



**SUSTAINABLE
DEVELOPMENT**

GOALS



GLOBAL TRENDS



URBANIZATION



CONSUMPTION
AND WASTE



LOSS OF
BIODIVERSITY



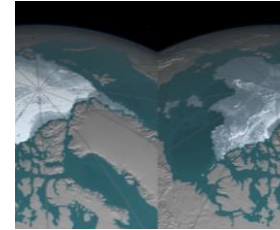
WATER
SCARCITY



CLIMATE
CHANGE



EXTREME
WEATHER



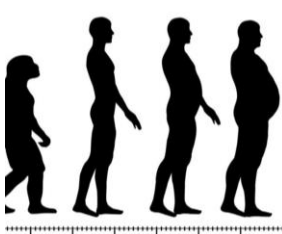
SEA LEVEL RISE



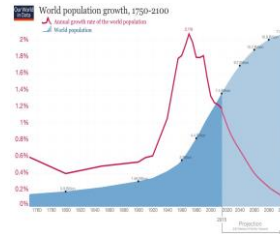
NOT MEETING
BASIC NEEDS



DEMOGRAPHY



OVERWEIGHT
AND OBESITY



NON-
COMMUNICABLE
DISEASE



YOUTH
UNEMPLOYMENT &
UNDEREMPLOYMENT



FUTURE OF
WORK



MIGRATION



OCEAN PLASTIC



INEQUALITY



CITY LEADERSHIP IS THE KEY TOWARDS DEVELOPMENT



United 4 Smart Sustainable Cities



Convention on
Biological Diversity



Empowered lives.
Resilient nations.



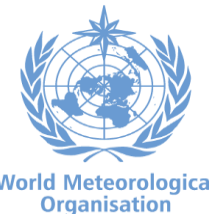
UNECE



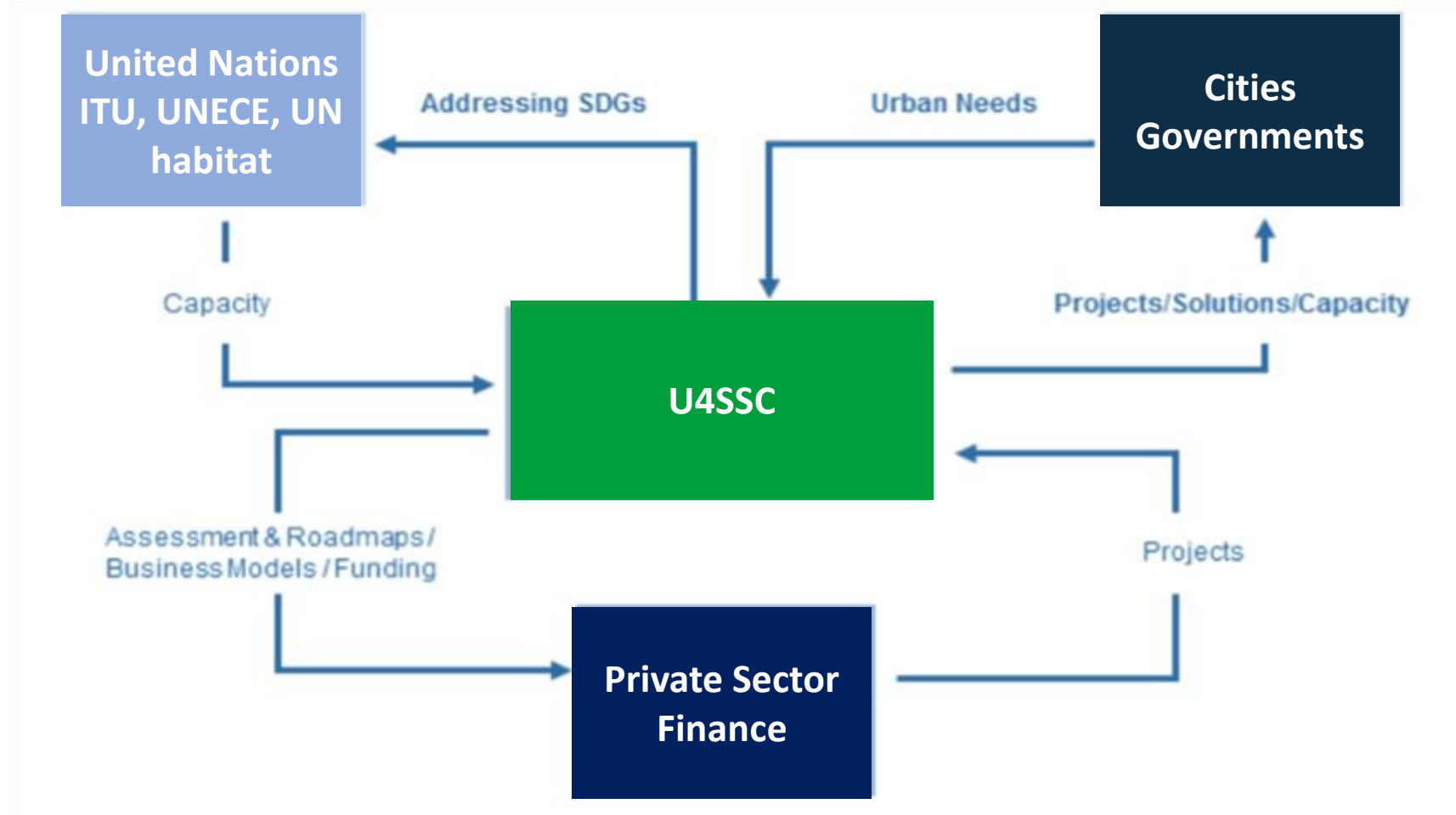
Montevideo Office
Regional Bureau for Sciences
in Latin America and the Caribbean



UNITED NATIONS
UNIVERSITY
UNU-EGOV
Operating Unit on Policy-Driven
Electronic Governance



UNITED FOR SMART SUSTAINABLE CITIES



Holistic Approach

- ✓ City data/KPIs to measure baseline and identify areas for improvement, progress of cities towards SDGs;
- ✓ Technology and digitalization to improve all fields of city development;
- ✓ Innovative Financing;
- ✓ Citizen engagement;
- ✓ Global HUB for learning and best practice



U4SSC Smart Sustainable City Evaluation - Baseline



- The **first and only UN** International Smart and Sustainable City Standard supported by **United Nations Agencies and Programmes**;
- **Policy tool**;
- **General screening** of the city that allows to identify the **areas of improvement** and give cities the opportunity to **assess its progress**;
- Allows cities to develop **better strategies** for the management of the city;
- Provide cities with the possibility to compare itself with other cities allowing **National and International Collaboration**;
- **Sets the stage for involvement and engagement**;
- Help cities to **achieve the Sustainable Development Goals**.



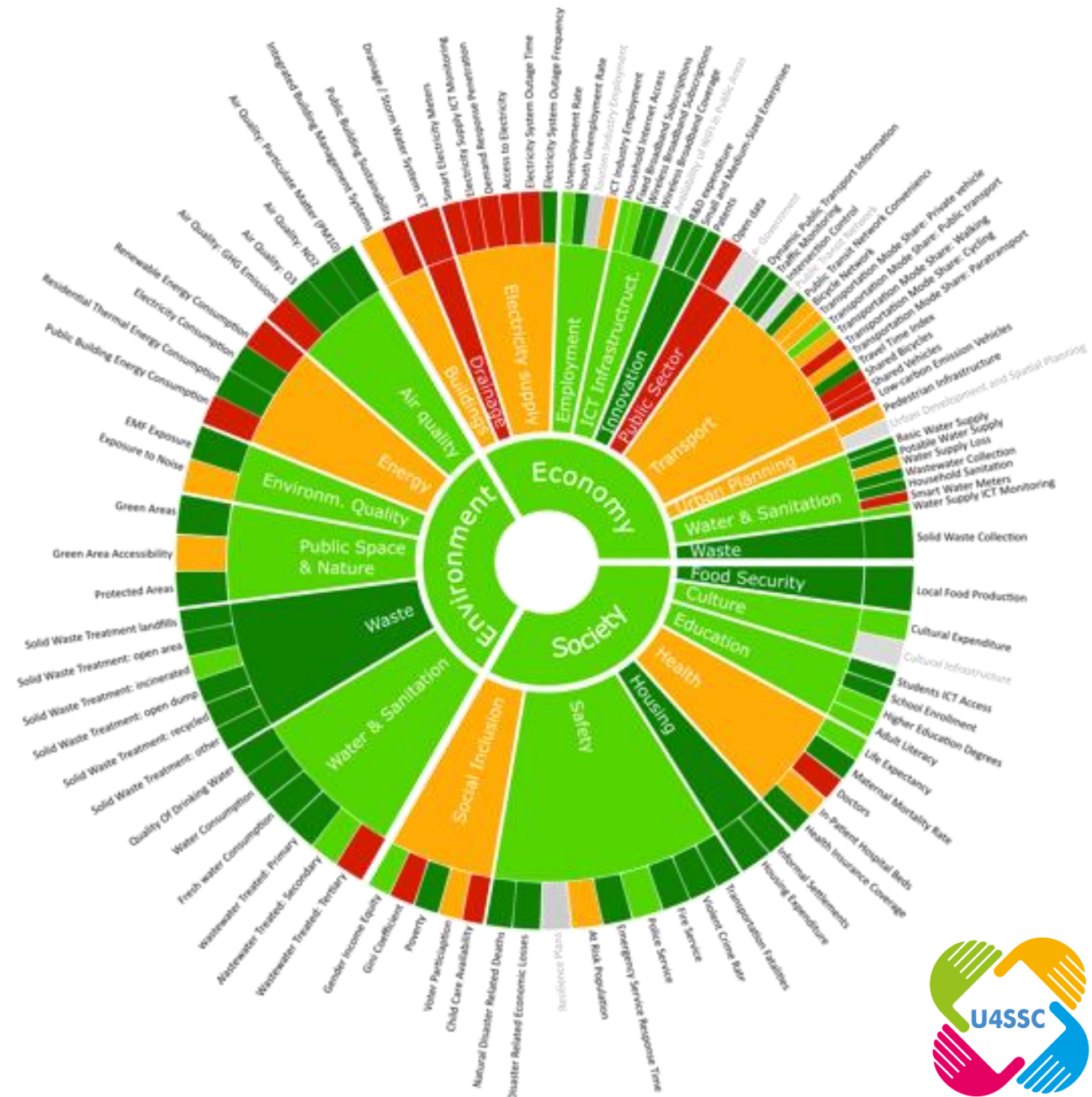
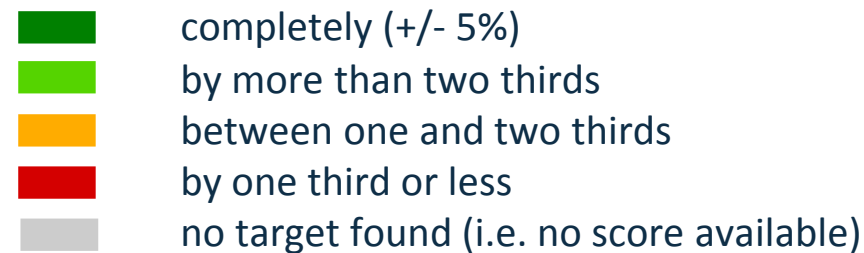
KPI's Structure 92 indicators, 54 core and 38 advanced

Dimension	Economy	Environment	Society and Culture
Sub-dimension	▪ ICT ▪ Productivity ▪ Infrastructure	▪ Environment ▪ Energy	▪ Education, Health and Culture ▪ Safety, Housing and Social Inclusion
Category	▪ ICT Infrastructure ▪ Water and Sanitation ▪ Drainage ▪ Electricity Supply ▪ Transport ▪ Mobility ▪ Public Sector ▪ Innovation ▪ Employment ▪ Waste ▪ Buildings ▪ Urban Planning	▪ Air Quality ▪ Water and Sanitation ▪ Waste ▪ Environmental Quality ▪ Public Space and Nature ▪ Energy	▪ Education ▪ Health ▪ Culture ▪ Housing ▪ Social Inclusion ▪ Safety ▪ Food Security



BASED ON TARGET VALUES

TARGETS HAVE BEEN REACHED

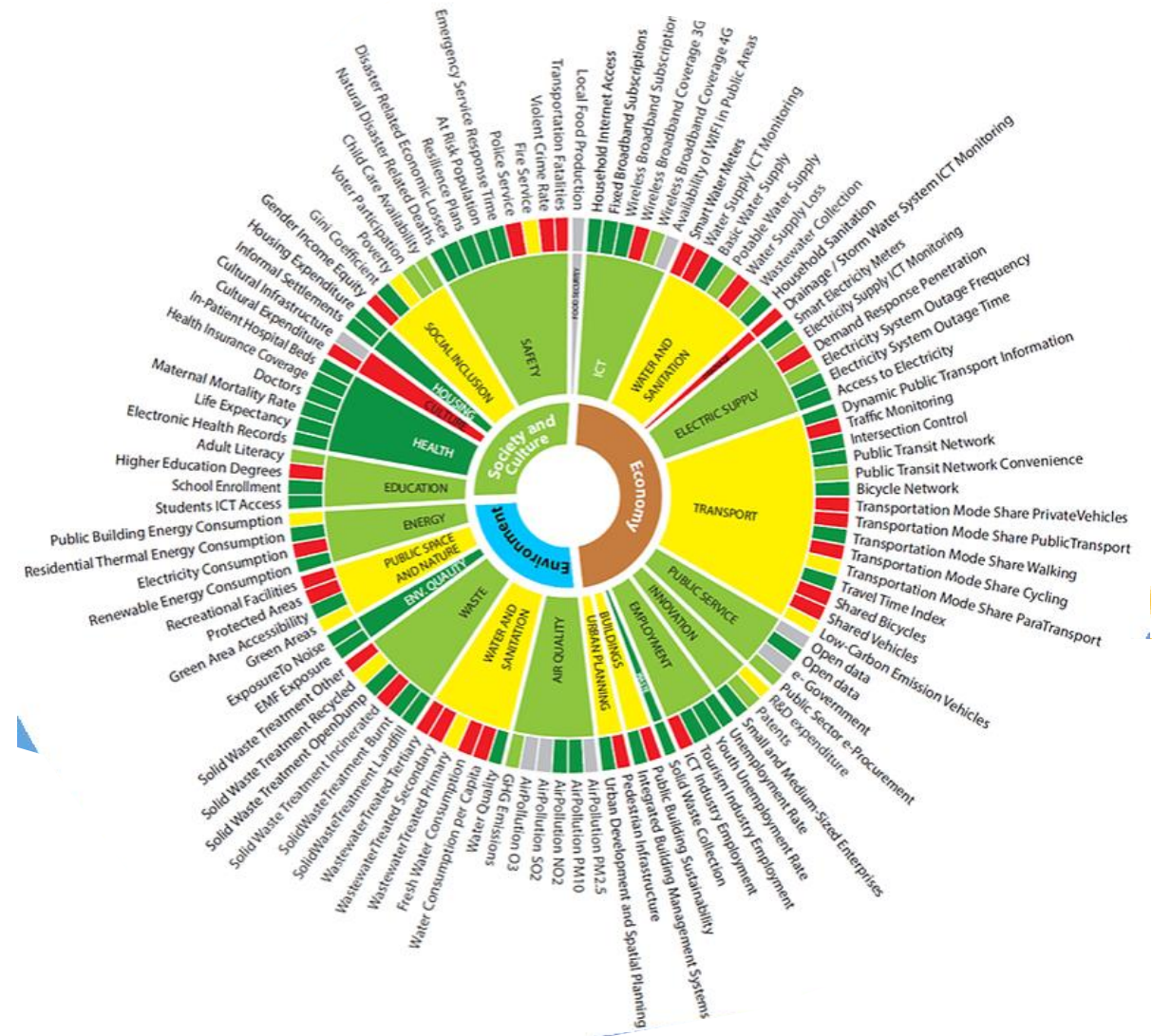
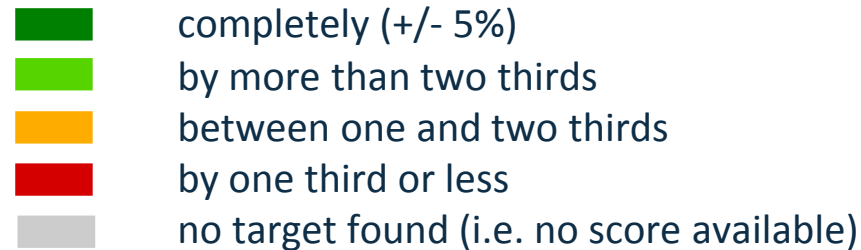


- Dimension "Economy"
- Dimension "Environment"
- Dimension "Society & Culture"

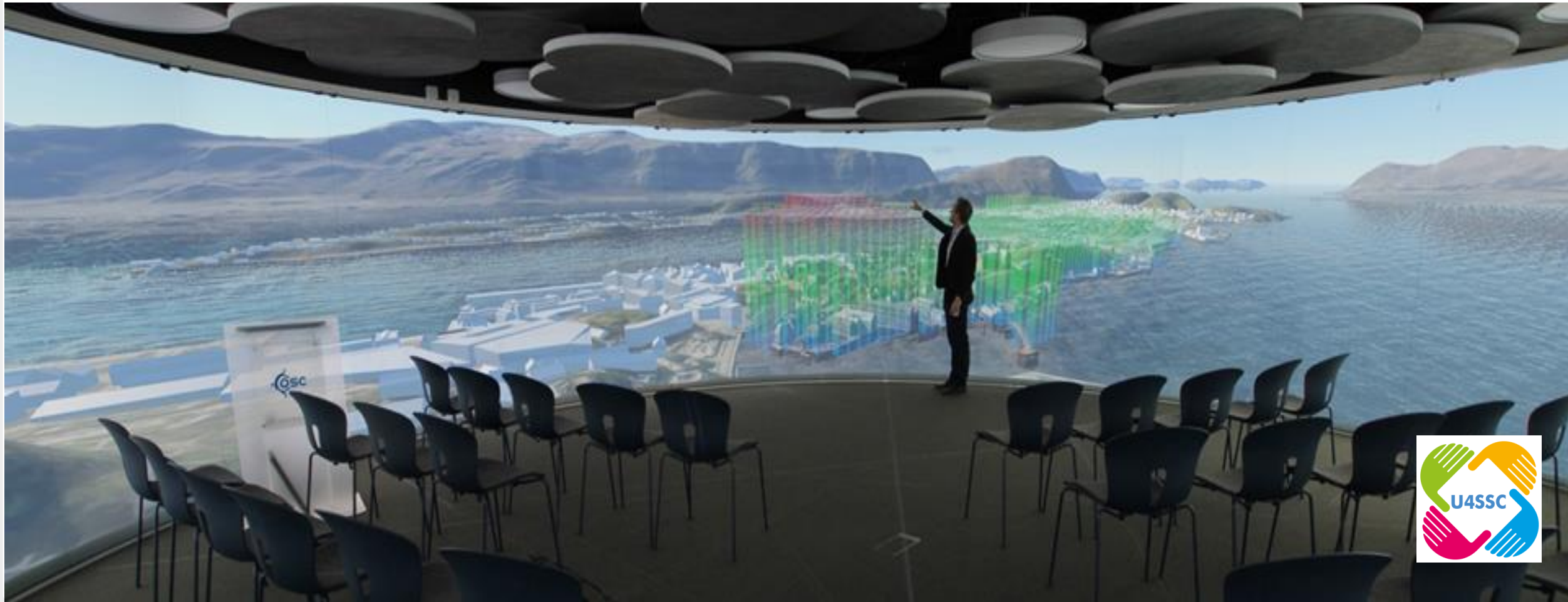


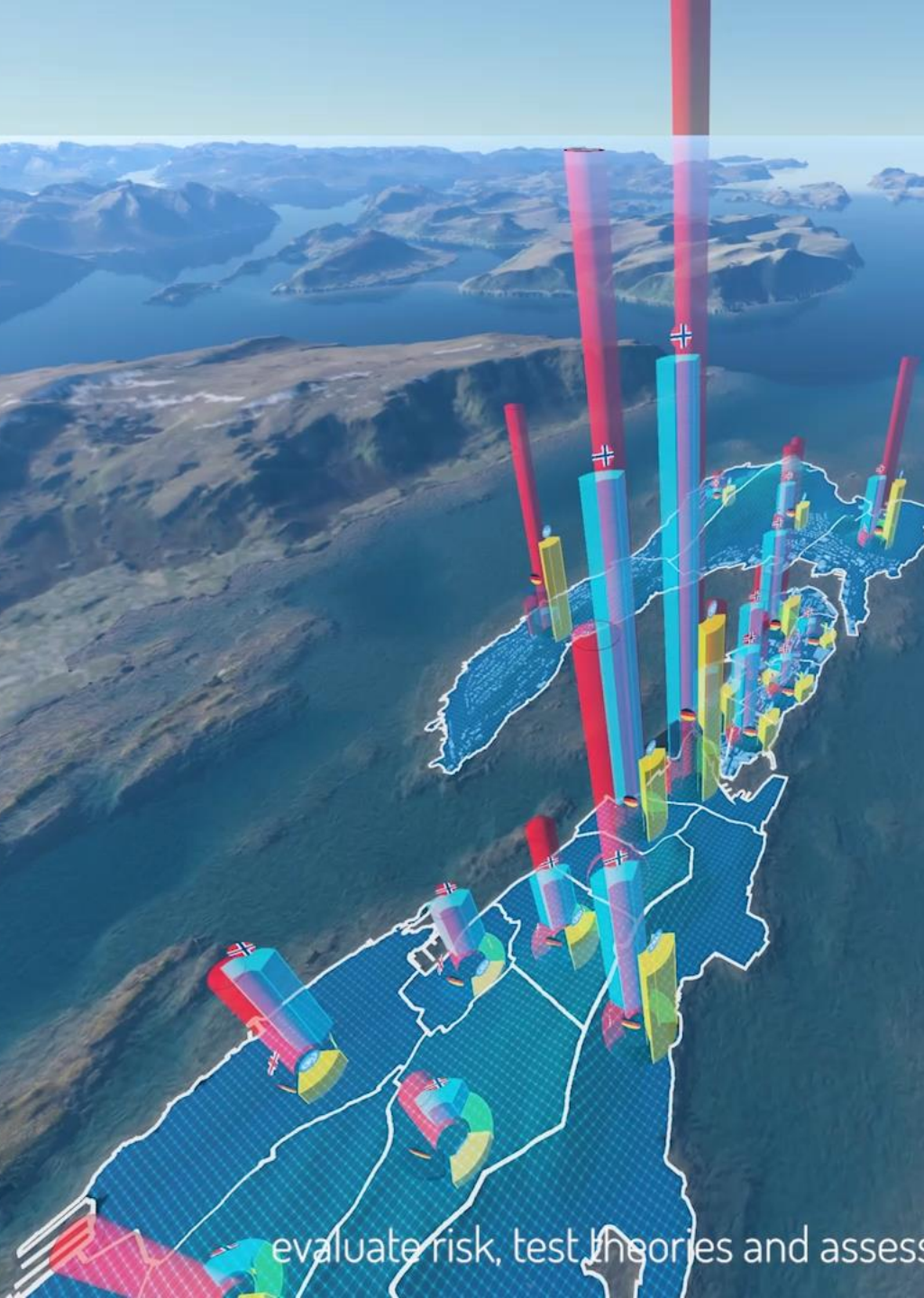
BASED ON TARGET VALUES

TARGETS HAVE BEEN REACHED



KPI VISUALIZATION - DIGITAL TWIN OF CITIES





evaluate risk, test theories and assess progress.

TIME LAPSE 24H

RECORDED Mon 13 Jun 2018

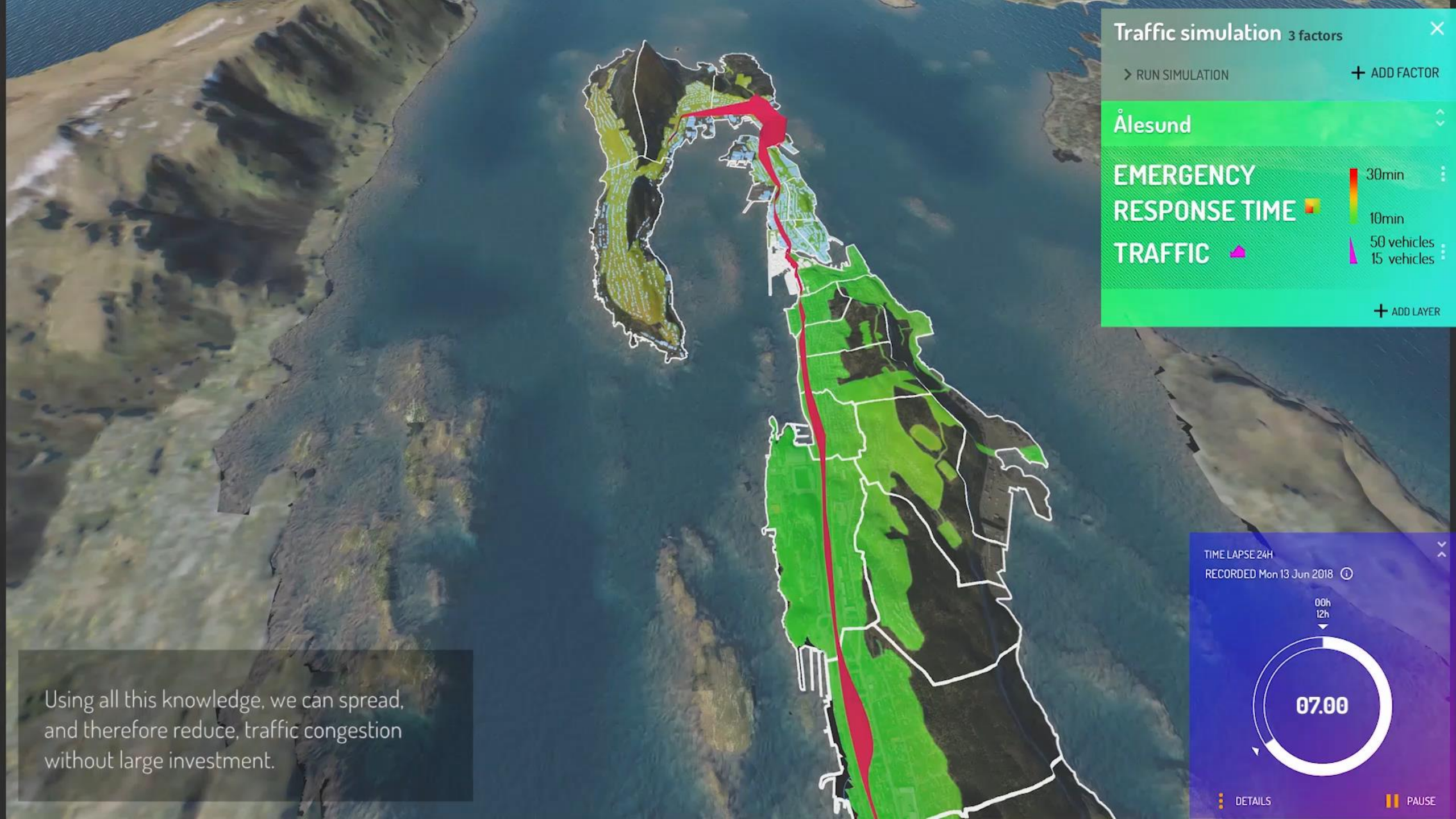
00h

12h

12.00

DETAILS

PAUSE



Traffic simulation 3 factors ✕

> RUN SIMULATION

+ ADD FACTOR

Ålesund ⌵

EMERGENCY
RESPONSE TIME ■

30min ⋮

10min

TRAFFIC ▲

50 vehicles ⋮

15 vehicles

+ ADD LAYER

Using all this knowledge, we can spread,
and therefore reduce, traffic congestion
without large investment.

TIME LAPSE 24H

RECORDED Mon 13 Jun 2018 ⓘ

00h

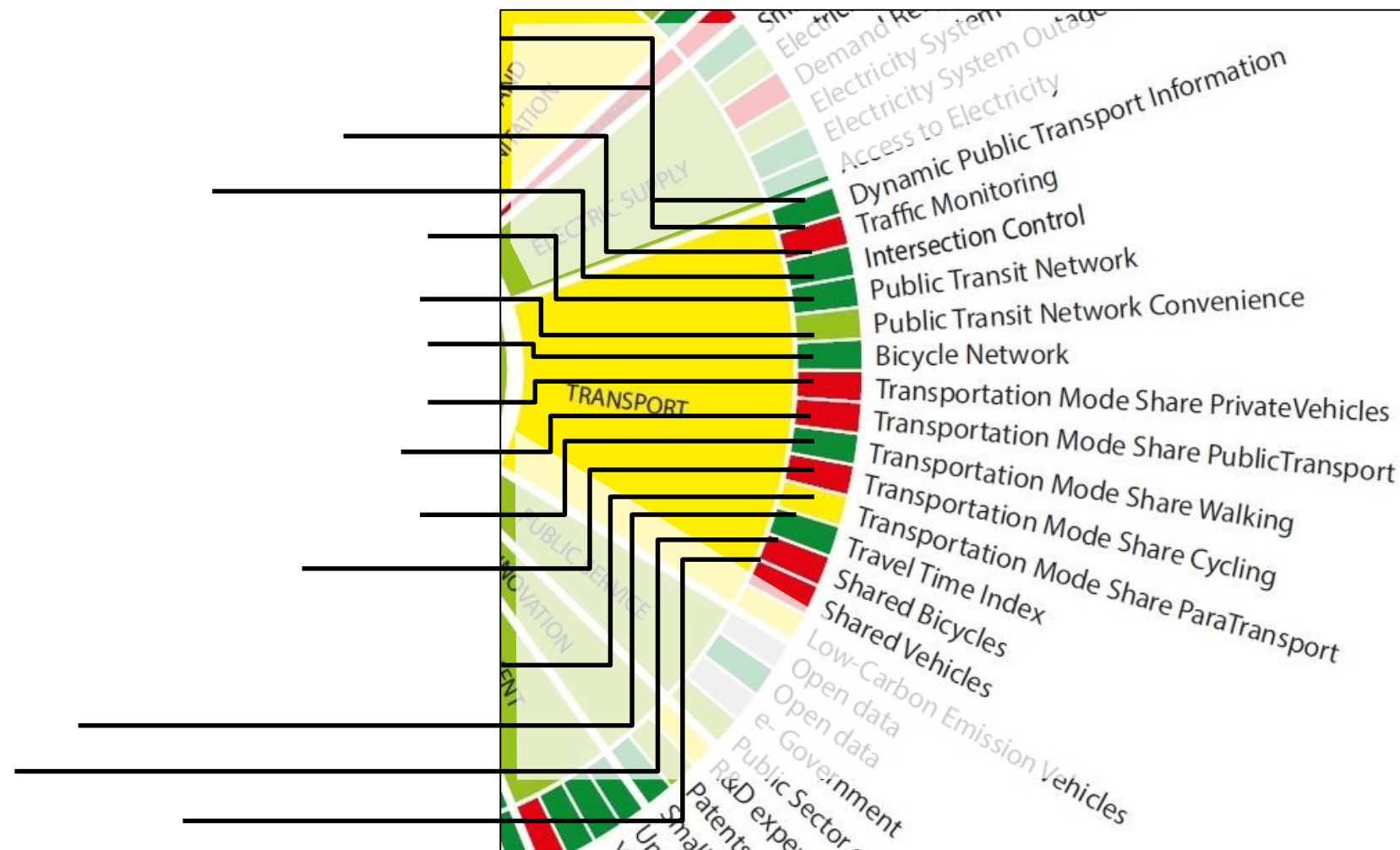
12h

07.00

⋮ DETAILS

⏸ PAUSE

DATA AS BUSINESS CASE - TRANSPORT



KPIS AS BASIS FOR SOLUTION AND BUSINESS CASE



FINANCIAL
INSTITUTIONS



GREEN HOUSING
AND FACILITIES
TECHNOLOGIES



HEALTH
INFRASTRUCTURE



INFORMATION AND
COMMUNICATION
TECHNOLOGIES



INFRASTRUCTURE
CONSTRUCTION



ENERGY



RECYCLING AND
WASTE MANAGEMENT



RENEWABLE ENERGY



SAFETY AND
SECURITY



URBAN MOBILITY



URBAN
DEVELOPMENT
SERVICE



E-MOBILITY

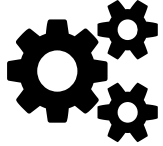
Selection Tools U4SSC IP

- Guidelines and Working Groups (from Secular to blockchain)
- Digital Platform for Solutions - City Projects;
- City KPI Dashboard / City Simulation Tool
- City Innovation LABs; 1st in Vienna, Austria, 2nd in Norway,
- SDG and Smart City Leadership training;
- Twin City Programs;
- Business and Financing models
- Procurement;
- Citizen Engagement platform;
- International events and communication platform.



HOLISTIC ROADMAP TO BECOME SMART SUSTAINABLE CITIES

1. City Assessment



- U4SCC KPI Verification
- U4SCC KPI Gap Analysis
- U4SCC Assessment Recommendations & Report
- City Dashboard

2. City Design



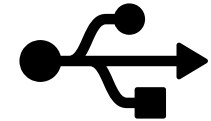
- City Profiles
- City Simulation Tool
- Innovation Labs
- Support development of SSC Action Plans
- Support the development of Smart Public Procurement Plan
- Business cases linked to KPI results in cities

3. City Financing



- City Fund
- Investment Project Facility
- Investment Marketplace

4. City Implementation



- Quality Assurance of Smart Sustainable City Project Implementation Plan
- Monitoring & Evaluation

Knowledge Transfer and Capacity Building

Stakeholder Engagement

Review

Plan

Implement

SAVE THE DATE!

SIMULATION CONFERENCE

ÅLESUND NORWAY, NOVEMBER 7th 2019

Augmenting the future!

Photo & Design: ElisabethRundtom.com



Location: Norwegian Maritime Competance Center, Borgundvegen 340, 6009 Ålesund, Norway



www.unitedsmartcities.org