Produce Smarter, Consume Wiser- Enabling Responsible Food Systems in The Netherlands

Technology

Organization

Environment (Social, Infrastructure & Policy)

Food Flow

Source: https://kenniskaarten.hetgroenebrein.nl/en/knowledge-map-food-sustainability/dutch-food-system/; Tornatzky and Fleischer (1990)

Monetary Flow

Stakeholder Engagement

01

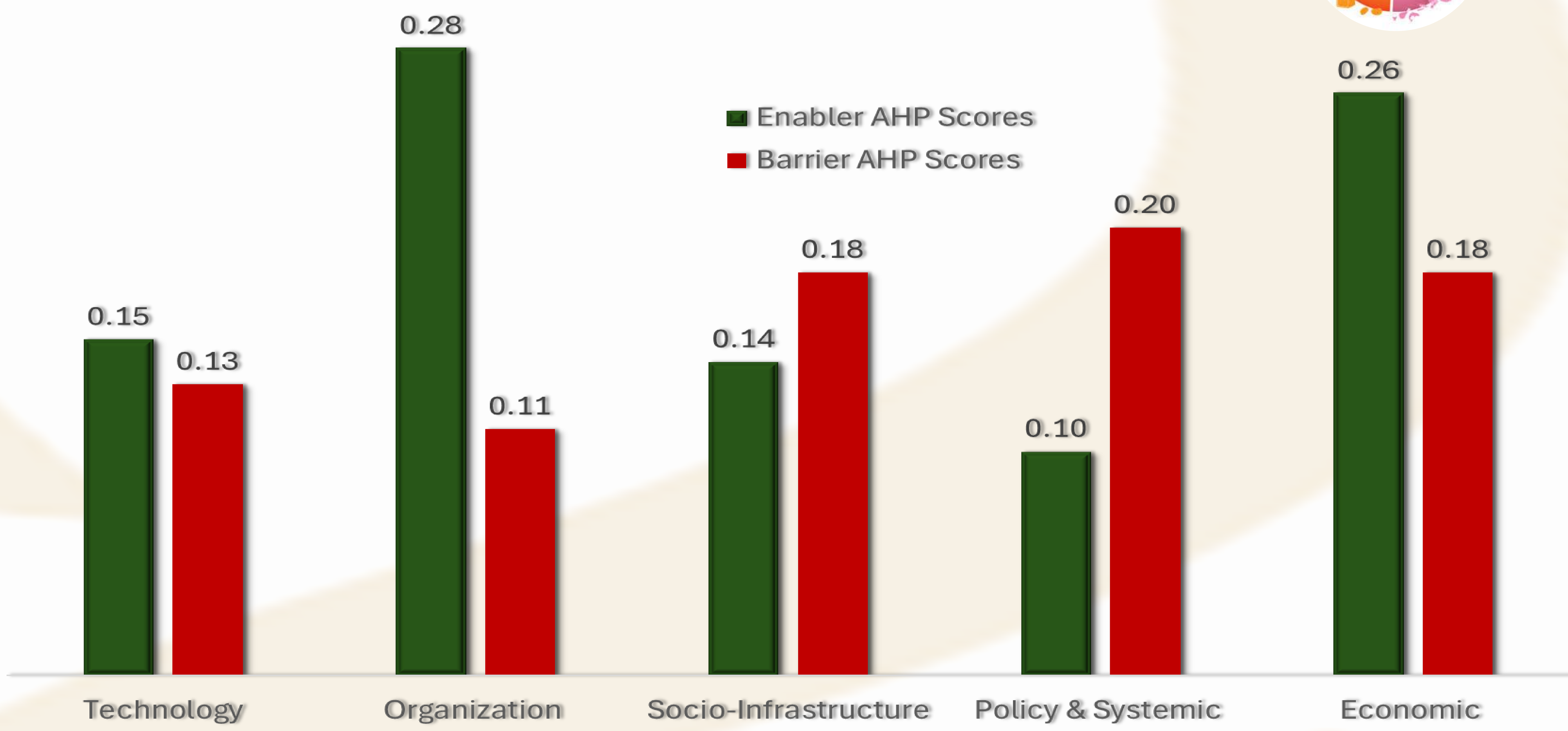
Sample Universe

02

Communication Strategy

03

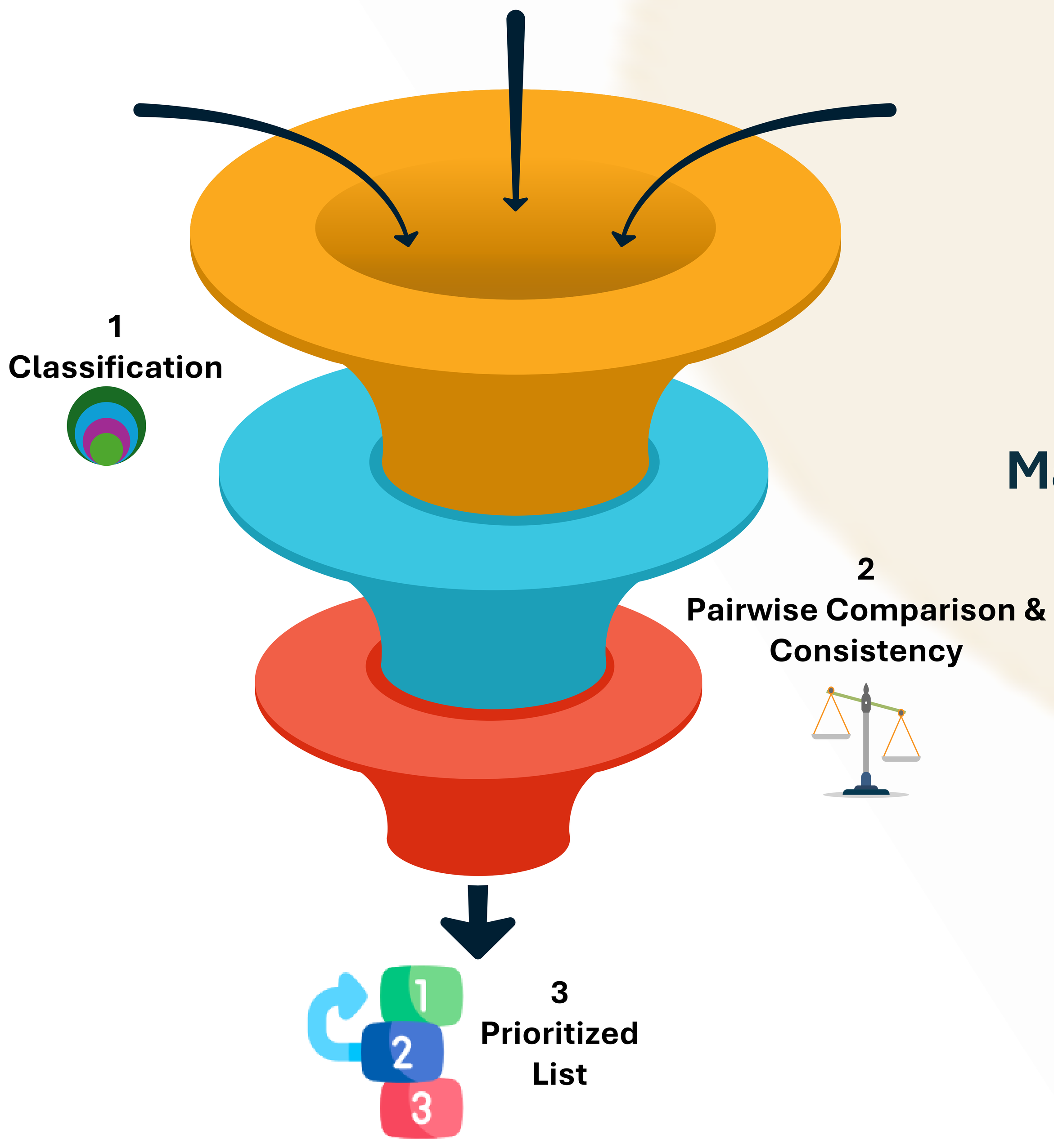
Participant Recruitment



Derived from a multi-stakeholder AHP survey (n=12 experts; 700 enabler comparisons). Analysis supported by consistency ratio < 0.1.

While Policy is essential for direction, Organizational alignment and Economic feasibility determine action.

AHP- 700 Enablers



Calls To Action

1

Shift incentives from quantity to quality production

2

Make organizations the backbone of the sustainability transition

3

Use technology to connect sustainable intent and results

4

Reward footprint reduction, not output inflation

In **the Agent-Based Model**, agents (producers, firms) shift strategies from volume-driven to value-driven production under economic and organizational enablers

Life Cycle Analysis evaluates footprint reduction metrics (CO_2, energy, water) across production–consumption loops

Statistical Package for Social Sciences links these LCA outputs with economic enablers to identify incentive structures that reward environmental efficiency rather than sheer production volume, **aligning directly with SDGs 3 & 12**

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