



TRANSFORMATIONAL INFRASTRUCTURE

for Development of a
Wellbeing Economy in Africa

DESTA MEBRATU & MARK SWILLING (EDITORS)

African countries face unprecedented challenges of defining a future development pathway in a resource- and carbon-constrained world. This book addresses this challenge, with special reference to the set of infrastructure that most African countries require to meet the sustainable development goals and fulfil the aspirations of Agenda 2063. Infrastructure is a key factor that determines how resource and energy flow and transform through socio-economic systems. Decisions made today by African countries on their infrastructural configuration will determine the inclusivity, resource intensity and climate resilience of their development pathways for decades to come. This book is a product of a two-year research conducted by a group of African scholars who have an extensive academic and practical experience on the development of key infrastructure sectors in Africa.

R375

978-1-928480-40-2 print

AFRICAN
SUN **MODIA** ■ stiaα

R300

978-1-928480-41-9 e-book

www.africansunmedia.co.za | orders@africansunmedia.co.za



This book is a product of more than two years of collaborative research by African scholars. The book project was facilitated by the Centre for Complex Systems in Transition of Stellenbosch University and the Stellenbosch Institute for Advanced Study (STIAS). The book argues that African countries have unique leapfrogging opportunities to Wellbeing Economy that is inclusive, climate resilient and resource efficient provided that they invest on transformational infrastructure. It also presents the available tools and techniques, which African countries could utilise in their policy-making and planning processes. The book consists of the following chapters that deal with key themes and sectors related to the development of transformational infrastructure in Africa:

- ▶ CHAPTER 1: Transformative leapfrogging to a wellbeing economy in Africa
- ▶ CHAPTER 2: Ecological infrastructure as a basis for the African wellbeing economy
- ▶ CHAPTER 3: Sustainable energy systems in Africa
- ▶ CHAPTER 4: Inclusive and sustainable industrial development for Africa
- ▶ CHAPTER 5: Sustainable urban development in Africa
- ▶ CHAPTER 6: Life-cycle management for sustainable infrastructure planning and development in Africa
- ▶ CHAPTER 7: Distributed renewable economy for Africa as a basis for wellbeing economy development
- ▶ CHAPTER 8: Inclusive governance for sustainable development in Africa
- ▶ CHAPTER 9: Indicators on transformational infrastructure for a wellbeing economy