

PARC 2019: SOLVABLE CHALLENGES - THE MAKING OF AFRICAN SMART CITIES

According to the UN, the world became predominantly urban in the last decade; largely due to the extreme accelerated urbanization process of emerging economies. The development of modern and smart African cities is essential for the sustained growth of African economies and the well-being of their citizens. As drivers of growth, African cities need to adapt their physical, digital and environmental elements to better respond to dynamic and constantly evolving challenges such as Health, Resilience, Mobility and the Sustainability of cities.



Today, the Fourth Industrial Revolution is changing the way in which African cities provide services to their residents and find effective solutions to these **solvable problems**. PARC 2019 challenges African students to devise solutions for the planning, design, management and transformation of future African cities in an increasingly complex urban environment using science and technology. Student projects will explore topics such as:

- IoT and connectivity
- Data science & cloud technology
- Data visualization & simulation (e.g., Augmented and Virtual Reality)
- Citizen design & cognitive computing
- Artificial Intelligence
- Cybersecurity
- Personal alert systems
- Driverless cars
- Human-machine interaction
- Smart transportation
- Responsive and flexible infrastructure
- Smart & renewable energy