PROMOTING ISO 37001 TO COMBAT CORRUPTION'S IDENTIFIED IMPACTS ON SUSTAINABLE DEVELOPMENT

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Overstated:
“without meaningful action to reduce corruption, progress towards the other Sustainable Development Goals is likely to be extremely limited”

Certainly need to aim to mitigate and ultimately eliminate the cost to sustainable development.
SUMMARY

Background to the urban crisis
What sort of sustainability are we talking about
Attitudes to corruption and how it works
Effect on urban development
What can be done

Anti-corruption in frameworks
Specifically urban frameworks
New tools?
40,000 firms worldwide; 1.5 million professional staff.
Smaller firms generally specialised; larger firms provide the full range of services needed to plan, procure, design, implement, and operate a project.
All disciplines involved, with some 30% of professionals having an engineering background.

USD 4.7 trillion new-build investment worldwide (57% dwellings, 6% other buildings, 37% infrastructure).
USD 650 billion p.a. total demand for consulting engineering services, including 23% of new-build buildings for renovation.
80% total investment is urban & peri-urban.
50% total demand is met by firms whose main business is to supply consulting engineering services.
URBAN AND PERI-URBAN INVESTMENT IS OF STRATEGIC IMPORTANCE

Mainly:
- climate change related renovation in developed countries
- new build in much of the developing world

Cities
54% of people
50% more people by 2045
80% of global GDP
70% of all global energy
70% of greenhouse gas

Pollution – Sprawl – Inefficiency
Certain consumption patterns and certain population groups give rise to most of the problems.
Urban housing needs to double by 2050 (160,000 million m² in 2010 to 300,000 million m²).

Of today’s 3.9 billion urban dwellers, 1 billion live in slums. Possibly 2 billion by 2030.

Two-thirds of total investment needed to avoid a massive increase in slums. Sub-Saharan Africa with 90% of urban growth has to urbanise decently while poor.
GROWTH RATE OF SUB-SAHARAN CITIES (2018-30)
SUB-SAHARA STILL
LARGELY URBAN IN 2030
EXTREME INFORMAL
NAIROBI
“waste management”  “green space”  “energy infrastructure”  “transport”
SPRAWL, SATELLITES & PERI-URBAN
Nairobi (1988 - 2015)
DODOMA
NEW TANZANIA CAPITAL
30 years’ planning
DODOMA
3000 INHABITANTS/KM²
The sub-saharan urban morphology?
SUB-SAHARA: CLIMATE CHANGE MITIGATION IS NOT THE SUSTAINABILITY PRIMARY DRIVER

<table>
<thead>
<tr>
<th>Country</th>
<th>CO₂ equivalent, 2014</th>
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<tbody>
<tr>
<td>Tanzania</td>
<td>5.48 t/capita, 286 Mt (160 in 2030)</td>
</tr>
<tr>
<td>UK</td>
<td>7.64 t/capita, 494 Mt</td>
</tr>
<tr>
<td>USA</td>
<td>19.84 t/capita, 6320 Mt</td>
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<tr>
<td>EU</td>
<td>11.84 t/capita, 11,840 Mt</td>
</tr>
<tr>
<td>Kenya</td>
<td>5.48 t/capita, 286 Mt</td>
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EU and Kenya pie charts showing sectoral contributions to CO₂ emissions.
CLIMATE CHANGE IS NOT THE DRIVER
Uganda –Tanzania crude oil pipeline

USD 3.5 billion
75% private
Combine objective (official data) and subjective (perceptions) indicators. Many indexes; little agreement.
Minimum: SDG 11.1.1 (% urban population living in slums, informal settlements or inadequate housing).

EFFECT OF CORRUPTION
As for greenhouse gas emission, SDG 11.1.1 correlates with the Corruption Perception Index.
WHY DOES CORRUPTION AFFECT THE URBAN QUALITY OF LIFE?

UNPLANNED PERI-URBAN DEVELOPMENT

Macro level: corruption tolerated (tacit acceptance; unreporting)

Bribery seen as necessary to get things done (“how one does business”).
“Can get even later” (equates to stop-go development).
UNPLANNED PERI-URBAN DEVELOPMENT

Devolution
Administrative silos
Subdivide now, plan later
Squatting, even illegal, can lead to legal entitlement
Straightforward criminality and racketeering

Micro level issues
Mainly relate to release of customary and public land
CORRUPTION A LARGE PART OF THE URBAN CRISIS

Bribery
But also collusion

East Africa Bribery Index 2017
#1 Police
#2 Judiciary
#3 Government land services

55% were asked implicitly or explicitly or they offered.

20% probability that a bribe is paid.

USD 86 on average (1.13 times average month wage).
WHAT TO DO & WHERE ENGINEERS COULD TAKE THE LEAD

FIDIC Integrity Management System
- to incorporate ISO 37001

FIDIC contracts
- corruption clauses in services agreements and works contracts (including MDB Harmonised Construction Contract)
WHAT TO DO & WHERE ENGINEERS COULD TAKE THE LEAD

URBAN DEVELOPMENT

Urban frameworks (mainly to de-silo “hard” infrastructure services):
- requirements (ISO 37101)
- extend to “soft” silos (World Bank Urban Sustainability Framework has made a start)

Standards and best practice within frameworks:
- extend ISO 37001
- new tools (ISO 37101 project guide proposal)