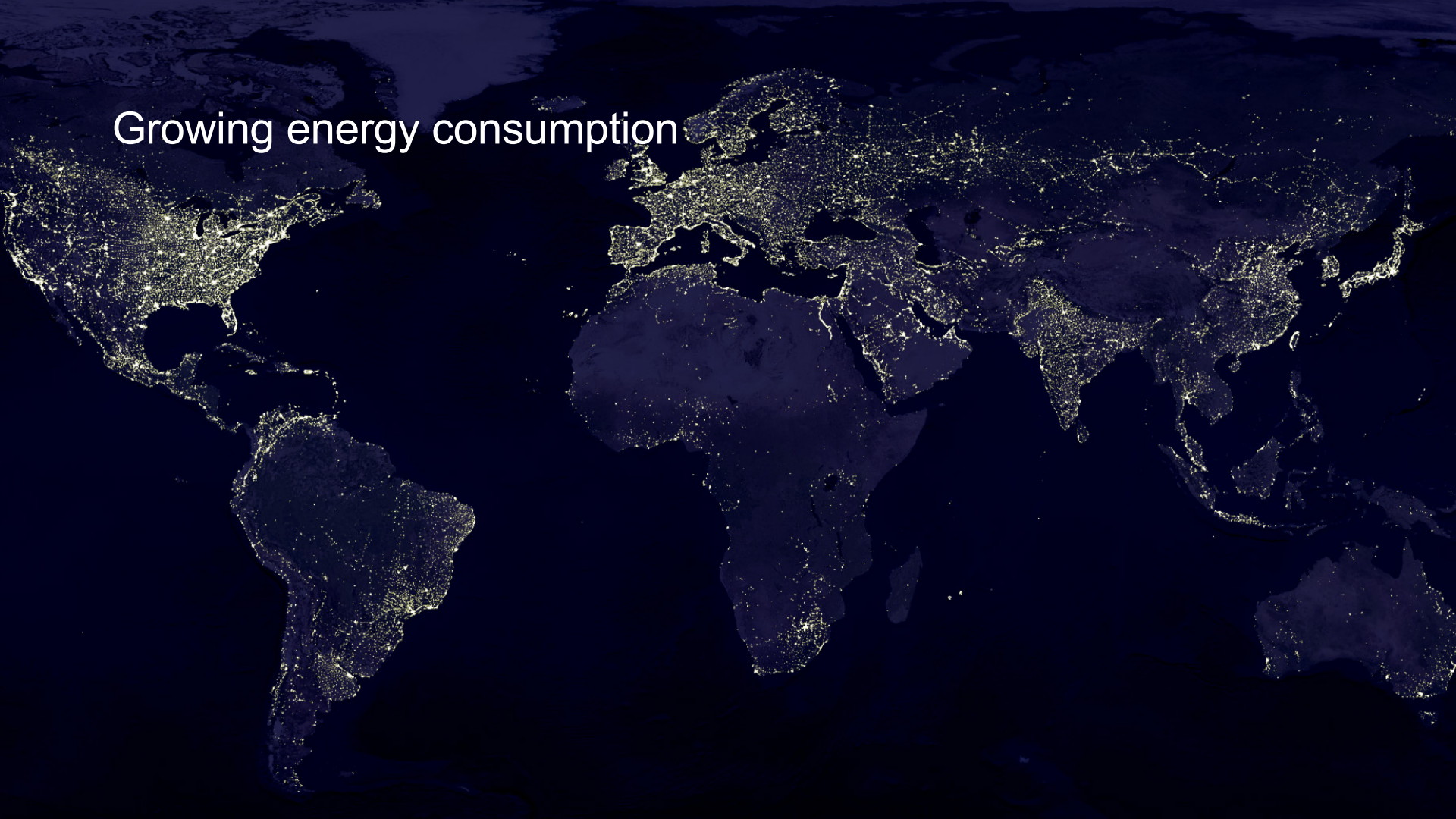


# FROM CHALLENGE TO MISSION - MAKE SUSTAINABLE CITIES A REALITY

PROF. DR.-ING. HOLGER WALLBAUM

Graz, 2019-09-13

Growing energy consumption

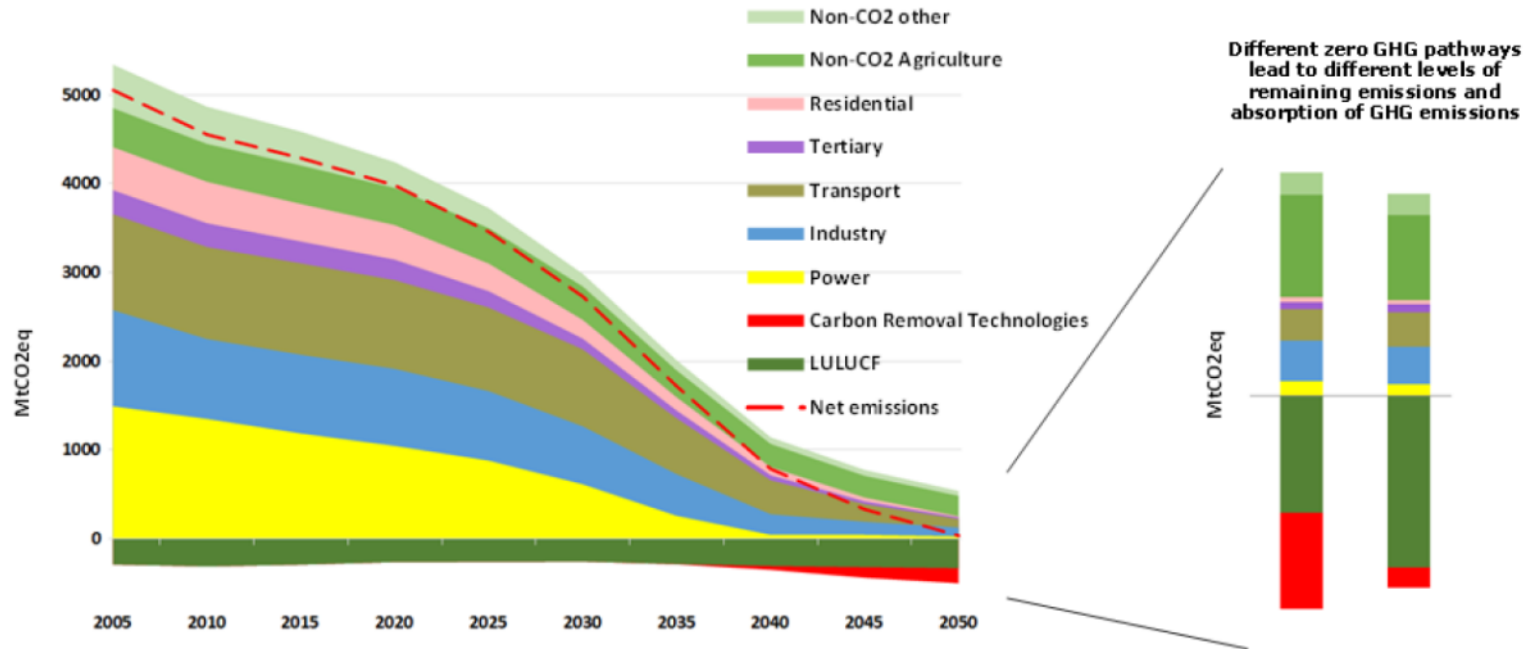




Climate change



# EU GHG-E UNDER THE SCENARIO OF A GLOBAL TEMPERATURE INCREASE OF 1.5°C



Ref.: Communication from the Commission to the European Parliament and the Council, A Clean Planet for all. A European strategic long-term vision for a prosperous, modern, competitive and climate neutral economy, COM(2018)773, 28 November 2018.

How well-equipped are we for  
a deep energetic upgrade of  
our housing stock in Europe?



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## Ministry's Sectors

### Housing

1.1m housing Units

#### Social Housing Program

By 2022: targeting 1.1 M units  
30 K units has been established (2 BUSD)  
250 K units under construction (2.5 BUSD)

#### Sakan Masr (Distinct Housing Units)

Targeting 200 K units (5 years)  
0 K units under construction  
6 new cities—area up-to 115 m2

#### Dar Masr (Middle Income Housing)

Targeting 200 K units within 5 years  
0 K units under construction.  
0 K units in tendering processes.

#### Residential Land plots

lots of Bayt ElWatan (for Expats)  
lots for Family housing 250 K.

### New Cities

42 New Cities

#### Establish new cities (20)

##### Introducing new generation of new cities to double urban area

- New Administrative Capital
- New Alamiya City
- New Mansoura City
- East of port Said city
- Al-Galala
- New Ismailia City
- Sheikh Zayed extension
- Naser City (West of Assiut)
- West of Qena city
- New Toshka city
- Hadayek October city
- East of Mallawy new city
- Al-Fashn New City

#### Existing new cities (22)

##### Upgrading of existing new cities

- Upgrade infrastructure & road network
- new public services & transportation

### Utilities

Enhancing utilities services  
8k Km long of Roads

#### Sanitation and Potable water

By 2022: targeting to enhance the services of:

- Potable water from 95% to 100%
  - Sanitation (total) from 56% to 75%
  - Sanitation for Urban from 92% to 100%
  - Sanitation for villages from 34% to 60%
- 2014 onwards: 698 Projects have been established (2.6 BUSD):
- 197 Projects of potable water have been established (1.7 BUSD)
  - 80 Projects of Sanitation treatment have been established (0.5 BUSD)
  - 414 Projects of Sanitation treatment or villages have been established (0.6 BUSD)

#### National road network (8k KM)

Targeting 8k km national road network  
• 865 km long of roads has been introduced in 15 projects (0.15 BUSD)  
• 750 Km long of roads under construction (0.3 BUSD)

### Urban Renewal & Informal Settlements upgrading

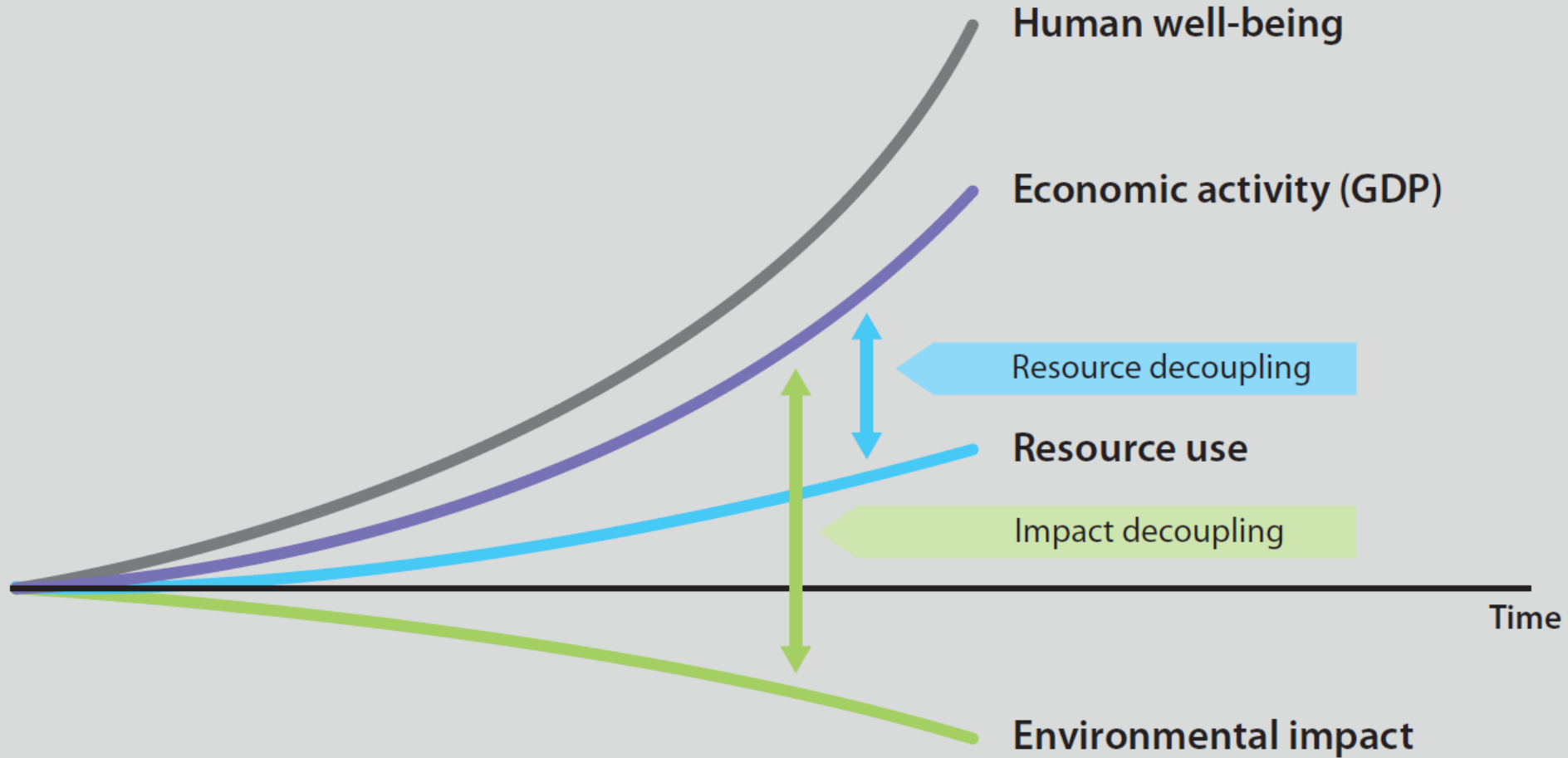
180K housing Units

#### Upgrading of Unsafe areas

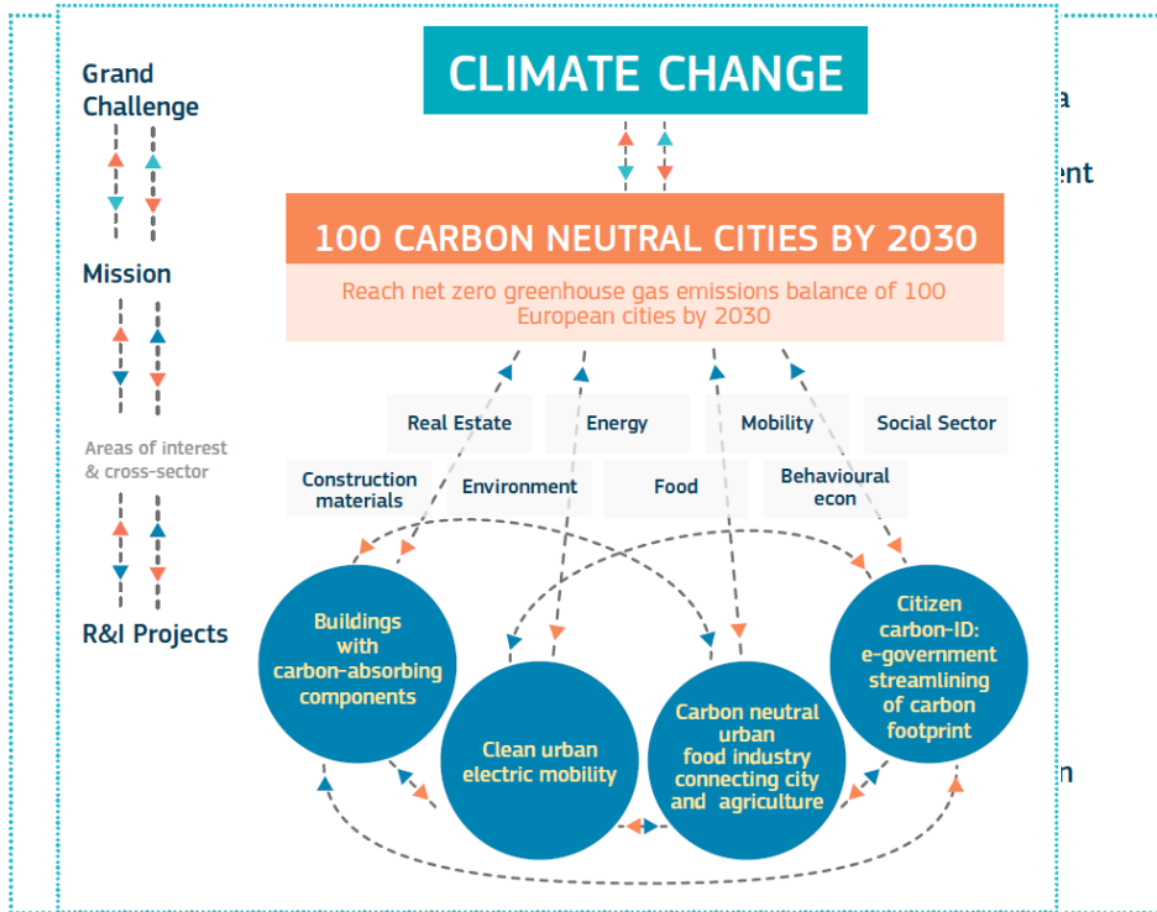
Targeting to upgrade all unsafe areas 180 k units  
• 20 K units have been established (0.8 BUSD)  
• 74 K units under construction (0.8 BUSD)  
• 93 K units in tendering processes (0.8 BUSD)













**BEYOND**  
**2020** JUNE 9 - 11  
WORLD SUSTAINABLE  
BUILT ENVIRONMENT  
CONFERENCE





# WHAT IS BEYOND 2020?

BEYOND 2020 is the world sustainable built environment conference that will take place in Göteborg, Sweden on 9-11 June 2020. The conference is organised by **Chalmers University of Technology** and **RISE** Research Institutes of Sweden, with the support of **Johanneberg Science Park** and **Gothenburg City**.



**CHALMERS**  
UNIVERSITY OF TECHNOLOGY

**RI  
SE**

Research Institutes  
of Sweden



**Johanneberg  
Science Park**



**City of  
Gothenburg**







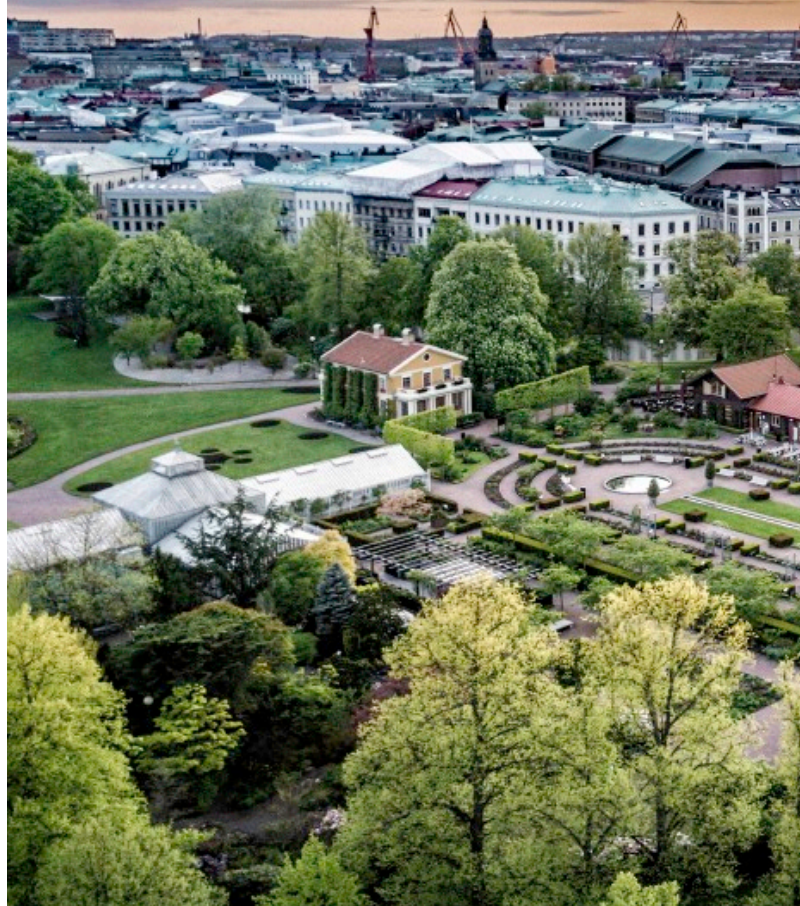
## A CONFERENCE SERIES

- BEYOND 2020 as part of a Sustainable Built Environment (SBE) conference series co-owned by four organizations



- Held every third year since 2000
- Last edition in Hong Kong was attended by a total of 1,800 people from 57 countries and regions and successfully created a platform for knowledge sharing and forging collaborations to drive towards a sustainable built environment.





- Taipei, Taiwan | 14-17 Oct 2018
- Eindhoven, The Netherlands | 5-7 Nov 2018
- Brussels, Belgium | 5-7 Feb 2019
- Scilla, Italy | 16-17 May 2019
- Helsinki, Finland | 22-24 May 2019
- Prague, Czech Republic | 2-4 Jul 2019
- Tokyo, Japan | 6-7 Aug 2019
- Milano, Italy | 3-6 Sep 2019

### **Graz, Austria | 9-13 Sep 2019**

- Cardiff, UK | 24-25 Sep 2019
- Temuco, Chile | 16-18 Oct 2019
- Thessaloniki, Greece | 23-25 Oct 2019
- Shenzhen, China | 14-15 Nov 2019 (TBC)
- Valletta, Malta | 21-22 Nov 2019
- Sydney, Australia | 26-28 Nov 2019
- Seoul, Korea | 12-13 Dec 2019 (TBC)
- Cairo, Egypt | Dec 2019 (TBC)

**Göteborg, Sweden**  
**9-11 June 2020**



**BEYOND  
2020**  
JUNE 9 - 11  
WORLD SUSTAINABLE  
BUILT ENVIRONMENT  
CONFERENCE



# 11 SUSTAINABLE CITIES AND COMMUNITIES



## THE MISSION OF THE CONFERENCE

The mission of the conference is to link the **global building sector** to the **UN Sustainable Development Goals** and to define its role towards the achievement and implementation of 2030 objectives.

## THE THEME OF THE CONFERENCE

The main theme of the conference is **SDG 11, Sustainable Cities and Communities**.



- Access to resilient housing and infrastructure for all
- Access to affordable housing for all
- Fuel poverty

- Healthy indoor and outdoor environment
- Healthy building materials

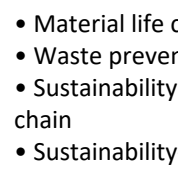
- Buildings as renewable energy users and producers
- Energy efficiency in buildings



- Assure life-long learning opportunities for all
- Enable high-quality education for a sustainable built environment



**SUSTAINABLE  
DEVELOPMENT  
GOALS**



- Material life cycle and circularity
- Waste prevention, reduction and recycling
- Sustainability reporting in construction value chain
- Sustainability-oriented procurement practices
- Climate change mitigation and adaptation in the built environment
- Built environment resilient to natural disasters



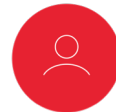


## MULTIPLE TARGETS A GLOBAL PERSPECTIVE, A LOCAL APPROACH

- 2000 participants from all over the world
- summing up key-learnings from regional conferences
- develop concrete solutions and achievable implementation plans, which will incorporate research, policy, finance, education, and innovative thinking



ACADEMIA



PRIVATE  
SECTOR



PUBLIC  
AND POLICY  
SECTOR

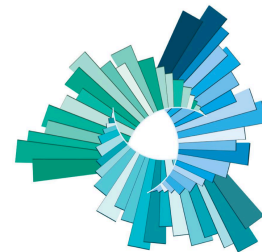


FINANCE



## WELCOME TO GÖTEBORG, SWEDEN

In 2018, for the third year in a row, Göteborg was named the “most sustainable city in the world”, according to the **Global Destination Sustainability Index**.



GLOBAL  
**DESTINATION  
SUSTAINABILITY**  
INDEX



# YOU WILL LOVE YOUR GÖTEBORG EXPERIENCE

Göteborg's central location and scenic landscape will make your journey to the World Sustainable Built Environment Conference, BEYOND 2020, simple and beautiful.

The venue of the BEYOND 2020 conference will be the Swedish Exhibition & Congress Centre, Svenska Mässan, the biggest organiser of trade fairs, exhibitions and events in Scandinavia with 100 years of experience.







# INTERNATIONAL ADVISORY BOARD



**Professor Chrisna Du Plessis**

Head of Architecture and Chair of the School of the Built Environment | University of Pretoria  
Hatfield, Pretoria, South Africa

**Professor Ralph Horne**

Chairman of the UN Global Compact: Cities Programme and Deputy PVC Research RMIT  
Melbourne, Australia

**Esteban Leon**

Head of Urban Resilience and senior representative from UN-Habitat | representing the Executive Director  
Ms **Maimunah Mohd Sharif**  
Barcelona, Spain

**Gino Van Begin**

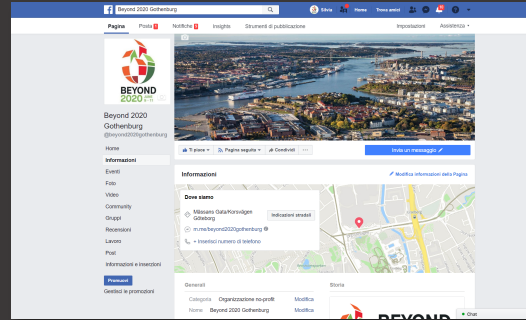
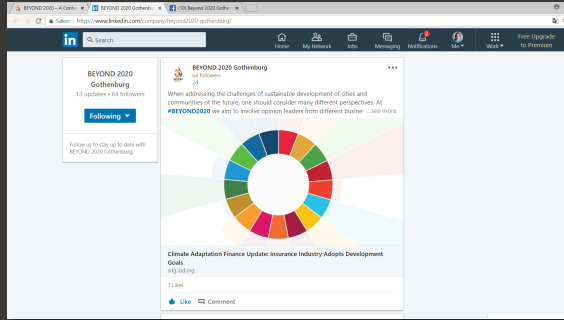
Secretary General ICLEI  
(with **Miriam Badino** – Head of the low carbon global buildings group ICLEI – as his alternate)  
Bonn, Germany

**Professor Ron Wakefield**

Director CIB, Dean, School of Property, Construction and Project Management, and Deputy PVC International, RMIT  
Melbourne, Australia







- Conference website <https://beyond2020.se/>
- Sign-up for BEYOND 2020 newsletter
- Follow BEYOND 2020 on the Social Media
- Get in touch with the local organizing committee [beyond2020.ace@chalmers.se](mailto:beyond2020.ace@chalmers.se)



# meet the LOCAL ORGANISING COMMITTEE







**THANK YOU!**  
**SEE YOU IN GÖTEBORG**

*Tack! Vi ses i Göteborg*