Datastat Research
Building Capacity in Training and Research

DATASTAT TRAINING IN

OFFICIAL COURSE PROSPECTUS

Center for Advanced Research & Professional Development

Nairobi Training Center • Global Virtual Academy • Corporate On-Site

PUBLIC SECTOR INNOVATION

Digital Twins for Public Policy Testing Training Course

Comprehensive Course Syllabus, Practical Modules & Upcoming Schedules

PROGRAM SPECIFICATIONS & HIGHLIGHTS

DURATION
5 Days Practical Hands-on

DELIVERY MODES
In-Person Class & Live Virtual

CERTIFICATION
Accredited Certificate of Completion

INTAKES / DATES
Multiple Cohort Schedules Included

PREPARED FOR:

Valued Participant

Email: training@datastatresearch.org | Issued: November 21, 2026

Academic & Professional Training Year: 2026

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Digital Twins for Public Policy Testing Training Course

Public Sector Innovation • 5 Days Intensive • Accredited Certification

Course Overview

Digital Twins for Public Policy Testing Training Course focuses on leveraging digital twin technology to improve public policy testing, enhance governance efficiency, and ensure data-driven outcomes.

Key Skills & Software Tools Covered

MS Word • AnyLogic • Simio • and Siemens NX

Upcoming Training Schedules

Confirmed cohort intakes and venues. Both physical in-person classroom and live virtual online seats are available.

TRAINING DATES	LOCATION / VENUE	FORMAT / DURATION	INVESTMENT (FEE)
26 Jan 2026 – 30 Jan 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
26 Jan 2026 – 30 Jan 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 90,000**
26 Jan 2026 – 30 Jan 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 90,000**
26 Jan 2026 – 30 Jan 2026	Cape Town	Classroom / 5d	**$4,500 USD / KES 90,000**
26 Jan 2026 – 30 Jan 2026	Addis Ababa	Classroom / 5d	**$3,000 USD / KES 90,000**
26 Jan 2026 – 30 Jan 2026	Singapore	Classroom / 5d	**$5,000 USD / KES 90,000**
26 Jan 2026 – 30 Jan 2026	Istanbul	Classroom / 5d	**$5,000 USD / KES 90,000**
26 Jan 2026 – 30 Jan 2026	Bangkok	Classroom / 5d	**$5,000 USD / KES 90,000**
26 Jan 2026 – 30 Jan 2026	Accra	Classroom / 5d	**$4,000 USD / KES 90,000**
2 Feb 2026 – 6 Feb 2026	Nairobi	Classroom / 5d	**$1,500 USD / KES 110,000**
2 Feb 2026 – 6 Feb 2026	Kigali	Classroom / 5d	**$3,000 USD / KES 90,000**
2 Feb 2026 – 6 Feb 2026	Dubai	Classroom / 5d	**$5,000 USD / KES 90,000**

* Corporate discounts and customized cohort scheduling are available for teams of 3 or more participants.

Course Curriculum & Modules

Digital Twins for Public Policy Testing Training Course

Introduction

Digital twins are revolutionizing the way governments and public sector organizations design, test, and implement policies. By creating virtual replicas of real-world systems, public administrators can simulate complex urban environments, forecast policy impacts, and optimize decision-making processes. Digital Twins for Public Policy Testing Training Course focuses on leveraging digital twin technology to improve public policy testing, enhance governance efficiency, and ensure data-driven outcomes. Participants will gain insights into integrating advanced simulation models with real-time data to evaluate policy scenarios effectively.

With increasing emphasis on smart governance and predictive analytics, digital twins offer unparalleled opportunities for proactive policy interventions. This course equips participants with the technical, analytical, and strategic skills required to design, deploy, and evaluate digital twin models for public policy. Emphasis is placed on practical applications, case studies, and hands-on exercises to ensure that participants leave with actionable knowledge that directly impacts policy outcomes and citizen services.

Course Objectives

By the end of this course, participants will be able to:

1. Understand the fundamentals of digital twin technology for public policy testing.

2. Explore advanced data modeling techniques for simulation accuracy.
3. Apply systems thinking to integrate digital twins with urban governance frameworks.
4. Analyze real-time data for predictive policy outcomes.
5. Utilize scenario-based simulations to forecast policy impacts.
6. Evaluate stakeholder engagement strategies in digital twin development.
7. Design interactive dashboards for policy monitoring and reporting.
8. Identify key performance indicators for policy testing effectiveness.
9. Implement cybersecurity and data privacy measures in public sector digital twins.
10. Develop decision-support tools using AI-powered analytics.
11. Conduct cost-benefit analysis for policy scenarios using digital twins.
12. Apply case study insights to replicate successful digital twin initiatives.
13. Enhance organizational agility and resilience through simulation-based policy testing.

Organizational Benefits

· Improved accuracy in policy decision-making.
· Enhanced public service delivery and citizen satisfaction.
· Data-driven insights for efficient resource allocation.
· Reduced policy implementation risks.
· Enhanced scenario planning and forecasting capabilities.
· Increased transparency and accountability in governance.
· Strengthened stakeholder engagement through simulation outcomes.
· Optimized operational efficiency across departments.
· Better coordination between multiple public sector entities.
· Proactive identification and mitigation of policy challenges.

Target Audiences

1. Public sector administrators and policymakers
2. Urban planners and city managers
3. Data analysts and policy researchers
4. Government IT specialists and digital transformation teams
5. Smart city project managers
6. Public policy consultants
7. Civic technology innovators
8. Academic researchers in governance and technology

Course Duration: 5 days

Course Modules

Module 1: Introduction to Digital Twins for Public Policy

· Definition and evolution of digital twins
· Key components and architecture
· Benefits for public sector policy testing
· Global case studies of digital twin implementations
· Tools and platforms for digital twin creation
· Case Study: Virtual city modeling for traffic management

Module 2: Data Collection and Integration Techniques

· Identifying data sources for public policies
· IoT, sensor networks, and data acquisition
· Data cleaning and preprocessing
· Integration with existing policy frameworks
· Ensuring data reliability and accuracy
· Case Study: Integrating IoT data for urban mobility planning

Module 3: Advanced Simulation Modeling

· Systems thinking in policy simulation
· Scenario-based modeling techniques
· Predictive analytics and AI integration
· Policy impact forecasting
· Sensitivity analysis for decision-making
· Case Study: Emergency response policy simulation

Module 4: Policy Scenario Analysis

· Designing scenario-based simulations
· Identifying key performance indicators
· Comparing policy alternatives
· Risk assessment and mitigation
· Dashboard visualization of results
· Case Study: Environmental policy evaluation

Module 5: Stakeholder Engagement in Digital Twin Development

· Identifying key stakeholders
· Collaborative policy design
· Interactive visualization for stakeholder feedback
· Change management strategies
· Monitoring and reporting progress
· Case Study: Participatory urban development project

Module 6: Cybersecurity and Data Privacy

· Understanding public sector cybersecurity needs
· Data protection strategies
· Risk management in digital twins
· Compliance with regulations
· Ethical considerations for policy simulation
· Case Study: Securing citizen data in digital twin platforms

Module 7: Decision Support and Analytics

· Using dashboards for policy decisions
· AI and machine learning for predictions
· Cost-benefit analysis in simulations
· Policy recommendation frameworks
· Monitoring and evaluation techniques
· Case Study: Optimizing healthcare resource allocation

Module 8: Future Trends in Digital Twins for Governance

· Emerging technologies and innovations
· Integration with smart city initiatives
· Global best practices and benchmarks
· Policy adaptation to technological advancements
· Preparing organizations for digital transformation
· Case Study: National-level digital twin strategy

Training Methodology

· Interactive lectures with expert facilitators
· Hands-on practical exercises using digital twin platforms
· Real-world case studies for applied learning
· Group discussions and scenario-based problem solving
· Policy simulation workshops
· Feedback sessions and performance evaluation

Register as a group from 3 participants for a Discount

Send us an email: info@datastatresearch.org or call +254724527104

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to DATASTAT CONSULTANCY LTD account, as indicated in the invoice so as to enable us prepare better for you.

Certification & Learning Methodology

- Hands-on practical delivery with real-world datasets, case studies, and lab exercises.
- Post-training mentorship, access to class resources, and customized follow-up support.
- Participants who successfully complete the course receive an accredited Datastat Certificate of Completion.

How to Enroll & Reserve Your Seat

1. Online Registration: Visit https://datastatresearch.org/courses/digital-twins-for-public-policy-testing-training-course to register online.
2. Email Booking: Send participant details to training@datastatresearch.org for official invoice & reservation.
3. Support & Assistance: Inquire via phone +254 724 527 104 | +254 734 969 612.