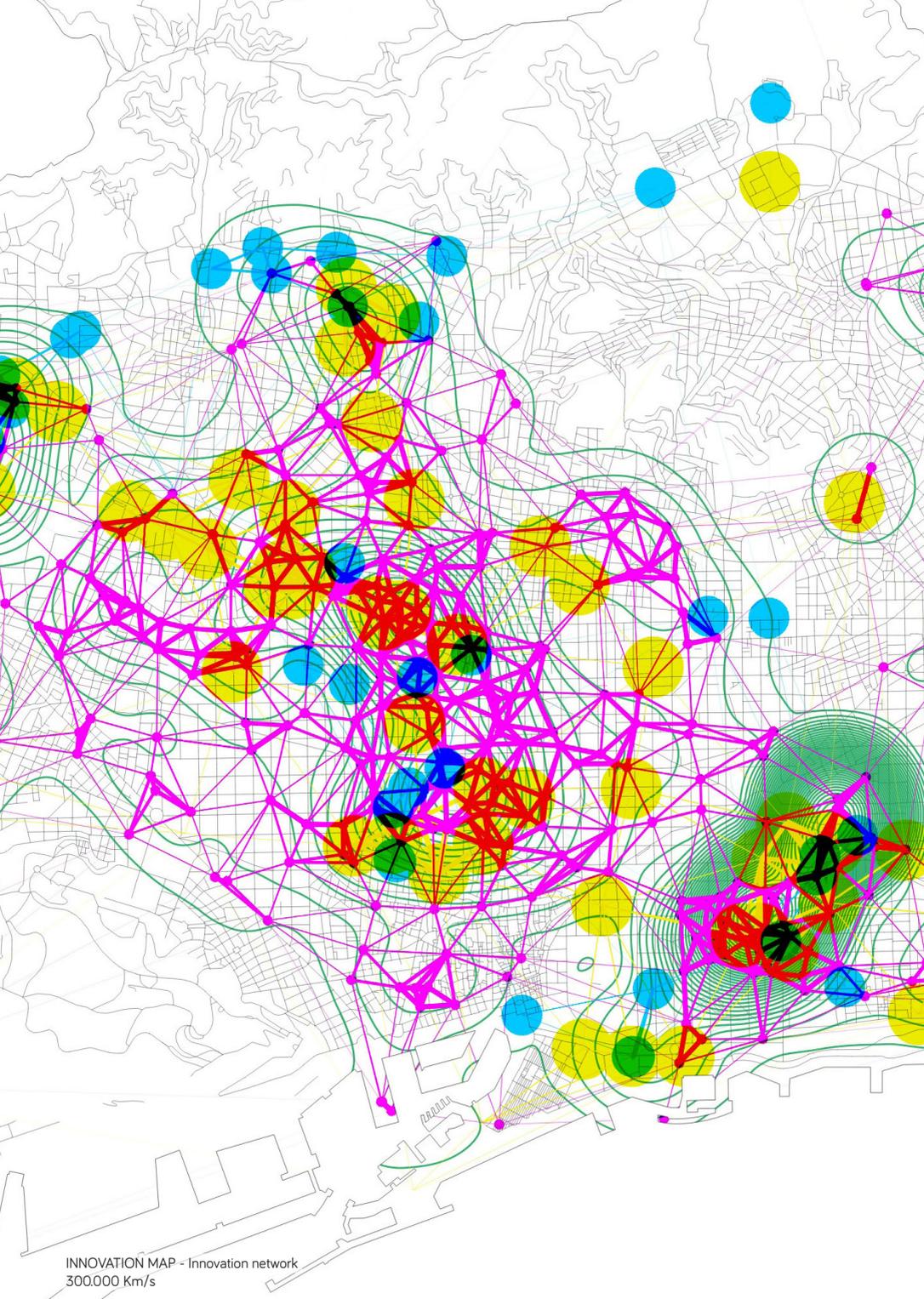
Technical advancements over the past decade have completely changed the way we sense, seize, use, plan and build present and future cities. Traditionally, urban planning has been based on a morphological description of the environment. This classic birds eye view approach has become obsolete both as a descriptive tool used to represent the consolidated city - slowly growing or declining-, as well as as a planning tool used to deal with the development of emerging cities where the urban sprawl is faster than planning methods available.

The explosion of Urban Big Data and ICTs can address a description of the city also responding to different scales and velocities, providing responsive real-time solutions. This datification of the world enables the integration of multiple information in a unique representation to propose novel design strategies. Besides architecture of 'stone and space', we should recognise an expanding landscape of invisible networks.

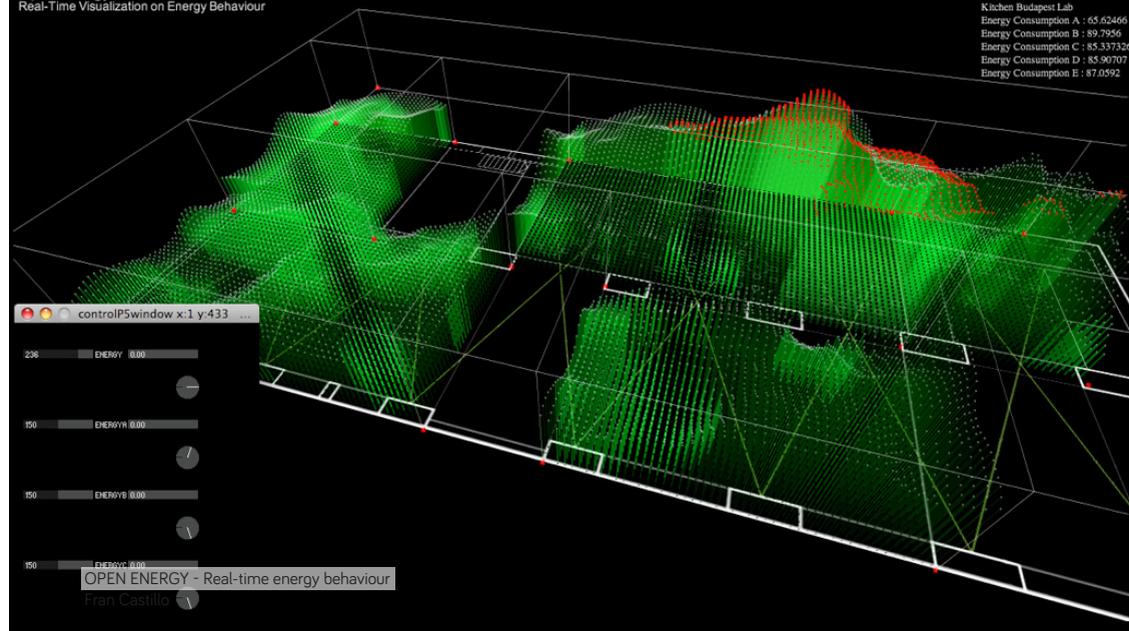
The MaCT Technology seminars are oriented towards both the training in the latest digital and computational tools for urban design and city data visualization, as well as the potentials of these visualizations and their interpretation in real projects. Moreover, the master works towards the development of new digital tools, enhancing the performance of the design projects developed throughout the year.



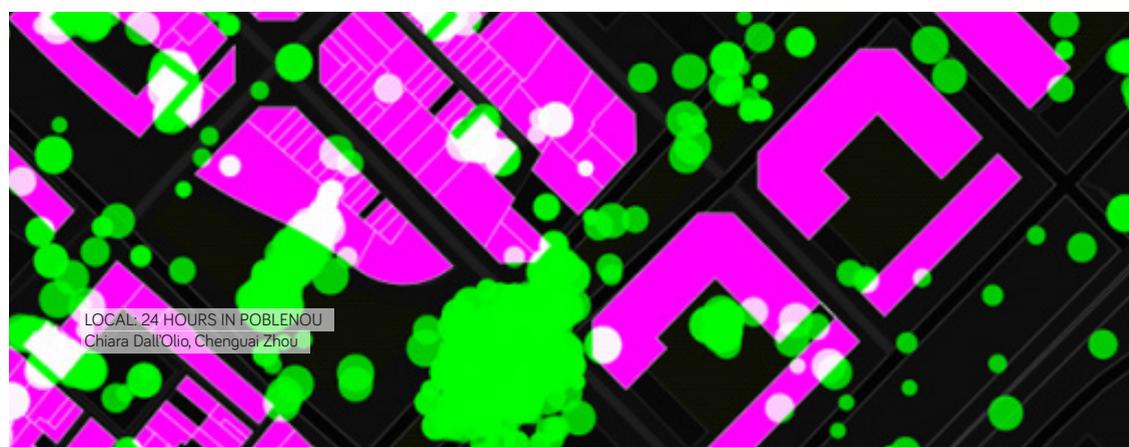
MACT 2015/16 - SENSEABLE CITY WORKSHOP



Open Energy Visualization  
Real-Time Visualization on Energy Behaviour



Kitchen Budapest Lab  
Energy Consumption A : 65.62466  
Energy Consumption B : 89.7956  
Energy Consumption C : 85.337326  
Energy Consumption D : 85.90707  
Energy Consumption E : 87.0592



# URBAN DESIGN SEMINARS

TERM 1, 2 AND 3 / SEMINARS, DEVELOPED IN 1 TERM (20 CLASS HOURS) AND 2 TERM (40 CLASS HOURS) FORMAT, ARE DEVELOPED ALONG THE 3 TERMS.

**FACULTY OF PAST AND CURRENT EDITIONS:**

WILLY MULLER + JORDI VIVALDI (BARCELONA URBAN SCIENCES LAB),  
 MARCELLA DEL SIGNORE (TULANE UNIVERSITY),  
 CHRISTIAN GARTNER + KATHRIN DIPAOLA + JULIUS STREIFENEDER (URBANSTANDARD),  
 LISA FUTING (AUDI URBAN FUTURE INITIATIVE),  
 JOSEPH A. CURTATONE (MAYOR OF SOMERVILLE),  
 WINY MAAS + ADRIEN RAVON (THE WHY FACTORY),  
 CARLO RATTI + ANTONIO ATRIPALDI + MATTEO SILVERIO (CARLO RATTI ASSOCIATI)

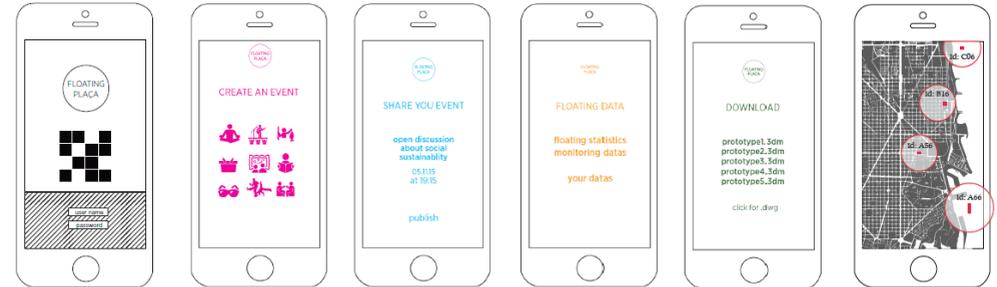
The way we interact with our city, and the interface of our city, along with the continuous innovation in tools and technology, are drastically changing. Through the development of a series of Urban Design oriented experiences, both theoretical and real world design, the Master in City & Technology works towards new city economy and new city management models for the design and creation of a decentralized, productive and social city of the future.

This is a city where the development of the urban forms connects with accessible information to directly inform and shape our urban environment, taking advantage of the possibilities offered by emerging technologies, and imagining the future technologies and how these could change the planet and the way we inhabit our cities. A city responding to the shift from the industrial society to that of information. Or a city that proposes new forms of large scale infrastructural solutions, in the face of imminently obsolete of industrial and post-

industrial infrastructure, taking advantage of large scale, privileged and emblematic values to propose urban solutions of re-information and re-cycling. Finally, also speculating and developing future scenarios - from utopian to dystopian, developed leading to visionary, city-related designs.

Urban Design Seminars include collaborations with Industrial Partners as well as City Administrations that bring real case studies to be analyzed, quantified, designed and evaluated.

## # PROTOTYPE digital/network/data strategy



a digital platform to **discover** coastline

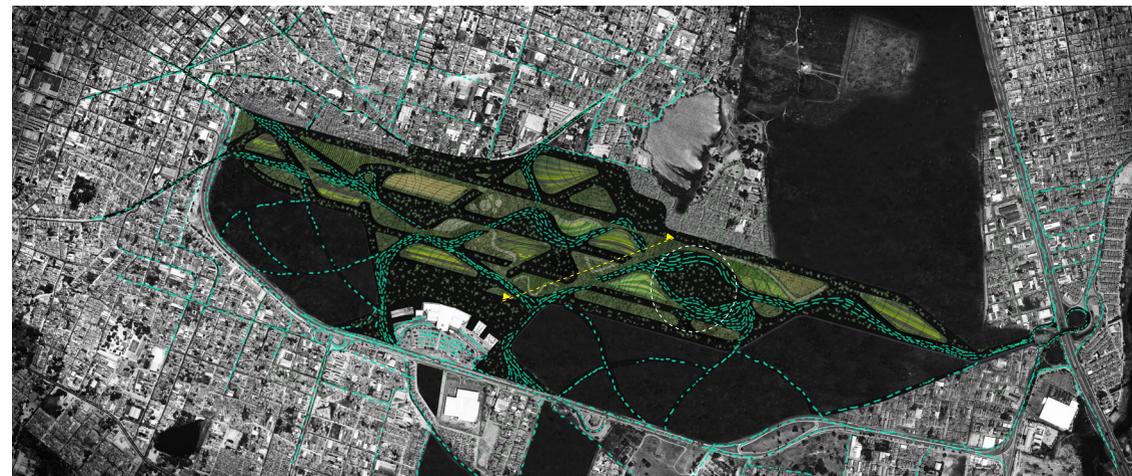
to **create** a public activity on the water

to **share** your event with friends and fellow citizens

to send your **data** to a collective data center

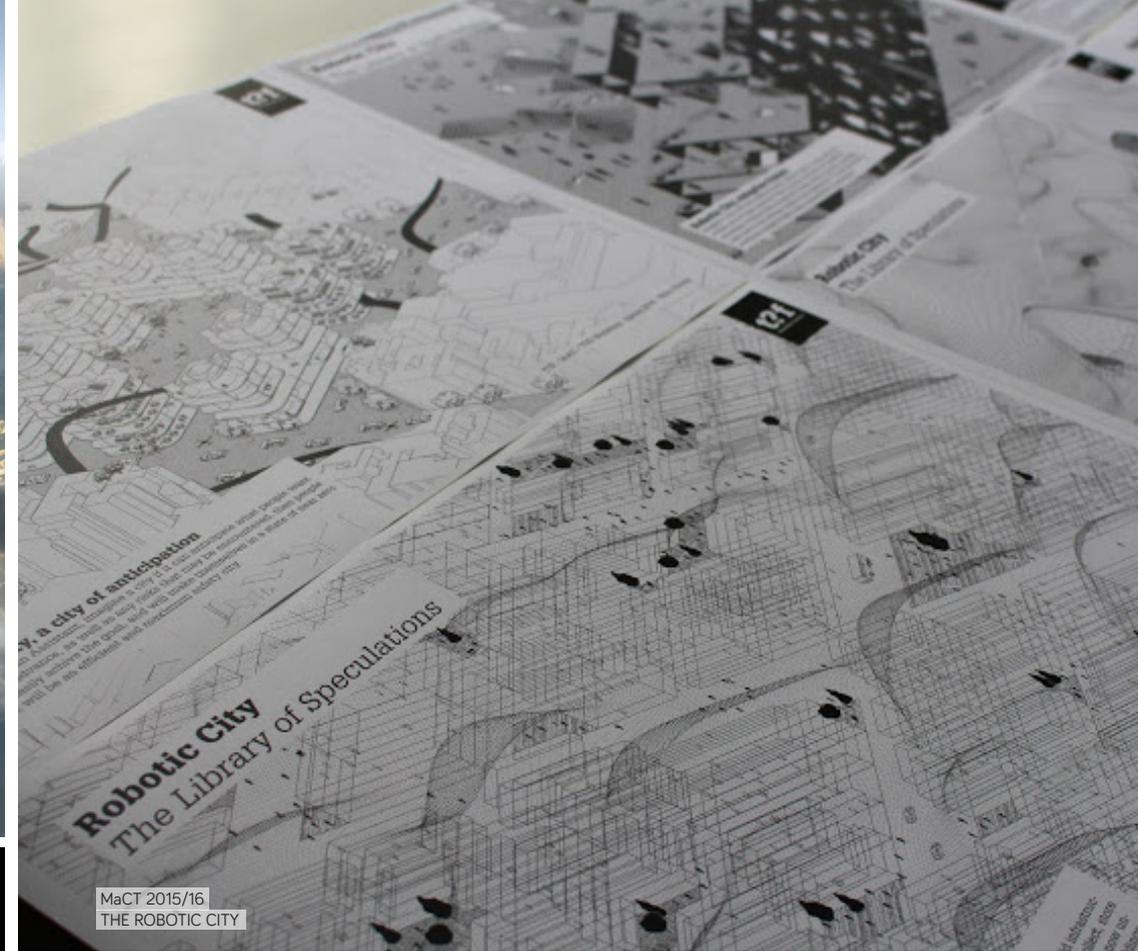
to **download** the prototype and plug-ins file for fabrication

to **see** the locations of floating plaças on a map

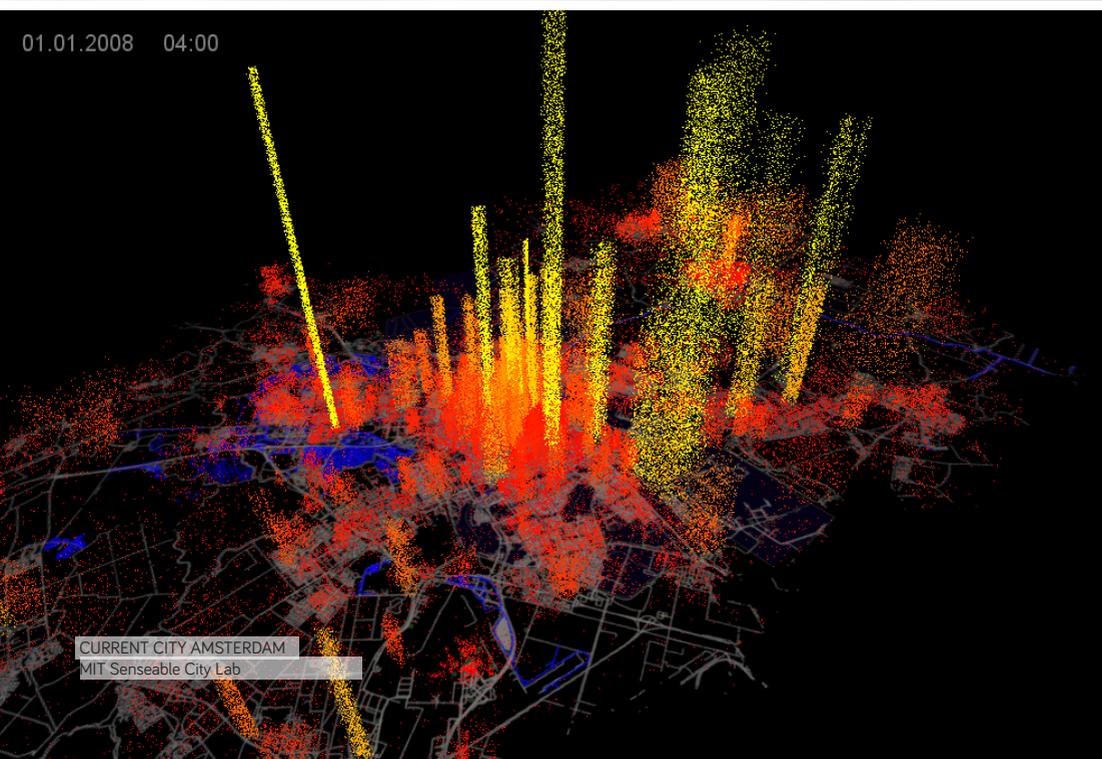




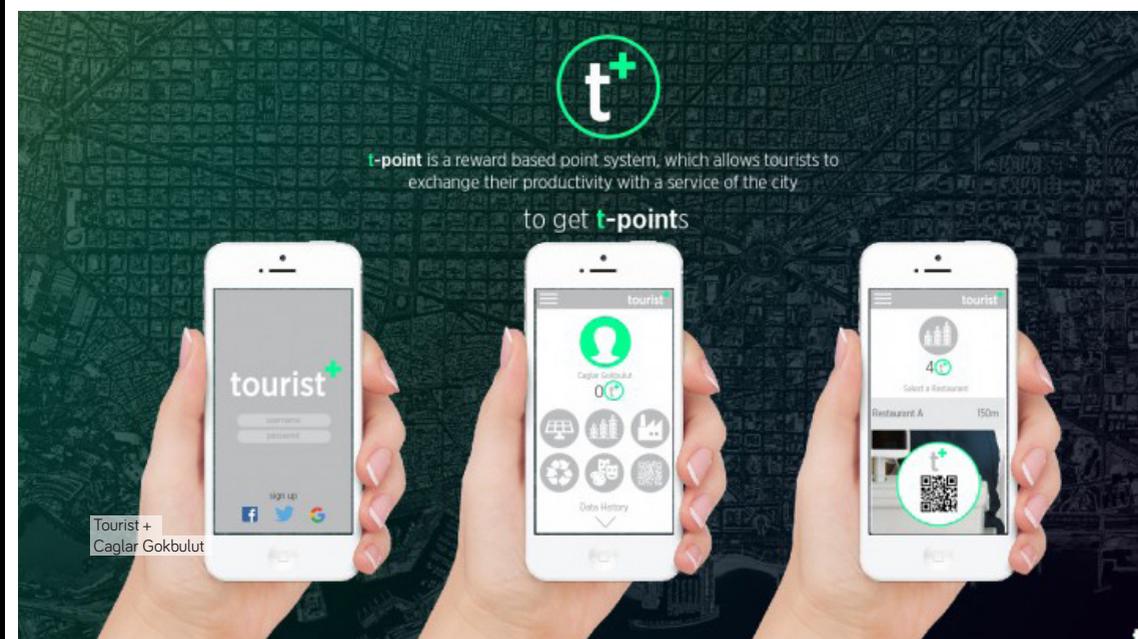
ROBOTIC CITY  
Winy Maas // The Why Factory



MaCT 2015/16  
THE ROBOTIC CITY



CURRENT CITY AMSTERDAM  
MIT Senseable City Lab



Tourist+  
Cağlar Gokbulut

# MACT COLLABORATIVE ENTITIES

## PARTNERSHIP/ COLLABORATIONS/ EUROPEAN RESEARCH PROJECTS:

The Master in City & Technology works on close collaboration with Industry and City Administrations in an effort of developing pilot projects and solutions that can be applied to real case scenarios.

Previous and current collaborations include Foster+Partners, Audi Future Urban Initiative, UrbanStandard (ex Stylepark), Carlo Ratti Associati, The Why Factory, Mobility in Chain, Ideas for Change, OUIShare, dotopen and InAtlas among others.

On top of this, the Master in City & Technology agenda integrates research and development advancing the essential elements of European research projects that count with numerous expert partners and collaborators. Some of these projects include the Knowledge Alliance for Advanced Urbanism, <https://iaac.net/iaac/european-projects/kaau/>, Active Public Space, <http://activepublicspace.org/> as well as the newly established International Symposium on Responsive Cities and Urbanism in the Experience Age, held annually in Barcelona, <http://responsivecities.iaac.net/>

**Foster + Partners**



**Ideas  
for  
Change**

**STYLEPARK**

300.000Km/s



FACULTY

# FACULTY 2015/2017



**ARETI  
MARKOPOULOU**

ACADEMIC DIRECTOR  
MAA\_DIGITAL MATTER STUDIO  
MaCT\_DESIGN STUDIO



**TOMAS  
DIEZ**

MaCT\_DESIGN STUDIO



**CARLO  
RATTI**

MaCT\_URBAN DESIGN



**ANTONIO  
ATRIPALDI**

MaCT\_URBAN DESIGN



**VICENTE  
GUALLART**

MaCT\_STUDIO DESIGN  
MaCT\_STRATEGIC PLANNING



**MATHILDE  
MARENGO**

ACADEMIC COORDINATOR  
MaCT\_STUDIO DESIGN



**MATTEO  
SILVERIO**

MaCT\_URBAN DESIGN



**CHRISTIAN  
GÄRTNER**

MaCT\_URBAN DESIGN



**BRUNO  
MOSER**

MaCT\_DESIGN STUDIO



**HEMANT  
PUROHIT**

MaCT\_DESIGN STUDIO



**KATHRIN  
DIPAOLA**

MaCT\_URBAN DESIGN



**JULIUS  
STREIFENEDER**

MaCT\_URBAN DESIGN



**WILLY  
MÜLLER**

MaCT\_URBAN DESIGN



**MARCELLA  
DEL SIGNORE**

MaCT\_URBAN DESIGN



**RODRIGO  
RUBIO**

MaCT\_URBAN DESIGN



**LISA  
FÜTING**

MaCT\_URBAN DESIGN



**WINY  
MAAS**

MaCT\_URBAN DESIGN



**JORDI  
VIVALDI**

MaCT\_URBAN DESIGN



**EULALIA  
MORAN**

MaCT\_URBAN DESIGN



**ADRIEN  
RAVON**

MaCT\_URBAN DESIGN



MARCO  
INGRASSIA

MaCT\_URBAN DESIGN



LUIS  
FALCÓN

MaCT\_STRATEGIC PLANNING



ANGELOS  
CHRONIS

MaCT\_TECHNOLOGY



STEFFEN  
BECKER

MaCT\_TECHNOLOGY



JOSÉ LUIS  
DE VICENTE

MaCT\_STRATEGIC PLANNING  
MaCT\_THEORY



ALBERT  
CAÑIGÜERAL

MaCT\_STRATEGIC PLANNING



DJORDJE  
STANOJEVIC

MaCT\_DIGITAL FABRICATION



FRAN  
CASTILLO

MaCT\_TECHNOLOGY



MAR  
SANTAMARIA

MaCT\_TECHNOLOGY



JÚLIA  
LÓPEZ

MaCT\_THEORY



MARA  
BALESTRINI

MaCT\_STRATEGIC PLANNING



ANGEL  
MUÑOZ

MaCT\_TECHNOLOGY



IGNASI  
FONTANALS

MaCT\_THEORY



MANUEL  
GAUSA

MaCT\_THEORY



ALDO  
SOLLAZZO

MaCT\_TECHNOLOGY



CARLES  
FERREIRO

MaCT\_TECHNOLOGY



ANTONI VIVES  
I TOMÀS

MaCT\_THEORY



JAVIER  
NIETO

MaCT\_THEORY



RODRIGO  
AGUIRRE

MaCT\_TECHNOLOGY



PABLO  
MARTINEZ

MaCT\_TECHNOLOGY



GONZALO  
DELACÁMARA

MaCT\_THEORY



DANIEL  
IBAÑEZ

MaCT\_THEORY

# GENERAL INFORMATION

## GENERAL INFORMATION

# APPLICATIONS, GRADING SYSTEM AND MORE

### APPLICATIONS

To apply for IAAC, please fill out and submit the online applications form ([www.iaac.net/iaac/apply](http://www.iaac.net/iaac/apply)) for the programs: MAA01, MAA02, MaCT, MAA01 + OTF, OTF.

For the online application, the following required documents should all be submitted in English, with the exception of the undergraduate diploma that needs to be translated into Spanish. (All documents must be uploaded onto the designated space on the online application form in PDF format).

- A letter of intent expressing the reasons for which you wish to attend the chosen master – maximum two A4 pages in PDF.

- Curriculum vitae and portfolio showing samples of your work – A4 format maximum 10MB in PDF.

- Two letters of recommendation (from professional or academic referees), in PDF, with the corresponding referee contact information.

- Legalized copy of previous architecture degree\* or other related professional degrees. Please make sure that you arrange the legalization of your diploma as required depending on your country of origin. More info about degree legalization here. In the case of this document is not available at the moment of the application, please contact us.

- An official translation into Spanish of your diploma\* (if the diploma is not in Spanish already). More info about official translations here.

- A copy of a valid passport (copy of valid I.D. is accepted for citizen of member states of the EU)

- Non-refundable application fee to be paid to the bank information mentioned at the end of this page under the section titled “Bank Information”.

\* If you have not yet graduated, but will be graduating before the commencement of the academic year to which you are applying at IAAC, you are eligible to apply. However, to complete the application process, will need to ask you to provide us with a provisional certificate from your University, in English, stating that you will graduate this year.

If you have any questions or doubts with regards to the application process, please feel free to contact us at [applications@iaac.net](mailto:applications@iaac.net)

## GRADING SYSTEM

Class attendance is obligatory for studios and seminars. In both cases, courses are graded as follows:

- 0–4.9 Fail (this means that the student is not going to get his/her Master Degree, this grade will be justified and well explained)
- 5.0–6.9 Pass
- 7.0–8.9 Good
- 9.0–10 Excellent/Distinction

- Under no circumstances will students be excused from presenting their design work at the final review of a project.

- Diplomas will not be delivered to students with an incomplete in their final grades. In addition to the above, Midterm Reviews will be held with the members of the faculty in order to inform each student briefly of the general feelings of the faculty about his or her work. Suggestions may be given on how to prepare for the Final Review

## STUDENT FEEDBACK AND EVALUATION

The usual procedure IAAC uses for the collection and analysis of information to ensure the quality of the program is the student surveys and evaluation reports. IAAC performs two different types of surveys: one survey is specific for each course, and is being made immediately after a course finishes, and the second survey is a general survey, which is conducted at the end of the academic year. Course Survey: The surveys contain questions related to course content and structure of the class, the methodology used and the level of facilities where the course has been conducted. There are also questions about the faculty, allowing the student to evaluate the faculty's communication capabilities, the capacity of synthesis and organize the content structure as well as the faculty's competence in assessing and explaining the results obtained. The survey also include questions about the relevance of the class with respect to the students own interests and the relevance with the general research agenda of the Master program. Students are also asked within this survey to suggest improvements in the courses that IAAC takes into consideration for the future editions. General Survey: The general annual survey refers to the overall management of the program and the efficiency of the entire organization. It includes questions of whether students had difficulties in the application and admission process, whether they had problems in acquiring all necessary certificates and/or other documents and more. It also includes question of satisfaction in relation with the efficiency level of IAAC staff, whether faculty and content have met

their expectations, and whether they were satisfied with the level of access to facilities and material resources at the Institute. Also, students are asked what course or activities considered more interesting and relevant to the program and they are also asked to express ideas for overall improvement.

## STUDY EXPENSES

Study-related expenses such as the purchase of books, graphic reproduction, printing and modeling are not included in the tuition fee. For field trips and excursions an individual financial contribution may be required.

## MATERIALS

Students are expected to bring their own a laptop computer no more than two years old, with the following specifications:  
PIV at 2.4 GHz (or similar in the case of an AMD processor).  
1024 Mb RAM.  
WIFI internet connection.  
1280 x 1024 screen display resolution

## NON EUROPEAN STUDENTS

Non European students accepted to the program are advised to contact the nearest Spanish Embassy to start the Visa procedure. Be aware that the application procedure for a Student Visa can take up to 3 months.

## MEDICAL INSURANCE

Participants are responsible for their own health insurance and other personal insurance. It is mandatory to acquire a Medical Insurance to cover your stay here in Barcelona. The Catalan Public Health System does not cover students, and will charge you for any visit or consultation. Please note that the IAAC is not liable for loss or damage to personal belongings.

## ACCOMMODATION

IAAC does not provide accommodation for students, although can provide information and assistance related to rental procedures.

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[www.valldaura.net](http://www.valldaura.net) - [www.fablabbcn.org](http://www.fablabbcn.org)  
To apply: [applications@iaac.net](mailto:applications@iaac.net)



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