**GCoM Business Matchmaking**

**Questionnaire for Businesses participating at the 2024 Smart Cities Expo and World Congress**

**5th to 7th October 2024 in Barcelona**

**Introduction:**

GCoM Signatory Cities participating at the 2024 Smart Cities Expo and World Congress in Barcelona from 5-7 November 2024 will be introduced to businesses with potential capacity to support solve challenges from the cities. In order to identify relevant businesses, cities and businesses are requested to complete matching questionnaires.

The purpose of this questionnaire is to summarise your organisations’ products and solutions so that GCoM signatory cities may request to contact you.

**Timeline and Deadlines:**

23rd October 2024

**Sectors of Relevance:** water supply, waste management, energy, building, nature based solutions, circular economy, digital and mobility sectors.

**Section 1. General Information:**

**Company Information:**

1. Company Name:
2. Country:
3. Website:
4. Founding Year:
5. Capital:
6. Employees (approx. range):

**Product and Services Information:**

1. **Scope. Indicate the main scopes or sectors of solutions provided:**

[ ]  1. Energy & Power Grid

[ ]  2. Construction & Buildings

[ ]  3. Mobility & Logistics

[ ]  4. Waste Management and Circular Economy

[ ]  5. Water & Urban Infrastructure

[ ]  6. Other – indicate

1. **Description of products and services (Max 2000 characters)**
2. **Open to business in which regions:**

[ ]  1. Americas

[ ]  2. Asia

[ ]  3. Eastern Europe

[ ]  4. Mediterranean / Middle East

[ ]  5. Sub Saharan Africa

[ ]  6. European Union

1. **Indicate specific countries / cities interested in meeting (see SCEWC participation cities list)**

**Pre-defined Challenges**

See below pre-defined city challenges. Please tick any of the boxes if the solutions your business provides are relevant to the challenges below most common to the cities. You may select multiple challenges.

1. Energy & Power Grid

* 1. Making Clean Energy Generation Accessible and Cost-effective

[ ]  Challenge 1.1.1 Facilitating investment in centralized and decentralized renewable energy production

[ ]  Challenge 1.1.2 Quantifying the potential for local, decentralized clean energy production

[ ]  Challenge 1.1.3 Integrating solar energy into existing infrastructure

[ ]  Challenge 1.1.4 Making wind energy production palatable for urban environment

[ ]  Challenge 1.1.5 Accelerating the uptake of geo-energy for heating and cooling

[ ]  Challenge 1.1.6 Developing the uptake of biogas recovery from landfills

* 1. Maximizing the Resilience of Electricity Distribution Networks

[ ]  Challenge 1.2.1 Designing smart and scalable distribution networks

[ ]  Challenge 1.2.2 Ensuring reliable electricity supply given intermittency of renewable power

[ ]  Challenge 1.2.3 Incentivizing consumers to actively manage their electricity demand

[ ]  Challenge 1.2.4 Making stationary battery energy storage financially viable

2. Construction & Buildings

2.1 Decarbonizing the Entire Life-cycle of Construction Materials

[ ]  Challenge 2.1.1 Making more concrete or concrete alternatives, whilst retaining integral qualities

[ ]  Challenge 2.1.2 Identifying effective insulation materials with lower carbon footprints

[ ]  Challenge 2.1.3 Integrating demolition and plastic waste into construction materials

[ ]  Challenge 2.1.4 Creating a market for reusing construction waste

2.2 Optimizing Design and Construction Methods to Save Resources

[ ]  Challenge 2.2.1 lntegrating circular and efficient construction and renovation techniques

[ ]  Challenge 2.2.2 Optimizing logistics for construction sites

2.3 Equipping buildings with efficient heating, cooling & lighting hardware systems

[ ]  Challenge 2.3.1 Maximizing natural light in buildings

[ ]  Challenge 2.3.2 Adopting external insulation, and passive heating & cooling technologies

[ ]  Challenge 2.3.3 Popularizing clean micro generators or heat pumps for all buildings

[ ]  Challenge 2.3.4 Boosting the use of heat-recovery systems

[ ]  Challenge 2.3.5 Exploiting excess heat from data centers

[ ]  Challenge 2.3.6 Highlighting building retrofit benefits for businesses and consumers

2.4 Optimizing energy consumption and building management with existing assets

[ ]  Challenge 2.4.1 Demonstrating consumption- reducing smart systems for real—estate companies

[ ]  Challenge 2.4.2 Making HVAC and lighting optimization accessible to all buildings

3. Mobility & Logistics

3.1 Reducing Time and Distance of Travels

[ ]  Challenge 3.1.1 Reducing traffic congestion

[ ]  Challenge 3.1.2 0ptimizing vehicle routes

[ ]  Challenge 3.1.3 Planning grouped transport services

3.2 Reducing Emissions per km for Road Transport Vehicles

[ ]  Challenge 3.2.1 Reducing the emissions of combustion engines

[ ]  Challenge 3.2.2 Transitioning to low-carbon vehicles

[ ]  Challenge 3.2.3 Creating the infrastructure for EV adoption

3.3. Promoting ‘Zero-carbon’ Modes of Transport

[ ]  Challenge 3.3.1 lncentivizing the use of bikes for in-city mobility

[ ]  Challenge 3.3.2 Developing micro-mobility platforms

[ ]  Challenge 3.3.3 Persuading urban delivery companies to use small electric

[ ]  Challenge 3.3.4 Encouraging multimodal delivery methods for the final kilometer

4. Waste Management and Circular Economy

4.1 Addressing Upstream Production of Municipal Waste

[ ]  Challenge 4.1.1 Food waste

[ ]  Challenge 4.1.2 Reducing waste in packaging

[ ]  Challenge 4.1.3 Prioritizing renting over buying

[ ]  Challenge 4.1.4 lncentivizing the repair-resell economy

4.2. Improving Recycling Rates

[ ]  Challenge 4.2.1 Integrating waste sorting throughout the value chain

[ ]  Challenge 4.2.2 Valorizing organic waste locally, including biogas recovery

[ ]  Challenge 4.2.3 Implementing alternatives to landfilling for plastic and other municipal solid waste

5. Water & Urban Infrastructure

5.1 Developing and Maintaining Resilient, Efficient Water Distribution Systems

[ ]  Challenge 5.1.1 Preventing water leaks

[ ]  Challenge 5.1.2 Maintaining water infrastructure

5.2. Adapting Wastewater Treatment Processes to Population Growth and Increasingly Strict Regulations

[ ]  Challenge 5.2.1 Increasing capacity and efficiency of wastewater treatment plants

[ ]  Challenge 5.2.2 Increasing water saving and recycling in situ

* 1. Improving Quality of Life, Biodiversity and the Efficiency of Utilities

[ ]  Challenge 5.3.1 Creating more green spaces in urban areas

[ ]  Challenge 5.3.2 Combining storm water recovery, vegetalization and temperature regulation

[ ]  Challenge 5.3.3 Democratizing access to air quality monitoring and air purification

[ ]  Challenge 5.3.4 Decreasing the footprint of lighting

[ ]  Challenge 5.3.5 Soil Stability, quality and reforestation

[ ]  Challenge 5.3.6 Desalination of Land

[ ]  Challenge 5.3.7 Development of Urban decentralised Permaculture

5.4. Adaptation and Mitigation to Flooding

[ ]  Challenge 5.4.1 Flood Plain Mapping and design of territory

[ ]  Challenge 5.4.2 Flooding mitigation through nature based solutions

[ ]  Challenge 5.4.3 Flooding mitigation through infrastructures and drainage systems

[ ]  Challenge 5.4.4 Implementation of coastal erosion mitigation measures

Thank you!

This is the end of the questionnaire.