



GISSA Gauteng In person meeting

Date: 23 September 2025

Venue: NG Elarduspark, Frelon Street 547, Elarduspark, Pretoria (-25.833160, 28.259839)

Theme: "Intelligent Geospatial Futures: AI, Machine Learning & Digital Twins in GIS"

Time	Item	Speaker	Company
09:00 - 09:15	Welcome and introduction	Danie Jooste	GISSA Gauteng
09:15 – 09:45	Simulating disaster before it strikes - Earth observation and AI-Driven risk modelling for climate resilience in SA	Ms. Nandi Mtethwa	Research Institute for Innovation and Sustainability (RIIS)
09:15 – 09:45	Everyday I Am AI-ing: Automating Geospatial Scripts	Nicolas J Kemp	AfriGIS
10:15 – 10:30	Body Break		
10:30 – 11:00	3D Modelling the Gauteng Future Cities	Mr. Melikhaya Sihawu	Gauteng Office of the Premier
11:00– 11:30	Flood Susceptibility Mapping using Remote Sensing data and Machine Learning algorithms in the City of Johannesburg Metropolitan Municipality, South Africa	Ms. Onesimo Madikizela	University of Fort Hare
11:30 – 12:00	Lunch		
12:00 – 12:30	Harnessing Solar Energy from Rooftops in Jeffersville Informal Settlement (City of Tshwane Metropolitan Municipality, South Africa)	Ms. Ntokozo Mnikathi	Department of Science and Technology
12:30 – 13:00	Smarter Maps, Sharper Images: Deep Learning in ArcGIS	Danika Saayman	Esri South Africa
13:00 – 14:00	Closure and networking		