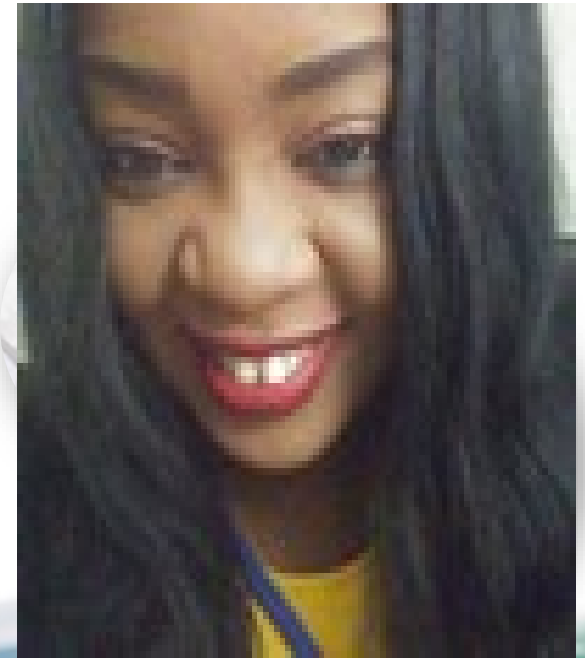




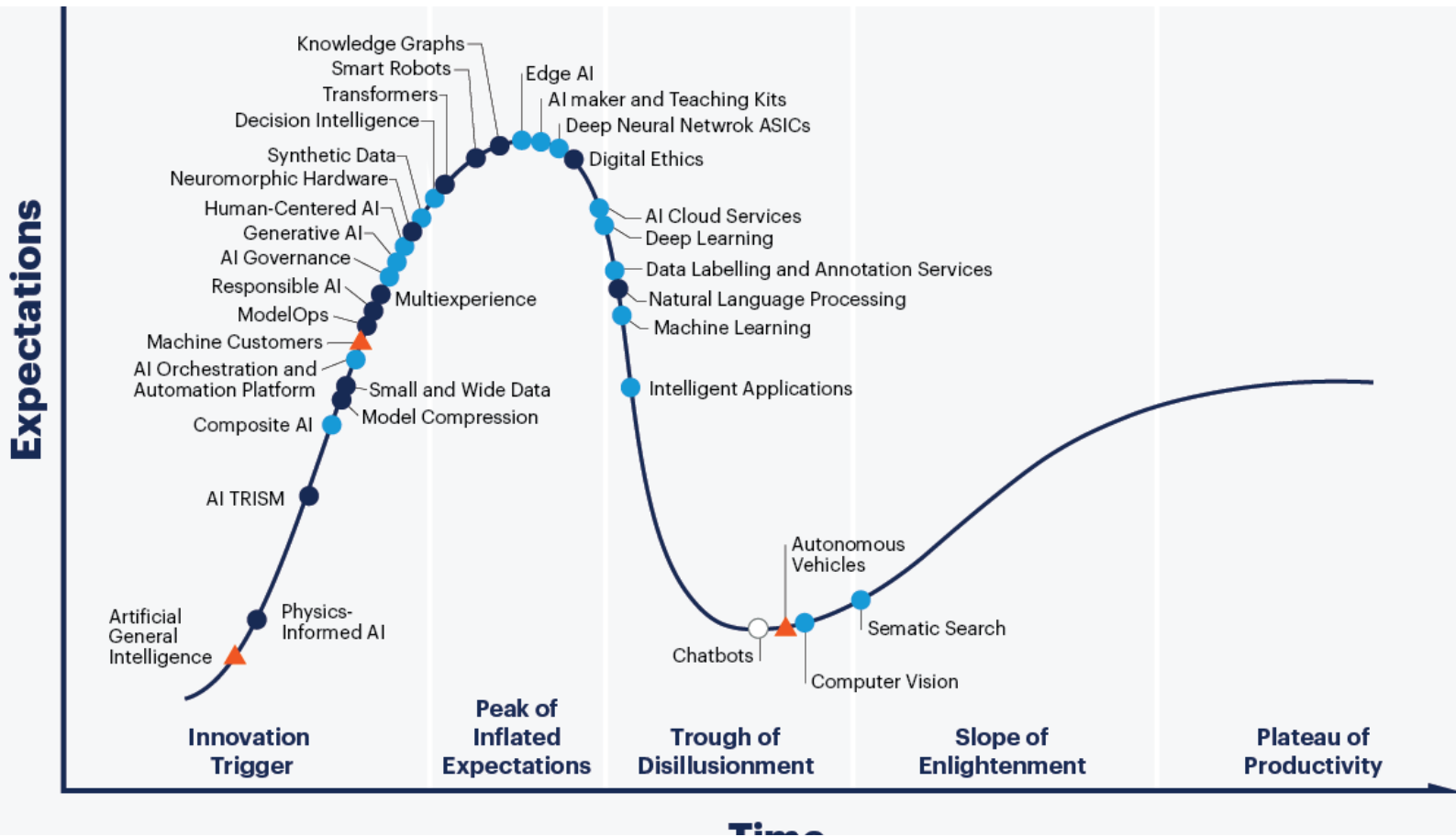
Ms. Oluwadamilola Ogunjobi
Founder: THINK TANK in FOCUS

Topic: Measuring The Scope of Emerging Technology
in Nuclear Technology: Scalability of Cyber Security ,
Nuclear Safeguards by Design and Nuclear Security by
Design



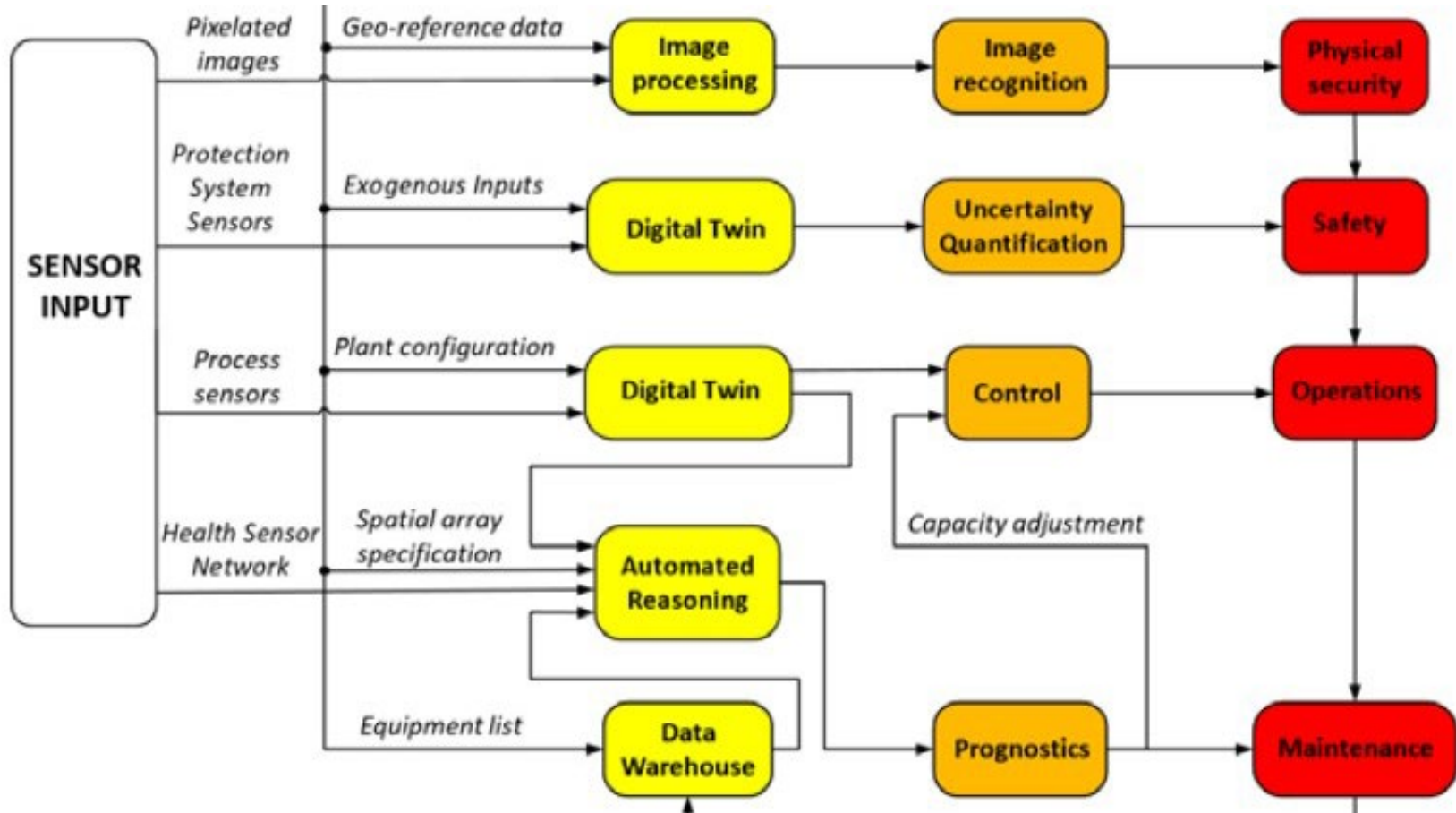
Hype Cycle for Artificial Intelligence, 2021

Source : Gartner



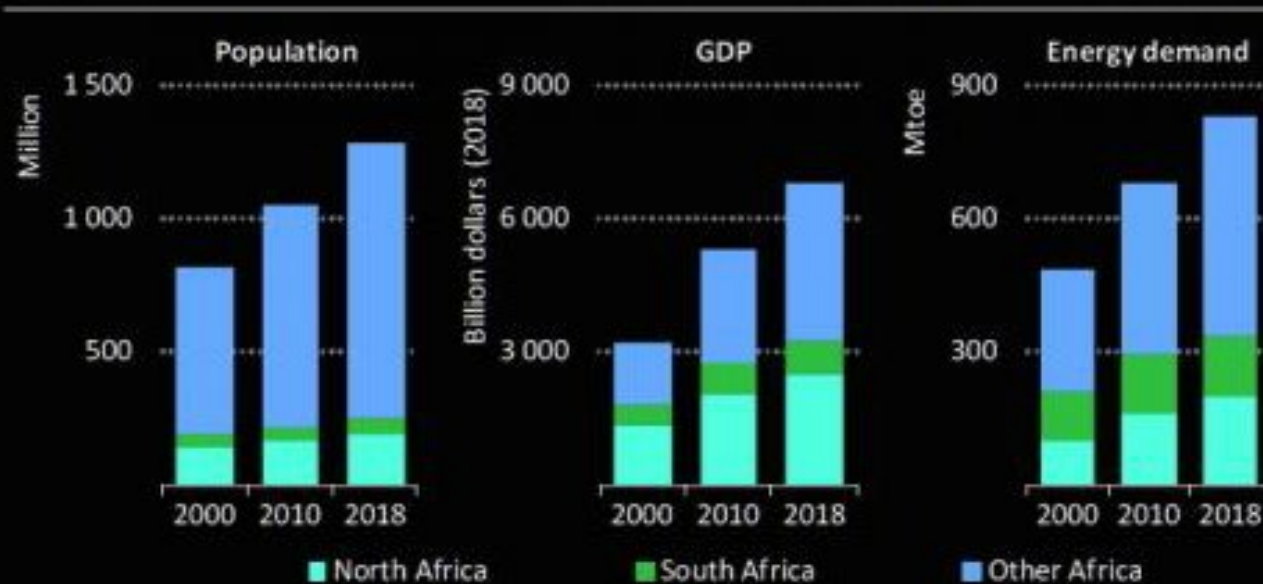
AI in Operations and Maintenance

(Source: Argonne National Laboratory paper; "Explainable and Trustworthy Diagnostics Achievable Through Process-Based Automated Reasoning")



Africa's Energy Demand

Selected indicators for Africa, 2000, 2010, 2018



*Africa's urban population is expanding fast
while energy services and GDP struggle to keep pace*

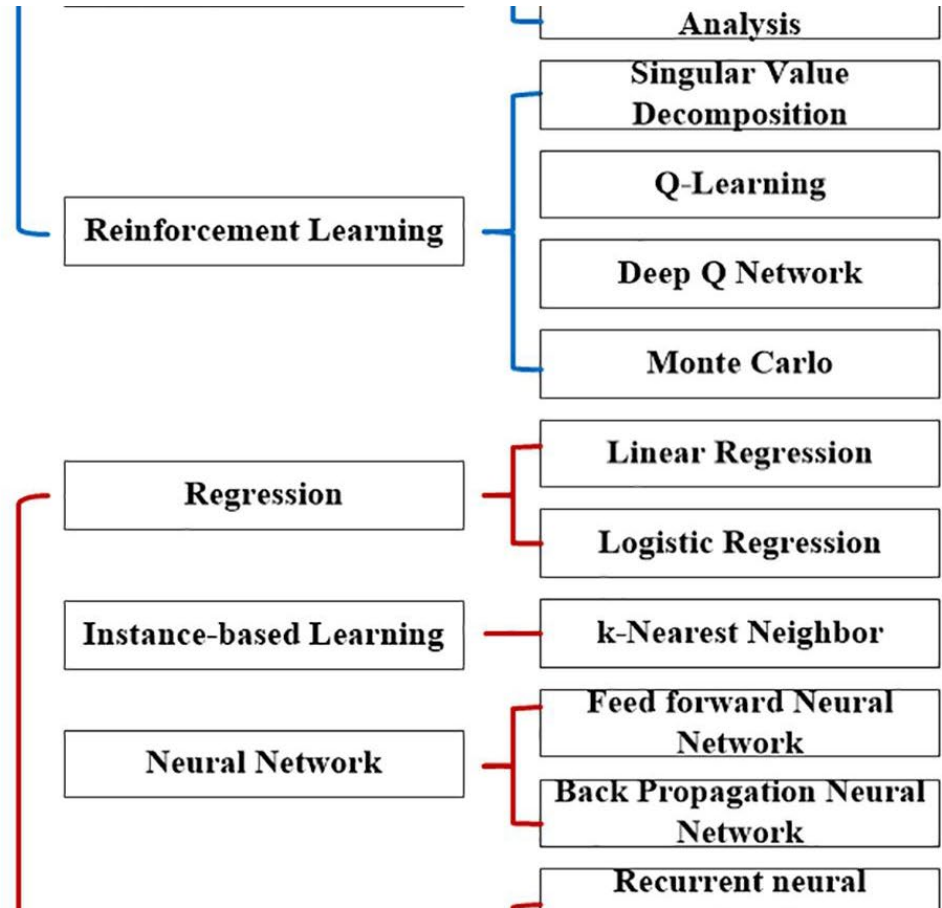
Note: GDP = Gross domestic product in PPP terms, \$2018.

African States Non-Proliferation Treaty & Nuclear Weapons Free Zone Treaty



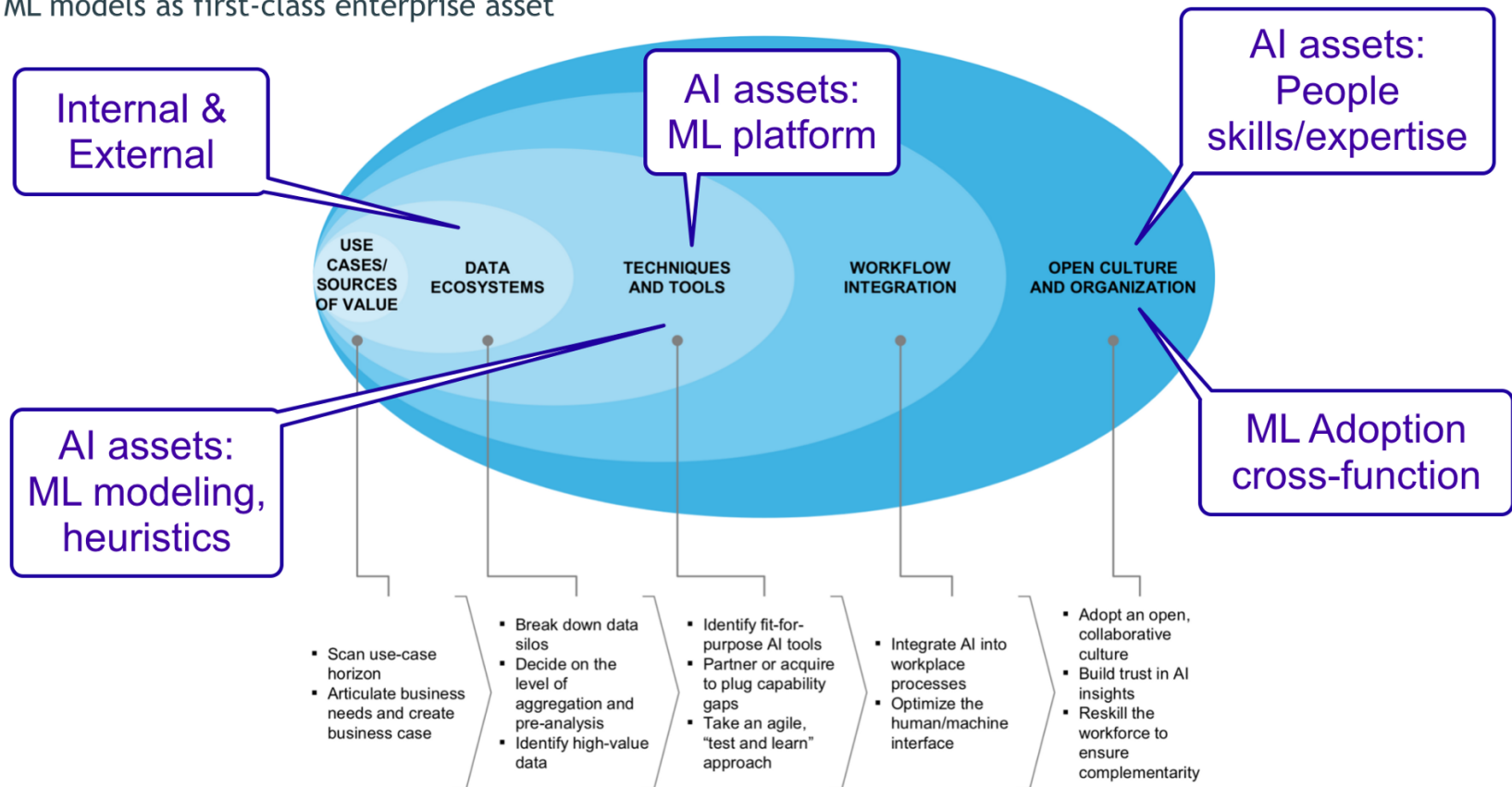
Data-Driven Machine Learning for Fault Detection and Diagnosis

Detailed
classifications
of DDML for
FDD in NPP



Enterprise Roadmap for AI & ML

ML models as first-class enterprise asset



SOURCE: *The age of analytics: Competing in a data-driven world*, McKinsey Global Institute, December 2016; McKinsey Global Institute analysis