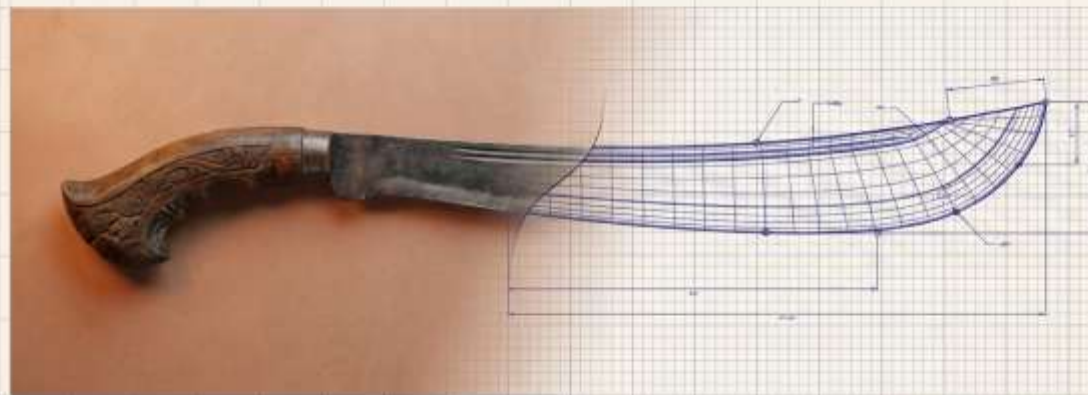


Digital Heritage Blueprint: Participatory 3D Scanning in Kabuyutan Batukarut

Demystifying customary Sundanese values through empirical digitization and immersive archiving.



Fajar Sadika & Putu Raka Setya Putra, Telkom University

Presented by:

Fajar Sadika

Affiliation:

Telkom University

Indonesia



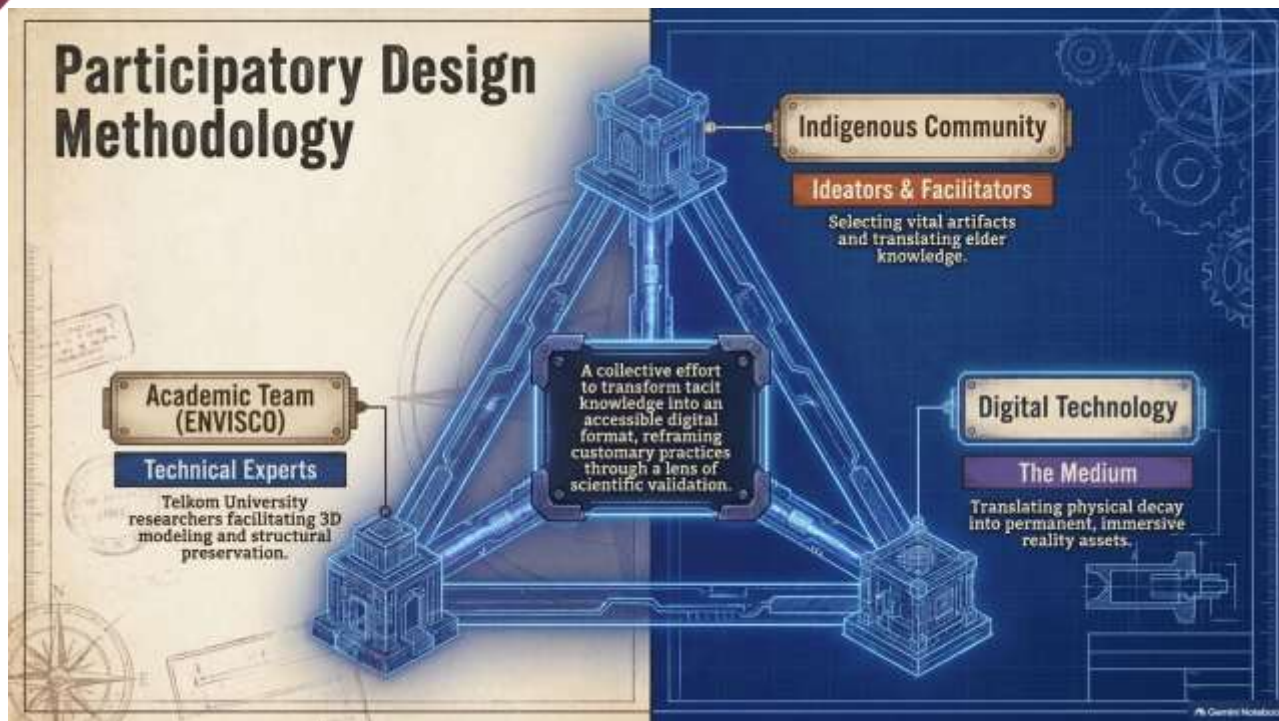
Presented by:

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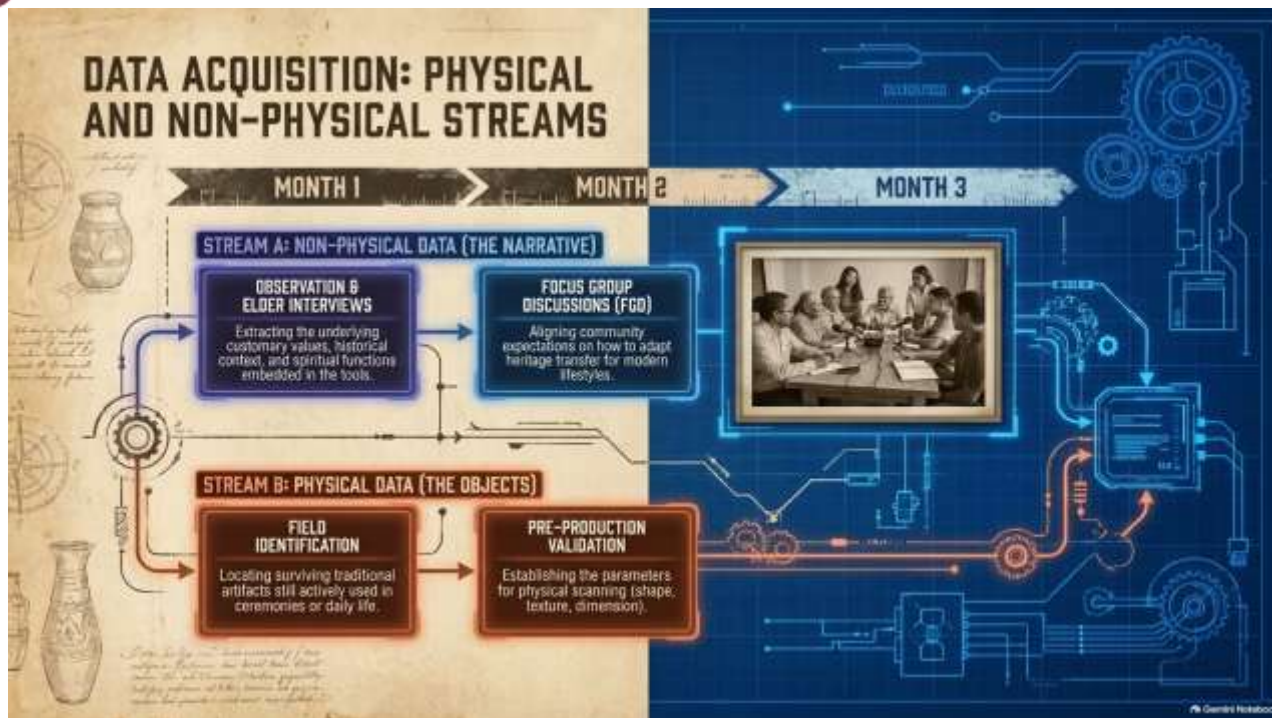
Presented by:

Fajar Sadika

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Telkom University

Indonesia

Artifact Mapping: The 7 Surviving Traditional Tools



Goong Renteng
Honors the Prophet

Music



Golok
Respecting nature; cutting
only what is needed

Agriculture



Etem
Harvesting ripe rice strands;
coexistence

Farming



Pabeasan
Storing rice; symbolizing
ownership based on need

Domestic



Dogdog
Harvest celebration (*Silih asah*)

Music



Angklung Buncis
Harvest celebration (*Silih asih*)

Music



Wayang Serok
Storytelling medium (*Silih asuh*)

Performance

Presented by:

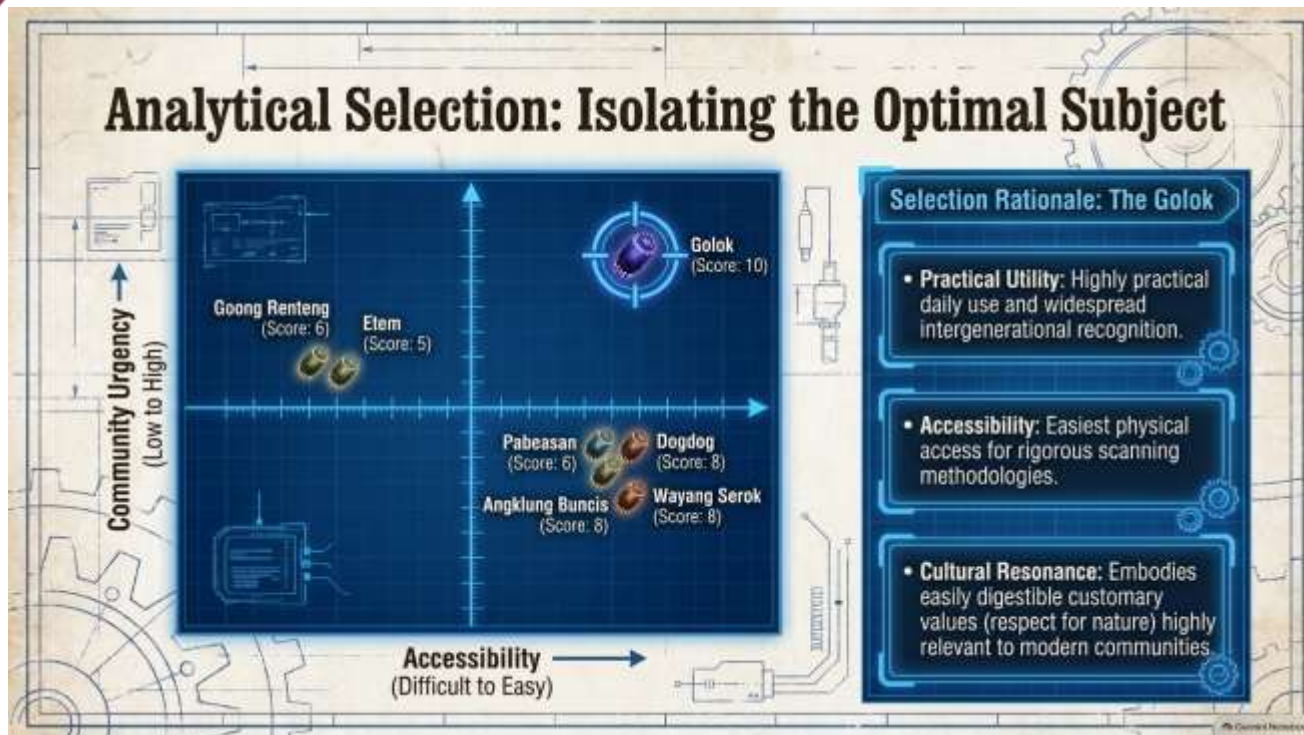
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Analytical Selection: Isolating the Optimal Subject



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Phase 1: Dual-Capture Raw Data Acquisition

Photogrammetry (Surface Texture)



Method: Macro-photography using smartphone camera lenses.

Purpose: High-fidelity capture of complex material textures (wood grain, metal patina) that infrared sensors struggle to read.

3D Infrared Scanning (Spatial Geometry)



Method: Dedicated 3D scanning hardware utilizing infrared light projection.

Purpose: Millimeter-precise capture of the physical mesh, volumetric data, and topographical dimensions of the artifact.

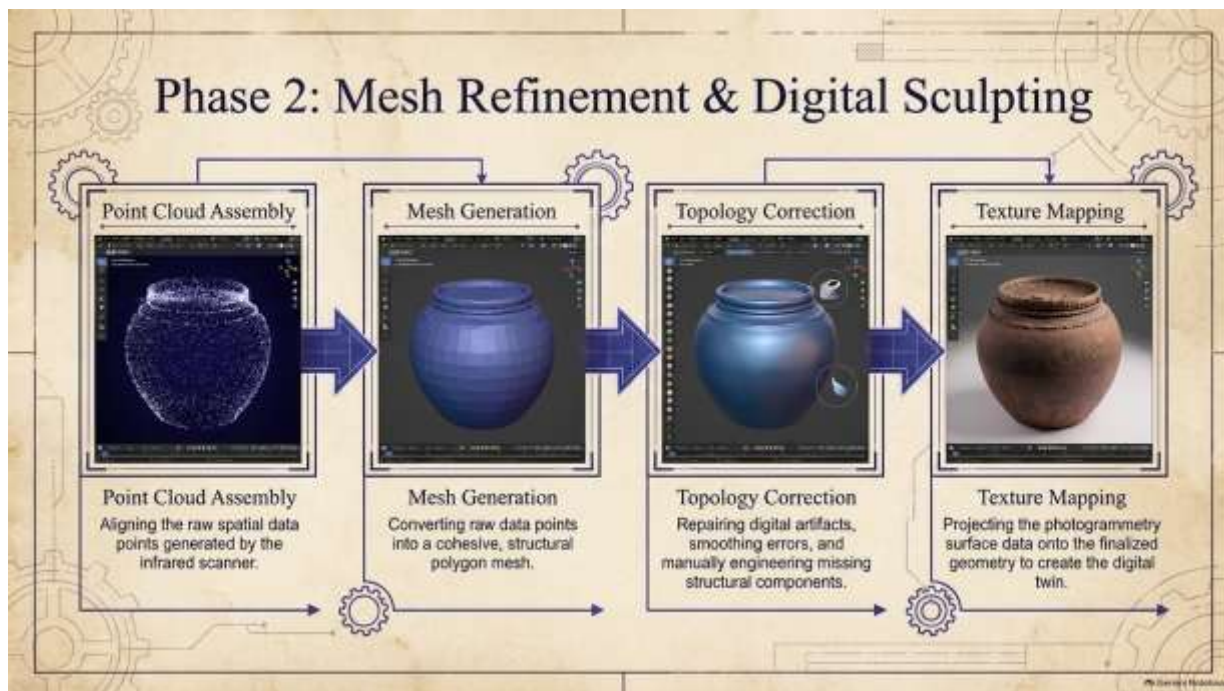
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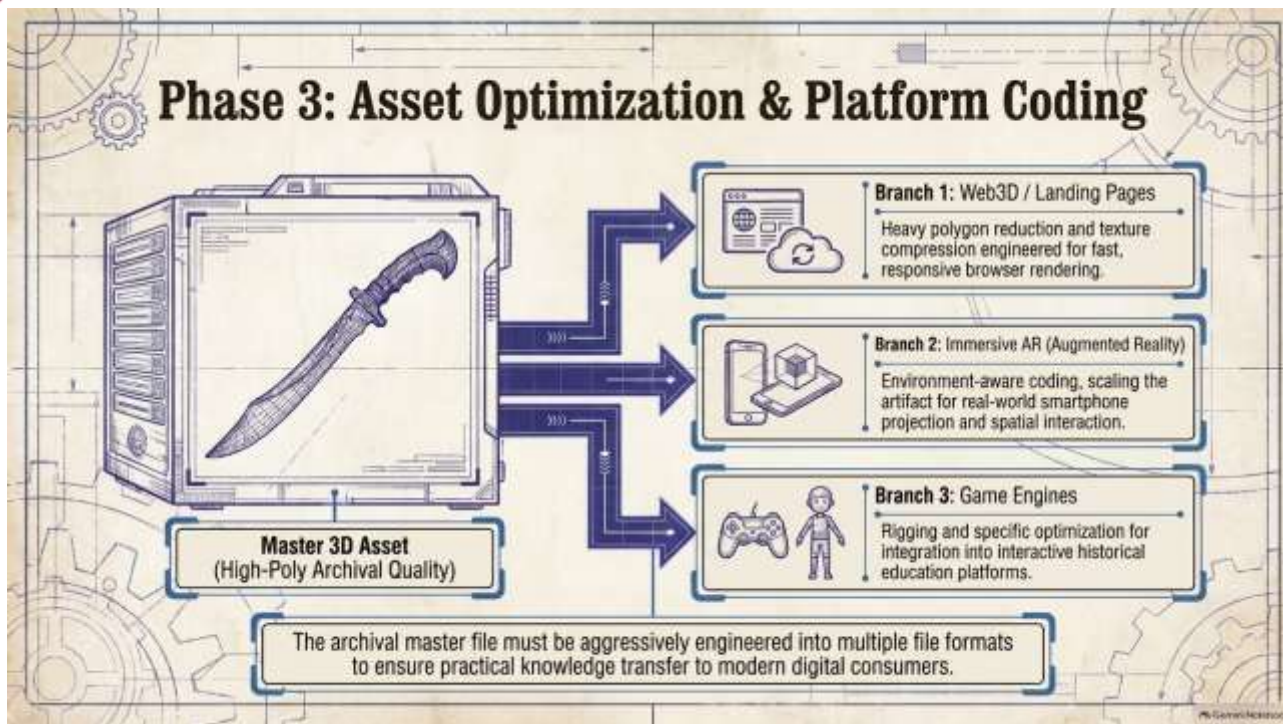
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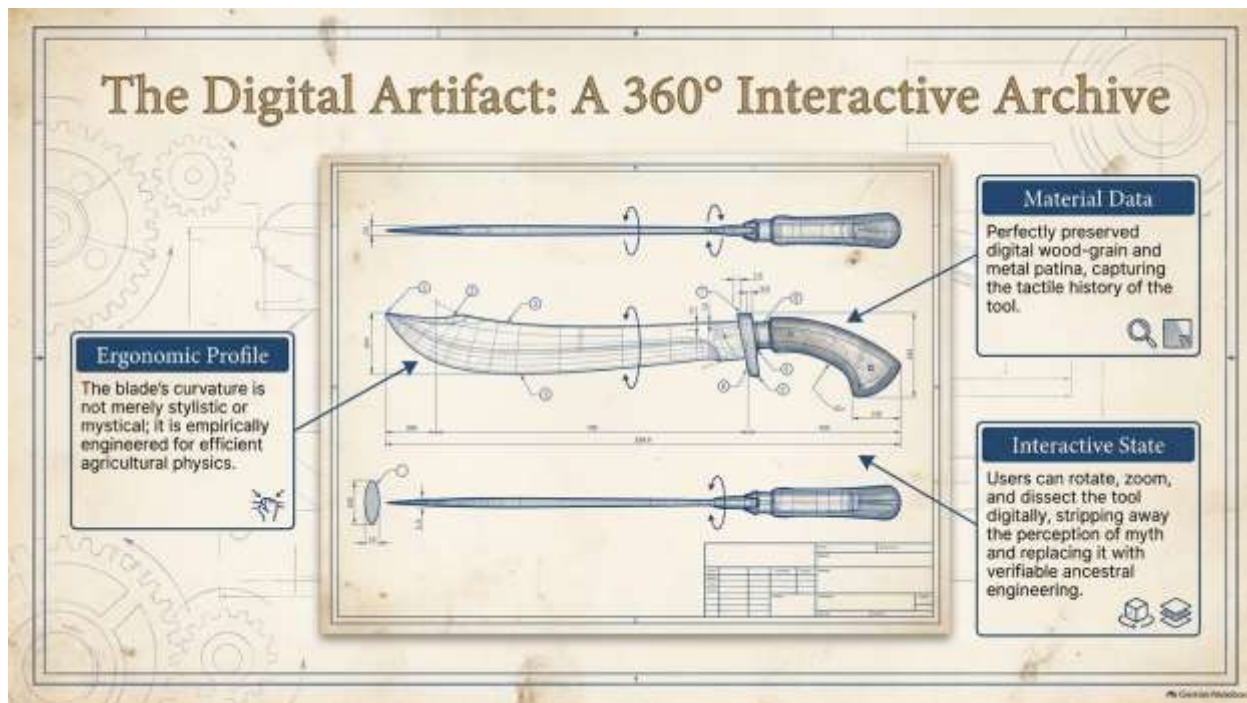
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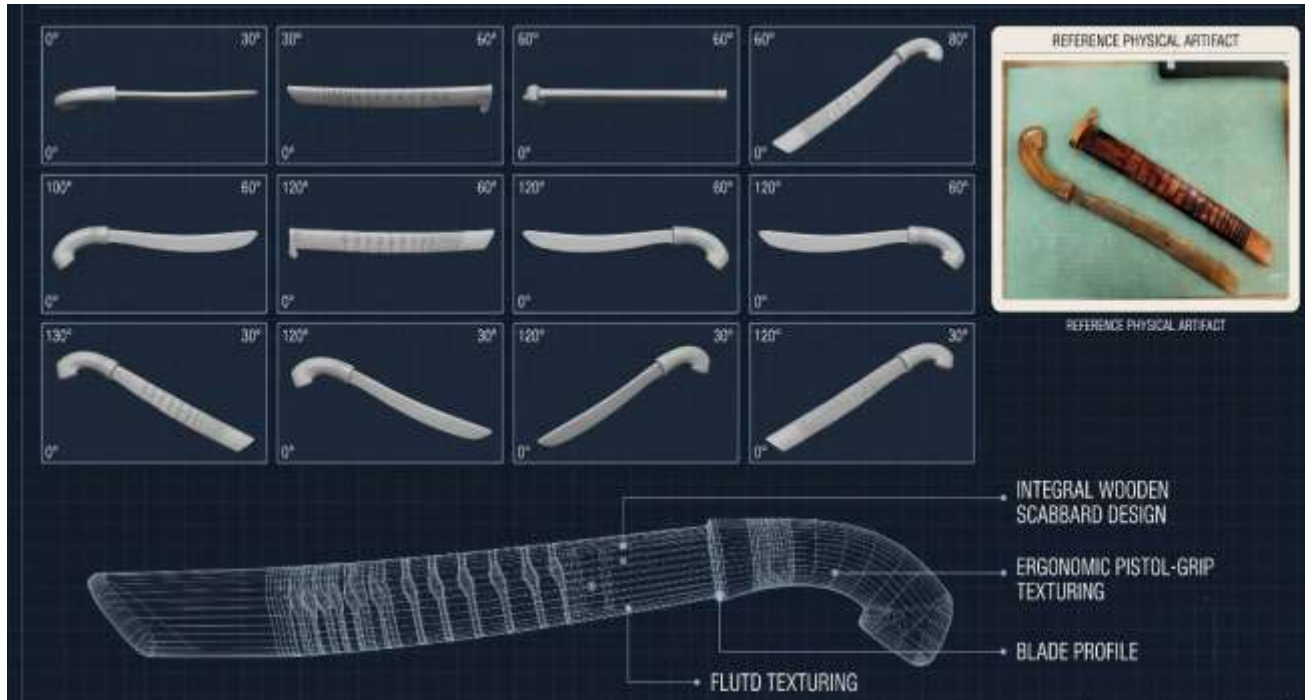
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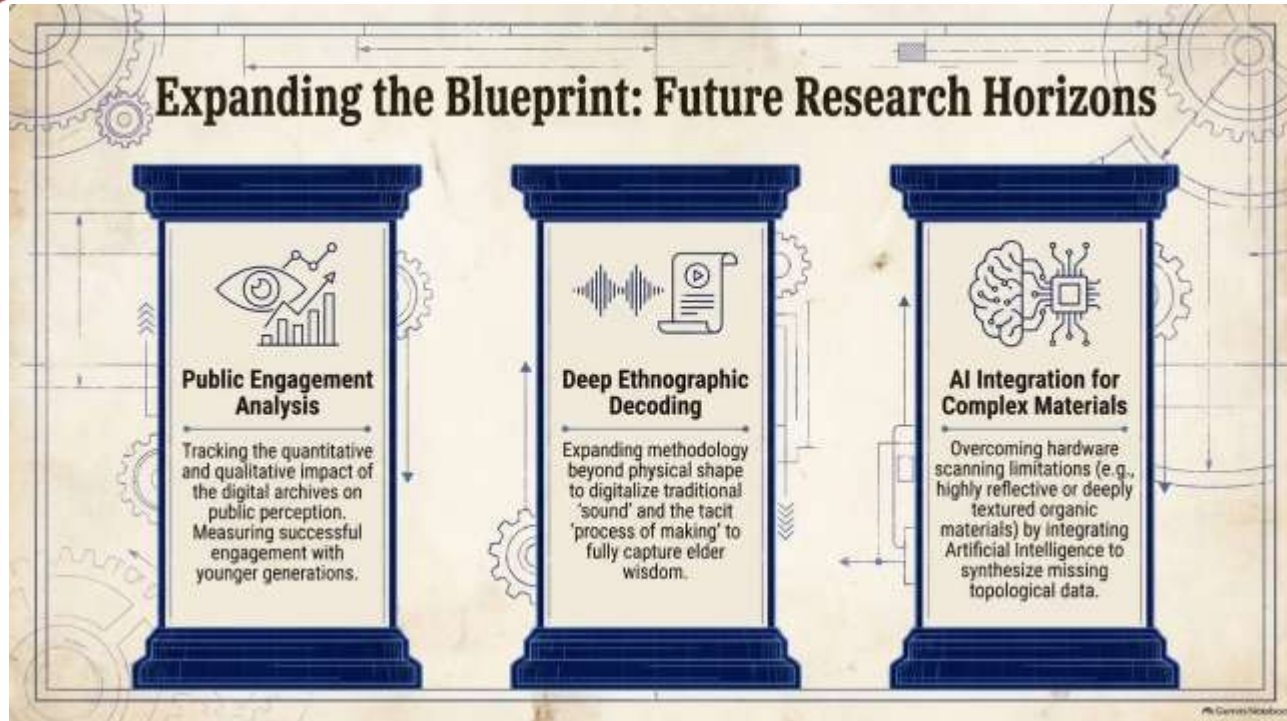
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Thankyou

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