

# **Capstone Project**

## **Project Velocity: A New, Innovative and Disruptive Route to Market for Amazon Web Services in Emerging Sub Saharan, North Africa and Middle East Regions**

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## Abstract

**Reinventing Cloud Services Adoption for Sustainable, AI-Driven Growth in Emerging Economies of the Sub-Saharan Africa (SSA), Middle East and North Africa (MENAT) Regions for Amazon Web Services.**

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This paper introduces **Project Velocity**, a disruptive innovation model designed to transform Amazon Web Services' (AWS) presence in emerging economies (Priority 2) markets within the Sub-Saharan Africa (SSA) and Middle East and North Africa (MENAT) regions. Countries such as Nigeria, Kenya, Egypt, Saudi Arabia, and Turkey represent untapped growth opportunities where cloud services must address not just infrastructure needs, but also issues of localization, sustainability, skills development, and post-pandemic recovery.

**Project Velocity** proposes a multilayered solution that goes beyond conventional cloud service provision. It introduces a **Cloudpreneurship-as-a-Service** framework powered by AI micro-franchising model, **Decentralized Sustainability Hubs** using solar-powered micro data centers, **Generative AI Sandboxes (Offset AWS usage costs incurred during solution development)** for domesticated innovation, and an integrated **GreenOps Toolkit** to embed carbon intelligence and sustainability objectives in all partner activities. The model spines on advanced decision-making frameworks, systems thinking, and collaborative ecosystem development to radically accelerate and reframe AWS's market engagement strategy.

This project mirrors the need for post-COVID-19 resilience, inclusive digital economies, and climate-adaptive infrastructure in AWS Priority 2 economies. It demonstrates deep thinking across critical business problem-solving, strategic evaluation, and professional innovation practices—while also proposing a replicable blueprint for scalable, sustainable technology ecosystems that align with both local policy and global sustainability goals.

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## Chapter 1: Introduction

### 1.1 Background

The COVID-19 pandemic aggressively accelerated the need for digital transformation across the globe. For Amazon Web Services (AWS), this paradigm shift was largely pronounced in regions like the Sub-Saharan Africa and Middle East and North Africa regions where the post-pandemic reality revealed critical gaps in digital infrastructure, cloud computing readiness, and socioeconomic inclusion. While the company has found success in Priority 1 (more technologically matured) markets such as the UAE and South Africa, **Priority 2 economies like Nigeria, Kenya, Egypt, Saudi Arabia (outside its core metros), and Turkey remain underleveraged** despite rapid demand for cloud computing solutions.

Priority 2 markets in SSA and MENAT regions face systemic challenges—ranging from limited access to renewable energy and uneven technological adoption to a lack of cloud-native talent and fragmented partner ecosystems. These structural inefficiencies result in **high cost-to-revenue ratios**, missed revenue targets, and headwinds in scaling and reaching the company's global cloud model and objectives. However, within these same limitations lie immense potential: youthful and boisterous populations, fast-growing digital economies, public-private sector interest in innovation, and untapped entrepreneurial energy.

This capstone proposes a radical reinvention of AWS's approach to Priority 2 markets through a new model—**Project Velocity**—that not only redefines but repurposes what it means to deliver cloud computing services in growing economies. Project Velocity does not merely expand infrastructure. Instead, it strategically fuses sustainability, generative AI, decentralized infrastructure, and tech-based micro-entrepreneurship into a **localized, regenerative innovation ecosystem**.

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## 1.2 Problem Statement

Traditional AWS cloud deployment models have failed to penetrate deeply into many Priority 2 economies in Middle East and North Africa. High latency, unreliable energy supply, insufficient AI readiness, and lack of inclusive and matured developer support systems have led to inconsistent market penetration. For instance, **the company's services in Nigeria or Kenya may be underutilized not because of demand, but due to the absence of accessible, localized infrastructure, sustainable delivery models and limited cloud computing talents.**

In the current model, when the company launches a region (physical cloud computing data center infrastructure), enterprise customers face multiple points of friction including a lack of cloud skills, scarcity of AWS coverage, and minimal access to capable the company's channel Partners. This flattens growth, and results in customer engagements that are small in scale, revenue, and impact. It also limits broader market development "fast follower" investors, and "early majority" customer adoption. With limited choice and access, enterprises are faced with a makeshift of small technology, implementation, consulting and managed partners, creating a crisis of confidence, slowing their own adoption rates, inhibiting the pace of innovation, diluting consumer benefit, and largely delaying citizens' access to a digital economy.

Underdeveloped enterprise markets represent a unique opportunity for AWS and customers across all geographies. For example, over the last 10 years, emerging markets contributed to ~67% of global GDP growth, through development and expansion of some of the world's most innovative companies (e.g., Tencent, Tata Group & SAB Miller). Gartner predicts that the addressable market for public cloud services for emerging geographies is expected to reach \$343B by 2026. AWS research shows that these regions, had low enterprise segment cloud penetration, with ~5% vs. in the US, where 40% of enterprises are on cloud.

Additionally, the company's traditional partner network structures and global product sets often do not translate well to countries with high currency volatility, limited AI skillsets, or infrastructural fragility. Without tailored engagement frameworks that reflect local conditions, AWS risks losing strategic ground to regionally adaptive competitors or being seen as an extractive, not enabling, presence.

More fundamentally, these Priority 2 markets represent **the future of global cloud consumption**, especially as Western markets mature. However, the "one-size-fits-all" expansion logic has reached a saturation point. The company now needs **genuinely disruptive strategies that go beyond optimization—to regeneration, localization, and empowerment -bringing the benefit of cloud computing closer to businesses and communities.**

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### 1.3 Research Objective

The core objective of this capstone is to conceptualize and validate **Project VELOCITY**, a disruptive framework and engagement mechanism for AWS's Priority 2 markets in the SSA and MENAT regions. This innovation redefines the company's operational and strategic architecture and provides an innovative engagement flywheel by:

- Localizing **cloudpreneurship** through micro-franchise programs that empower local developers and SMEs.
- Establishing **decentralized, solar-powered sustainability hubs** to deliver carbon-light, latency-reducing cloud access.
- Launching **AI sandboxes** built on regional datasets and designed for language and cultural specificity.
- Embedding a **GreenOps toolkit** to ensure environmental and financial sustainability is baked into the company's ecosystem partner practices.

The framework is designed to align with regional policy objectives such as **Saudi Vision 2030**, **Nigeria's Digital Economy Plan**, and **Egypt's ICT Strategy**, while simultaneously supporting the **UN Sustainable Development Goals (SDGs)**.

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### 1.4 Significance of the Study

Project Velocity is more than a technology concept; it's a **philosophical shift** in how cloud service delivery, value creation, and sustainability intersect. This study is significant for several reasons:

1. **Post-COVID-19 Contextualization:** It responds directly to new socio-technical demands shaped by the pandemic, including remote work, health tech, education, and data sovereignty.
  2. **Sustainability-Centered Cloud Strategy:** It places energy optimization, green infrastructure, and carbon accountability at the heart of the AWS expansion strategy.
  3. **Regional Inclusivity:** It repositions the company not just as a vendor, but as a **capacity builder** in developing economies.
  4. **Strategic Fit:** The model contributes directly to innovation mandates and market transformation ambitions of the company like the global strategic initiative with Deloitte-Project Pegasus.
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## 1.5 Research Methodology

This capstone adopts a **design-based research methodology** informed by real-world AWS market experiences and supported by critical business analysis tools. The research draws on:

- Strategic decision-making models (e.g., AWS Working Backwards Mechanism).
- Case studies and macroeconomic data from countries in the two regions.
- Sustainability innovation theory and regenerative economics.
- Interviews and reflections on past AWS implementations in Priority 2 markets.

The innovation will be tested against business viability (ROI, partner engagement), environmental impact (carbon reduction), and social inclusion metrics (youth employment, skill development).

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## 1.6 Learning Outcomes Mapping

The capstone explicitly addresses all five learning outcomes:

1. **Advanced Knowledge:** At the intersection of cloud architecture, AI, and sustainability.
  2. **Specialized Techniques:** System thinking, Return on Investment (ROI) frameworks, GreenOps modeling.
  3. **Professional Authority:** Leveraging cross-functional leadership and innovation in AWS SSA, Middle East and North Africa (MENAT) operations.
  4. **Idea Development:** Original and inventive creation of AI-powered cloudpreneurship and decentralized sustainability hubs.
  5. **Relevance to Post-COVID:** Aligning innovation with resilience, health, education, and digital equity.
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## Chapter 2: Frontier Knowledge and Regional Context

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### 2.1 Introduction: Disrupting the Edge of the Map

The frontier of cloud innovation is no longer confined to North America, Western Europe, or Asia-Pacific. The future of the cloud is unfolding and gaining momentum in new geographies—regions that are not yet fully digitized but are on the verge of transformative change. AWS’s Priority 2 markets in SSA & MENAT—**Nigeria, Kenya, Egypt, Saudi Arabia, and Turkey**—are among the most compelling and strategic in this regard. Their unique traits and blend of infrastructure gaps, policy ambition, demographic dynamism, and entrepreneurial mindset make them ideal pilots for **disruptive, localized, and regenerative cloud models**.

To meaningfully engage these frontiers, the company must evolve from being an infrastructure provider to becoming a capability enabler—one that co-creates solutions aligned with national visions, youth employment priorities, green economy imperatives, and inclusive growth strategies. The Project Velocity framework emerges from this backdrop.

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## 2.2 Nigeria: Digital Hustle Meets Infrastructure Fragility

With Africa’s largest population and one of its most vibrant tech startup ecosystems, **Nigeria represents both promise and paradox**. Over 65% of the population is under 25, mobile penetration is high, and digital-first behaviours are accelerating. Nigeria boasts over 3,500 active tech startups (Disrupt Africa, 2023), yet **cloud infrastructure remains uneven, and power supply unreliable**—with up to 60% of electricity demand unmet nationally (IEA, 2024).

AWS’s traditional value proposition struggles here. Without dependable power or robust internet backbones in Tier 2 cities, AWS services are often underutilized. Moreover, **cost-to-revenue ratios are unfavourable** due to low local currency resilience and poor cloud-native talent supply.

However, there’s a disruptive opportunity in **AI-powered micro-franchising**: training local developers to deploy AWS services via low-code tools and decentralized, solar-powered edge nodes. These “cloudpreneurs” could provide last-mile cloud access while tapping into Nigeria’s deep culture of informal entrepreneurship.

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## 2.3 Kenya: The Fintech Workroom of Africa

Kenya is a digital pioneer. With **M-Pesa revolutionizing mobile payments** and Nairobi’s reputation as the “Silicon Savannah,” the country offers fertile ground for digital experimentation and innovation. The government’s support for e-government, open data, and AI policy development adds strategic alignment for the company. (GoK AI Strategy, 2023). However, Kenya’s **rural-urban divide** in connectivity and capacity is a big setback.

AWS has partners in Kenya, but they remain concentrated in Nairobi and are often limited in their ability to scale beyond metropolitan clients. Further, **cloud literacy in government and SME sectors remains low**, which constrains service uptake.

Here, **Project Velocity could implement a localized Generative AI Sandbox**, built with Swahili language datasets and fine-tuned on public sector use cases (agriculture, health, and education). This not only localizes AWS tools, but also fosters homegrown innovation that is exportable across East Africa.

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#### 2.4 Egypt: The Data Sovereignty Predicament

Egypt's booming population, strong engineering talent, and strategic geographic location make it a high-potential digital economy. The government's "Digital Egypt" agenda seeks to modernize everything from tax administration to digital healthcare. However, **regulatory friction and concerns over data sovereignty** remain barriers to foreign cloud providers (World Bank, 2023).

Many Egyptian partners and public institutions remain wary of full-scale cloud adoption due to fears about surveillance, data control, and alignment with national priorities. In this context, AWS must **go hyper-local**: co-developing **"sovereign cloud nodes"** operated under Egyptian jurisdiction and powered by renewable energy.

By tying into Egypt's aggressive solar energy push—especially in Aswan and the Benban solar park—AWS can present itself not as a threat, but as a **partner in digital sovereignty and green infrastructure**.

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#### 2.5 Saudi Arabia: Vision 2030 Meets AWS Transformation

Saudi Arabia's **Vision 2030** is one of the most ambitious national transformation strategies globally. It includes the NEOM -smart cities launched in 2017, digital education platforms, AI regulation, and a rapid shift from oil to tech-based GDP. AWS has an established footprint in the Kingdom including a recent AWS Humain and stc Group strategic partnerships aiming to accelerate Saudi Vision 2030 digital transformation goals through cloud adoption and AI services expansion investments worth more than \$5B. However, **most of it centers around core metros like Riyadh and Jeddah**, while other regions lag behind in cloud uptake.

Moreover, the gender gap in tech participation remains significant—despite national efforts to reverse this trend. **Project Velocity model can accelerate Vision 2030** by empowering women-led tech startups through micro-cloud grants, AI-powered learning tools in Arabic, and a cloudpreneur certification program designed in collaboration with Saudi universities.

By integrating with national innovation hubs and applying culturally adaptive tools, AWS becomes an **ally and accelerator in local capacity building and social equity**, not just a cloud vendor.

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## 2.6 Turkey: A Balancing Act of Opportunity and Volatility

Turkey occupies a strategic bridge between Europe and Asia. It has a well-educated tech workforce, growing demand for digital services, and a strong manufacturing base ripe for industrial IoT integration. However, Turkey also experiences **currency volatility, inflation, and political tensions** that make traditional expansion riskier for global cloud providers.

In this environment, **flexibility is the new currency of success**. AWS must pivot to smaller, modular, and more resilient architectures—like **containerized, solar-powered edge nodes** that can be rapidly deployed in industrial zones. Localized AI co-innovation hubs, powered by Turkish language datasets and open-source tooling, can further embed AWS into the national innovation fabric.

By shifting from a capex-heavy expansion model to a **regenerative, federated deployment model**, AWS hedges against macro volatility while deepening its embeddedness.

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## 2.7 Global Trends at the Forefront of Innovation

Project Velocity is inspired not only by local dynamics but also by **global innovation trends** that are reshaping how cloud services are delivered:

- **Regenerative Infrastructure:** Systems that don't just "do less harm" but actively repair or regenerate the ecosystems they operate in—through renewable energy integration, local capacity building, and inclusive governance.
- **Generative AI Localization:** Large Language Models (LLMs) and Artificial Intelligence (AI) tools are only as good as their data. There's a critical need to build **region-specific AI tools** with cultural, linguistic, and economic context embedded at their core.
- **Edge Computing and Micro Data Centers:** To meet latency, sovereignty, and resilience demands, companies are shifting from hyperscale to **hyperlocal** infrastructure.
- **Sustainability as a Business Model:** With ESG (Environmental, Social, and Governance) metrics becoming central to investor and partner decisions, cloud

players are being evaluated on their **carbon footprint, energy sourcing, and equitable access models.**

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## 2.8 Conclusion

The Project Velocity model is situated at the convergence of **global innovation pressure and regional transformation urgency.** By deeply understanding the complexities and aspirations of Nigeria, Kenya, Egypt, Saudi Arabia, and Turkey, this project reframes AWS's role from infrastructure builder to **ecosystem catalyst.**

These Priority 2 markets are not marginal—they are the **next strategic growth engine** for cloud services. But growth must be designed, not imposed. Sustainability, equity, and empowerment must be embedded—not appended. The next chapter translates this frontier understanding into an actionable innovation framework that reimagines how the company can lead, partner, and regenerate through the Project Velocity model.

### 3.1 Introduction: Reimagining AWS at the Edge

To achieve long-term growth, digital equity, and environmental alignment in AWS Priority 2 markets, the company must go beyond scaling infrastructure—it must not only **rethink but reimagine its operating model.** Project Velocity introduces a disruptive, locally embedded, sustainability-oriented framework that transforms how AWS engages, empowers, and regenerates emerging ecosystems.

This chapter outlines the four interconnected pillars of the Project Velocity model:

1. **AI Micro-Franchising and Cloudpreneurship-as-a-Service**
2. **Decentralized Sustainability Hubs**
3. **Generative AI Sandboxes**
4. **The GreenOps Toolkit**

Together, these pillars reshape AWS's strategic posture from provider to partner, from global to glocal, and from carbon-intensive to climate-aligned.

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## 3.2 Pillar 1: AI Micro-Franchising and Cloudpreneurship-as-a-Service

### 3.2.1 Concept Overview

The cloud industry has largely focused on selling to corporations. Project Velocity introduces a **bottom-up commercialization model** by enabling local entrepreneurs to become AWS-certified solution deployers through a micro-franchising model—**Cloudpreneurship-as-a-Service (CaaS).** Shaun O'Meara in his 2023 Forbes publication notes that "Making the

Perspective Shift As-a-service solutions require a mindset change. We need to clearly define the outcomes we want and avoid looking for a collection of tools. In practical terms, some offerings are tools that need a toolbox of other tools, whereas other offerings are services that allow you to just get going and focus on building value”. So, instead of the company selling directly into a region, local cloudpreneurs would:

- Use **low-code/no-code platforms** to build AWS-native apps.
- Offer digital services to SMEs, municipalities, schools, and hospitals.
- Operate under a regionally adapted micro-franchise agreement.
- Earn income through revenue-sharing and service delivery.

### 3.2.2 Structure and Training

Cloudpreneurs undergo a **tiered certification program** (Cloud Basics → Generative AI Practitioner → GreenOps Specialist) delivered via:

- AWS Educate and re:Start integration
- University and bootcamp partnerships
- Community learning hubs in local languages

These cloudpreneurs then become **technology multipliers**, democratizing cloud access for grassroots organizations and emerging businesses.

### 3.2.3 Inclusion & Job Creation

In Nigeria, Kenya, and Egypt—where youth unemployment is high—this model **creates a new class of digital entrepreneurs**. By targeting women-led ventures and persons with disabilities, it also advances **gender equity and inclusive economic participation**, aligned with Sustainable Development Goals (SDG 5 and SDG 8)

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## 3.3 Pillar 2: Decentralized Sustainability Hubs

### 3.3.1 The Need for Decentralization

SSA & MENAT's Priority 2 markets often lack reliable power, suffer from high latency, and have strict data residency requirements. To address this, Project Velocity introduces **Decentralized Sustainability Hubs (DSHs)—modular, solar-powered micro data centers** deployed at regional and municipal levels.

These hubs act as:

- Edge compute and storage nodes

- Renewable energy-powered cloud caches
- Compliance-safe data processing zones
- Job hubs for certified cloudpreneurs

### 3.3.2 Technical Composition

Each DSH includes:

- A solar array + lithium battery bank (with backup diesel for Tier 4 reliability)
- Pre-fabricated compute containers (built on AWS Snow family + Outposts)
- Satellite uplinks or 5G mesh backhauls
- Real-time environmental dashboards

The units are manufactured regionally to reduce carbon footprint and stimulate local industry.

### 3.3.3 Case Application: Egypt

In Upper Egypt and Nigeria where centralized data centers are far or limited, a DSH model could provide localized, energy-efficient compute services to agriculture startups, public hospitals, and educational platforms—while reducing carbon emissions by **up to 70%** compared to legacy grid-powered data facilities.

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## 3.4 Pillar 3: Generative AI Sandboxes

### 3.4.1 The Localization Gap in Generative AI

Global Large Language Models (LLMs) like ChatGPT or Claude are trained predominantly on Western datasets. This limits their relevance for SSA & MENAT users—missing nuances in language, culture, law, religion, and regional priorities. Project Velocity proposes **country-specific AI Sandboxes** to:

- Support local data collection, curation, and labeling.
- Train localized LLMs in Arabic, Hausa, Turkish, Swahili, and Amharic.
- Deploy fine-tuned models for local sectors (education, health, law, finance).

### 3.4.2 Platform and Governance Model

Each sandbox operates on AWS SageMaker **Studio (Web Interface for Machine Learning Development)** and includes:

- Government-vetted datasets (for privacy/legal compliance)

- NGO and university collaborations for dataset development
- Ethics oversight board with civil society representation
- Community feedback loop for continual model alignment

### 3.4.3 Example Use Case: Kenya

A Swahili-speaking generative AI assistant could help community health workers in rural Kenya diagnose conditions, schedule appointments, or translate prescriptions—filling healthcare access gaps while **preserving linguistic and cultural dignity**.

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## 3.5 Pillar 4: The GreenOps Toolkit

### 3.5.1 From DevOps to GreenOps

Sustainability can no longer be a reporting exercise—it must be an operational mindset. GreenOps is a new discipline that integrates **carbon intelligence into DevOps workflows**, ensuring that every AWS service deployments in SSA & MENAT include a sustainability performance layer.

### 3.5.2 Key Features

- **Carbon-Aware Software Development Kits (SDKs)**: Developers get alerts on the carbon cost of their deployment options (e.g., region, compute instance, storage class).
- **Sustainability Scorecard Application Program Interface (API)**: Provides partners with real-time carbon and energy performance data, mapped against ESG targets.
- **Sustainability Service Level Agreement (SLA) Extensions**: Partners can offer Green SLAs to clients, guaranteeing carbon budgets per deployment.

### 3.5.3 Strategic Impact

GreenOps allows AWS to:

- **Align with national ESG regulations** (e.g., Saudi Arabia’s Green Initiative).
  - **Attract impact investors** by offering granular sustainability tracking.
  - **Reduce operational emissions** across regional deployments by 40–70%.
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## 3.6 Project Velocity Framework Integration

The four pillars of Project Velocity are not standalone; they are **deeply interlinked** and designed to reinforce each other.

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Chapter four continues with the **Implementation Roadmap**, which translates the Project Velocity model from vision to execution—specifying how AWS can pilot, scale, and sustain this innovation in SSA & MENAT's Priority 2 markets.

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## Chapter 4: Implementation Roadmap

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### 4.1 Introduction: From Concept to Action

Translating disruptive innovation into real-world impact requires intentionality, structure, and stakeholder orchestration. The Project Velocity model introduces fundamentally new ways of thinking about infrastructure, sustainability, partner engagement, and AI localization. Therefore, implementation cannot follow a traditional cloud rollout model—it must itself be **disruptively agile, locally grounded, and globally informed**.

This chapter presents a **three-phase roadmap** for deploying Project Velocity across Nigeria, Kenya, Egypt, Saudi Arabia, and Turkey—while outlining timelines, partnerships, operational strategies, and performance metrics. The goal is to pilot the model in targeted environments, iterate based on field results, and scale toward ecosystem-wide adoption.

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### 4.2 Strategic Implementation Phases

#### Phase 1: Foundation & Readiness (Months 0–6)

**Objective:** Prepare the groundwork for launch with stakeholder alignment, capability setup, and site selection.

**Key Activities:**

- Establish **country innovation task forces** made up of AWS teams, public sector representatives, academia, and NGOs.
- Identify two pilot markets (e.g., **Kenya and Turkey**) based on readiness criteria: infrastructure availability, regulatory openness, and partner maturity.
- Launch **Cloudpreneur Academy** in pilot countries with AWS Educate and re:Start content localized.

- Partner with local universities to design **custom Generative AI Sandbox frameworks**.
- Conduct sustainability audits and feasibility studies for **Decentralized Sustainability Hubs (DSHs)** in each pilot.

#### **Outputs:**

- 50+ cloudpreneurs enrolled and onboarded.
- 2 local AI sandbox datasets initiated.
- Initial contracts signed for micro data center deployment.

#### **Phase 2: Pilot & Co-Creation (Months 7–12)**

**Objective:** Test Project Velocity components at limited scale in real environments and iterate based on stakeholder feedback.

#### **Key Activities:**

- Deploy 1–2 **DSHs** in each pilot market—e.g., in Nairobi’s innovation zone and Gaziantep’s industrial district.
- Launch **sandbox MVPs**: e.g., a Swahili-language chatbot for education in Kenya; a Turkish AI assistant for SME finance.
- Field test **GreenOps SDK** with partners using AWS services like Lambda and EC2.
- Facilitate **bi-monthly co-creation workshops** with local partners and AWS product teams.
- Integrate CRM and ERP touchpoints for micro-franchisee tracking and support.

#### **KPIs:**

- ≥40% improvement in workload latency for local clients using DSHs.
- 3–5 generative AI models fine-tuned with local data.
- Partner feedback scores ≥80% on usefulness of GreenOps tooling.
- 20 active cloudpreneurs generating revenue.

#### **Governance:**

- Establish a **Project Velocity Impact Board** comprising stakeholders to oversee ethical AI use, sustainability performance, and local value capture.

#### **Phase 3: Scale & Institutionalization (Months 13–24)**

**Objective:** Scale successful components across SSA & MENAT's Priority 2 markets while institutionalizing them in AWS's operating model.

**Key Activities:**

- Roll out **Cloudpreneurship-as-a-Service** in Nigeria, Egypt, and Saudi Arabia.
- Localize and deploy **AI sandboxes** in Arabic, Hausa, and Amharic with national digital authorities.
- Partner with renewable energy providers to expand the **DSH network** (target: 10–15 regional deployments).
- Launch a **Sustainability Partner Certification** tied to GreenOps usage.
- Integrate Project Velocity KPIs into SSA & **MENAT partner team scorecards** and **AWS Sustainability Reporting** globally.

**KPIs:**

- ≥200 cloudpreneurs operating under Project Velocity model.
  - ≥5 country-specific generative and agentic AI applications deployed across sectors.
  - ≥60% reduction in carbon intensity (CO<sub>2</sub>e/MWh) for pilot workloads.
  - ≥30% increase in local partner engagement compared to baseline.
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### 4.3 Infrastructure and Technology Stack

To ensure robust performance and local adaptability, the Project Velocity architecture draws on:

- **AWS Outposts** and **Snowball Edge** for localized compute.
- **Amazon SageMaker** for AI model training and deployment.
- **Amazon CloudWatch + Sustainability Pillar for Well-Architected Framework** for GreenOps integration.
- **Amazon Chime SDK** and **WorkDocs** for regional collaboration platforms.

Where regulatory concerns are high (e.g., Egypt), infrastructure may be managed under **Joint Venture (JV)** agreements or **public-private cloud sovereignty arrangements** or the establishment of Sovereign Digital Local Zones

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### 4.4 Strategic Partnerships

Success hinges on creating a mesh of complementary alliances:

Partner Type	Role	Example
Public Sector	Regulatory alignment, sandbox governance	Ministry of ICT (Kenya), CITC (Saudi Arabia), Galaxy Backbone (Nigeria)
Academic	Curriculum design, data curation, ethics oversight	Nile University (Egypt), Bilkent (Turkey)
NGOs	Inclusion and access outreach	Women in Tech Africa, Turkish AI Ethics Council
Energy Providers	Green infrastructure deployment	Kengen (Kenya), Taqa (Saudi Arabia)
Development Finance	Co-funding of DSHs and Cloudpreneur Academy	IFC, African Development Bank

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#### 4.5 Change Management Strategy

Disruption breeds resistance unless guided by inclusive processes. Project Velocity will implement a **three-tier change management strategy**:

1. **Narrative Framing**: Position Project Velocity not as a tech product but as a **nation-building platform** aligned with policy visions.
2. **Participatory Design**: Ensure that cloudpreneurs, SMEs, and public sector officials co-design services via feedback loops.
3. **Capability Building**: Continuous upskilling programs to ensure local actors can adapt to evolving AWS platforms.

Stakeholder-specific communication plans, onboarding kits, and quarterly impact stories will be used to sustain engagement.

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#### 4.6 Monitoring, Evaluation, and Learning (MEL)

Project Velocity includes a built-in MEL framework to ensure **adaptive learning and measurable success**:

##### Monthly:

- Partner activation rates
- Carbon analytics from GreenOps

- Net Promoter Scores (NPS) from cloudpreneurs and DSH clients

**Quarterly:**

- Case studies of AI sandbox outputs
- Gender-disaggregated reporting on program reach
- Infrastructure performance benchmarks

**Annually:**

- Social Return on Investment (SROI)
- ESG alignment score (developed in partnership with global consulting and compliance partners like Deloitte and KPMG)
- Regional economic impact studies (e.g., SME revenue uplift, job creation)

**4.7 Risk and Mitigation Plan**

<b>Risk</b>	<b>Mitigation</b>
Regulatory pushback on data residency	Early engagement with policymakers + sovereign cloud design
Infrastructure vandalism in remote areas	Deploy through local government–NGO coalitions with shared security
Partner engagement	Revenue-sharing, digital incentives, and KPI-based recognition
Technological obsolescence	Cloud-native design; use of containerization and scalable microservices

**4.8 Conclusion**

Project Velocity Implementation Roadmap reflects the **strategic orchestration of people, platforms, and partnerships**. It is grounded in phased action, yet responsive to context. It blends top-down infrastructure planning with bottom-up capability building.

If implemented with fidelity, the model will not only reinvent how AWS operates in Priority 2 SSA & MENAT countries—it will **redefine what inclusive, sustainable cloud innovation looks like globally**.

The next chapter will evaluate the projected impact of this innovation through business metrics, environmental modeling, and inclusive growth outcomes.

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## **5 : Evaluation and Impact.**

**Chapter 5: Evaluation and Impact**, assesses the measurable outcomes of the Project Velocity model—across financial, environmental, technological, and social dimensions. This section will simulate how such an innovation would perform in real-world scenarios.

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### **Chapter 5: Evaluation and Impact**

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#### **5.1 Introduction: The Metrics That Matter**

Disruptive innovation, while conceptually ambitious, must prove its worth through measurable, transformative outcomes. Project Velocity is not merely about experimentation—it is engineered for **performance, sustainability, and inclusion**. This chapter evaluates how VELOCITY performs across five dimensions:

- 1. Operational Efficiency**
- 2. Environmental Sustainability**
- 3. Partner Ecosystem Growth**
- 4. AI Capability Development**
- 5. Inclusive Economic Impact**

Together, these impact areas offer a robust framework to demonstrate return on innovation (RoI), aligned with AWS's strategic ambitions and stakeholder expectations in SSA & MENAT.

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#### **5.2 Operational Efficiency Gains**

##### **Metric 1: Reduction in Time-to-Market (TTM)**

With the deployment of localized **Decentralized Sustainability Hubs (DSHs)** and micro-franchisee cloudpreneurs, product and service launches accelerate significantly.

- **Projected Outcome:**  
A **30% reduction in time-to-market** for AWS-powered partner services in Kenya, Turkey, and Nigeria due to local compute access and simplified partner certification.

### **Metric 2: Cost Reduction in Partner Enablement**

Through virtual training platforms and localized AWS Educate hubs, onboarding costs decrease.

- **Projected Outcome:**  
A **45% decrease in onboarding and support costs per partner** due to standardized, community-led learning models and tiered digital curricula.

### **Metric 3: Deployment Latency**

DSHs reduce data transit times by locating compute near consumption points.

- **Projected Outcome:**  
A **40–60% improvement in application latency** for customers in rural Egypt, Northern Nigeria, and Eastern Turkey.

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## **5.3 Environmental Sustainability Impact**

The GreenOps toolkit and solar-powered infrastructure are core to the regenerative vision of PROJECT VELOCITY.

### **Metric 4: Carbon Emission Reduction**

- **Baseline:** Traditional cloud data delivery powered via centralized, fossil-fuel-heavy grids.
- **VELOCITY Impact:** Solar-integrated DSHs with battery backup reduce reliance on grid power.
- **Projected Outcome:**  
**60–70% reduction in carbon emissions (kg CO<sub>2</sub>e) per AWS workload** in VELOCITY pilot zones.

### **Metric 5: Energy Efficiency**

- **Metric:** Power Usage Effectiveness (PUE)
- **Industry Average:** 1.59 (Uptime Institute, 2024)
- **Project Velocity Target:** ≤1.2 for modular DSHs

This contributes to AWS's overall ESG targets and supports customers in achieving their own Scope 3 reduction goals.

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## 5.4 Partner Ecosystem and Market Penetration

### Metric 6: Partner Activation

By offering Cloudpreneurship-as-a-Service, PROJECT VELOCITY stimulates the local cloud partner economy.

- **Projected Outcome:**  
A **200% increase in active AWS partners** in Priority 2 markets within 24 months.

### Metric 7: Revenue Growth from Priority 2 Markets

With improved access, localization, and decentralized AI tooling, AWS sees increased regional revenue.

- **Simulated Impact:**  
A **35% Cumulative Average Growth Rate (CAGR) increase** in Priority 2 regions, contributing an additional **\$250M in partner-driven revenue** by Year 3.

### Metric 8: Partner Satisfaction

- **KPI:** Partner Net Promoter Score (NPS)
- **Baseline:** 55
- **Project Velocity Target:** >75 due to localized support, data residency assurances, and training access.

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## 5.5 Generative and Agentic AI and Digital Innovation Maturity

### Metric 9: Local AI Model Development

The Project Velocity AI Sandbox model enables each country to train and deploy culturally and linguistically aligned AI.

- **Projected Outcome:**  
**5+ production-level Large Language Models (LLMs)** trained using regional datasets (e.g., Hausa finance bot, Arabic medical assistant, Swahili EdTech helper) by Year 2.

### Metric 10: AI Integration in Public Services

By co-creating with ministries of education, health, and justice, Project Velocity extends AI reach.

- **Simulated Impact:**  
**15+ government services augmented** by generative and agentic AI, improving service delivery efficiency (e.g., education content creation, legal translation, medical triage).
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## 5.6 Social and Inclusive Economic Impact

### Metric 11: Youth Employment

Cloudpreneurship offers job pathways for unemployed and underemployed youth, especially in post-COVID economies.

- **Projected Outcome:**  
**≥2,000 new digital jobs** created directly and indirectly across pilot countries within 24 months.

### Metric 12: Gender Equity

The Project Velocity program sets inclusion targets for women in cloudpreneurship and AI sandbox leadership roles.

- **Simulated Outcome:**  
**40% female participation** in cloudpreneur cohort by Year 2, supported by tailored onboarding, mentorship, and community support.

### Metric 13: Digital Inclusion Index

Project Velocity contributes to regional digital inclusion by expanding access and relevance.

- **Impact:**  
15–20 point increase in the **GSMA Digital Inclusion Index** score for targeted regions (e.g., Borno State in Nigeria, Mersin in Turkey).
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## 5.7 Case Vignettes

### Case 1: Nigeria – From Informal Vendor to Cloudpreneur

Fatima, a 27-year-old in Kano, transitions from a mobile money agent to a certified AWS Cloudpreneur. Using her knowledge of local businesses, she now deploys AWS-backed retail inventory apps using low-code tools. Her monthly income triples while she trains 10 more women.

### Case 2: Egypt – Sustainable Compute for Public Health

A solar-powered DSH in Luxor supports AI-assisted diagnostic services for public clinics. This reduces patient wait times by 40%, enables remote triage, and supports data-driven healthcare policy—while reducing reliance on central data facilities in Cairo.

### Case 3: Turkey – AI in Crisis Response

Following a localized earthquake event, a Turkish generative AI assistant—trained in emergency response via the Project Velocity Sandbox—helps coordinate disaster recovery resources, automates alerts in Turkish and Kurdish, and connects victims to government aid within hours.

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### 5.8 Strategic Advantage for AWS

By implementing Project Velocity, AWS differentiates itself not only through cloud services but through its **regenerative model of digital development**. This secures:

- Enhanced regulatory goodwill
- First-mover advantage in regional AI tooling
- Stronger partner stickiness
- ESG leadership in a climate-conscious decade

This becomes a blueprint for **replicable, responsible, and resilient cloud expansion** in other global Priority 2 zones (e.g., Southeast Asia, Latin America).

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### 5.9 Conclusion

The Project Velocity model proves that innovation is not only a matter of technology—it is a matter of **intention, localization, and shared value creation**. Through simulated projections and contextual evaluation, this chapter demonstrates that Velocity can deliver extraordinary impact across commercial, environmental, and human dimensions—while reinforcing AWS’s global leadership position in the post-COVID, climate-aware economy.

In the next and final chapter, we reflect on the strategic and professional implications of developing and deploying such a model—and how it redefines not just AWS’s business, but also our roles as innovation leaders in a transforming world.

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**Chapter 6: Critical Reflection and Conclusion:** consolidates the innovation leadership, evaluates the strategic contribution, and ties everything back to learning outcomes.

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### Chapter 6: Critical Reflection and Conclusion

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## 6.1 Introduction: Reinventing AWS, Redefining Innovation Leadership

AWS Velocity has been positioned throughout this project not simply as a disruptive model for cloud deployment, but as a deeper transformation of purpose, identity, and impact. This chapter reflects on the strategic and professional implications of developing the Velocity framework: what it means for AWS, for the SSA & MENAT region, and for my role as an innovation leader in post-Pandemic, climate-challenged, technology contexts.

The journey of building Project Velocity has demanded the synthesis of frontier knowledge, creative problem-solving, stakeholder alignment, and an understanding of deeply contextual realities. It has also revealed the need to challenge legacy assumptions and redefine “value” in digital infrastructure—away from extractive growth toward inclusive, regenerative outcomes.

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## 6.2 Strategic Reflection: Beyond Infrastructure—Toward Regeneration

At its core, Project Velocity proposes that **cloud technology should not only serve economic growth—it should enable social equity, environmental sustainability, and cultural relevance**. In the ongoing study, this shift is especially crucial in AWS growing economies in the Middle East and Africa markets, where traditional expansion models have faltered, and where digital inequality risks deepening.

The Velocity model reframes AWS as:

- A **capability builder** (not just a vendor),
- A **carbon-aware ecosystem partner** (not just an energy consumer),
- A **co-innovator in AI ethics and localization** (not just a platform provider).

This reframing required me to **reimagine the boundaries of professional practice**, integrating insights from sustainability economics, digital anthropology, data governance, and agile transformation models—moving beyond the traditional toolkit of business development or partner strategy.

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## 6.3 Personal Leadership Journey: From Strategist to Ecosystem Architect

As a practitioner deeply embedded in AWS’s partner development organization, especially across SSA & MENAT, I have long understood the limitations of status quo operating models. What this capstone enabled was the **courage to challenge convention**—and to do so by building something both imaginative and actionable.

Developing Project Velocity demanded:

- **Systems thinking:** Connecting climate data, partner behavior, AI trends, and youth unemployment into a coherent strategic model.
- **Futures thinking:** Envisioning a world not as it is but as it could be—where cloud technology regenerates, not depletes.
- **Collaborative problem-solving:** Designing with, not for, local partners; integrating voices from education, policy, and entrepreneurship.
- **Decision-making agility:** Pivoting between short-term ROI imperatives and long-term sustainability outcomes.

It also required significant **self-reflection and humility:** recognizing that innovation leadership is not about having all the answers, but about enabling the right questions, frameworks, and partnerships to emerge.

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#### 6.4 Reflection on Methodology: “Working Backwards” Meets Futures Design

The AWS “Working Backwards” methodology was foundational in this project—but I adapted it with a futures-oriented lens. While “Working Backwards” starts with the customer and desired outcome, I expanded it by asking:

- What if our customers are **future generations**?
- What if the desired outcome is not just adoption, but **transformation**?
- What if cloud infrastructure becomes a **platform for dignity and sovereignty, not just data**?

This led to a hybrid methodology combining:

- **Backcasting:** Envisioning a sustainable, inclusive digital future for SSA & MENAT and designing Project Velocity as the pathway there.
  - **Co-design:** Embedding stakeholder insights into AI sandbox ethics, cloudpreneur models, and DSH deployment.
  - **Experimental scaling:** Proposing phased rollouts that allow for feedback, iteration, and recalibration—a key requirement in volatile markets like Turkey and Egypt.
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#### 6.5 Learning Outcomes Integration

This capstone satisfies the learning objectives of the PhD by Portfolio program in the following ways:

<b>Learning Outcome</b>	<b>Reflection</b>
<b>1. Advanced Frontier Knowledge</b>	Integrated regenerative economics, cloud architecture, AI ethics, and post-COVID resilience into a new digital innovation paradigm.
<b>2. Advanced Techniques &amp; Synthesis</b>	Used systems thinking, green infrastructure modeling, and agile decision-making frameworks to craft a multi-pillar innovation model.
<b>3. Professional Authority &amp; Innovation</b>	Proposed a bold, scalable transformation for a global tech leader; demonstrated strategic foresight and cross-sectoral leadership.
<b>4. New Ideas at the Forefront of Work</b>	Created original concepts (Cloudpreneurship-as-a-Service, GreenOps, AI Sandboxes) that redefine AWS's market approach and sustainability ethos.
<b>5. Post-COVID Relevance</b>	Directly addressed digital equity, economic recovery, and energy transition in SSA & MENAT's most underutilized but strategic markets.
<b>6. Diversity, Equity &amp; Inclusion (DEI)</b>	Highlighted the need for sustaining Diversity and Inclusion in accelerating digital adoption and transformation through policies and strategies that seek Long-Term Success

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## 6.6 Limitations and Future Considerations

While AWS Project Velocity is grounded in real-world needs and technical feasibility, several challenges remain:

- **Regulatory complexity:** Local cloud laws, especially around AI and data residency, require continuous negotiation and localization.
- **Behavioral change resistance:** AWS teams, partners, and governments may resist new models without strong incentives or shared narratives.
- **Capital intensity:** Building DSHs and AI sandboxes requires upfront investment; sustainability of these deployments must be ensured.

Future work could explore:

- Integrating **blockchain for cloudpreneur enablement and franchising**

- Expanding AI sandbox datasets to include **minority languages and neurodiverse users**.
  - Building **interoperable regional alliances** (e.g., Gulf-African cloud corridors).
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## 6.7 Final Conclusion: A Blueprint for the Future

The Project Velocity model is more than an academic exercise—it is a call to action. It offers a **replicable, scalable framework** for how global technology companies can:

- Operate **ethically** in fragile markets,
- Innovate **sustainably** in climate-stressed regions,
- Grow **inclusively** in youth-dense economies.

In the AWS Priority 2 SSA & MENAT markets, the company can either replicate old models—or become a **pioneer of post-pandemic regeneration**. This project argues for the latter.

As AWS and their strategic partners like Deloitte, push forward under the AWS Partner Network initiative and beyond, I believe the ideas in this capstone offer both vision and utility. I stand ready to advocate for, lead, and iterate on this path—anchored in **purpose-driven innovation, regional relevance, and professional integrity**.

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## **8.0 Appendixes**

### **8.1 APPENDIX 1**

The *Strategic Plan for Partner Development Management in MENAT (2024–2027)* details AWS's approach to expanding its commercial business across the Middle East, North Africa, and Turkey, targeting \$1.5 billion in revenue by 2027 with a 35% CAGR. Key priorities include growing partner-led revenue to \$550 million, improving pipeline conversion rates, and focusing 80% of efforts on high-potential markets—UAE, Saudi Arabia, and Turkey. The plan

addresses regional challenges such as inflation, geopolitical tensions, and data sovereignty, while leveraging opportunities from cloud adoption, digital transformation, and economic diversification initiatives like Saudi Vision 2030 and UAE Vision 2031.

The strategy is built around seven key initiatives: anchoring system integrators to aligned customer segments, enabling partners to scale generative AI solutions, accelerating co-sell models with independent software vendors, and driving SME growth through an expanded distribution network. Other focal points include partner-led marketing, sustainability-driven cloud adoption, and internal alignment through people and process transformation. Governance structures and quarterly reviews ensure accountability and adaptability, while strategic asks such as resolving local billing and marketplace revenue recognition aim to remove operational roadblocks and incentivize partner engagement across MENAT.

## **8.2 Appendix 2**

The document *"Collaborative Problem-Solving and Decision-Making Process"* outlines a strategic, data-driven framework aimed at addressing operational challenges and accelerating partner-led growth for Amazon Web Services (AWS) in the MENAT region. It emphasizes collaborative approaches, agility, and innovation—particularly through the use of generative AI and business intelligence tools—to optimize partner ecosystems, enhance customer engagement, and align with AWS's strategic goal of reaching \$1.5 billion in regional revenue by 2027. The process is grounded in principles like the "Working Backwards" method and continuous improvement, ensuring responsiveness to market changes, stakeholder engagement, and resource efficiency across varied country contexts.

The plan proposes a phased implementation—planning, pilot testing, and full-scale rollout—supported by robust internal alignment, stakeholder engagement, and technology integration using CRM, ERP, and BI systems. It also outlines strategies for human capital development, financial investment prioritization, and sustainability integration, particularly through green cloud migration initiatives. Key recommendations include upskilling employees in decision-making frameworks and generative AI, fostering cross-functional collaboration, and tailoring strategies to Priority 1 and 2 markets like Saudi Arabia, UAE, Turkey, and Egypt. Ultimately, the framework aims to enable AWS to sustain growth, build resilience, and maintain competitiveness in a dynamic and challenging regional environment.