Qelem Meda Technologies®

Qelem Meda, Solving African Education Challenges with African Innovation: the EMaCS Experience

August 2025

Addis Ababa, Ethiopia

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Outline

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02 Key challenges in Ethiopia examination system

03 Exam Management system in Ethiopia

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Introduction

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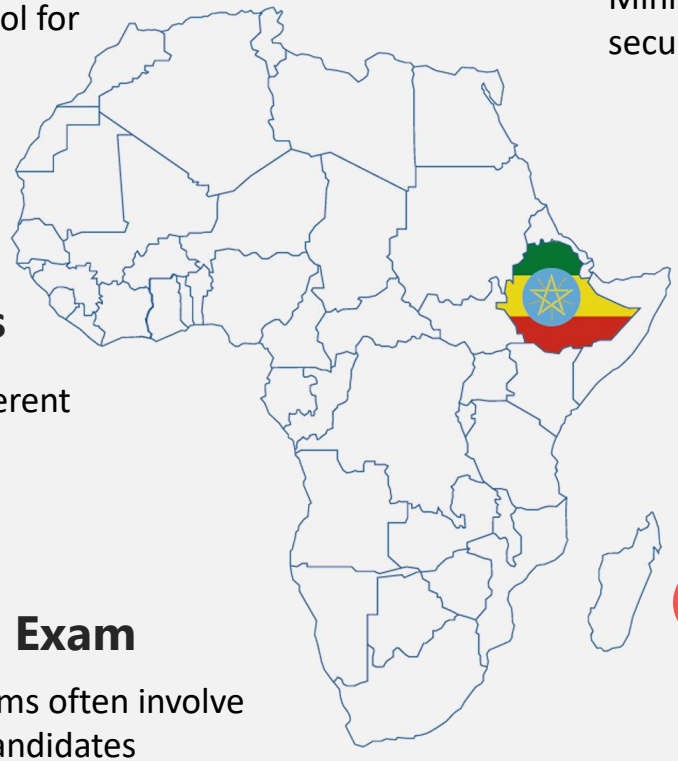
Examination

Exams are the main tool for student progression

Logistic and security

Ministries face logistical and security pressures



Examination challenges

Though it is under reform different challenges (Belay, 2024)

Fairness and credibility

Ensuring fairness and credibility is still difficult

National Exam

National exams often involve millions of candidates

Traditional techniques

Most African countries still rely on traditional, paper-based systems

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Key Challenges

In Ethiopia examinations systems

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Exam Management System in Ethiopia

Alternative Techniques

Used in Ethiopian exam management

1. Manual Techniques
2. Imported system
3. EMaCS

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Comparison in Exam System

01 Manual

- Resource intensive
- Prone to error
- Difficult complaint handling
- Poor reporting and analysis
- Prolonged Time

02 Imported system

- Resource intensive (materials)
- Difficult in error and complaint
- Technological dependence
- Demands Foreign Currency
- Data privacy issues
- Poor Technical Support

03 EMaCS

- Unlimited Technical Support
- No Data privacy issues
- No Foreign Currency
- Implemented for 4 yrs. in full-scale
- Need based and scalable solutions
- Homegrown systems

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Let's make life easier

Established?

- 2012 / 2020

What We done?

- Above 35 Software

Clientele

- 25+ Clienteles

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Global Certification and Recognition

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Award and Recognition

Some of the Awards and Recognitions

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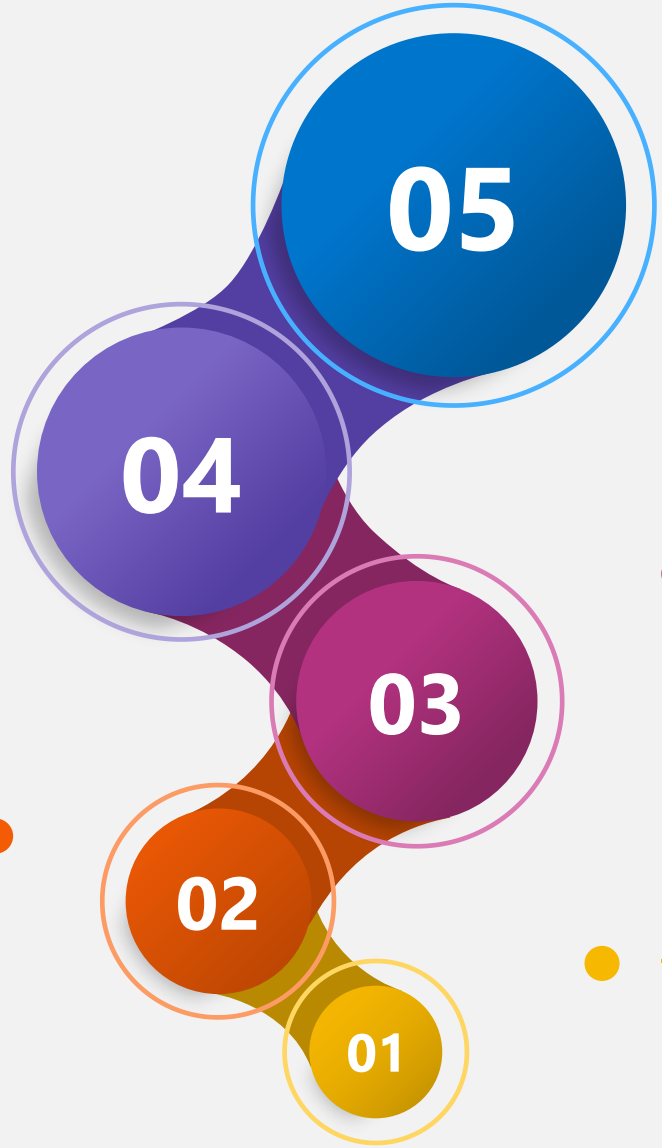
From challenges to Solution(EMaCS)



Homegrown

Africa requires home-grown innovations to solve exam challenges

Credibility and fairness

Technology can restore credibility and fairness in assessment

Public trust in exam results

Secure solutions build public trust in examination results

Equity across diverse regions

Scalable platforms ensure equity across diverse regions

Faster and smarter reforms

Data-driven systems enable smarter educational reforms

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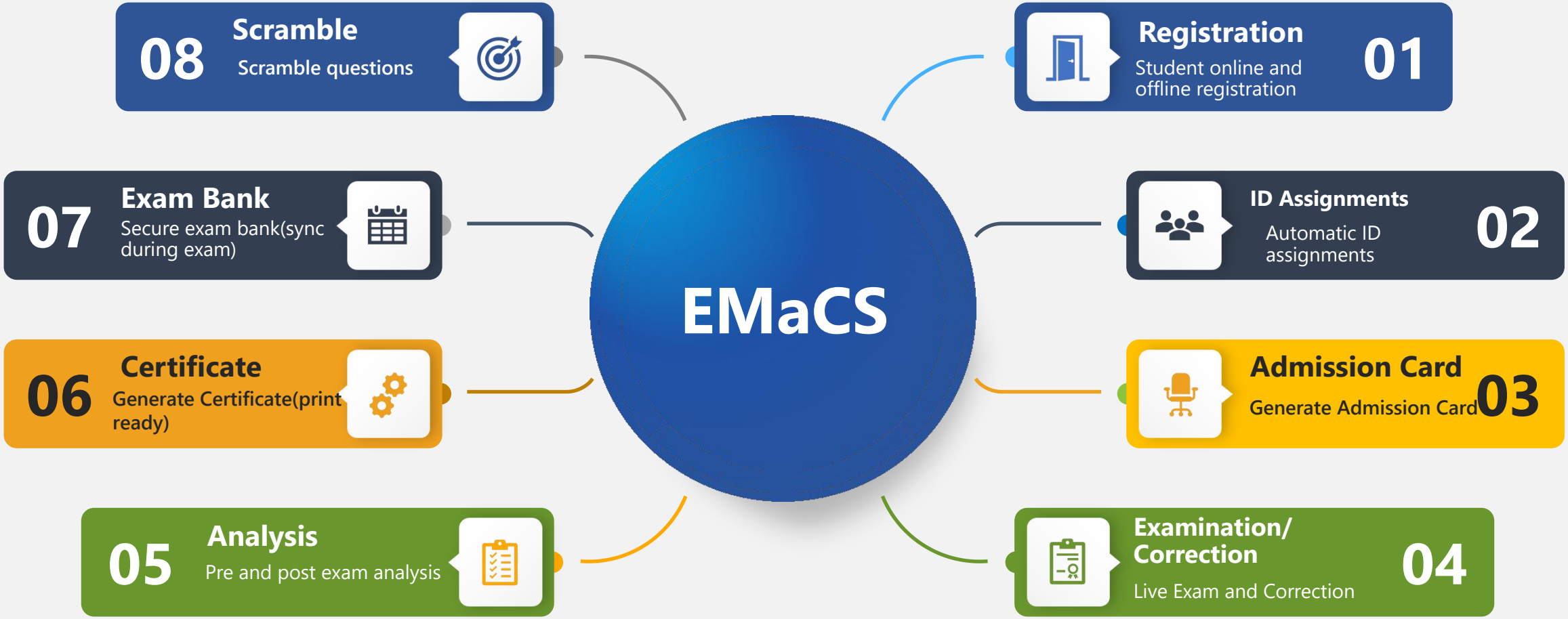
Core Features (Paper-penciled)



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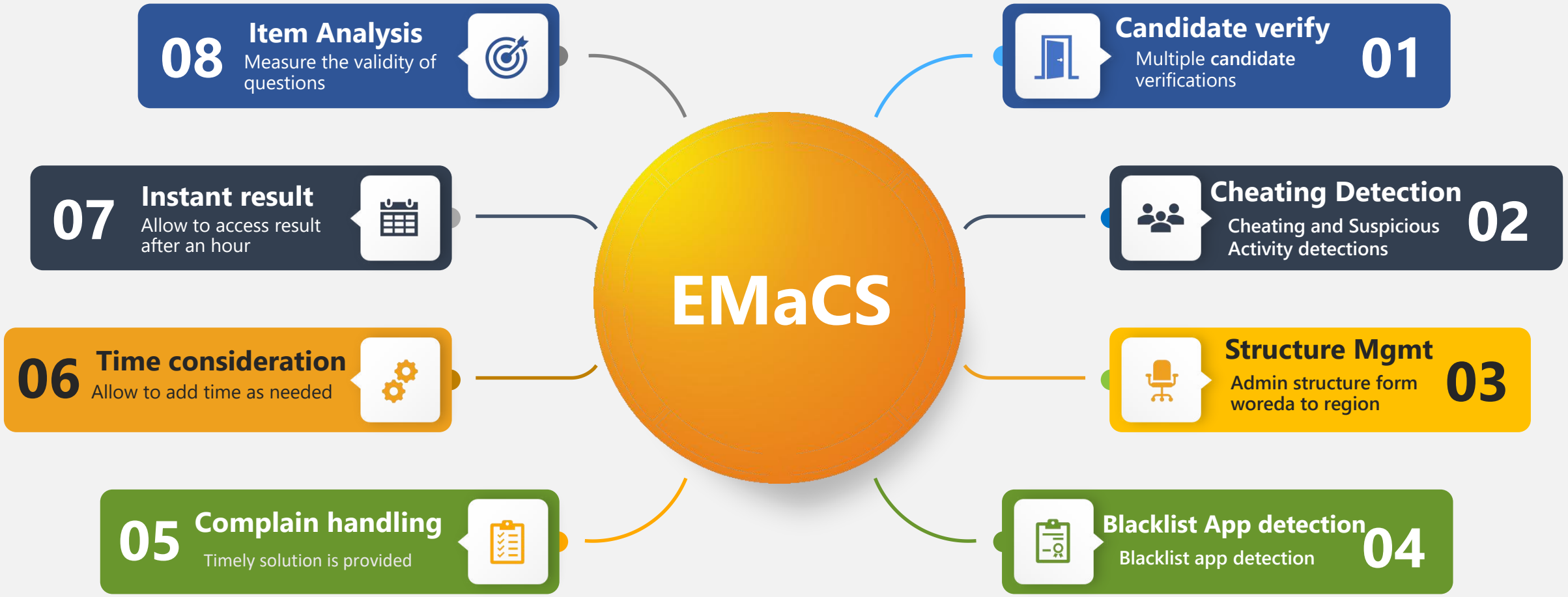
Core Features (Online)



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EMaCS Reaches

EMaCS

4 Years

25K Schools

8m+ students

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Implementation Trend

2020 — 16.7K — 3 woreda

2021 — 16.4K — 3 woreda

2022 — 459K — 2 W +1 region

2023 — 1.5M — 7 Regions

2024 — 2.6M — 11 Regions

2025 — 2.43M — 11 Regions

Registration → Correction → Analysis → Certification

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Our Clients - Education Bureaus

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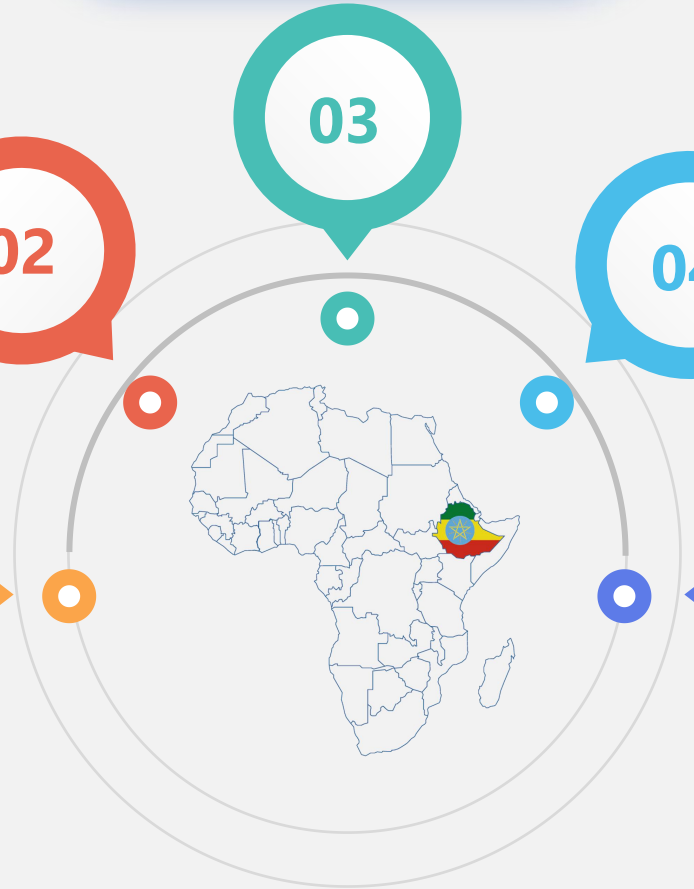
Why EMaCS?

Infrastructure Friendly

Policy-Aligned

Scalable



Adaptable

Proven track record

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Recommendation

INSA

Keep the momentum in conducting instant security audits to ensure ongoing reliability.

MInT

As a key stakeholder MINT can facilitate to deploy o other African countries and beyond.

Recommendations

MoE

Recommending the system to other African countries

Other Partners

Educational Institutions: Train staff and incorporate feedback for improvement.

Thank You!

Call Phone; +251 995010202/+2519 49373839
Email: qelemmeda@gmail.com/
contact@qelemmeda.com
Website: qelemneda.com

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