

Towards Seamless Global Learning:
A Blockchain-Enabled Credit Transfer Framework
to Foster Equity and Mobility

WTUC 2025

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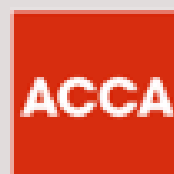
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Global Inequalities in Education:

Access Barriers for
Disadvantaged Learners

Impact of Global Crises

Challenges in Higher Education
Systems

Need for Borderless Education

Towards Seamless Global Learning: Why Now?



123.2 million people were
forcibly displaced at end-2024



~6,000 attacks on
education occurred in
2022–2023, ~20% more
than 2020–2021



Refugees in higher
education reached 7% in
2023 (up from 1% in 2019)



Barriers to Cross-Nation Credit Mobility



Inconsistent Credit Transfer Systems



Lack of Trustworthy Recognition



Exclusion of Marginalized Groups



Disconnected Online Courses



Vision



Earn, move, validate, and stack credits across institutions and borders



Verifiable, privacy-preserving digital credentials



Ministries, QA agencies, and accreditors operate a permissioned network

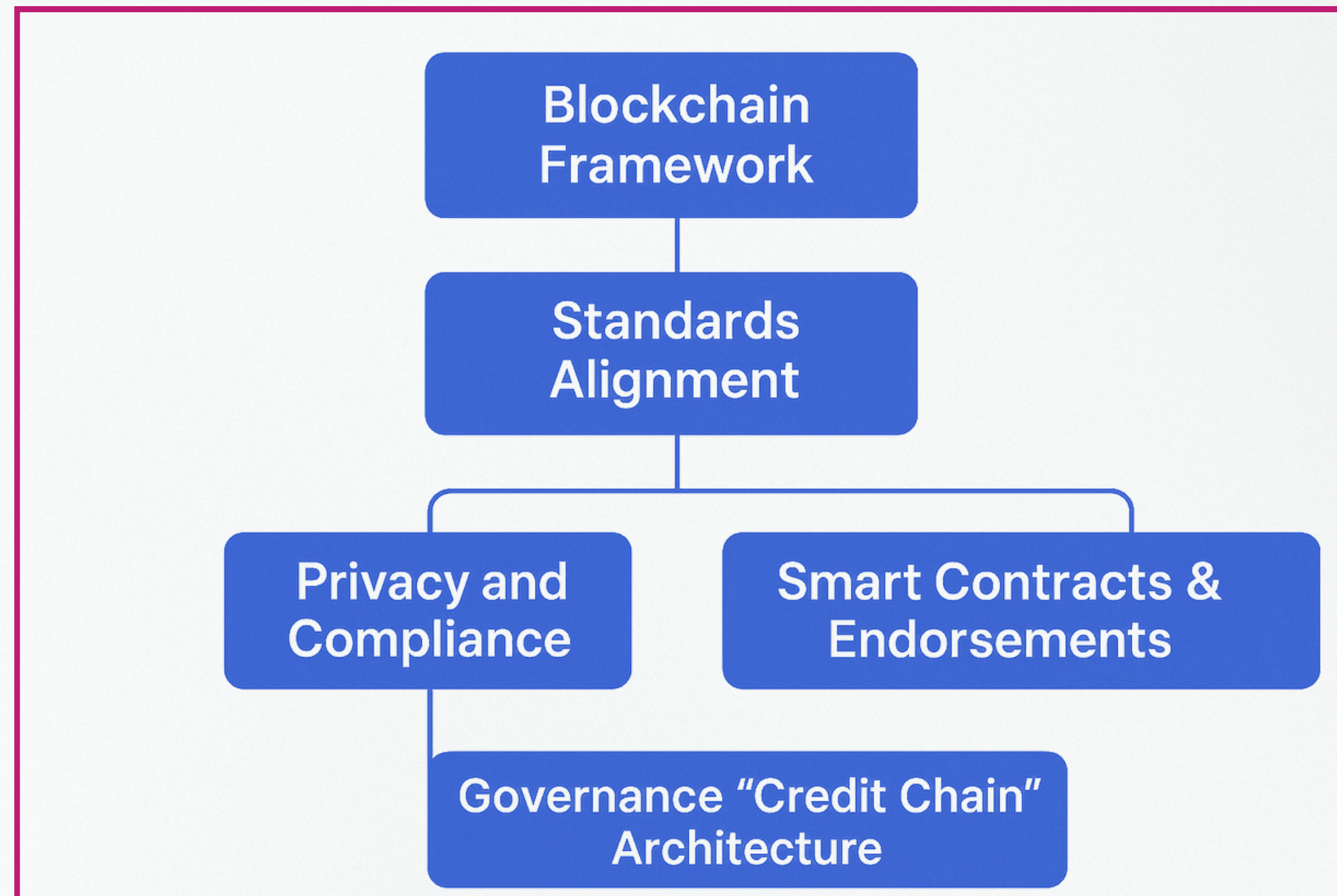


Crisis-ready: Emergency Recognition Authority (ERA) reconstructs credits

Benchmarked Policies, Standards and Frameworks

- Lisbon Recognition Convention: focusing on Europe
- ESG for QA in EHEA; QAA Credit Framework; CHEA in the U.S
- ECTS (credit transfer/accumulation), EQF (levels),
- Academic Bank of Credits, India

“Credit Chain” Architecture

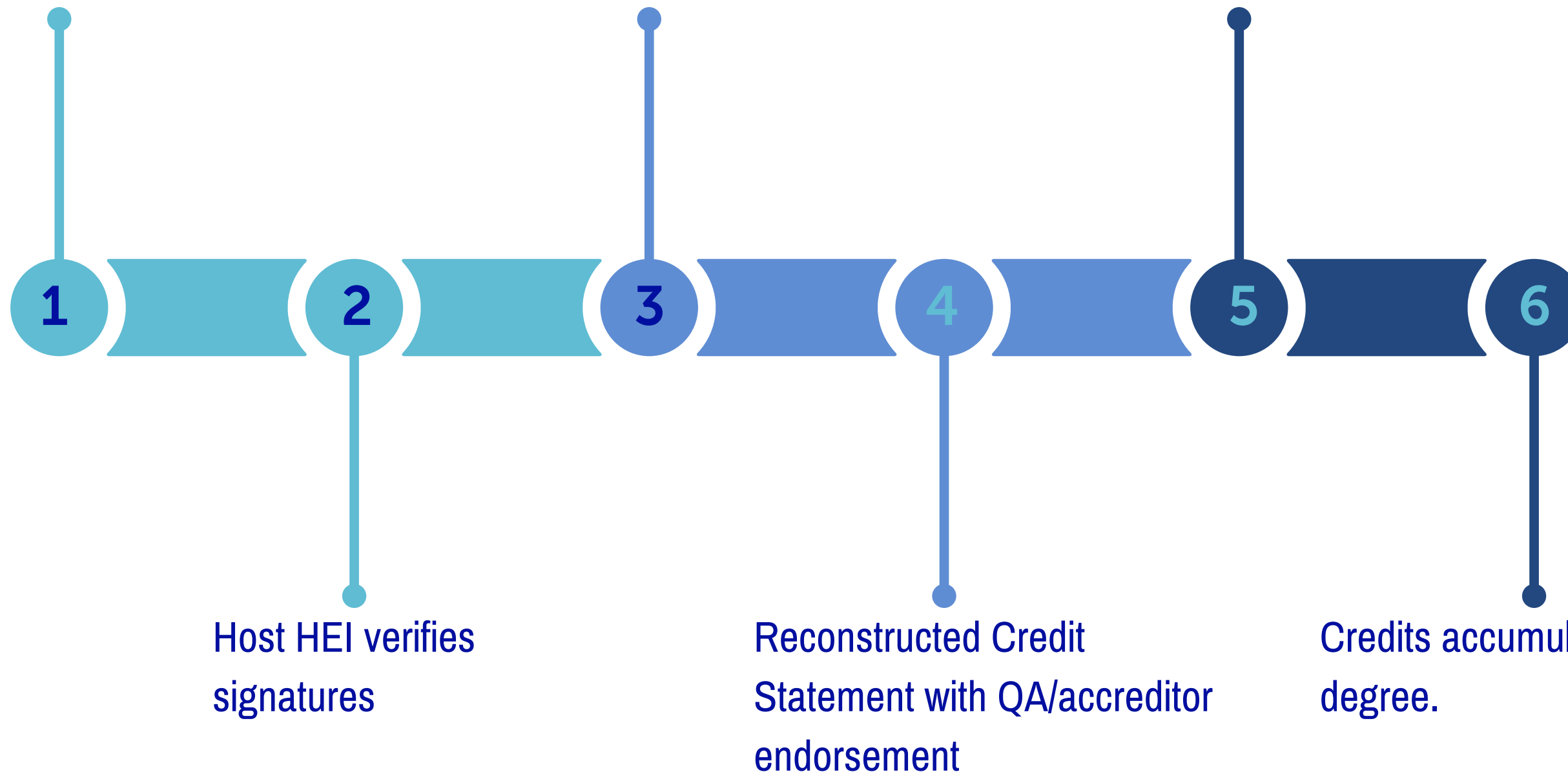


Credit Chain: Initial Framework

Student keeps credentials
in wallet or requests
retrieval/reconstruction.

Governing body to
evaluate evidence

Host HEI
endorsements





Why WTUN and Global South Participation

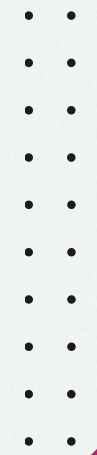


Global Collaboration Platform

Shared Vision for Technological Impact

Diverse Expertise and Resources

Sustainable and Ethical Innovation



"The best way to predict the future is to *create it*."
– Let's create a future of academic and industry synergy together.



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