



Consulting Engineers South Africa

INFRASTRUCTURE
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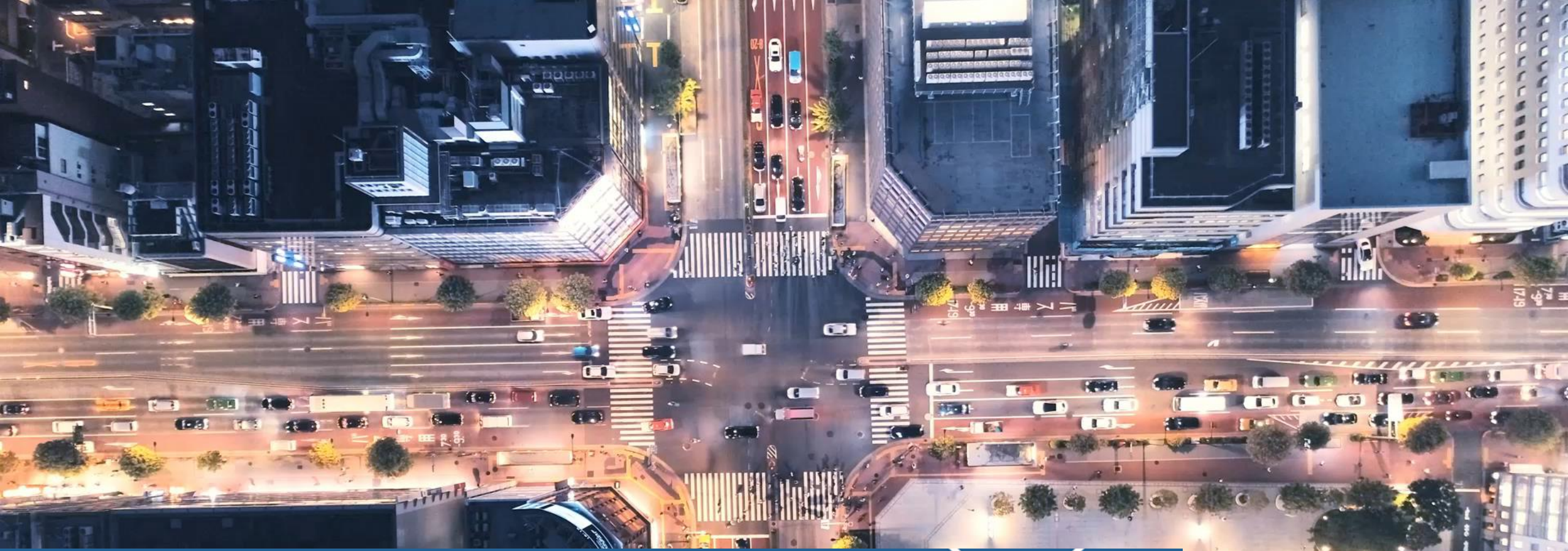
ENGINEERING THE FUTURE NOW!

18 - 19 AUGUST 2022

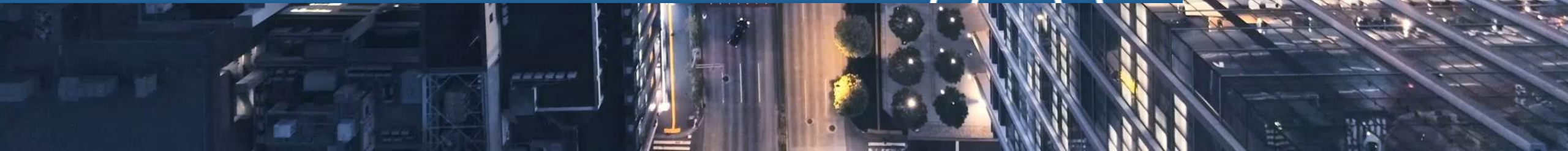
Global Approach

Procurement magnifying the impact of consulting engineers on projects and societal needs

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FOUNDER and CEO, MPAMOT GROUP



We are all connected





MPAMOT GROUP
MPAMOT AFRICA
MPAMOT LESOTHO

100% BLACK WOMEN OWNED AND LED
ENGINEERING, ENERGY, ESG and ADVISORY
CONSULTANCY

25 YEAR LEGACY

150+ Professional engineers, specialists and
personnel

Offices: Johannesburg, Umhlanga, Cape Town,
Maseru and project site offices

2000+ projects





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Global Mega-trends /Rapid-trends

- Climate crisis
- Socio-economic risks
- Debt crisis
- Supply chain bottlenecks
- Diversity and Inclusion



Basic societal needs

Infrastructure development addresses real-time wants and needs



Shelter



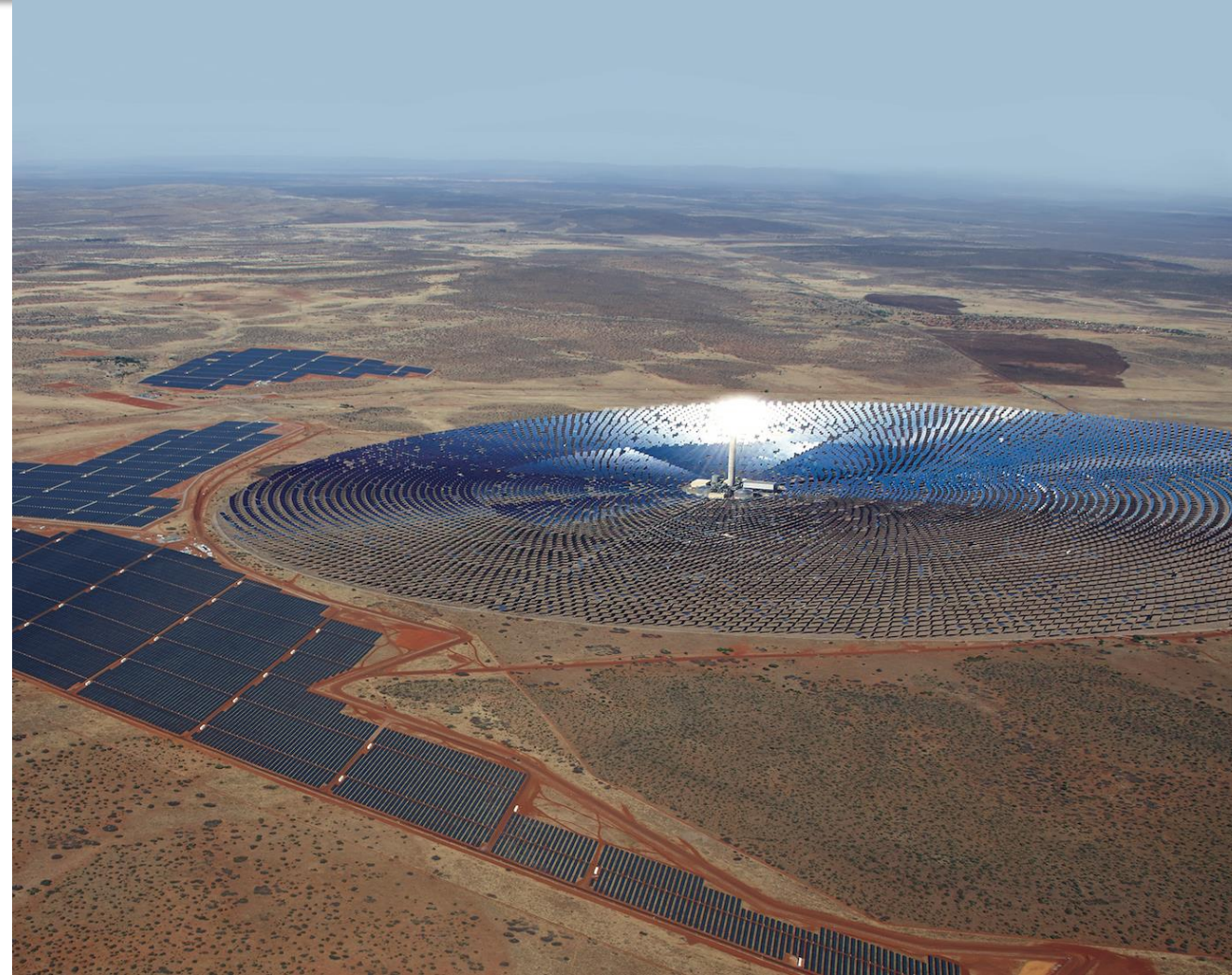
Food



Water



Energy (electricity for cooking, heating, lights)



Infrastructure projects

Address basic societal needs for the children in Africa.

Africa will have 3 billion people in 2050

Africa will still have the youngest population at the end of this century

Need for infrastructure development to address basic societal needs urban and rural



A catalytic project could address the following

- Shelter
- Water and wastewater
- Energy
- Food security (agriculture)
- Health
- Education
- Road networks



Infrastructure projects

Contribute to the United Nations Sustainable Development Goals

It addresses fundamental societal needs



Global Procurement Mechanisms

- Single contract
- Frameworks
- Multi-lateral
- Partnerships
- Alliancing
- Strategic partnerships
- Country Specific Procurement
- Design Build Operate Maintain
- Public Private Partnerships/RAB
- Private Finance Initiatives



Potential of Infrastructure Projects

Infrastructure projects mandate of governments delivery of key public services

direct implications on a country's

- economic capacity,
- human development,
- social inclusion and
- environmental sustainability.

cost-efficient

trusted by users and citizens to fulfil their mandate.



Procurement and delivery of infrastructure projects

- careful balancing between risk allocation and value for money.
- can help deliver sustainable, innovative and quality infrastructure investments and facilitate infrastructure investments that are crucial in the context of the COVID-19 crisis and economic recovery.



Procurement and delivery of infrastructure projects

- public procurement
- Aligning Procurement strategies
- Long term priorities and skills alignment
- Incentivising innovation



The role of procurement

- Increase catalytic projects in regions of greatest need
- Enhance employment creation
- Preferential procurement for QSE, EME, Generic, BWO, BO
- Skills transfer
- Socio economic development
- Enterprise development /Supplier development
- Impact monitoring and valuation



The way forward

- Need to address the infrastructure shortfall
 - Need for new infrastructure
 - Need for maintenance of existing infrastructure
 - Need to retain talent...Engineering is a critical and scarce skill
 - Cap profit margins - procurement mechanism to ensure absorption of all players
 - Guarantee long term continued involvement
 - Protect and buffer construction sector
 - Minimise risk to the client
 - Ensure appropriate training and mentorship
 - Provide growth opportunities and scale businesses
-

What is Social Value?

Social value is the creation of direct, positive impacts on people and communities by protecting human rights, dignity, health and wellbeing, providing community benefit and committing to social justice and equity. This includes indigenous rights, gender equality, diversity and inclusion, or jobs and economic benefits that would provide long term value to communities and improve local quality of life.

Source: WGBC Beyond the Business Case, Nov2021

