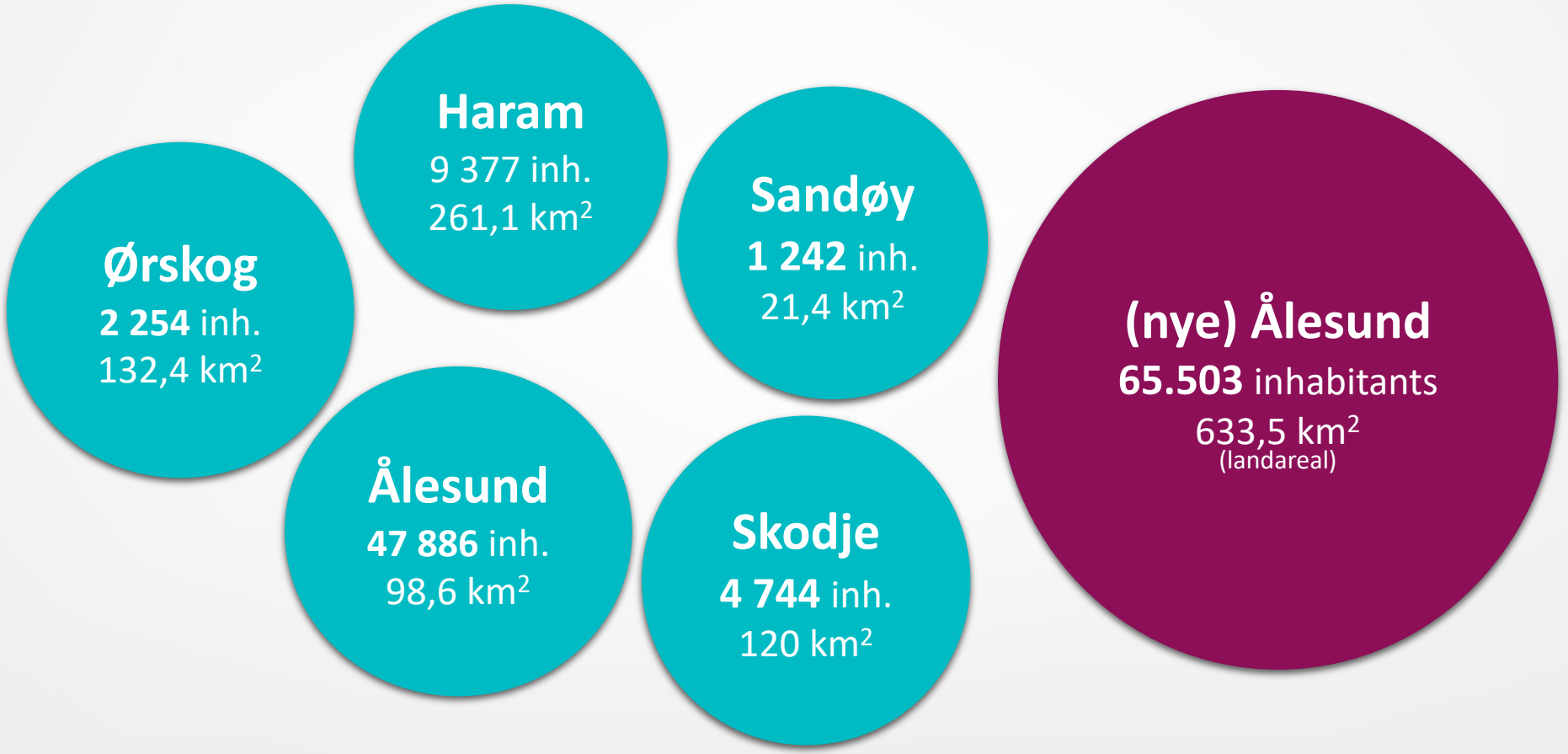
INSPIRE CHANGE
www.smartenergynetwork.org

The smart municipality of Aalesund

Nye Ålesund kommune



Agreement of intention for the new municipality of Ålesund

- «The new municipality shall have ha clear focus on public sector innovation»
- «The new municipality shall take lead among the municipalities in digitalization and technology based development of the services»
- Sustainability and innovation shall be a fundament for the development of the new municipality.

Rough translation from the political base-document

SUSTAINABLE DEVELOPMENT GOALS

11 SUSTAINABLE CITIES AND COMMUNITIES

Gjøre byer og bosettinger inkluderende, trygge, motstandsdyktige og bærekraftige

Nye Ålesund kommune

The tasks of a municipality are changing

Regulatory public government

Complex and integrated problems to solve – Not a single right answer

Working together in order to reach our goals!

Nye Ålesund kommune

Smart Sustainable city definition

"A smart sustainable city is an innovative city that uses information and communication technologies (ICTs) and other means to improve quality of life, efficiency of urban operation and services, and competitiveness, while ensuring that it meets the needs of present and future generations with respect to economic, social, environmental as well as cultural aspects".

UNECE

Smart Sustainable Cities

ITU

OiER
Organization for International Economic Relations

UNITED SMART CITIES

UNECE

Eva Vinje Aurdal,
Mayor of Ålesund

Vebjørn Krogsæter, Haram
Harry Valderhaug, Giske
Jim Arve Røssevoll, Sula
Dag Olav Tennfjord, Skodje
Oddvar Myklebust, Sandøy
Knut Helge Harstad, Ørskog

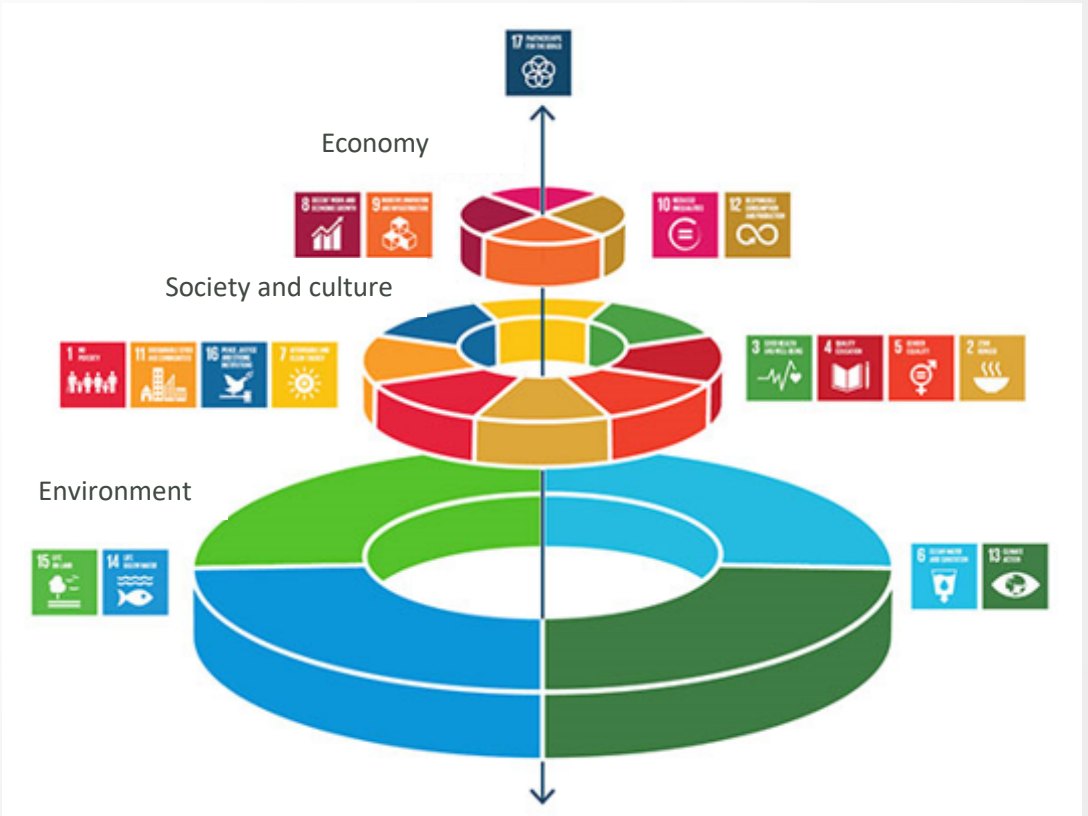
Geneva and Vienna, 25 October 2018

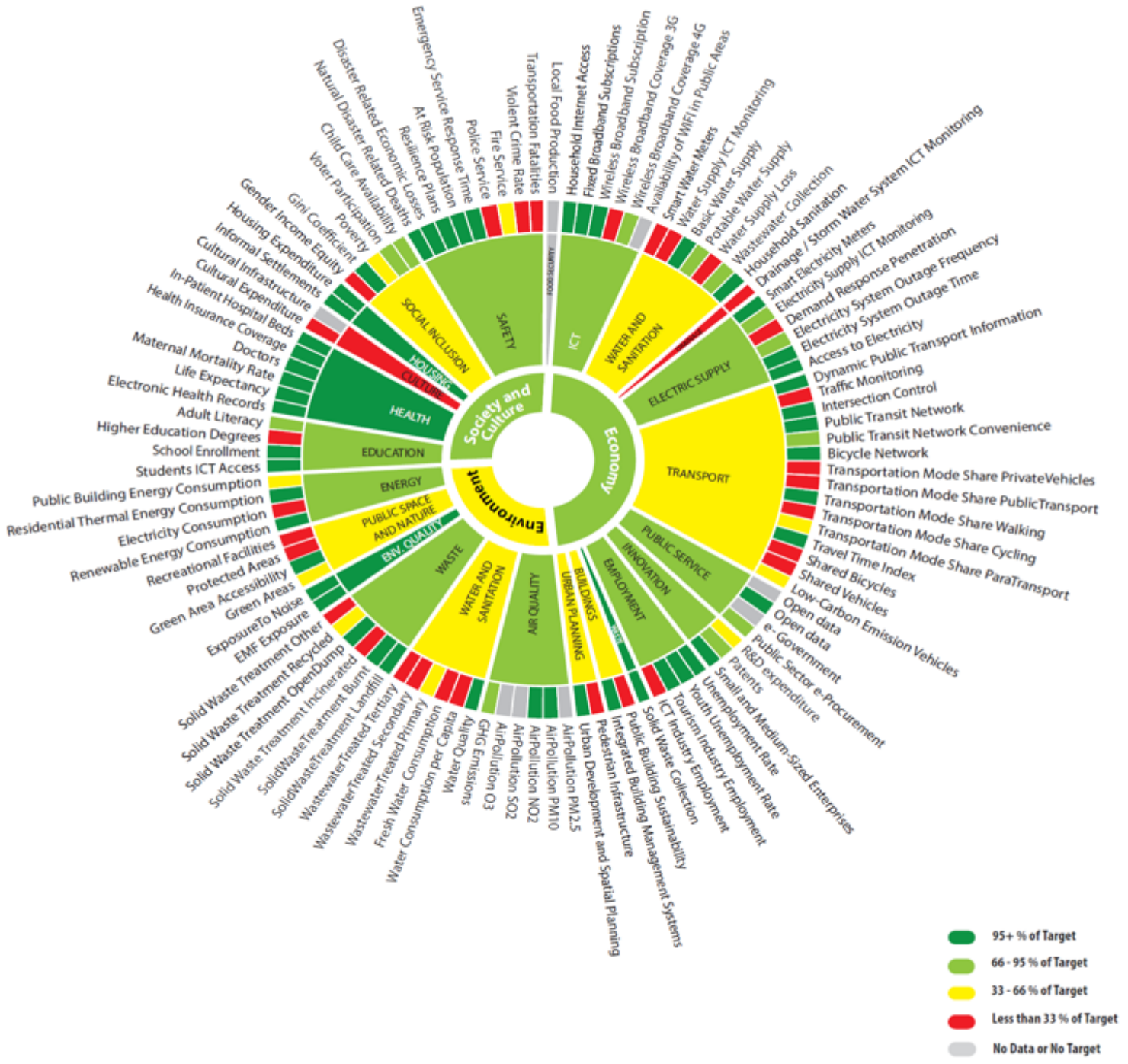
OFFICIAL CONFIRMATION FOR THE AALESUND REGION TO PARTICIPATE IN THE UNITED SMART CITIES PROGRAM

With this letter we are pleased to officially welcome the Region of Aalesund to the United Smart Cities Programme. We are honoured to have all your seven municipalities joining this initiative and appreciate your commitment to the joint USC Programme which aims at making cities smarter and more sustainable.

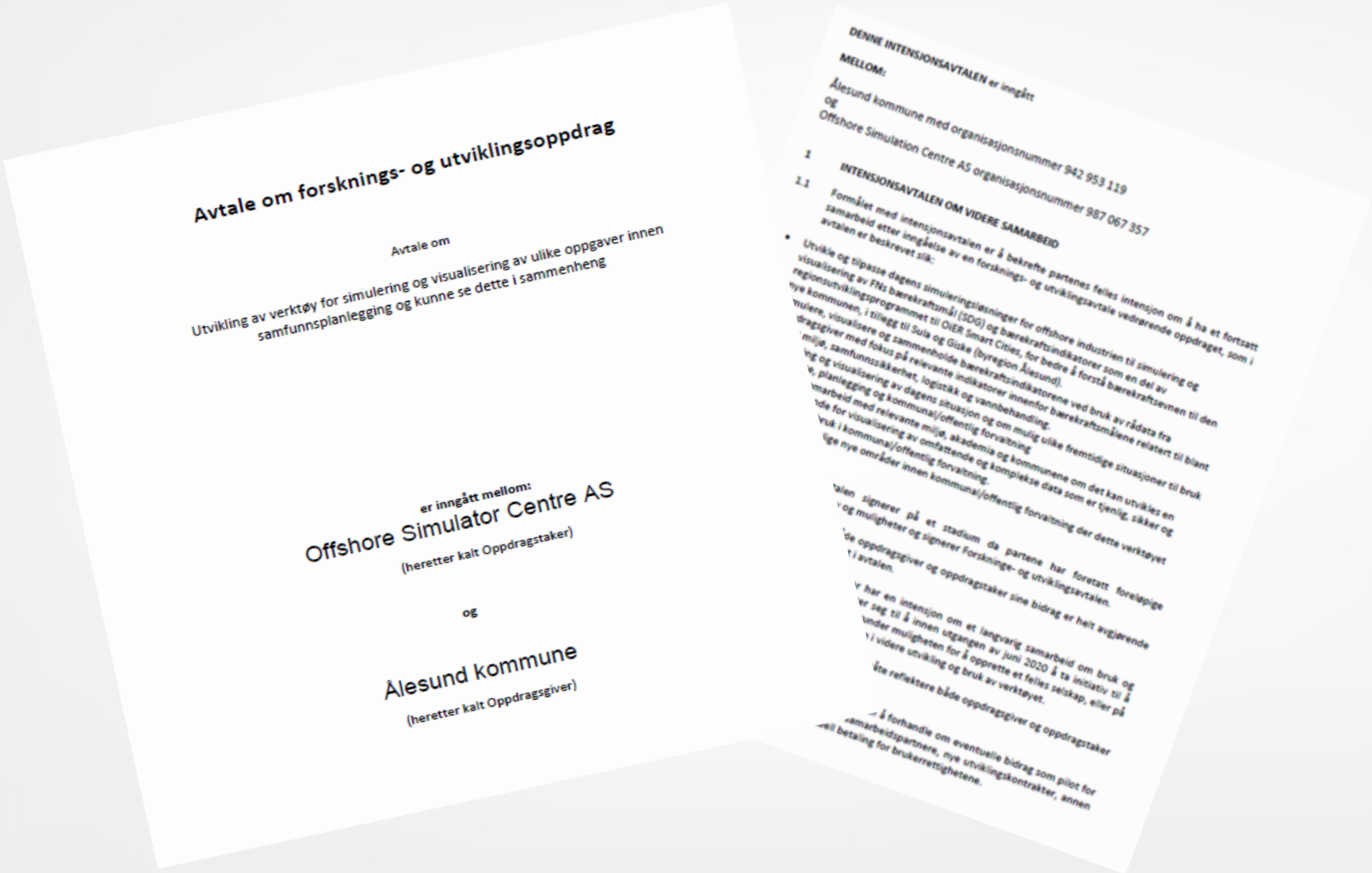
KPI-structure for smart city analysis

Economy	Environment	Society and culture
▪ ICT ▪ Productivity ▪ Infrastructure	▪ Environment ▪ Energy	▪ Education, Health and Culture ▪ Safety, Housing and Social Inclusion
▪ ICT Infrastructure ▪ Water and Sanitation ▪ Drainage ▪ Electricity Supply ▪ Transport ▪ 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




Society and Culture
Environment
Economy
SAFETY
SOCIAL INCLUSION
HOUSING
CULTURE
HEALTH
EDUCATION
ENERGY
PUBLIC SPACE AND NATURE
ENV. QUALITY
WASTE
WATER AND SANITATION
AIR QUALITY
BUILDINGS
URBAN PLANNING
ICT
WATER AND SANITATION
ELECTRIC SUPPLY
TRANSPORT
PUBLIC SERVICE
INNOVATION
EMPLOYMENT
Household Internet Access
Local Food Production
Transportation Fatalities
Violent Crime Rate
Fire Service
Police Service
Emergency Service Response Time
At Risk Population
Resilience Plans
Natural Disaster Related Economic Losses
Disaster Related Deaths
Child Care Availability
Voter Participation
Poverty
Gini Coefficient
Gender Income Equity
Housing Expenditure
Informal Settlements
Cultural Infrastructure
Cultural Expenditure
In-Patient Hospital Beds
Health Insurance Coverage
Doctors
Maternal Mortality Rate
Life Expectancy
Electronic Health Records
Adult Literacy
Higher Education Degrees
School Enrollment
Students ICT Access
Public Building Energy Consumption
Residential Thermal Energy Consumption
Electricity Consumption
Renewable Energy Consumption
Recreational Facilities
Protected Areas
Green Areas
Green Area Accessibility
ExposureTo Noise
EMF Exposure
Solid Waste Treatment Other
Solid Waste Treatment Recycled
Solid Waste Treatment OpenDump
Solid Waste Treatment Incinerated
SolidWasteTreatment Landfill
SolidWasteTreatment Burnt
WastewaterTreated Tertiary
WastewaterTreated Secondary
WastewaterTreated Primary
Fresh Water Consumption per Capita
Water Consumption
GHG Emissions
AirQuality
AirPollution O3
AirPollution SO2
AirPollution NO2
AirPollution PM10
AirPollution PM2.5
Urban Development and Spatial Planning
Pedestrian Infrastructure
Integrated Building Management Systems
Public Building Sustainability
Solid Waste Collection
ICT Industry Employment
Tourism Industry Employment
Youth Unemployment Rate
Unemployment Rate
Small and Medium-Sized Enterprises
Patents
R&D expenditure
Public Sector e-Procurement
e- Government
Open data
Low-Carbon Emission Vehicles
Shared Vehicles
Shared Bicycles
Travel Time Index
Transportation Mode Share ParaTransport
Transportation Mode Share Cycling
Transportation Mode Share Walking
Transportation Mode Share PublicTransport
Transportation Mode Share PrivateVehicles
Bicycle Network
Public Transit Network Convenience
Public Transit Network
Intersection Control
Traffic Monitoring
Dynamic Public Transport Information
Access to Electricity
Electricity System Outage Time
Electricity System Outage Frequency
Demand Response Penetration
Electricity Supply ICT Monitoring
Smart Electricity Meters
Drainage / Storm Water System ICT Monitoring
Household Sanitation
Wastewater Collection
Water Supply Loss
Potable Water Supply
Basic Water Supply
Water Supply ICT Monitoring
Smart Water Meters
Availability of WiFi in Public Areas
Wireless Broadband Coverage 4G
Wireless Broadband Coverage 3G
Wireless Broadband Subscription
Fixed Broadband Subscriptions
95+ % of Target
66 - 95 % of Target
33 - 66 % of Target
Less than 33 % of Target
No Data or No Target

R&D contract with Offshore Simulator Centre



Avtale om forsknings- og utviklingsoppdrag

Avtale om

Utvikling av verktøy for simulering og visualisering av ulike oppgaver innen samfunnsplanlegging og kunne se dette i sammenheng

er inngått mellom:

Offshore Simulator Centre AS

(heretter kalt Oppdragstaker)

og

Ålesund kommune

(heretter kalt Oppdragsgiver)

DENNE INTENSJONSAVTALEN er inngått

MELLOM:

Ålesund kommune med organisasjonsnummer 942 953 119

og

Offshore Simulation Centre AS organisasjonsnummer 987 067 357

1

INTENSJONSAVTALEN OM VIDERE SAMARBEID

1.1 Formålet med intensjonsavtalen er å bekrefte partenes felles intensjon om å ha et fortsatt samarbeid etter inngåelse av en forsknings- og utviklingsavtale vedrørende oppdraget, som i avtalen er beskrevet slik:

- Utvikle og tilpasse dagens simuleringsløsninger for offshore industrien til simulering og visualisering av FNs bærekraftsmål (SDG) og bærekraftsindikatorer som en del av regionutviklingsprogrammet til OIER Smart Cities, for bedre å forstå bærekraftsmålene relatert til blant nye kommunen, i tillegg til Sula og Giske (byregion Ålesund).
- muliere, visualisere og sammenholde bærekraftsindikatorene ved bruk av rådata fra dragsgiver med fokus på relevante indikatorer innenfor bærekraftsmålene relatert til blant miljø, samfunnssikkerhet, logistikk og vannbehandling.
- ng og visualisering av dagens situasjon og om mulig ulike fremtidige situasjoner til bruk e, planlegging og kommunal/offentlig forvaltning
- marbeid med relevante miljø, akademia og kommunene om det kan utvikles en de for visualisering av omfattende og komplekse data som er tjenlig, sikker og ruk i kommunal/offentlig forvaltning.
- lige nye områder innen kommunal/offentlig forvaltning der dette verktøyet

talen signerer på et stadium da partene har foretatt foreløpige r og muligheter og signerer Forsknings- og utviklingsavtalen. de oppdragsgiver og oppdragstaker sine bidrag er helt avgjørende r i avtalen.

r har en intensjon om et langvarig samarbeid om bruk og er seg til å innen utgangen av juni 2020 å ta initiativ til å nder muligheten for å opprette et felles selskap, eller på i videre utvikling og bruk av verktøyet.

ere reflektere både oppdragsgiver og oppdragstaker

å forhandle om eventuelle bidrag som pilot for samarbeidspartnere, nye utviklingskontrakter, annen ell betaling for brukerrettighetene.

ÅLESUND

The challenge!
United Smart Sustainable City LAB of Ålesund

- The new municipality of Ålesund has been challenged by United Smart Cities (USC) to establish the worlds second **United Smart Sustainable City LAB**.

- An agreement of intentions is signed – with in three months we shall be ready to make an final agreement

UNITED SMART CITIES

Nye Ålesund kommune

PRELIMINARY AGREEMENT

between the municipality nye Ålesund kommune and UNECE / Organization for international Economic Relations (OIER) regarding the establishment of United Smart Sustainable City lab.

1. Background and purpose of the agreement

This preliminary agreement aims to establish the Nordic countries' first United Smart Sustainable City Lab (USSC lab) in Ålesund. The objective is to establish a venue for meeting, learning and development, which promotes Nye Ålesund kommune and UN Smart Sustainable City as contributors to the world reaching its sustainable development goals.

The background for the intent is the participation of Nye Ålesund in the UN Smart City Network and the need to establish cooperational arenas for smart, sustainable solutions across cities all over the world.

The goal of the USSC lab is to develop and implement smart and sustainable projects within a number of arenas like city and area planning, mobility, energy etc. The lab will generate mobilization, development and implementation of sustainable projects across the public sector, the business industry, academic institutions and citizens.

Activities at the USSC lab will stimulate to networking, which will lead to new collaborative constellations as well as new ideas, projects and sustainable solutions across countries, cities and businesses within and outside the network.

The purpose of this preliminary agreement is to regulate the relationship between the parties until a permanent agreement is entered into. Through this preliminary agreement, the parties confirm their intention of reaching a final agreement as mentioned, as well as contributing to its content.

What will happen at the Ålesund USSC Lab

- We are now in the shaping process of the Lab
  - In dialogue with partners and USC

- Some activities are obvious
  - Simulation and visualisation for Smart Cities
  - Goal 17-arena
  - Arena for co-creation

ANGELS

Helge Veum, Chief of staff – technology and innovation, the new municipality of Ålesund