

CPD Points: 2 ECSA CREDITS



Consulting Engineers South Africa

INFRASTRUCTURE
Indaba
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18 - 19
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Durban ICC

SMART CITIES FINANCE THROUGH PUBLIC PRIVATE PARTNERSHIP

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Theme: Pioneering Change Engineering Infrastructure for Inclusive Growth

The Urban Challenge

70%



of South Africans will live in cities
by 2030

35%



of Joburg's water lost to
ageing infrastructure

R1.2 Trillion

infrastructure backlog
across municipalities

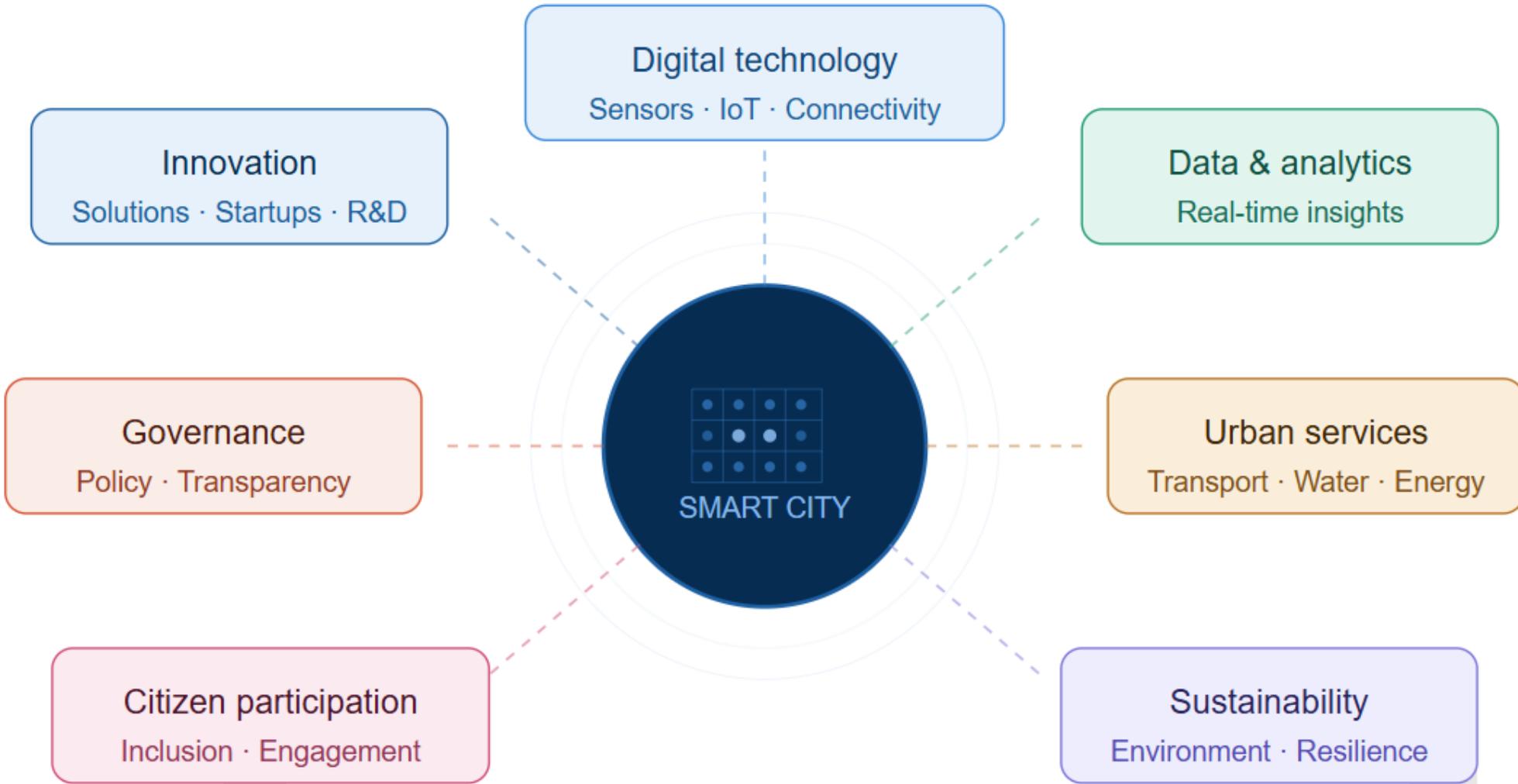
R500 Billion+



economic cost of load shedding
per year

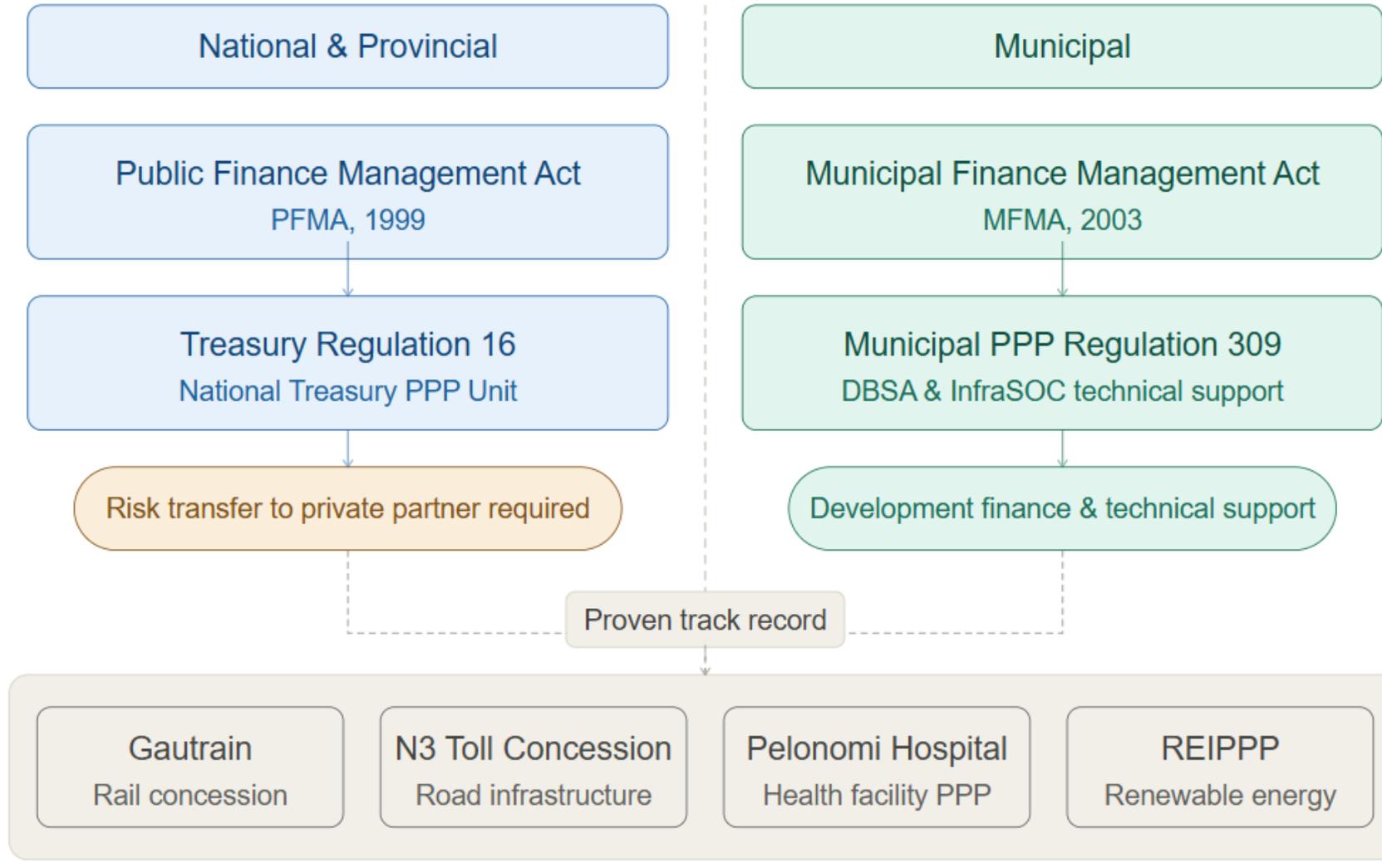
- **South Africa's cities cannot afford to wait. Smart infrastructure is not optional.**

What Is a Smart City?



A city that uses digital technology, data & innovation to improve urban services, enhance sustainability, and increase citizen participation.

South Africa's PPP Framework



PPP Financing Structures

1 Concession Agreements

Private partner builds & operates; recovers via user fees or availability payments.

Smart lighting - metering

2 Build-Operate-Transfer (BOT)

Technology transfer & skills at handover.
Critical for long-term local capacity.

Skills & handover

3 Revenue-Sharing Models

Private partner monetises data & services, shares revenue with the municipality.

Data monetisation

4 Blended Finance

DFI concessional capital de-risks deals to attract commercial investment.

DBSA

IDC

AfDB

Concessional - De-risking

5 Special Purpose Vehicle (SPV)

Ring-fenced SPV owns, finances & operates.
Clean accountability & limited liability.

Ring-fenced - Accountable

Challenges & Risks

- **Governance & Corruption Risk**

- Poor audit outcomes and leadership instability deter private capital. No shortcut to rebuilding investor trust.

- **Regulatory Complexity**

- Municipal PPPs take 3-5 years from concept to financial close. Incompatible with technology innovation timelines.

- **Revenue & Collection Risk**

- Low tariff collection rates collapse concession models. Government guarantees or national backstops required.

- **Digital Divide**

- Smart infrastructure that bypasses poor communities deepens inequality. Inclusive design must be contractual.

- **Data Governance**

- POPIA provides a framework but Smart City data ecosystems demand careful, city-specific application.

The Path Forward: 5 Recommendations

- **1. Standardise PPP Procurement**
 - National Treasury to develop Smart City-specific model contracts municipalities can adapt.
- **2. Strengthen Municipal Capacity**
 - DBSA & Infrastructure South Africa to provide systematic technical assistance to municipalities structuring deals.
- **3. Create a Smart City Fund**
 - A blended finance vehicle capitalised by government, DFIs & international climate finance to de-risk private investment.
- **4. Pilot and Scale**
 - Identify 2-3 well-governed cities as Smart City PPP pilots. Build case studies, prove bankability, then roll out nationally.
- **5. Put Citizens at the Centre**
 - Every PPP contract must include measurable service delivery outcomes — not just financial returns.

Three Key Discussion Points

- **1. Can SA's PPP framework keep pace with Smart City technology?**
 - Procurement timelines of 3-5 years are incompatible with urban technology innovation cycles. How do we modernise deal-making without sacrificing accountability?
- **2. Who carries the risk — and who captures the reward?**
 - Smart City PPPs generate data, efficiency savings, and long-term infrastructure value. How do we fairly allocate risk and reward between investors, municipalities, and citizens?
- **3. How do we ensure Smart Cities don't deepen inequality?**
 - Without deliberate design, smart infrastructure can entrench spatial divides. What contractual and financial mechanisms ensure benefits reach all residents?

Smart Cities. Smarter Partnerships. Better Cities for All.

- PPPs are not a silver bullet — they are a tool.
- Used well, they can mobilise the capital, technology, and efficiency that South African cities urgently need.

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