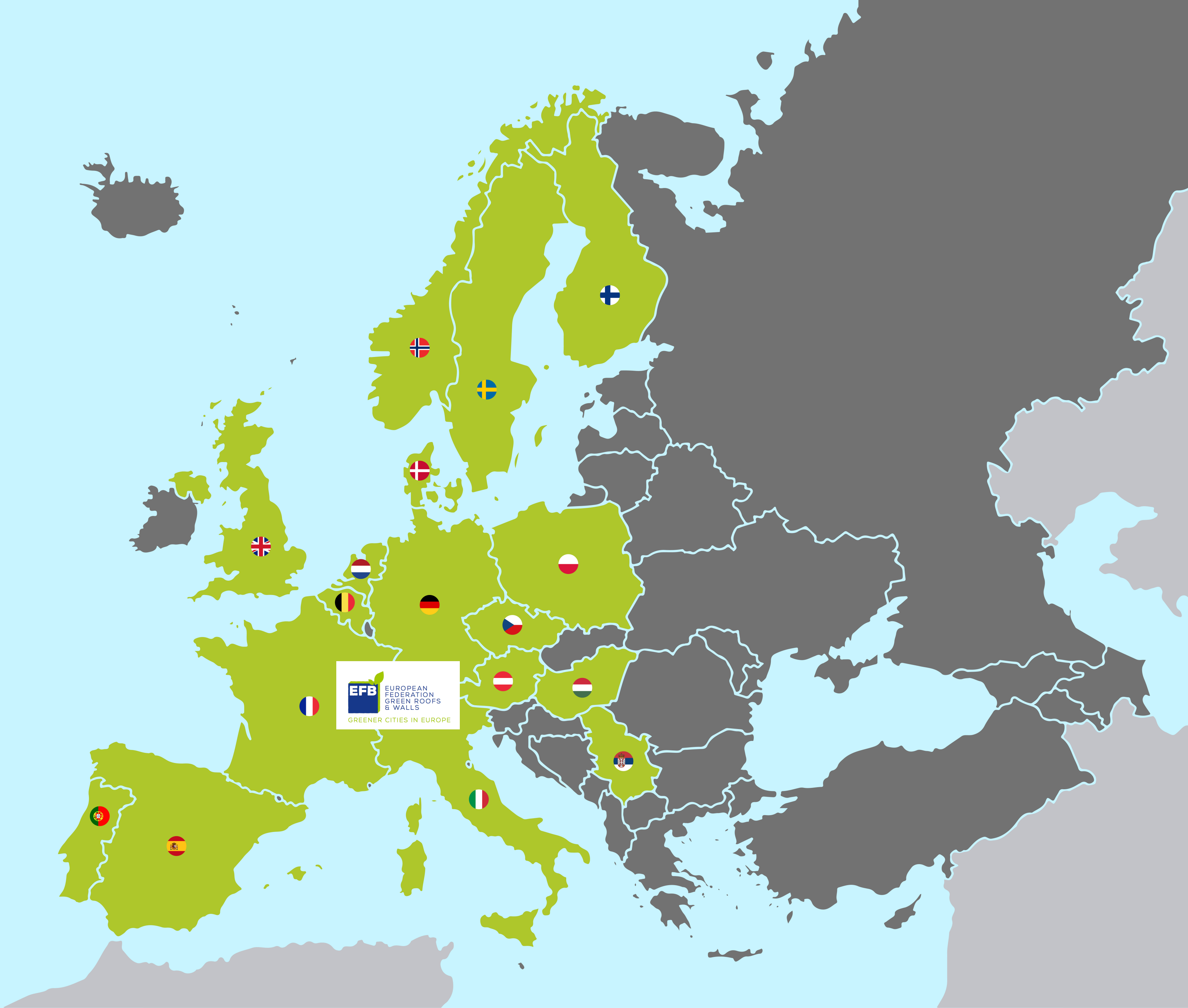


Driving to make European cities greener

Dusty Gedge – President EFB – Europäischen
Föderation Bauwerksbegrünung



GREENER CITIES IN EUROPE



13 Associations across Europe

Scandinavian Association combines Denmark, Norway Sweden and Finland

EFB represents companies, contractors, research organisations and other interested parties:

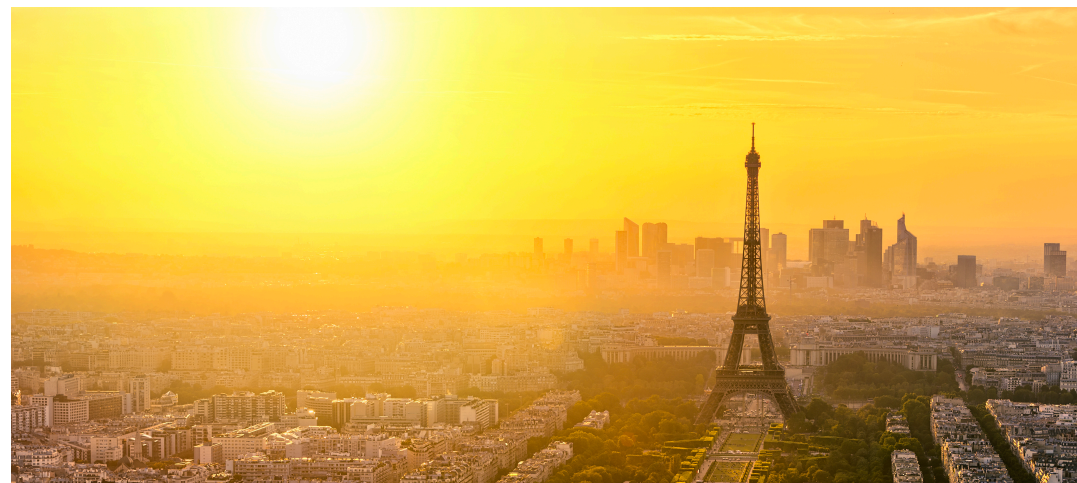
- Standards and norms/codes of practice for green roofs and walls across Europe
- Support and initiate innovative research into technical and proximity approaches to green roofs and walls
- Active in a number of Horizon 2020 projects

**74% of citizens in Europe
live in cities**

**Green infrastructures
important for their
health and well-being**

**Green infrastructure
adapts cities to
climate change**





Paris

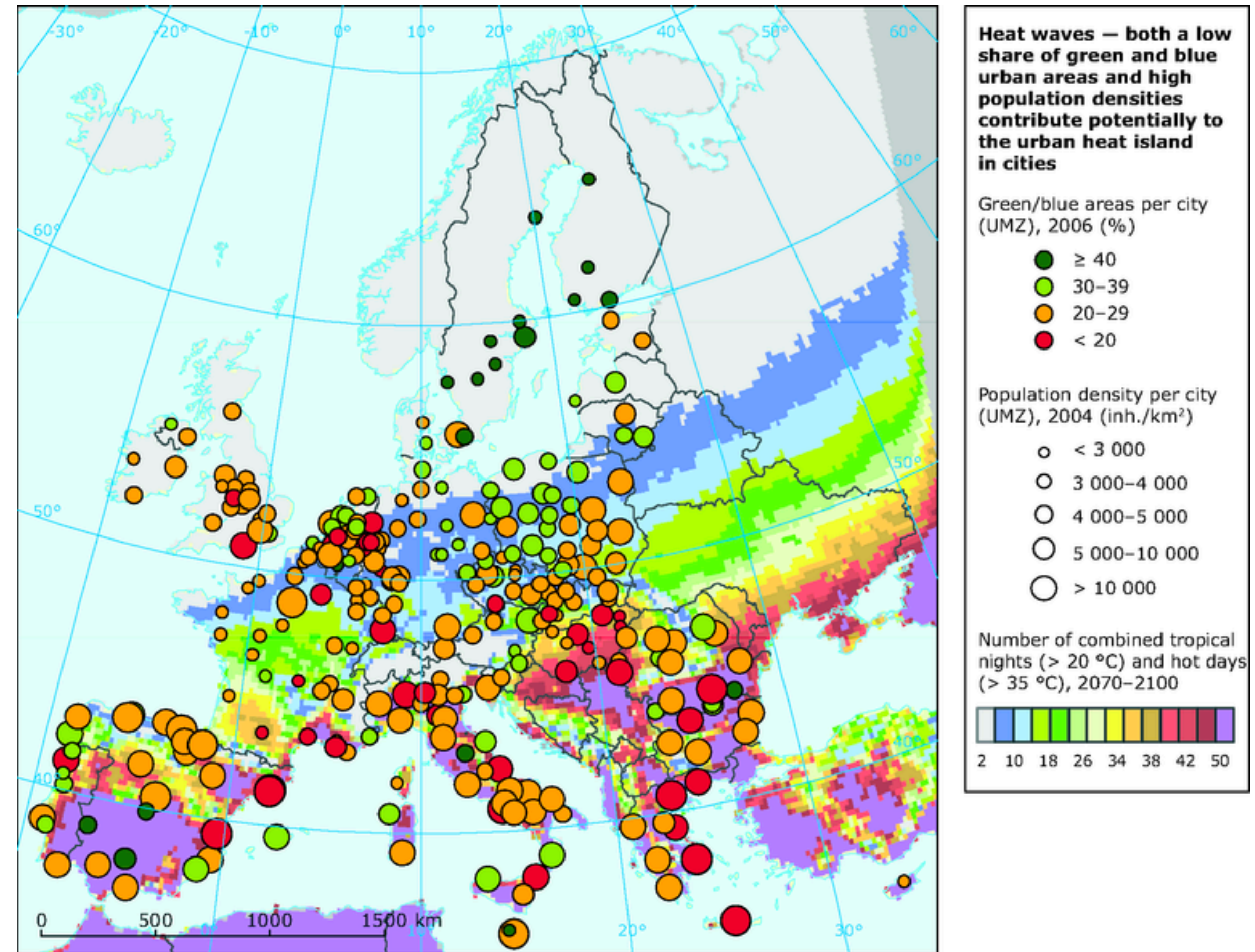


Spain

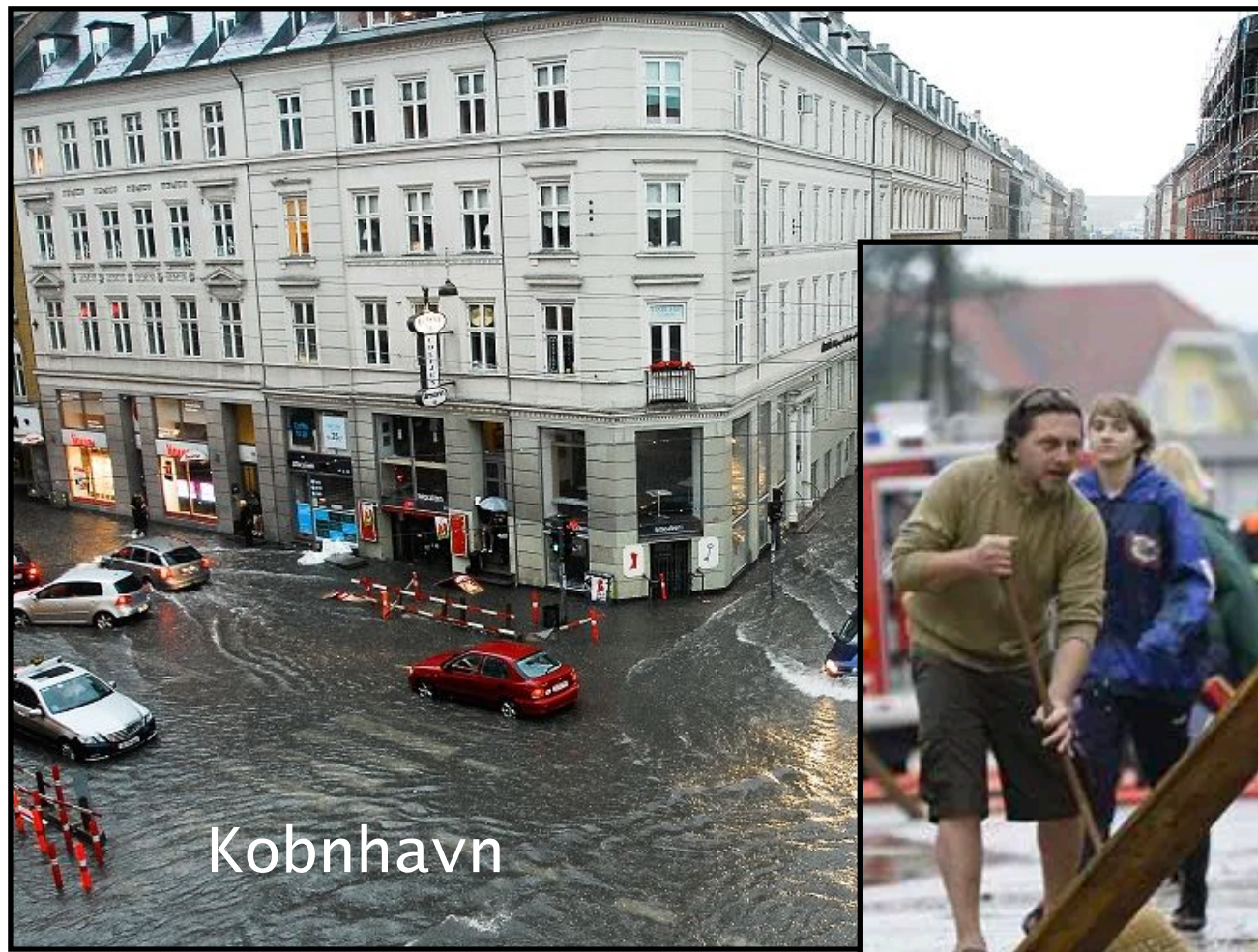


Prague

Increase in heat waves



Why European heat waves need to adapt to climate change



Copenhagen



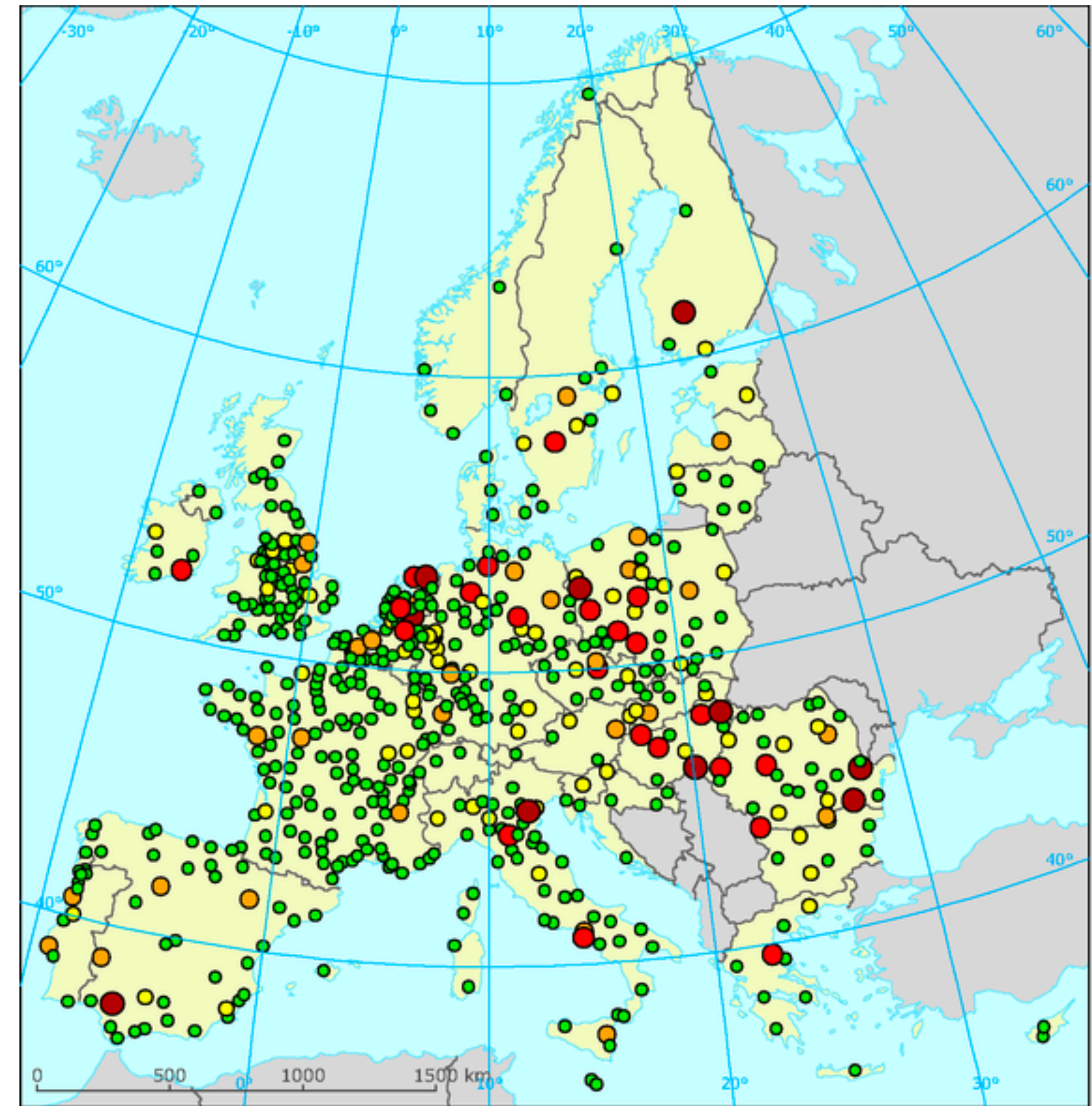
Vienna



Bolzano/Bozen



Lisboa



Flood risk in European cities

Portion of urban land exposed to potential floods under climate change scenario A2 (high emission)

- < 3 %
- 3 %-6 %
- 6 %-10 %
- 10 %-20 %
- > 20 %

Increase surface flooding in cities

Why European heat waves need to adapt to climate change

Green walls

Help cool street canyon

Cool and insulate buildings

**Act as VERTICAL 'rain gardens'
storing rain water for
irrigation where design**

Green 
Infrastructure
consultancy



Green roofs

Reduced urban heath island effect (heat waves)

Store and reduce rain water run off

Can be combined with solar and blue roofs

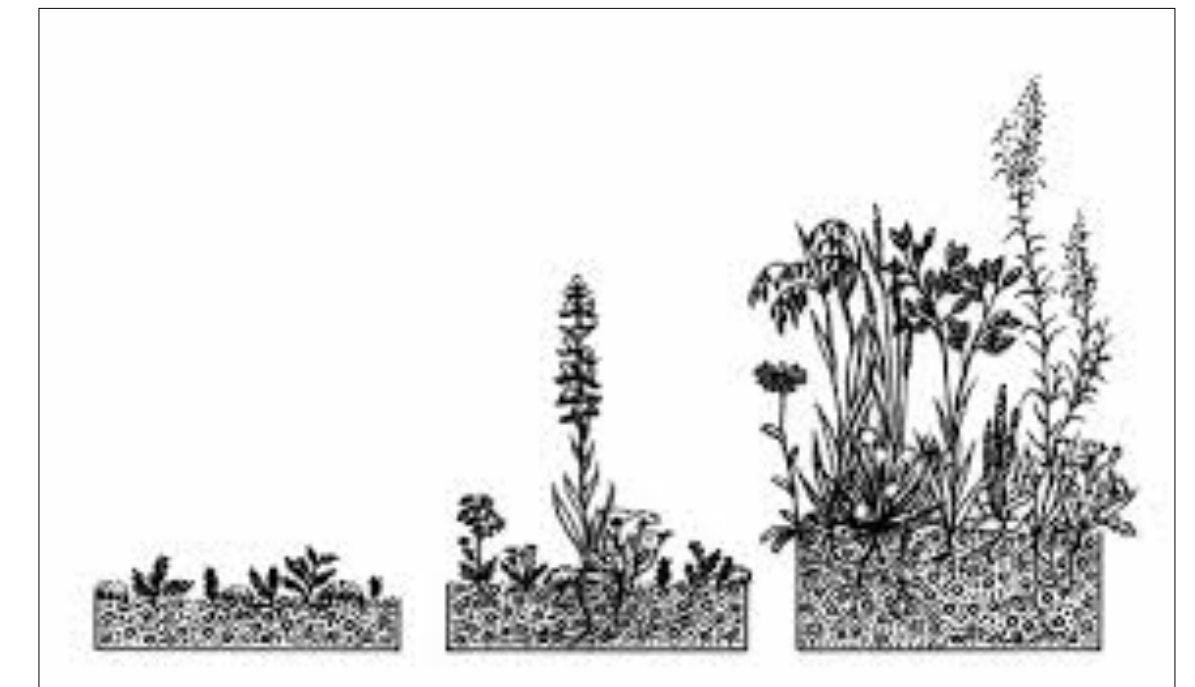
Increase biodiversity



My personal work - BIODIVERSITY/GREEN ROOFS

Collaboration with Swiss researches on biodiversity since 2000

Sharing this 'knowledge' across Europe



Guidance on the Creation of Habitat for Invertebrates on Extensive Green Roofs

Report prepared for Natural England
&
Livingroofs.org
October 2010



by
Dusty Gedge,
Gary Grant
and
Gyongyver Kadas







Living Roofs and Walls

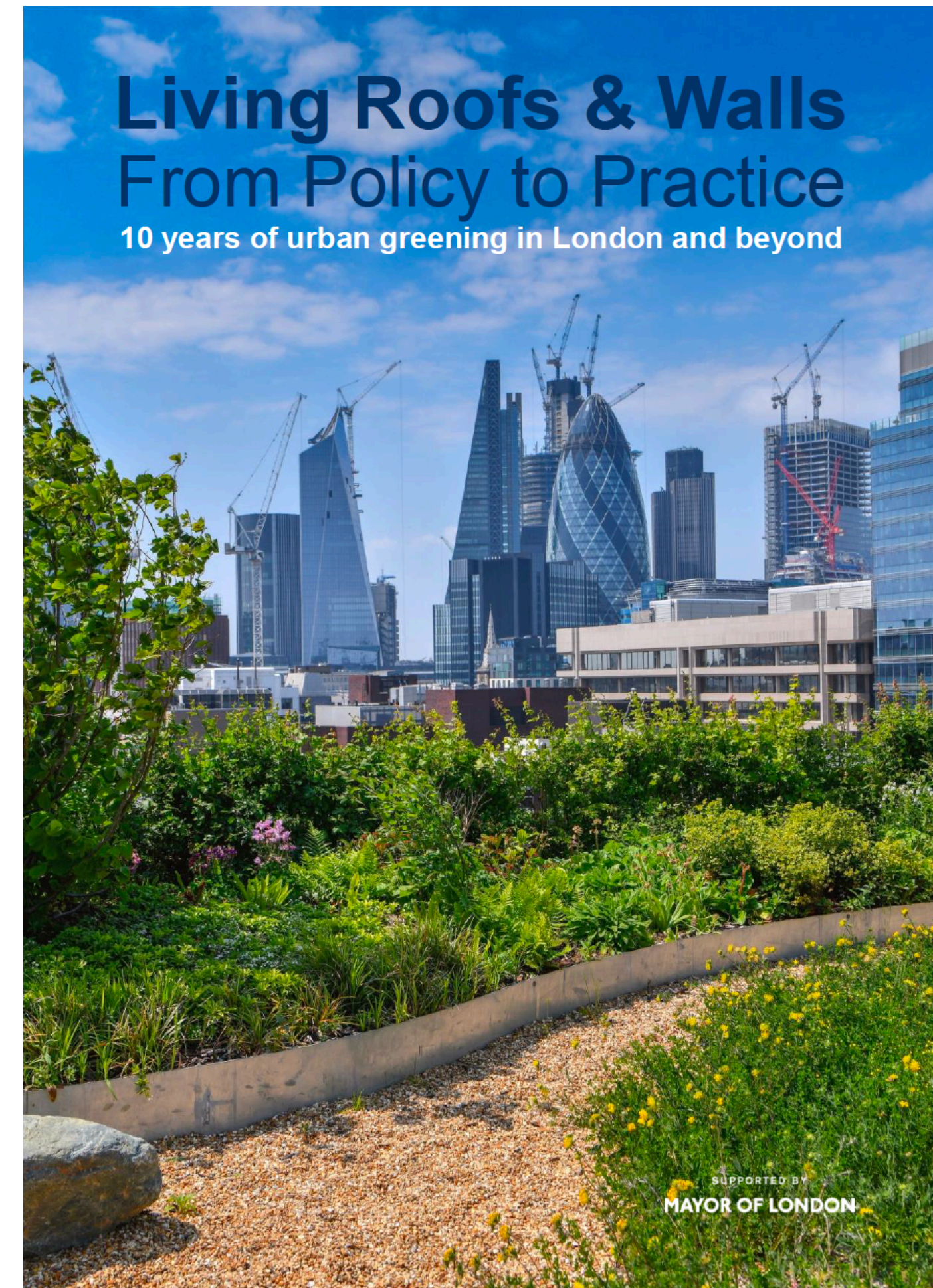
Technical Report: Supporting London Plan Policy

POLICY WORK IN UK – BASED ON collaboration with colleagues
in CH, AUS and DE

Policy work

New Green Roof Report 2019

- Review of London's success over 10 years
- Review of all policies in Europe and their success
- League table of cities ranked m²/citizen in Europe and the rest of the world
- Up to date review of all benefits
- Infographics and maps for all London districts
- Case studies of specific roofs



<https://livingroofs.org/london-2019-green-roof-report/>



ephemeral wetlands green roofs
as habitat and potential 'blue roofs'



Victoria and Albert Museum London



Social housing Malmö, Sweden







Wind shade

Sun shade

Habitat for rare butterfly

Retrofit and refurbishment

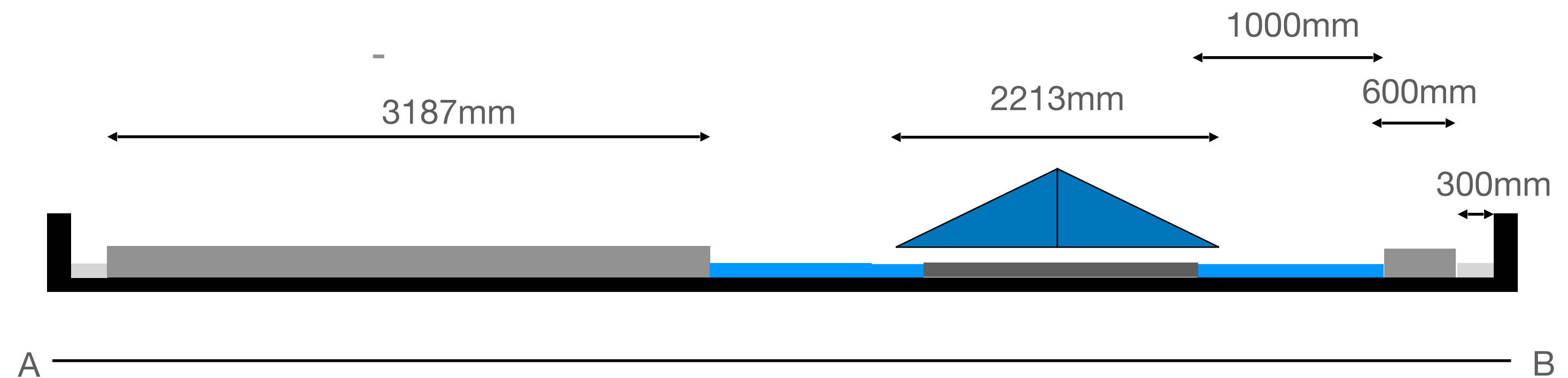
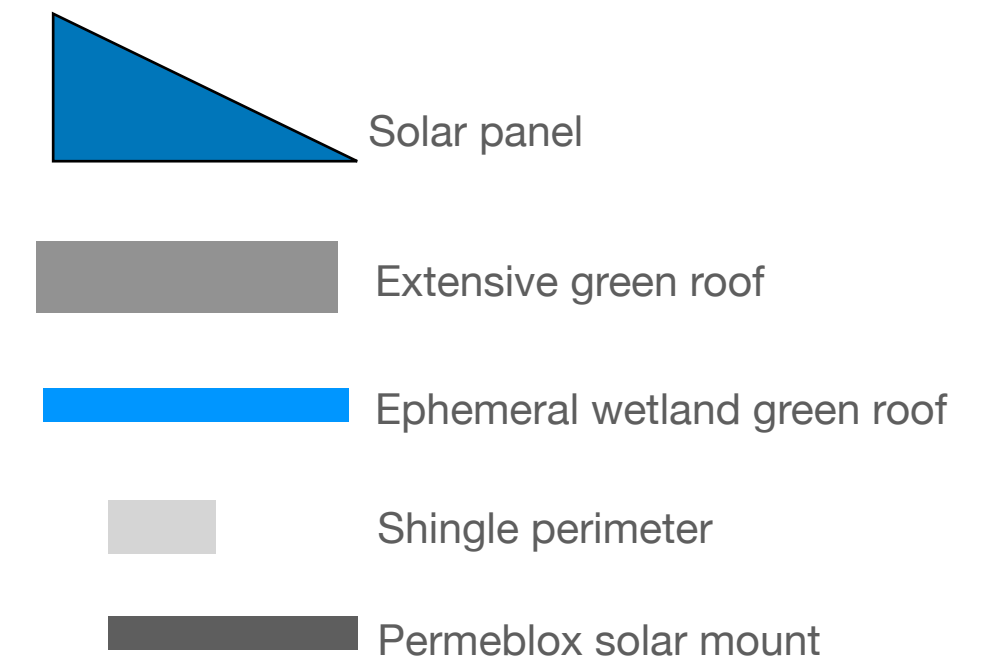
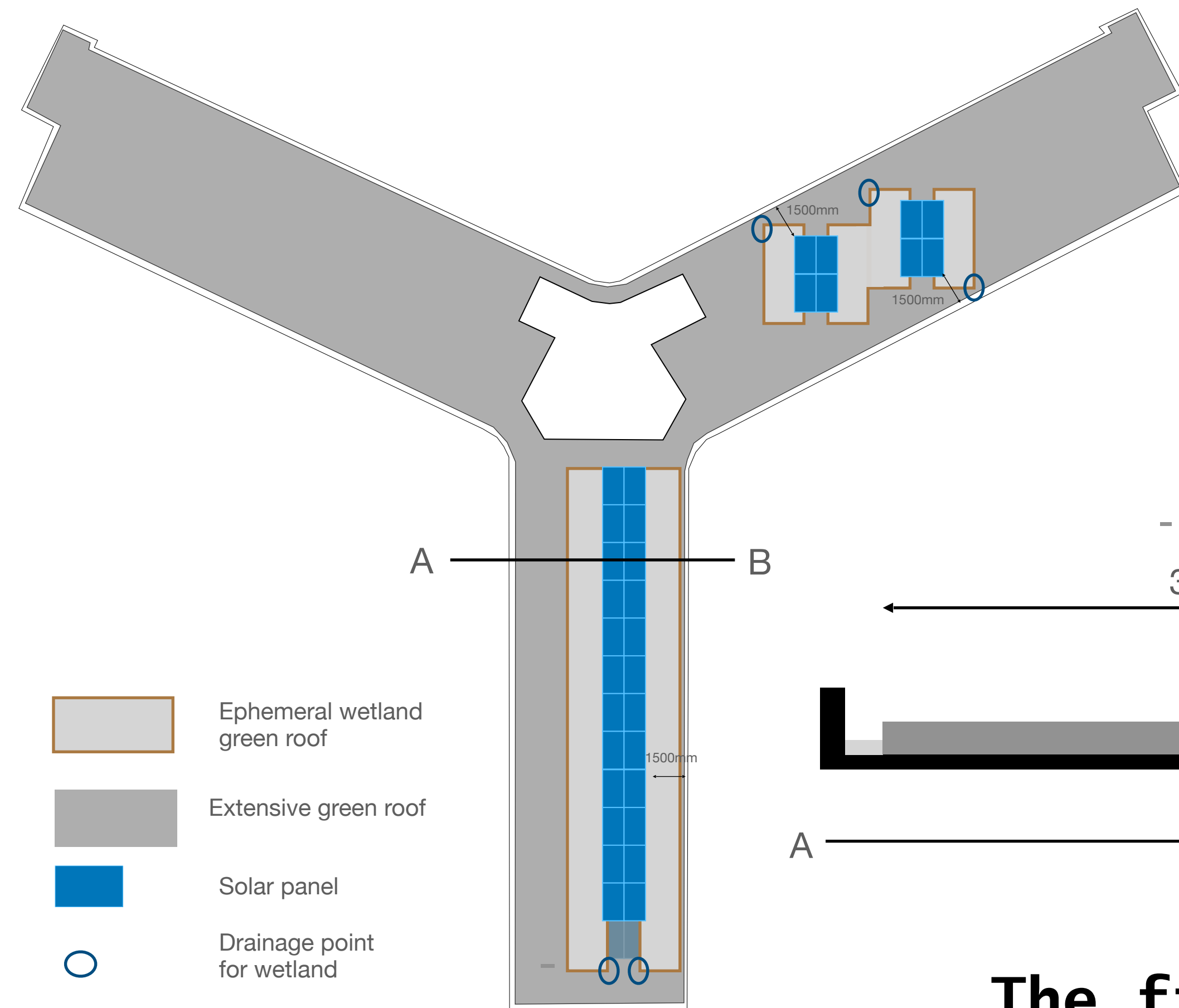
RETROFITTING

LB TOWER HAMLETS



· Plan to retrofit approximately 6000m² over next year -

Combining habitat, solar and wetlands for rain water



The first major CARBON NEGATIVE green roofs

Waste and Carbon agenda

Improving the carbon story of green roofs



Carbon story

- Investigating materials that have high embedded carbon
- Engineered items
- Substrates
- Aim to develop systems that can be given a carbon credit value
- With CC value - will this lead to a mechanism to pay 4 retrofit

The model should be replicable in any EUROPEAN CITY

where the original waste materials are present

DIGITAL



Software company based in Vienna

- sophisticated modelling of existing neighbourhoods in terms of green space
- modelling of new developments



New company working on ESA contract to:

- identify and assess green roof health
- aims to provide a biodiversity index for





Health and well-being





Need to recognise roofs can provide
access to nature and green space



News

About us

Blog

Casework

Campaigns

Lost Modern

100 Buildings

100 Years

Murals

Campaign

War

Memorials

Previous

Campaigns

Regional

Publications

Events

Members

Links

Follow us

C20 Society Lost Modern Campaign



Photo © Richard Glover, courtesy Chetwood Associates

Sainsbury's, Greenwich, London

Europe is leading green roof industry in the world



Our members will be promoting their activities June 6th

Most sustainable retail store 2019



BY HARTWIG BRAUN



what will be the most sustainable retail store be in 2041?



Thank you



Dusty Gedge



@greenroofsuk



dusty_gedge



www.livingroofs.org



www.greeninfrastructureconsultancy.com



dusty@greeninfrastructureconsultancy.com

