

## **STADSLAB MASTER CLASS 2019 TERESINA**

Women for Climate - Empowerment of Women for Climate Action in Teresina - Brazil

### **APPLICATION PACKAGE**



Photo: Camila Pinheiro | [www.artesol.org.br/rede/membro/cooperativa\\_de\\_artesanato\\_do\\_poty\\_velho](http://www.artesol.org.br/rede/membro/cooperativa_de_artesanato_do_poty_velho)

### **Stadslab European Urban Design Laboratory**

Fontys School of Fine and Performing Arts

P.O. Box 90907, 5000 GJ Tilburg

The Netherlands

T +31 8850 870 291 / +31 8850 875380

info@stadslab.eu / www.stadslab.eu

### **Agenda Teresina 2030**

Prefeitura Municipal de Teresina

Secretaria Municipal de Planejamento e Coordenação

Praça Marechal Deodoro da Fonseca, 860 – Palácio da Cidade

4º Pavimento – Centro

CEP 64000-160 – Teresina – PI

Brazil

T: +55 86 3215 7520

[semplan.agenda2030@gmail.com](mailto:semplan.agenda2030@gmail.com) / @teresina\_2030

## 0 Foreword

From blackouts to flooding, migratory trends to epidemics, all cities face a range of shocks and stresses, natural or human-made. Today, our cities and citizens are facing new and amplified challenges as a result of rapid urbanization, a changing climate and political instability. These phenomena increase the exposure and vulnerability to hazards and can trigger or worsen disasters. Further stress is placed on our urban areas as the effect of climate change become more severe and frequent.

In order to mitigate these upcoming climate changes and reduce their negative impact on people, we need to build resilience in our cities by qualifying and strengthening the capacities of local government and its partners, including the local population. By engaging all stakeholders in resilience efforts, cities have the ability to harness transformational change and improve the lives of their inhabitants, that is, to increase their **adaptive capacity**, which is a fundamental dimension of vulnerability. This has been acknowledged by the global community through agreements such as the New Urban Agenda, Paris Agreement, Sustainable Development Goals, and Sendai Framework for Disaster Risk Reduction. However, most local governments, in particular the ones in developing countries, do not have the capacity to operationalize by themselves these commitments, or to fully promote the needed changes towards a more sustainable and resilient development. One approach towards capacity building and strengthening of adaptive capacity in developing countries is to **enhance international support** for knowledge sharing and resilience building, including North-South cooperation.

**Agenda Teresina 2030** is a think tank for experimentation and innovation in the public sector. The main objective of Teresina 2030 is raising awareness on the need to design and implement **joint strategies** to build a more sustainable, smart and resilient city. To reach this goal, we support the different municipal departments to achieve the commitments of global sustainability agendas and we give global projection to the local initiatives.

*“The mountain in front of us is very high but it is not insurmountable. We know how to scale it”*

António Guterres, UN Secretary-General

## 1 Introduction to Stadslab

Stadslab European Urban Design Laboratory operates as an international non-profit international think tank and design laboratory for urban design in today's cities. From our base in Tilburg, The Netherlands, we develop tailor-made Master Class programs aimed at participants with an academic background in architecture, urban planning or related fields. Our programs allow hosting municipalities and regional authorities to have cases of their choice examined in one of Stadslab's Urban Design Laboratories. The general aim of all programs is to offer design expertise to cities and regions in order to support them in creating coherent, sustainable and successful urban environments. Engaging in complex real-world

projects with actual stakeholders is the implementation of Stadslab's Research by Design program.

Stadslab projects aim to provide a conceptual framework for future development of its hosting cities, by developing urban design scenarios and implement state-of-the-art knowledge and expertise. It will further help to enhance the international profile of the city and its potential and ambitions and, finally, offers professional training for hosting organization's staff members who will work with international peers in Stadslab's programs. Operating as a think-tank, Stadslab projects are not aimed to provide ready-made solutions, but rather help to frame or rephrase the necessary steps for future development.

Stadslab is the postgraduate program of the Academy of Architecture and Urbanism, School of Fine and Performing Arts. Fontys is one of the largest Universities of Applied Sciences in the Netherlands, with 44,000 students in almost 40 Faculties. The Academy is based in Tilburg, a modern city in the southern part of the Netherlands.

### **Previous Masterclass**

**2017-2018** Darling, South Africa **2017** Tbilisi, Georgia **2016** Lisbon, Portugal **2014** Eindhoven, Netherlands **2012-2013** Fukuoka, Japan **2012** Rotterdam, Netherlands **2011** Belgrade, Serbia **2010** Batumi, Georgia **2010** Melitopol, Ukraine **2009** Miskolc, Hungary **2007-2008** Lublin, Poland

### **Results for Teresina, the hosting city!**

- Stadslab offers the possibility for hosting-cities to have a real-time case examined in one of its urban design Master Classes;
- Being a Stadslab hosting-city means that participants produce an urban vision, strategic plan or draft master plan for the city in question;
- The hosting-city takes advantage of the results of the Master-Class, which may serve as a launching platform for new developments in the city;
- Hosting cities (and regions) will gain updated professionals, as well as play a role in training processes; such as on urban governance issues. In the long run, this leads to enhanced urban development results and updated local professionals.

### **Results for you, future participant!**

- Participants benefit from the experience of real-time cases (working within a multidisciplinary network) and the opportunity of being coached by internationally appraised experts;
- Next to enhancing one's design experience and skills a program of lectures and workshops is included on topics related to professional competence development;
- Becoming part of a substantial urban design related network of urban planners and architects;

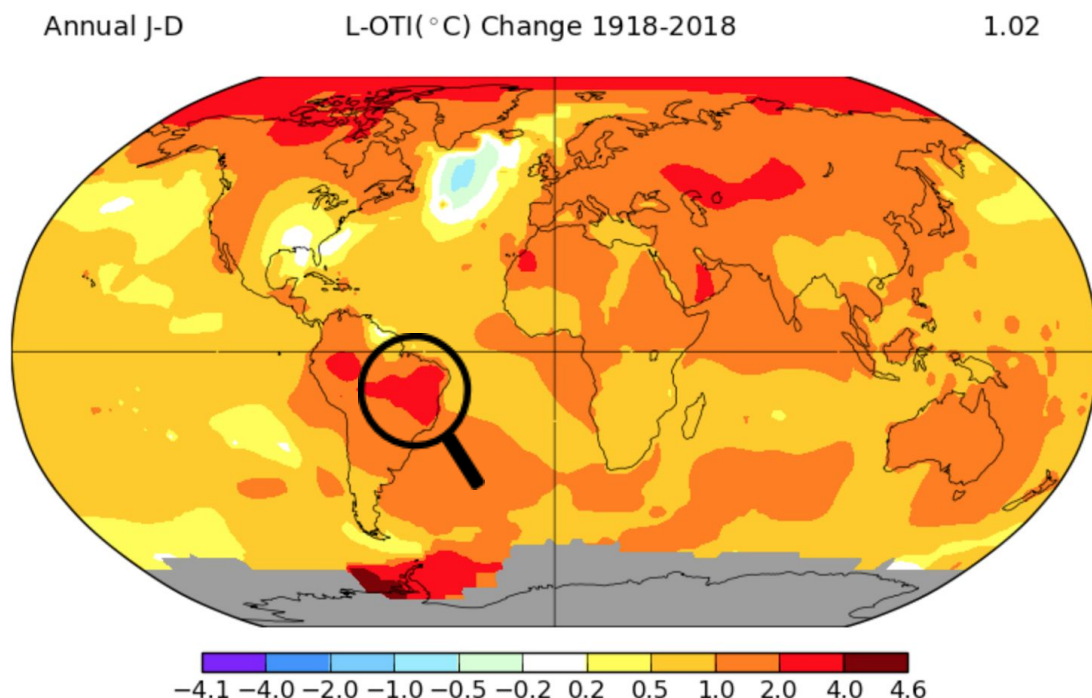
- Result of the programs will be in the form of a public presentation to the local stakeholders. Stadslab offers the possibility to have the results of the Master Class presented in an international full-colour publication.

Results of previous Master Classes can be obtained under the section Media & Publications at [www.fontys.edu/stadslab](http://www.fontys.edu/stadslab)

## 2 Local Context

Teresina is one of the most vulnerable regions to climate change in the world. It overlaps social and environmental vulnerabilities in a scenario of extreme heat and deep economic inequalities. It is the capital city of Piauí, located in the poorest geographic region of Brazil, the North East. It has an estimated population of 861,442 inhabitants in the municipal area (IBGE, 2018). As any other Brazilian city, Teresina faces urban challenges regarding public transport, lack of public safety, lack of infrastructure, etc, consequences of an unsustainable urban development model.

The average temperature of Teresina has increased by 2 degrees Celsius in the last century, at a speed above the global average of 1°C. The following map shows the increase in average air temperature over the period between 1918 and 2018. Teresina is located in a red zone, indicating that the trend of increasing air temperature over this 100-year period is more than 1°C, higher than for other parts of the globe.



GISTEMP Team, 2019: GISS Surface Temperature Analysis (GISTEMP)



According to the National Institute of Meteorology, the maximum temperature of Teresina reaches 41.1°C. The thermal sensation can reach more than 45°C, due to the low relative humidity of the air. As the temperature rises, the relative humidity of the air tends to continue to fall. Teresina's Climate Change Vulnerability Index is classified as extreme risk, with a performance below the national index in the indicators: Vulnerability to Climate Change, Exposure and Sensitivity (CAF, 2014).

In 2014, the current Master Plan was developed and released aiming to gradually overcome these issues and to align the Municipal planning strategies to the 2030 Global Agenda for Sustainable Development and the New Urban Agenda. Currently, the Municipal Department of Planning and Coordination of Teresina (SEMPPLAN), through the Agenda Teresina 2030, is working to implement and monitor the Sustainable Development Goals (SDGs). Bearing this in mind, Teresina is being prepared to be more resilient in a scenario of climate change, with particular attention to vulnerable groups.

### **3 Stadslab Master Class 2019 Teresina**

*“Women leaders played a critical role in negotiating the Paris Agreement and continue to drive ambitious climate action in cities, businesses and NGOs around the world. Women make up more than half the world’s population, and are often disproportionately impacted by climate change. Their leadership and participation are therefore critical in solving this global crisis”*

Women4Climate, C40

Women For Climate is a global movement to address climate change by empowering women. It aims to inspire leaders, influence decisions, foster innovation, and raise awareness of critical urban issues by encouraging research and action at the interface between gender, cities and climate change. While this phenomenon is gaining momentum in developed countries, women's leadership for climate action is not yet at the center of discussions on urban resilience in developing countries.

The first step to develop gender-sensitive urban climate policies is to raise awareness on the problem of climate change, as well as to potential solutions. Within this framework, we approach the Stadslab Master Class 2019 as a chance to draw global and local attention to the vulnerability of Teresina to climate change. Additionally, we expect Stadslab supports Teresina 2030 in its objective to prototype low-cost solutions and methodologies to build sustainability and resilience. Together, we aim to highlight that is possible to diversify and strengthen climate action with a particular attention to three female vulnerable groups, located in the same geographical area.

These women's livelihoods depend on activities that take place in the North Lagoons Region, a flood-prone area and one of the most vulnerable to climate change in the city. Also, the surrounding lagoons are susceptible to landslides and densely occupied by informal housing, representing a risk for the inhabitants.

The aim of Stadslab Master Class 2019 is to research and analyze the challenges that girls and women from this vulnerable community of Teresina face in a context of extreme hot weather and deep socio-economic disparities, where gender inequality is constantly reinforced by behavioral and cultural patterns. During the workshop, the participants will be using 'bottom up' and 'hands on' approach to research and design, which includes working tightly with the actual inhabitants of the neighbourhood. This type of approach aims to create a close relationship and trust between young architects, professionals and local community.

We envision Stadslab Master Class Teresina as a cheerful 5-day workshop that brings people and ideas together, connecting local and international professionals in the field of urban planning or related areas and inspiring them by facilitating knowledge sharing. As the workshop participants, Teresina as a whole will benefit from this experience, that will create an innovation-friendly setting where new solutions can flourish.

Stadslab Master Class Teresina will focus on three different vulnerable groups of girls and women from the North Lagoons Area:

**[1] *Horticultoras* (Urban Gardeners)**

Teresina has more than 50 community gardens, throughout several neighbourhoods of the city. In the local context, the urban gardens contribute to the income increase of the families involved in the activity, besides supplying the local food market. It carries a potential to develop the social economic situation of vulnerable population, improving the accessibility to services and urban jobs. This last aspect is particularly important for women, because there is a gap between genders concerning the access to job opportunities in the city. In addition, women working in the community gardens in the North Lagoons Area are the main keepers of traditional knowledge, such as medicinal properties of plants. However, their activity may be threatened by currents changes in rainfall and droughts regime.

**[2] *Ceramistas* (Potters from a cooperative)**

The women who work in the Poti Velho Pottery Cluster plays a very important role in the handcraft production and cultural expression of Teresina. By taking part in those activities, many women can generate income to help their families while contributing to the preservation of the city's traditions and culture. These women and their families are actively involved in the whole process of production and post-production of the ceramic pieces, however the changes in rainfall regime, related to climate change, along with the unsustainable use of the raw material, endangers the survival of the ceramic handicraft production, as well as the tradition led by the women of the Ceramic Pole.

**[3] *Recicladoras* (Recyclers)**

North Lagoons Area, alongside with other lagoons, is a flood-prone area and one of the most vulnerable to climate change in the city. Also, the surrounding lagoons are susceptible to landslides and densely occupied by informal housing, representing a risk for the inhabitants. Due to the characteristics of the occupation and consolidation of the urban nuclei around the lagoons, lots of residues are generated and not disposed correctly. This scenario portrays the

importance of the activities of the recyclers. There is a group of women that walk and cycle around the area collecting recyclable waste, as an alternative to generate income and support their families. Despite not being fully aware of the importance of their actions, the recyclers directly contribute to a more sustainable city.

#### **4 Programme**

The program is stated below:

October 13th Sunday: Arrival, welcome dinner

October 14th Monday: Pottery Class, field trip, introduction and lecture local experts

October 15th Tuesday: Field trip and data collection, public lecture international experts

October 16th Wednesday: Guided walking tour, marathon of design studio

October 17th Thursday: Marathon of design studio and mock presentation

October 18th Friday: Public presentation, closing drinks.

#### **Target group**

The Master Classes are aimed at attracting international mostly young or mid-career professionals with different backgrounds. Two international expert and a team from the hosting city will supervise the Master Class and will ensure that the design research goals will be achieved.

#### **Master Class Supervisor**

The Master Class will be supervised by Anne van Strien (Human Geographer MSc, Radboud University Nijmegen & Social Designer BDes, Design Academy Eindhoven) and Pepijn Verpaalen (Head of Urbanism of the Fontys Academy of Architecture+Urbanism at the Fontys School of Fine and Performing Arts). They will be supported by Agenda Teresina 2030 team (Municipality of Teresina) and a group of urban planner professors and students from local universities. The workshop is being executed with the support of the Embassy of the Netherlands in Brazil.

#### **5 Application**

##### **Conditions**

Participation in the Master Class is free and consists of the full workshop program with lectures, field trips and studio work. Included are also a welcome dinner and closing drinks.

Not included are travel costs, accommodation, (other) meals, visa and insurance and other expenses. Free accommodation in a local person's home is a possibility that must be discussed between the participant and the local organizing team.

## Application

Potential applicants can apply by sending a completed application form (attached) and a motivation letter to [semplan.agenda2030@gmail.com](mailto:semplan.agenda2030@gmail.com) before **September 30, 2019**. Applications will be selected based upon the CV and motivation letter and order of submissions. We strive to have a balanced mix of Brazilian and international participants and different disciplinary backgrounds in the team. We also target for an even split between genders. Applicants will be notified before **October 4, 2019** about the status of their application.

## Ownership

Stadslab is an academic organization. The participants of the Master Class take part in an educational program for professionals. All the ideas that are generated during the Master Class and in relation to the design assignment have a shared ownership of Stadslab and the individual designers. Stadslab and the individual designers are free to use or publish the ideas for the purpose of knowledge dissemination or marketing purposes. The results of the Master Class will be presented to the hosting city. They may publish the results and use them for further debate or development. In case of actual implementation of (part of) the ideas generated during the Master Class, Stadslab and/or the individual designer should be consulted and asked for permission.

## Contact details

Pepijn Verpaalen, MSc  
Head of Urbanism  
Fontys Academy of Architecture and Urbanism  
P.O. Box 90907, 5000 GJ Tilburg  
Netherlands  
T +31 8850 870 291 / +31 8850 875380  
@. info@stadslab.eu / www.stadslab.eu

Mariana Fiúza, MSc  
Agenda Teresina 2030  
Municipality of Teresina  
Praça Marechal Deodoro da Fonseca, 860 – 4º Pavimento – Centro  
CEP 64000-160 – Teresina – PI  
Brazil  
T: +55 86 3215 7520  
[semplan.agenda2030@gmail.com](mailto:semplan.agenda2030@gmail.com) / @teresina\_2030



## APPLICATION FORM

Stadslab Master Class 'Women for Climate Teresina' – October 13th to 18th, 2019

Name: .....

Birth date: .....

Nationality: .....

Wishes to apply for the Stadslab Master Class 2019 "Women for Climate", taking place in Teresina, from October 13th to 18th, 2019

Academic degree(s):

.....  
.....

Graduation date(s): .....

Graduation University: .....

.....

Please state your main motivation for wishing to participate in this Master Class program (max 200 words):

.....  
.....  
.....  
.....  
.....  
.....  
.....  
.....

In addition to this application form, please send a CV and (link to) portfolio to [semplan.agenda2030@gmail.com](mailto:semplan.agenda2030@gmail.com) before **August 23rd, 2019**. Applications will be selected based upon the CV and motivation letter and order of submissions. We strive to have a balanced mix of Brazilian and international participants and different disciplinary backgrounds in the team. We also target for an even split between genders. Applicants will be notified before **August 30th, 2019** about the status of their application.

Participation in the Master Class is free of charge, but participants have to take care of the costs of accommodation, travel, meals, visa, insurance, and other expenses.

I hereby sign that I have filled out this form truthfully;

.....

Signature

.....

Date