

World Forum on Urban Forests

Mantova

27/11 –

01/12/2018



Promotori



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ANTONIAZZI



Welcome!

Once more Mantova's will is to be a capital again. Little and splendid, it still feeds its ambition to be at the center of the world stage. And once on the stage what to talk about if not climate change? Cities must pick up the decisive struggle for the planet sustainability. Trees make cities prettier, safer and fairer. For these reasons we have invested like no one else before on urban green and we put ourselves forward to host the first world forum on urban forests. I'm sure the Forum will be positive point of non return and a crucial stage in the relationship between the green areas and the cities that host them.

Mattia Palazzi
Mayor of Mantua

On behalf of the Food and Agriculture Organization of the United Nations (FAO), I welcome you to the First World Forum on Urban Forests. As we all know, growing urbanization presents many challenges for cities today and in the future. Forests, trees and green spaces are key to make cities liveable places and improve the health and well/being of urban communities. I am confident that the experts gathering at this Forum will demonstrate these benefits and help identify ways forward to make cities better places to live.

Hiroto Mitsugi
Assistant Director/ General,
Forestry Department, FAO

On behalf of Politecnico di Milano we welcome you to the 1° World Forum on Urban Forests. As the liveability of our cities is increasingly threatened, it is urgent to design efficient strategies and practices to steer through the constant and constructive dialogue among the involved institutions. In this scenario, University plays a fundamental role through research, as a driving force for sustainable innovation, and the education of young generations on these objectives.

Prof. Emilio Faroldi
Vice Rector
Prof. Federico Bucci
Vice Rector for Mantova Campus

On behalf of the Italian Society of Silviculture and Forest Ecology (SISEF), I would like welcome all of you, scientists and experts, to the first World Forum on Urban Forests. Men and cities need forests and trees now and they will need them even more in the future, as they have needed them since the beginning of human societies. Urban Forests host an amazing variety of research and innovation and the Forum will let the World hear the voices of researchers talking with the community on how to promote a better life and a more resilient environment both in cities and in the Planet.

Marco Marchetti
President of the Italian Society
of Silviculture and Forest Ecology
- SISEF

Welcome!

The first edition of World Forum on Urban Forests is going to be an opportunity of exchange, debate and dialogue about the crucial theme of bringing nature and forests at the center of contemporary cities. All cities of the world, main responsible for CO2 presence in the atmosphere, have today the occasion to become main actors of a big project of inversion of climate change: taking into consideration that forests and woods absorb more or less 40% of global CO2, bringing forests into the cities means fighting the enemy on his own battle field. Urban forestry, meant as exponential growth of green and wooden surfaces in urban e peri-urban areas of worldwide metropolis, is today one of the most effective strategies to reduce the catastrophic effects of climate change and to shape a better future for the generations that will inhabit the Earth in the decades to come.

Stefano Boeri

Co-chair of the WFUF Scientific Committee, architect and Full Professor at Politecnico di Milano and Tongji University in Shanghai

I welcome all of you, colleagues from around the world, to the very first World Forum on Urban Forestry. The past decades have seen the rapid growth of urban forestry as an interdisciplinary field of research and practice. This Forum is a true milestone event, not in the least because of its global focus and the wide variety of disciplines and backgrounds represented by the delegates. Urban forestry has been making great strides as of late, and the Forum provides an excellent platform for celebrating our successes and preparing for next steps in contributing to healthy, resilient and vibrant cities.

Cecil Konijnendijk

Co/chair of the Scientific Committee and Professor of urban forestry at the University of British Columbia



27

PRE-CONFERENCE YOUTH EVENT

08.15/08.45

Politecnico di Milano - PTM
Aula A.0.1

Registration

08.45/09.00

Politecnico di Milano - PTM
Aula A.0.1

**Welcoming session
by the Youth Organizers**
(IFSA, ELASA, AUSF Italia
and FAO)

09.00/09.45

Politecnico Aula A.0.1

Youth Entrepreneurs presentations

Three youth speakers:

Lida Aljabar (US)

Alessandro Leonardi (Italy)

Abdallah Tawfic (Egypt)

09.45/10.15

Politecnico

Interactive Coffee Break

10.15/11.00

Politecnico Aula A.0.1

Introduction to the Dragons' den Workshop

The Youth Organizers will present the Dragons' den dynamic and the participants will be divided in 9 groups.

11.00/12.30

Politecnico Aula A.0.1

Working session

Groups' time to work on their challenges

12.30/13.30

Cafeteria

Lunch break

13.30/15.30

Politecnico Aula A.0.1

Working session

Groups' time to work on their challenges.

Tuesday / November

15.30/16.00

Politecnico

**Interactive Coffee Break -
Open Experiences
Exchange**

16.00/17.15

Politecnico Aula A.0.1

Pitching

Groups' time to present their projects and the best three will be selected to face the dragons at the Youth Special Session on the Day "The Future".

17.15/18.00

Politecnico Aula A.0.1

Conclusion of the day

Wrap up session by the Youth Organizers and selection of the Youth speaker for the High/Level panel session.

OTHER EVENTS OF THE DAY

09.00/18.00

Aula Seminario / via Cairoli, 20

Aree verdi urbane e periurbane

Organizers: CONAF, ODAF Mantova, FODAF Lombardia, AIDTPG, Mantova Ambiente SRL
* BY INVITATION ONLY *

10.00/13.00

Sala degli Stemmi

**Riunione della Federazione
regionale degli Agrotecnici
e degli Agrotecnici
Laureati della Lombardia
e della Consulta Nazionale
per il Verde Urbano,
Agrario, Forestale
e per il Paesaggio**

Organizer: Collegio Nazionale degli Agrotecnici e degli Agrotecnici Laureati
* BY INVITATION ONLY *

14.30/18.00

Sala degli Stemma

La tecnologia per la gestione sostenibile delle città: come i Sistemi GIS possono contribuire a migliorare il territorio

Organizer: Collegio Nazionale degli Agrotecnici e degli Agrotecnici Laureati

NIGHT EVENT**21.00/23.30**

Cinema Mignon

Festival Cinematografico Internazionale sulle Foreste/International Film Festival on Forests

For info: www.montagnaitalia.com

09.00/10.00

Teatro Sociale

- **Opening ceremony** chaired by **Simone Borelli (FAO)**
- **Welcoming and opening speeches**

Mr. Mattia Palazzi

(Mayor, Municipality of Mantova)

Mr. Attilio Fontana

(President, Lombardia Region).

The Organizing Committee of the Forum:

Mr. Hiroto Mitsugi

(Assistant Director-General, Forestry Department FAO)

Mr. Federico Bucci

(Vice-Rector, Politecnico di Milano Polo territoriale di Mantova)

Mr. Marco Marchetti

(President, SISEF)

Mr. Stefano Boeri

(Co-chair of the Scientific Committee, Architect and Full Professor at Politecnico di Milano and Tongji University, Shanghai)

Mr. Cecil Konijnendijk

(Co-chair of the Scientific Committee and Full Professor of urban forestry at the University of British Columbia)

10.00/11.00

Teatro Sociale

Plenary Keynote

chaired by **Simone Borelli (FAO)**

- **The Forests that walked with the Cities: talking of history, trees and cities**
Speakers: **Mr. Fabio Salbitano** (University of Florence), **Mr. C.Y.Jim** (University of Hong Kong)
- **The role of trees and forests in the history of landscape architecture**
Speaker: **Mr. Joe McBride** (UC Berkeley)

10.00/19.00

Politecnico

Meeting of the group on Urban Economies and Welfare

Organizer: Urban Europe Research Alliance (UERA/JPI)

EVENT BY INVITATION ONLY

11.00/11.30

Teatro Sociale

Coffee Break**11.30/13.00**

PARALLEL SESSION 1 THE PAST AND GREEN CITIES (P.S. 1)

Teatro Sociale

•**P.S.1.1 Green Cities**

chaired by Alan Simson

Andrej Verlic/Ljubljana — A City in the forest

Paul Mandibondibo/

New International Collaborative Project Green Cities for Papua

Momath Diankha/Project

"Kaolack Green City"

Andrea Di Paolo/Modena from green to forest city

Shashi Bhushan/Urban Forestry

in changing Environment: A Case Study of National Capital Region, Delhi, India

Amna Rafi Chaudhry/Lahore - The City of Gardens

Laurent Bray/Improving the urban forest approach in Limoges, France

FUM / Salone Mantegnesco

•**P.S.1.2 Changing People And Benefits**

chaired by Luiz de Lima Pedreira

William Hubbard/Assessing the Outcomes and Impacts of a Federal Urban

& Community Forestry Grant Program in the United States

Prapassorn Siriwichai/

Sustainable development in the peri-urban green area by local community: a case study of Kung

Bangkrachao community, Thailand
Ana Paula Duarte/Participatory inventory of Urban Forest: case study on community involvement by the volunteer program "voluntarboles"

Ranjit Singh Gill/Policy and legal issues relating to urban forestry in India with particular reference to Meghalaya

Mi Sun Park/Policy for urban green space management in Democratic People's Republic of Korea

Thomas Campagnaro/Relations between perceived stress-relief and safety and green infrastructure features in a historical urban landscape

FUM / Aula Matilde di Canossa

•**P.S.1.3 Changing Spaces and Places**

chaired by Pedro Calaza-Martínez

Chiara Cortinovis/Is urban spatial development on the right track? Comparing strategies and trends in the European Union

Silvija Krajer/A systematic review of urban forest and green space related research in the Mediterranean

Barbara Boifava/The fourth nature of the contemporary city: from Rio de Janeiro to Seattle

Al Zelaya/Make No Little Plans: Achieving Burnham's Livable City Vision in Chicago and the Philippines

Roberto Diolaiti/Urban forest management for better cities: case studies and trends from the Board of Directors of public green spaces in Italy

Giovanni Trentanovi/Wild urban woodlands: inappropriate occupier of abandoned spaces?

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FUM / Aula Magna

•**P.S.1.4 Changing Environment**

chaired by Silvano Fares

Mesanlibor Syiem Tiewsoh/

The Air Quality Shift and Micro Climate of Shillong City in Conjunction with Green Spaces. A Case Study of a City in North Eastern India

Lihua Cui / Analysis of heat mitigation strategies of Zen Gardens to extremely hot weather conditions in Kyoto, Japan

Camila Sattler / From Lomas to Invasion: A huge loss of biodiversity and green areas on the slopes of Lima

Claudia Coccozza / Dendrochemistry to reconstruct environmental pollution in urban forestry context

Thami Croeser / The role of land use and development processes on tree removal patterns in the City of Melbourne, Australia

Federico Valerio Moresi / Landslide susceptibility map in the green peri-urban context of Rome

13.00/14.00

FUM

Lunch break

14.00/15.30
SIDE EVENTS

Sala Degli Stemma

Forests of the plain and volunteering - The experience of the WWF in the Province of Mantova

Speakers: Donato Artoni (WWF Mantovano), others to be defined
Organizers: WWF mantovano, WWF Italia

FUM / Aula Matilde di Canossa
Introduction and spread of pests and diseases in urban forests

Speakers:
Francesca Ossola (ERSAF),
Mariangela Ciampitti (ERSAF),
Beniamino Cavagna (Regione Lombardia),

Paolo Arienti (Assofloro)
Organizers: ERSAF, Lombardia Region

FUM / Aula Magna
Stewardship Stories from the Urban Forest: People as positive agents of change

Speakers: Lindsay Campbell, Laura Landau, Michelle Johnson, Erika Svendsen
Organizer: United States Forest Service

Politecnico Aula A.0.2
Forests Urbanism

Speakers:
Bruno De Meulder and
Kelly Shannon

(University of Leuven),

Klaus Loenhardt

(TU Graz), **Chiara Geroldi**

(Politecnico di Milano)

Moderator:

Maria Chiara Pastore

(Politecnico di Milano)

14.00/15.30

FUM / Salone Mantegnesco

**POSTER EXHIBITION
OPENING AND POSTER
SESSION 1**

15.30/17.00
**PARALLEL SESSION 2
BETWEEN PAST
AND PRESENT (P.S.2)**

FUM / Aula Magna

•P.S.2.1 Changing People

chaired by **Gu Lin**

Carlo Gomez / CommuniAct - Avenue to Changing Urban Cities and People

Nicole Cavender / Professional Gardens can contribute important knowledge and resources to urban forestry; the Morton Arboretum as a leading example in the US

Adrina Bardekjian / Girls Talk

Trees: Examining barriers to women in arboriculture and urban forestry across Canada and the United States

Lorien Nesbitt / Human faces, forest places: an examination of urban green equity in multicultural cities

Sarah Marder / Creating a New Narrative: Storytelling for Social Change

Rik De Vreese / Social representations of nature can they contribute to understanding citizen relation with urban trees

FUM / Salone Mantegnesco

•P.S.2.2 Changing spaces and places

chaired by Gianmichele Cirulli

Dhrubo Alam / Requiem for Wilderness in Dhaka

Johan Ostberg and Ruth A.

Rae / Cemeteries as eternal urban green-spaces? Shifting uses in the United States and Sweden

Samaneh Nyckayin / The Urban Forest in the age of urbanization

Paul Ries / Green Infrastructure in Small Communities:

Constraints and Catalysts

John Rayner / Beyond the trees: designing shrub communities for the urban forest

Luiz de Lima Pedreira /

Reforestation of Degraded Slopes of the City of Rio de Janeiro with Community Mobilization

Rose Nalubega / Exploring and demonstrating the best socio-economic, and environmental benefits of the green infrastructure technology in Uganda

FUM / Aula Matilde di Canossa

•P.S.2.3 Changing Environment

chaired by **Chris Baines**

Clive Davies / Exploring the role of urban forestry in Urban National Parks

Renate S. Spaeth / Wild urban forests and wood biomass short rotation landscape laboratories on former brownfield sites Ruhr Area, Germany nature based solutions in place making and place keeping

Tahia Devisscher / Urban forest in Latin America: challenges and opportunities for research and practice

Camilo Ordonez / Urban Forests in Latin America: a Synthesis of Research & Management Practices

Claudia Alzetta / Streamlining Tree Selection: Biodiversity, Ecosystem services and Tree needs in Padova (Italy)

Michelle Johnson / Taking care of New York City's urban forest: Understanding civic environmental stewardship outcomes

Halima Nakasaga / A review of climate change adaptation strategies in major cities in Uganda

Teatro Sociale

•P.S. 2.4 Changing Benefits

chaired by Thomas Randrup

David Nowak / Changing Global Urban Tree Cover and Benefits

Francesco Ferrini / Effect of heavy pruning on tree growth and physiology and on microclimate conditions

Gina Serrano / Using the vitality class approach for the study of the status and condition of street trees in tropical cities. The case of Guayaquil, Ecuador

Charlie Shackleton / Urban resident's favourite and disliked trees in eleven towns in Zimbabwe and South Africa

Carla Short / Financing the Urban Forest, a San Francisco Success Story

Elisa Pieratti / The contribution of peri-urban forests to the circular bioeconomy: the case study of Monte Morello in Italy

Mariangela Soraci/Ecosystem services and benefits of Urban Forest and Green Infrastructure and in the urban rural divide

17.00/17.30

Teatro Sociale
Coffee break

17.30/19.00

Teatro Sociale

Focus Discussion

The significance of Forests and Trees in the historical development of cities

Moderated by **Joe McBride**

Panelists:

Mr. R. Deverell

(Royal Botanic Gardens, Kew)

Ms. Cynnamon Dobbs

(Universidad de Chile)

Mr. Gareth Doherty

(GSD Harvard)

Mr. Richard Weller

(Penn University)

Ms. Sylvie Nail

(University of Nantes)

18.00/19.30

Sala degli Stemmi

Public conference

Verde è Salute / Green is Health

(Italian language)

Speaker: **Francesca Cirulli**

(Primo Ricercatore presso

il Centro per le Scienze

Comportamentali e la Salute

Mentale dell'Istituto Superiore

di Sanità e Presidente della

European Brain and Behavior

Society)

Scientific advice: ISS Istituto

Superiore di Sanità

EDUCATIONAL EVENTS

9.00/13.00

Laboratory 1

Build your city forest: create a greener, healthier and happier world

organizer Build A World

EDU MAMU

10.00/15.00

Piazza Virgiliana

Tree Climbing activities in Piazza Virgiliana

Organizer: SIA/ISA

PUBLIC EVENTS

19.00/20.00

Sala delle Capriate

Festivaletteratura for WFUF

Dialogues

Cambiamenti climatici e foreste: benefici per la società, conseguenze per gli ecosistemi, proposte di azione (Italian language)

Speakers **Giorgio Vacchiano,**

Emanuele Bompan

NIGHT EVENTS

19.00/23.00

Cinema Mignon

Festival Cinematografico Internazionale delle Foreste

8.45/9.00

Teatro Sociale

Introduction

chaired by **Sebastiano Sali**

(Comune di Mantova)

9.00/10.00

Teatro Sociale

Plenary Keynote

chaired by **Sebastiano Sali**

(Comune di Mantova)

The present status of urban forestry in the world

Speakers **Francesco Ferrini**

(University of Florence)

and **Giovanni Sanesi**

(University of Bari)

Governance challenges for urban forests and green spaces

Speakers **Mr David Miller, C40**

10.00/10.30

Teatro Sociale

Coffee Break

PARALLEL SESSIONS 3 THE PRESENT

10.30/12.30

Teatro Sociale

•P.5.3.1 Changing People

chaired by **Terry Hartig**

Neelesh Yadav

Status of fringe forest

management in rainfed areas

of India and socio-economic

assessment of fringe villages

for Rural-Urban areas

Erika Svendsen

Collecting and Sharing Global

Stewardship Stories

Nanamhla Gwedla

The barriers to, and enablers

of tree planting in South African

low - cost housing suburbs

Chayn Sun

Modelling the Effect of Tree

Planting on Mitigating Heat

Exposure for Vulnerable

Population in Australian Cities

Clare Oliver

The Natural Health Service in The Mersey Forest

Ian Whitehead

Integrated approaches to urban and rural community forestry

Luisa Ravanello

REBUS@ [REnovation of public Buildings and Urban Spaces]: a method for designing resilient cities by implementing Nature based Solutions

Anna Steidle

Cooperation between policymakers, stakeholders and the public: Citizens participation on the example of the EU Project "Smarter Together" and "Freiham" in the City of Munich - Germany

FUM / Salone Mantegnesco

•P.5.3.2 Changing Spaces And Places

chaired by **Marco Cillis**

Amanda Manyani

How urban dwellers identify with natural elements within urban green spaces in the Eastern Cape, South Africa?

David Myers / A Scale/Based

Framework for Urban Forests

Successes and Challenges:

Maryland, USA Case Study

Abdallah Tawfic / Productive

Green Roofs as a multi benefit

tool for Cairo's informal

settlements

Claudia Fongar / Norwegian

urban green space management/

Managers' perspectives

Erika Svendsen / Urban forests:

Sharing a common language of

holistic stewardship

Maria Beatrice

Andreucci / Measuring for

Managing the Urban Green Blue

Infrastructure. An International

survey of building Resilience in

Cities

Salvatore Colombo / Cesano

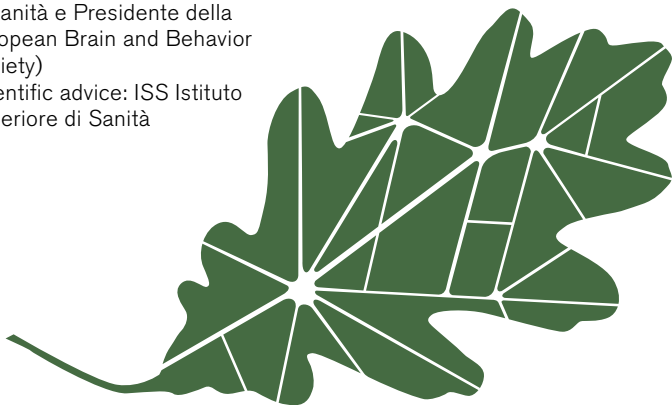
Maderno: a decade of experience

in urban forestry

Bernard Koenig & Lisa

Enzenhofer / Breathe spaces -

activating natural processes



FUM /
Aula Matilde di Canossa

•**P.S.3.3 Changing Environment**

chaired by **David Pearlmutter**
C.Y. Jim / Porosity of roadside soil as indicator of edaphic quality for tree planting
Zheng Zhang / Influence of plant composition and water use strategies on green roof stormwater retention
Emanuele Pallozzi / Urban park effects on Naples air quality
Lin Gu / Comprehensive assessment of health care function in the typical recreation forests of Hui Mountain in Wuxi City, Jiangsu Province of East China
Thomas Randrup / Sustainable Management of Urban Forests. What is environmental, economic and social sustainability in management of urban open spaces?
Anand Persad / When Trees Fail: Bio/mechanical Analyses of Storms in the Caribbean and in N. America
Chang Zhang / Characteristics of Riparian Vegetation and the Associated Human Influence in urban area
Thomas Rotzer / Mitigating urban climate change / Simulating ecosystem services of urban trees under present and future climate conditions

FUM / Aula Magna

•**P.S.3.4 Changing Benefits**

chaired by **Liza Paqueo**
Kathleen Wolf / Urban Trees as an Upstream Solution to Promote Human Health – A Systematic Review of the Evidence
Mohammad A. Rahman / Ecosystem services from urban green spaces / a quantitative study to compare the species differences at micro/scale
Livia Zapponi / An old resource for new benefits – understanding

the role of dead wood
Wendy Y. Chen / Prioritizing benefits of riparian vegetation in Guangzhou (south China): An importance/performance analysis
Arpit Shah / The impacts of green spaces in mitigating the urban heat island / The case of Bengaluru, India
Chan Ryul Park / Discipline and Impacts of urban forests coping with fine particles and heat waves at Seoul Metropolitan City of Korea
Maria Arroyave / Optimizing urban forest ecosystem services in Medellin, Colombia
Samuel Ssenyondo / Exploring Insights of Social–Ecological Resilience on Urban Infrastructure Transitions

10.30 / 12.30

Teatro Bibiena
Special Side Event
Trees as Critical Urban Infrastructure to Improve Quality of Life
Speakers:
Sarah Charlop-Powers, Executive Director, New York City Natural Areas Conservancy
Carine Bernede, Paris Director of Green Space and the Environment
Eleni Myrivili, Athens Deputy Mayor of Urban Nature, Resilience and Climate Change Adaptation + Chief Resilience Officer
Paola Vigano, Milan Director of Greening Department
Moderator: Jacob Koch, Bloomberg Associates Sustainability Practice
Organizer: Bloomberg Associates

12.30 / 13.30

FUM
Lunch break

13.30 / 15.00

Teatro Sociale
Side events
The function of green urban areas in controlling air pollution
Speakers: Antonio Ballarin Denti
Organizer: ERSAF Lombardia Region

FUM /

Aula Matilde di Canossa
Enhancing the value of biodiversity in urban ecosystems: The role of botanic gardens and seed banks

Speakers:
Tiziana Ulian (RBG Kew), Nabil Assaf (FAO-Algeria)
Richard Deverell (RBG Kew)
Mauricio Diazgranados (RBG Kew)
Sidi Sanogo (IER Mali), Tony Kirkham (RBG Kew)
Ricardo Garcia (Jardín Botánico Nacional Dominican Republic)
Talemos Seta Shanka (Gullele Botanic Garden, Ethiopia)
Hugh Pritchard (RBG Kew)
Organizer: Royal Botanic Gardens, Kew

FUM / Aula Magna

Toward the “no net land take” – Urban planning based on soil ecosystem services

Speakers: **Panos Fetsis** (Neemo, EEIG), **Fabrizio Ungaro** (Institute of Biometeorology-CNR), **Costanza Calzolari** (Institute of Biometeorology-CNR), **Francesca Ugolini** (Institute of Biometeorology-CNR), **Marianna Nardino** (Institute

of Biometeorology-CNR), **Stefano Bazzocchi** (Comune di Forlì), **Nazaria Marchi** (Regione Emilia Romagna)
Organizer: SOS4Life + LIFE

Politecnico Aula A.0.3
Quality trees for the cities of the future - Nursery production between market, rules and climate change
Organizer: Assofloro Lombardia, Coldiretti Lombardia

Sala degli Stemmii
Common Earth: Regenerating the wealth of earth's commons
Speakers: Rola Khoury Rola Khoury and Freya Yost (The Cloudburst Foundation)
Organizer: The Cloudburst Foundation

14.00 / 15.00

FUM / Salone Mantegna
Poster Session 2

15.00 / 16.30

Politecnico Aula A.0.3
Special side events
Urban forests in the Italian National Strategy for Urban Green Space
Organizers: Comitato per lo sviluppo del verde pubblico, Ministero dell'Ambiente e della Tutela del Territorio e del Mare

15.00 / 16.30

Parallel Sessions 4

Nature based solutions and the present

Teatro Sociale

•**P.S. 4.1 Nature Based Solutions** chaired by Thami Croeser

Nadine Galle / Nature-based solutions: using geospatial big data for urban forestry quality assessments

Raul Sanchez / Transforming cities, enhancing well-being through nature-based solutions (NBS). The EU-led mission towards the urban green transformation

Alessio Fini / Nature based solutions to mitigate soil sealing in urban areas: Results from a 6/ year study comparing permeable, porous, and impermeable pavements

Andrea Pianella / Green infrastructures and associated policies improve urban sustainability: a case study in Melbourne

Lars Briggs / Stormwater management and blue/green infrastructure for improved urban forests. Climate Change Adaptation in Cities / experience from Denmark and Poland

Theodore Endreny / Urban forest expansion is predicted to reduce the air temperature impacts of urban heat islands

FUM /

Salone Mantegnesco

•**P.S. 4.2 Changing People**

chaired by Andrej Verlic

Sylvie Nail / Access to the urban forest for improved wellbeing and social cohesion in Bogota

José Sato / Risk reduction of vulnerable neighborhoods, foresting hillside slopes in Lima/ Peru

Lindsay Campbell / City of

Forests, City of Farms: The Governance and Discourse of Urban Sustainability in New York City

Amber Grant / Perspectives on environmental justice in planning and delivery of urban forestry goals

David Galwey / Urban forest values recognised in unique legislation

Kathryn Hand / Ecosystem service provision by urban trees: opportunities and challenges to enhancing delivery through policy and management

FUM / Aula Matilde di Canossa

•**P.S. 4.3 Changing Places And Spaces**

chaired by Urmila Rajadhyaksha

Moussa Soule / Woody Species Diversity and Structure of Urban Forests for Sahel Cities in Niger

Hai Anh Nguyen / Redefining Agro/Forestry Settlement Development in Da lat Urban Fringe (Workshop 2018, Da Lat City, Lam Dong Province, Viet Nam)

Luiz De Lima Pedreira / Reforestation of Degraded Slopes of the City of Rio de Janeiro with Community Mobilization

Cindy Blain / California's Urban Forests: Climate Change, Public Health, and Environmental Justice

Qunyue Liu / The contributions of greenways to people's quality of life – A case study of the Fuzhou Greenway in China

Marco Cillis / The architect's wood. Bosco Albergati Park by Cesare Leonardi and the local ecological network

FUM / Aula Magna

•**P.S. 4.4 Changing Environment**

chaired by **Carlo Calfapietra**
Francesco Musco /

Contribution of urban forestry to climate change adaption plan and policies: the case of Mantua, Italy

Artur Goncalves / The Role of Urban Green Spaces in the Urban Climate – The Case Study of the City of Bragança (Portugal)

Mario Elia / Are Wildfires Knocking on the Built/Up Areas Door?

Elena Beatriz Craig / Methodological proposals for risk evaluation of urban forest in metropolitan area of Bs As, Argentina

Shadananan Nair
Krishnapillai / Urban forest management in India: Challenges under a changing climate and environment

Tiziana Panzavolta / Diseases and pests harming ecosystem services in urban green spaces of the Mediterranean region

Christian Torres Santana / Understanding post/hurricane tree damages at the Arboretum Doña Inés Park, an urban forest in San Juan, Puerto Rico

16.30 / 17.00

Teatro Sociale

Coffee Break

17.00 / 18.30

Politecnico Aula A.0.3

Special Side Event

Tree Renewal in Streetscapes. Technical aspects, management solutions and best practices

Organizers: SIA-Società Italiana di Arboricoltura, ISA- International Society of Arboriculture

17.00 / 17.15

Teatro Sociale

Welcome address - Directorate-General for Forests

The significance of urban and periurban forests in the present and future of Italian woodlands
Speaker: **Alessandra Stefani** (Director General for Forests, MIPAAFT, Italy)

17.00 / 18.30

Teatro Sociale

Focus discussion

UPF for human health and well-being

moderated by **Enrico Alleva**
Panelists:

Mr Terry Hartig
(University of Uppsala)

Mr Matthias Braubach
(WHO Europe)

Mr Dave Nowak
(US Forest Service)

Ms Wilma Zijlema
(Centre for Research in Environmental Epidemiology)

Ms Lida Aljubar
(Trust for Public Land)

EDUCATIONAL EVENTS

10.00 / 15.00

Piazza Virgiliana

Tree Climbing activities**Organizer: SIA/ISA****PUBLIC EVENTS**

18.00 / 19.30

Sala degli Stemmii

Ecoliteracy and urban food forests (Italian language)

Progetto di alfabetizzazione ecologica per la produzione di cibo e la gestione consapevole delle foreste urbane
Organizer: CONAF

18.30/19.30**Sala delle Capriate**

Festival Letteratura for WFUF - Dialogues

Regenerative development and climate changeSpeakers: **Stefano Boeri**(Architect and Full Professor at Politecnico di Milano and Tongji University, Shanghai) and **Rola Khoury** (Vice President and Founder at The Cloudburst Foundation)**NIGHT EVENTS****19.00/23.00****Rotonda di San Lorenzo****Planet Forest**

Audiovisual installation virtual landscapes, imaginary scenarios, a continuously moving observatory and an infinite Forest by Propp

21.00/22.30**Teatro Bibiena****Special Piano Concert for WFUF by Ludovico Einaudi****21.00/23.30****Cinema Mignon****Festival Cinematografico Internazionale delle Foreste****8.45/9.00****Teatro Sociale****Introduction**chaired by **Francesca Ferrari** (Politecnico di Milano, Polo territoriale di Mantova)**9.00/10.00****Teatro Sociale**

Plenary Keynotes

chaired by **Francesca Ferrari** (Politecnico di Milano, Polo territoriale di Mantova)**Perspectives for greener cities**Speaker: **Marc Palahi** (European Forest Institute)**Designing the green infrastructure and urban forest of the future**Speaker: **Mr Bas Smets** (Bureau Bas Smets)**9.30/13.30****Sala degli Stemmi**

Special Side Event

Forestazione urbana e resilienza delle città: come adattarsi ai cambiamenti climatici (Italian language)**Matthias Braubach** (WHO)**Laura Petrella** (UN-habitat)**Abdelkader Bensada** (Unep)**Simone Borelli** (FAO)**Edward Blakely** (Visiting professor all'Università luav di Venezia)**Simona Arletti** (Presidente Reti Città Sane e Marta Guidi, Comune di Modena)**Andrea Limauro** (Washington DC)**Chiara Gallani** (Assessore all'Ambiente, verde, parchi e agricoltura - Comune di Padova)**Piero Pelizzaro** (Chief Resilience Officer - Comune di Milano)**Valentina Orioli** (Assessore all'Urbanistica, Edilizia privata, Ambiente, Tutela e riqualificazione della Città storica - Comune di Bologna)**Roberta Fusari** (Assessore

all'Urbanistica, Edilizia e rigenerazione Urbana - Comune di Ferrara)

Andrea Murari (Assessore all'Ambiente e Pianificazione territoriale - Comune di Mantova)
Moderators: **Francesco Musco** (IUAV), **Piero Pelizzaro** (Chief Resilience Officer Comune di Milano), **Adriana Nepote** (Comune di Mantova - Presidente Agenda 21)

Organizers: Agenda 21 Locali italiane, Comune di Mantova, Università IUAV di Venezia

10.30/12.30**PARALLEL SESSIONS 5 THE FUTURE****Teatro Sociale****P.S. 5.1 Changing People**
chaired by **Sheila Wertz****Helen Davies** / Future funding of urban forests – time to move to a beneficiary pays model?**Camilo Ordonez** / The psycho/social effects of tree/removal from urban parks**Urmila Rajadhyaksha** / Making the Urban Forest 'speak' to citizens**Niall Williams** / The Charter for Trees Woods and People / A framework for the future?**Nicole Heise** / Lessons from "Las Praderas" / Community relations and implementation of green technologies in urban forests**Franziska Krainer** / Green Care FOREST**German Tovar** / Bogota's Urban Trees Master Plan**Bianca Baerlocher** / Stakeholder empowerment yes, but how? / From bargaining to cooperation**FUM / Salone Mantegnesco****P.S. 5.2 Changing Spaces And Places**chaired by **Nerys Jones****Sanya Kovacheva** e **Veronica Rignonat** / MN50. Re/identifying the Industrial Heritage Sites: The Engine for the Historical City's Future Landscape**Alan Simson** / The new Northern Forest in the UK: a project designed to heal the wounds of post/industrial neglect by applying the concepts of the New Urban Agenda to a multi/regional urban/peri/urban forestry initiative**Vladimir Ionut Boc** / Bioclimatic Cities of the Future. Conceptual Strategies for Modular Green Space Systems**Lucina Caravaggi** / New urban forests in layering landscapes
Ferdinand Ludwig and **Stefano Panunzi** / Seismic Green Infrastructure: EKSOTECTURES & EKSOSCAPES**Patricia Sanches** / Conciliating human density and green spaces in cities: What urban design could be better for a sustainable future**Hajri Haska** / Some aspects on maintenance/land use around the trees in urban areas, an overview of Pogradec city, Albania**Win Wambecq** / Forest urbanism in the Campine region, Belgium**FUM / Aula Matilde di Canossa****P.S. 5.3 Changing Environment**chaired by **Maria Chiara Pastore Outi Wahlroos** / Creating ecosystem services through urban oases: stormwater management landscaping in Southern Finland
Luigi Campoli / SDI Spatial Data Infrastructure Integrated Ater Roma

Qiyao Han / Mapping the permeability of cities to forest migration under climate change
ZhenKai Sun / The potential influence of nursery offerings on tree species diversity in new Beijing plain afforestation
Yamuna Giambastiani / Indirect root distribution detection by 2D Electrical Resistivity Tomography. Application to Pinus pinea root system, in different soil type with a field approach
Chiara Baldacchini / A fast and ultra/spatially resolved method to monitor PM concentration in cities from PM deposition on urban trees
Rocio Alonso / Urban and peri/urban vegetation can improve air quality in Mediterranean areas
Rico Hübner / The rise of urban agroforestry systems – a comparative analysis of the United States/Canada and Germany

FUM – Aula Magna

• **P.S.5.4 Changing Benefits** chaired by **Josefina Endefadaque Charl Justine Darapisa** / Landscape Health Assessment Index: A Methodological Summary of Soundscape Mapping as a New Frontier for Urban Forest Soundscape/ Based Spatial Planning Design, and Ecological Security Pattern and Geometry Recognition
Daide Geneletti / Using ecosystem service knowledge to design innovative performance/ based urban planning approaches
Enrico Calvo / Methodologies and results of monitoring activities in lowland forests and urban plantations in Lombardy and Slovenia
David Nowak / i/Tree: Assessing changes in urban forest benefits and values across the world
Rosniza Kassim / Self/watering

Vertical Planter: Solution for Green Facade in Tropics
Paloma Cariñanos / Breathing in the Parks: an innovative tool to plan low/allergy urban forests in the future
Noor Azlin Yahya / Ecotourism and environmental education potentials in urban forests of Malaysia
Nancai Pei / Integration of fundamental principles and applications of emerging techniques in urban forestry

10.30/13.30

Politecnico Aula A.0.3

Special Side Event
Global Landscapes of Oil
 Speaker: **Carola Hein** (TU Delft)

12.30/13.30

FUM
Lunch Break

13.30/15.00

FUM – Aula Magna
 Side Events

Site-specific approach for the contaminated soils remediation by using plants
 Speakers: **Paolo De Angelis, Edoardo Puglisi, Pietro Iavazzo, Fabrizio Adani**
 Organizer: ERSAF Lombardia Region

FUM – Aula Matilde di Canossa
From Urban Greeneries to Green Urbanity: Data is a connector

Speakers: **Dmitry Sivaev**, World Bank, USA- Price of urban silence: how data can help price void spaces in urban areas. Are void spaces in the city the most expensive? How urban porosity could support comfortable and sustainable urban living?
Anna Amvrosova, Habidatum, USA, Netherlands, Russia – An urban park: opportunity or

commodity? Is the “number of visitors” relevant indicator of park’s economic value? If not, then what?

Vicente Guallard, Valldaura Self-Sufficient Labs urban agriculture project (IAAC), Elena Mitrofanova, Shukhov Lab, Spain, Russia – Urban agriculture: data to prove how much oil regular tomato could “carry”? Why urban agriculture could be economically viable?

Alena Shlyakhovaya, Bureau Meganom, Russia – Urban Super Park as a regeneration concept for soviet “microrayon areas”
 Organizer: HABIDATUM

Sala degli Stemma

Towards a Metropolitan Park – Milano2030

Speakers: **Pierfrancesco Maran** / Comune di Milano, TBC
Stefano Boeri / Politecnico di Milano, TBC
Daniele Del Ben / Città Metropolitana di Milano
Piero Pelizzaro / Direzione Città Resilienti, Comune di Milano
Riccardo Gini / Parco Nord Milano

Maria Pia Sparla / Parco Agricolo Sud Milano
Piergiorgio Valentini / Città Metropolitana di Milano
Silvio Anderloni / Bosco in Città
Eugenio Morello / Politecnico di Milano
Maria Chiara Pastore / Politecnico di Milano
 Organizer: Politecnico di Milano

13.30/14.30

FUM / Salone Mantegnesco
 Poster Session 3

14.30/16.00

Politecnico Aula A.0.2

Youth Special Panel Session
 Presentation of project and selection of winning project

14.30/17.00

FUM / Salone Mantegnesco
 Poster Session Ends

15.30/16.00

Teatro Sociale
 Coffee Break

15.30/17.00

FUM / Aula Magna
 Special Side Event
Nature-Based Solutions: overcoming barriers, enhancing benefits. Launch of the Manifesto and workshop

Speakers: **Raul Sanchez** / CARTIF
 Technology Centre
Edoardo Croci / Università Bocconi
Clare Olver / Mersey Forest)
Thami Croeser / RMIT University
Giorgio Vacchiano / Università degli Studi di Milano
Kaan Emir / Demir
Adriana Nepote / Municipality of Mantova
 Moderator: **Paul Nolan** / Mersey Forest
 Organizer: Fondazione iCons/ Urban GreenUp

16.00/17.30

Teatro Sociale

Focus discussion
 A green vision for the future moderated by **Kai Lintunen**
 Panelists: **Cecil Konijnendijk** / University British Columbia
Stefano Boeri / Politecnico di Milano, Tongji University
Laura Petrella / Un-Habitat
Abdelkader Bensada / UNEP
Adam Freed / Bloomberg Associates
Lina Liakou / 100 Resilient Cities

16.00/17.30

Sala degli Stemmi

Special Side Event

Città, clima e sfide per lo sviluppo (Italian language)

Speakers:

Alessio Malcevschi (Università di Parma), Delegato del Rettore per la RUS (Rete delle Università per lo Sviluppo Sostenibile)

Grammenos Mastrojeni

(Ministero degli Affari Esteri e della Cooperazione Internazionale), Coordinatore per le iniziative di Cooperazione allo Sviluppo in materia di eco-sostenibilità e di Cooperazione Decentrata

Organizer: ASviS

17.30/18.00

Teatro Sociale

Closure of the Forum

The Organizing Committee of the Forum:

Eva Müller

(Director, Forestry Policy and Resources Division, FAO)

Marco Marchetti

(President, SISEF)

Federico Bucci

(Vice-rector of Mantova Campus, Politecnico di Milano)

Stefano Boeri

(Co-chair of the Scientific Committee, architect and Full Professor at Politecnico di Milano and Tongji University in Shanghai)

Cecil Konijnendijk (Co-chair of the Scientific Committee and Professor of urban forestry at the University of British Columbia) Representative of the Youth Organizers

EDUCATIONAL EVENTS**10.00/15.00**

Piazza Virgiliana

Tree Climbing activities

Organizer: SIA/ISA

PUBLIC EVENTS**18.00/19.30**

Sala degli Stemmi

Verde è Salute / Green is Health (Italian language)**Verde ed esercizio fisico: come combattere l'obesità e le malattie metaboliche in modo naturale**Speaker: **Enzo Bonora**

(Direttore della Sezione di Endocrinologia, Diabetologia e Metabolismo, Dipartimento di Medicina, Università di Verona) Scientific Advice: ISS Istituto Superiore di Sanità

18.00/20.00

Aula Magna Isabella d'Este

Lupo e sciacallo dorato a Mantova? Fra possibili ritorni e novità (Italian language)Speakers: **Luigi Molinari, Mauro****Belardi, Luca Lapini**

Organizer: Gruppo Ricerche Avifauna GRAM

18.00/19.00**Festival Letteratura for WFUF - Dialogues**

FUM / Aula Magna

Design ricostituente e piante: risposte complementari alle sfide del nostro tempo (Italian language).

Speakers: **Paola Antonelli, Stefano Mancuso**

NIGHT EVENTS**19.00/23.00**

Rotonda San Lorenzo

Planet Forest

Audiovisual installation virtual landscapes, imaginary scenarios, a continuously moving observatory and an infinite Forest by Propp

19.00/20.30

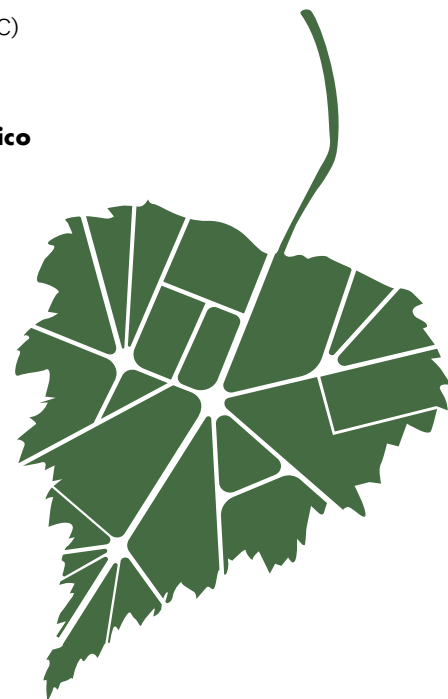
Cinema Ariston

Screening BBC Planet Earth II - Chapter 6, Cities

Presented by **Fredi Devas** (Producer and Director, BBC)

21.00/22.30

Cinema Mignon

Festival Cinematografico Internazionale delle Foreste

CITIES FORUM

Teatro Bibiena

8.45/09.00

Reception and Registration

9.00/9.45

Institutional Greetings
Mattia Palazzi (Mayor, Municipality of Mantova) the Organizing Committee: The Organizing Committee of the Forum: **Eva Müller** (Director, Forestry Policy and Resources Division, FAO), **Marco Marchetti** (President, SISEF), **Federico Bucci** (Vice-rector of Mantova Campus, Politecnico di Milano), **Stefano Boeri** (Co-chair of the Scientific Committee, architect and Full Professor at Politecnico di Milano and Tongji University in Shanghai), **Cecil Konijnendijk** (Co-chair of the Scientific Committee and Professor of urban forestry at the University of British Columbia)

9.45/10.30

Introduction. Thematic framework WFUF World
The Role of Cities and urban forestry strategies

Speakers:
Stefano Boeri
Cecil Konijnendijk

10.30/11.00**Coffee Break****11.00/11.30****Call for Action and Mantova Challenge**

Presentation by **Simone Borelli** (FAO), **Dan Lambe** (Arbor Day Foundation)

11.30/13.30

**1ST CITIES PANEL /
 THEME 1
 TREES AS
 CRITICAL URBAN
 INFRASTRUCTURE
 TO IMPROVE QUALITY
 OF LIFE**

Speakers: **Sarah Charlop-Powers**, Executive Director, New York City Natural Areas Conservancy
Carine Bernede, Paris Director of Green Space and the Environment
Eleni Myrivili, Athens Deputy Mayor of Urban Nature, Resilience and Climate Change Adaptation + Chief Resilience Officer
Paola Vigano, Milan Director of Greening Department
Erion Velijai, Mayor of Tirana
 Moderator: **Jacob Koch**, Bloomberg Associates Sustainability Practice

13.30/14.45

Lunch break

Mayors welcome

**14.45/16.00
 2ND CITIES PANEL /
 THEME 2
 DESIGNING NEW
 URBAN SCENARIOS FOR
 RESILIENT CITIES**

Speakers:
Noémie Fompeyrine, CRO Paris
Toby Kent, CRO Melbourne
Kathryn Oldham, CRO Manchester UK
Carlos Castro, CRO Lisbon
 Moderator: **Piero Pelizzaro**, CRO Milan

16.00/17.45

**3RD CITIES PANEL /
 THEME 3
 DESIGNING NEW
 URBAN SCENARIOS FOR
 RESILIENT CITIES**

Speakers:
George Dimarelos, CRO Thessaloniki
Elliot Cappell, CRO Toronto
Enrique Penalosa, Mayor of Bogotá TBC
Ullrich Seriau, Mayor of Dortmund TBC
 Moderator: **Piero Pelizzaro**, CRO

17.45/18.15

Coffee Break

18.15/18.45**Mantova Challenge adoption****18.45/19.15**

Closure of the Cities Forum
Mattia Palazzi (Mayor, Municipality of Mantova)
Andrea Murari (Municipality of Mantova)
 the Organizing Committee

**ITINERARIES
 TO BE DEFINED**

PUBLIC EVENTS**11.30/12.30****Festival Letteratura for WFUF**

Sala Capriate
Fratello albero e sorella Foresta.
(Italian language)

Quando gli alberi riducono il Magistero del Disordine e possono salvare la vita
 by **Tiziano Fratus**

16.15/17.15

Cinema del Carbone
Festival Letteratura
 for WFUF
94 passi in giardino
(Italian language)
 by **Lorenza Zambon**

18.00/19.30

Sala degli Stemmii
Verde è Salute. "Cambiamo Aria" con le piante: verde e inquinamento atmosferico

Speaker: **Pier Mannuccio Mannucci** (Direttore Scientifico della Fondazione Ca' Granda Ospedale Maggiore Policlinico di Milano)
 Scientific Advice: **ISS Istituto Superiore di Sanità**

NIGHT EVENTS**21.30/23.00**

Piazza Erbe, Rotonda San Lorenzo
Audiovisual installation
Planet Forest
 virtual landscapes, imaginary scenarios, a continuously moving observatory and an infinite Forest
 by **Propp**

EDUCATIONAL EVENTS

Parcoarcobaleno
Alberi da arrampicare: Grande attività collettiva con il gruppo scout per la messa a dimora degli alberi

11.00/13.30

Itinerario Mincio gratuito
3 Itinerari / Bosco Fontana / Carpaneta / Bertone / Navigazione

Honour Board

Mattia Palazzi
Sindaco Città di Mantova

Federico Bucci
Prorettore del Politecnico di Milano, Polo Territoriale di Mantova

Marco Marchetti
Presidente Sisef

Hiroto Mitsugi
FAO Assistant Director-General Forestry Department

Scientific Committee

- Chairs

Stefano Boeri
Cecil Konijnendijk

- Committee members

Enrico Alleva
Alessandro Balducci
Adrina C. Bardekjian
Carlo Calfapietra
Paloma Cariñanos
Clive Davies
Cynnamin Dobbs
Francisco J. Escobedo
Silvano Fares
Francesco Ferrini
Laura Gatti
C. Y. Jim
Rola Khoury
Deborah KUH
Anna Lambertini
Stephen Livesley
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David J. Nowak
Marc Palahi
Maria Chiara Pastore
Giovanni Sanesi
Giuseppe Scarascia-Mugnozza
Charlie Shackleton
Ian Shears
Alan Simson
Cheng Wang

Organizing Committee

- FAO

Simone Borelli
Michela Conigliaro
Diego Portugal del Pino
Maria de Cristoforo
Jill Hannon
Francesca Bruzzese

- Comune di Mantova

Andrea Murari
Adriana Nepote
Annamaria Sposito
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Sebastiano Salì
Elisa Gasparini
Milena Canuti
Federico Ferrari
Arnaldo De Pietri
Fiorenzo Cariola
Andrea Vincenzi
Elisa Parisi
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Cristina Regattieri
Caterina Mezzadri
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- Politecnico di Milano

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- SISEF

Fabio Salbitano
Giovanni Santopuoli
Giorgio Vacchiano
Gabriele Bucci

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Area Comunicazione e Relazioni Esterne Politecnico di Milano
FAO Newsroom
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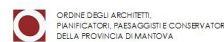
World Forum on Urban Forests Press Office

Delos di Annalisa Fattori e Paola Nobile
delos@delosrp.it

Design concept

Mario Piazza, Lorenzo Mazzali / 46xy

Amici del Forum



Ministero della Giustizia



Bloomberg



