

**UN Science, Technology and Innovation (STI Forum)
Side Event on
Science, Engineering and Technology for
Smart, Sustainable Cities and Human Settlements**

**UN Headquarters
Conference Room B
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Connectivity for an Urban, Peri-Urban, Rural (UPUR) Continuum

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UN Sustainable Development Goals

Accessed at <https://sustainabledevelopment.un.org/?menu=1300>, January 26, 2016



Sustainable Development Goals

2030 Development Agenda

“Transforming Our World: the 2030 Agenda for Sustainable Development”

A/RES/70/1- 21 October 2015

Social Sustainability

No Poverty (1)
Gender Equality (5)
Reduced Inequalities (10)
Peace, Justice and
Strong Institutions (16)

Economic Sustainability

Quality Education (4)
Decent Work and Economic Growth (8)
Industry, Innovation and Infrastructure (9)
Partnerships for the Goals (17)

Sustainable Cities and Communities (11)

Environmental Sustainability

Zero Hunger (2)
Good Health and Well-Being (3)
Affordable and Clean Energy (7)
Clean Water and Sanitation (6)
Responsible Consumption and Production (12)
Climate Action (13)
Life Below Water (14)
Life on Land (15)

Clustering of SDGs under three, UN framework pillars as suggested by the author, implying that
SDG 11 - Sustainable Cities and Communities - encompasses most/all the other goals.

SET for Development, 2015

Observations/Recommendations

SDGs and 2030 Development Agenda

Role of Science, Engineering and Technology in the UPUR Continuum

2015 – Addis Ababa Action Agenda; SDGs; Paris Climate Agreement; WSIS+10

An Aspirational Roadmap - Diffuse (17 SDGs, 169 Targets) - Most Lack Metrics and Data

Urbanization and other Megatrends Inexorably Continue

Globalization, Disruptive Technologies, Workforce/Income Impacts the New Normal

HABITAT III New Urban Agenda Addressed:

**“Development Enablers” National Urban Policy, Laws, Institutions and Governance Systems,
Urban Economy**

“Operational Enablers” - Local Fiscal Systems, Urban Planning, Basic Services, Infrastructure

UPUR Policy Planning for Infrastructure and Investment must be Holistic

Observations/Recommendations

SDGs and 2030 Development Agenda

Role of Science, Engineering and Technology in the UPUR Continuum

Abundance of Technology Globally – Deployment of Appropriate Technology the Key

ICTs, Broadband Internet Connectivity as Enablers in UPUR Continuum

Must be integral, core features of all UPUR infrastructure

“Digital Divide” persists and “Broadband Divide” is growing

Nothing is “smart” without reliable, uninterrupted ELECTRICITY

Central Stations, Grids Remain Essential, but Smart Grids Foster the UPUR Continuum

Off-Grid Renewables, Storage Driving Innovation, Dynamism – an “Enernet”

Observations/Recommendations

SDGs and 2030 Development Agenda

Role of Science, Engineering and Technology in the UPUR Continuum

New Private/Public Partnerships of All Stakeholders: Private sector, Universities, NGOs, Governments, IDBs, IOs

Private Capital and Direct Foreign Investment - Not Assistance – Dominate

Connectivity and Networks Underlie All UN Initiatives for Development

University Research, Curriculum Collaboration - liberal arts, humanities, architecture, science, engineering, technology - all seminal assets for UPUR continuum with great opportunities for viable careers

Vocations, technical skills training, certification programs are as critical

“Unleash the Millennials” and “Empower the UPURistas”