

13th Annual International Forum on Economic
Development and Public Policy

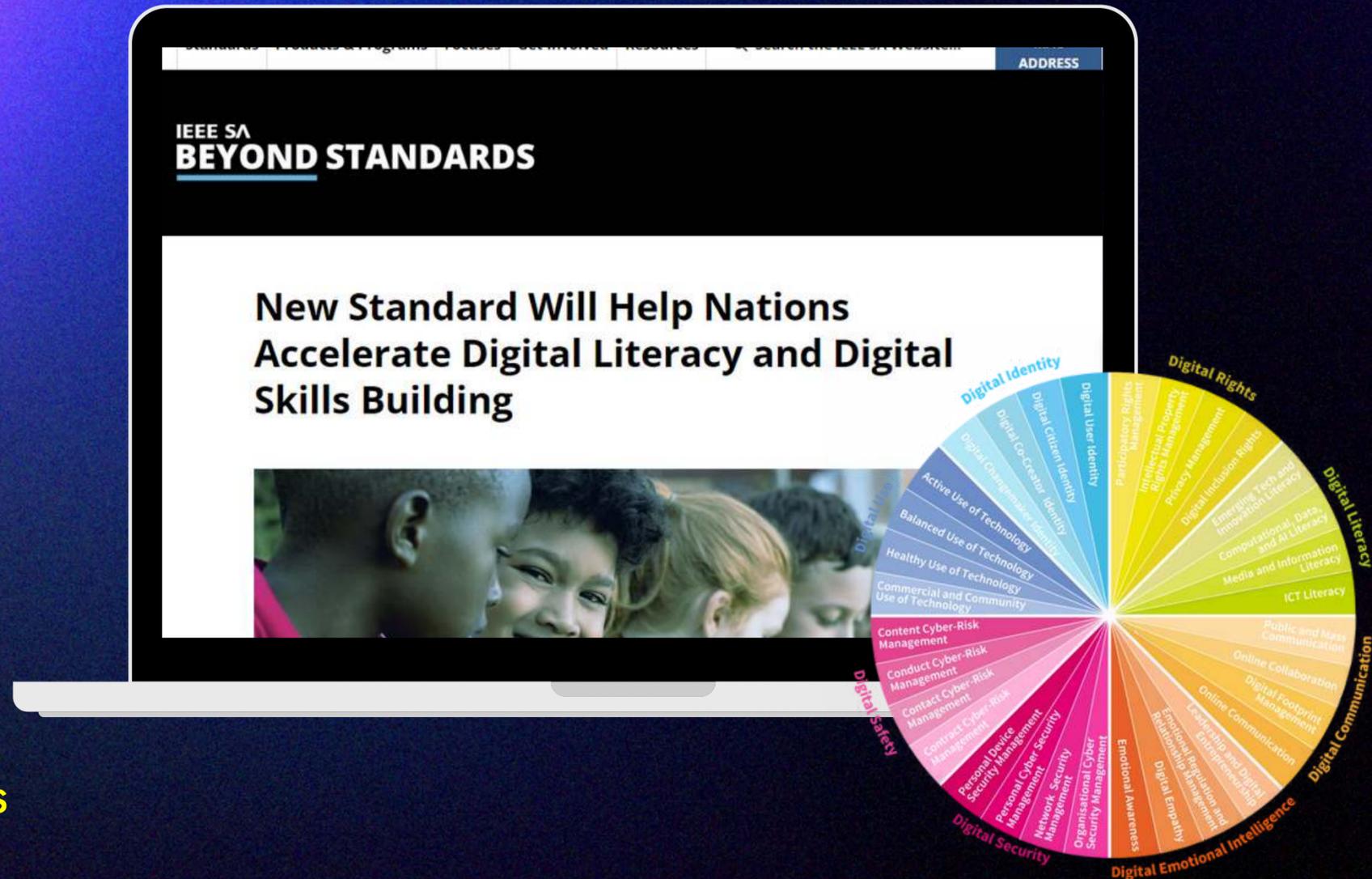
DIGITAL SKILLS FOR GREEN DIGITAL ECONOMY

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DQ

IEEE Global Standards for Digital Literacy, Digital Skills, Digital Readiness (IEEE3527.1™)

Used and Referenced by 100+ Countries



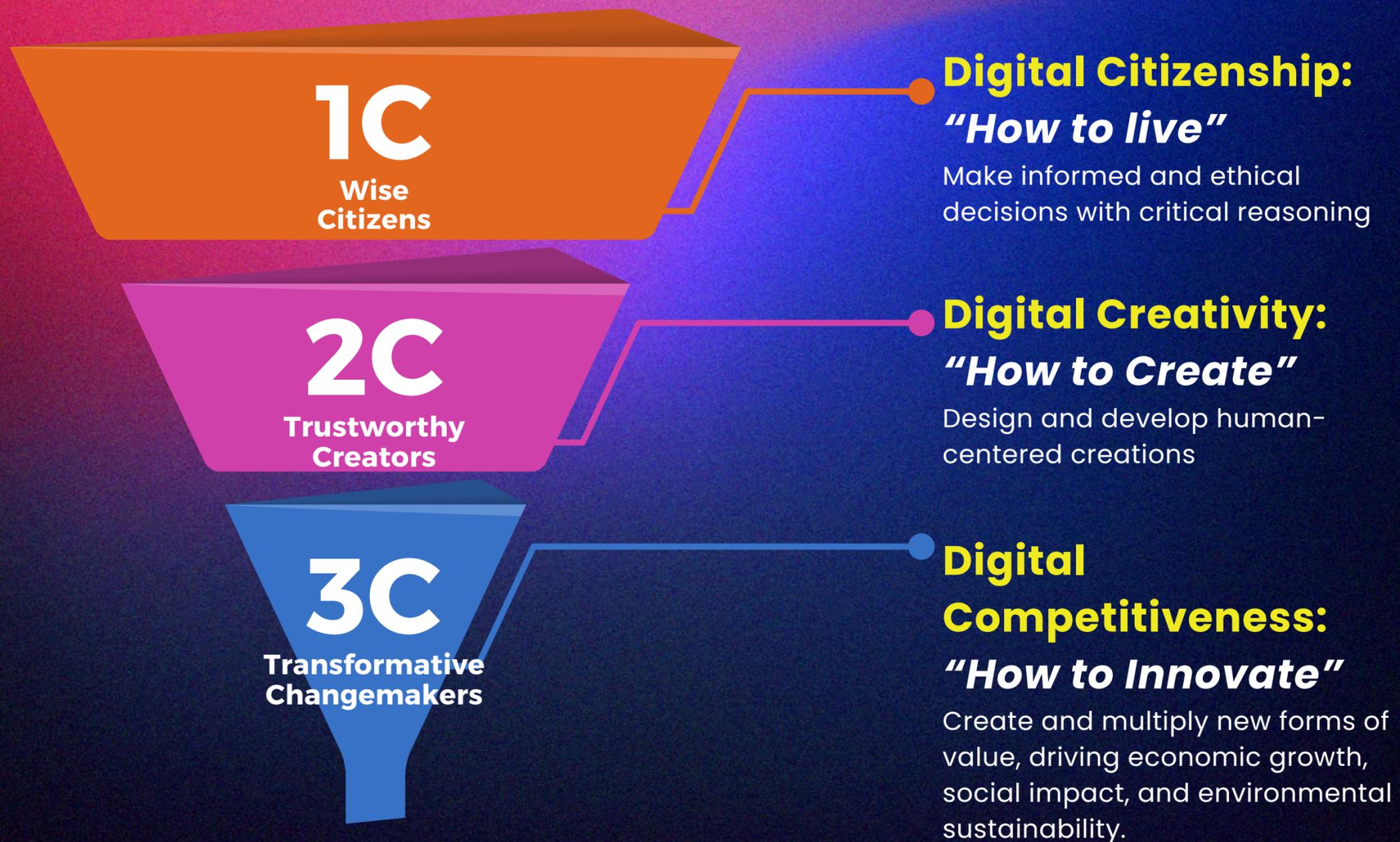
The image shows a laptop screen displaying a webpage from IEEE SA. The page title is "IEEE SA BEYOND STANDARDS" and the main headline reads "New Standard Will Help Nations Accelerate Digital Literacy and Digital Skills Building". Below the headline is a photograph of a group of diverse children looking at something off-camera. To the right of the laptop, there is a circular diagram representing the IEEE 3527.1 standard. The diagram is divided into several colored segments, each representing a domain of the standard: Digital Identity (blue), Digital Rights (yellow), Digital Literacy (green), Digital Communication (orange), Digital Emotional Intelligence (red), Digital Security (pink), and Digital Safety (purple). Each segment contains a list of specific sub-topics related to that domain.

DQ in the AI Era:

100X

**Individuals' Capabilities to
Transform Problems into Opportunities
Leveraging AI and Technologies**

3C National Digital Skills Strategy



Definition of Digital Human Capital

A digitally skilled population, composed of digitally literate and aware Citizens, empowered to accumulate knowledge, skills, and capabilities to become Creative contributions and implement ideas, and a digitally Competitive workforce equipped with advanced science and technology talent to innovate, drive growth and impact.

Climate Risks
are Existential Threats



AI Risks
are NEW Existential Threats



**Where
Are the
Opportunities?**

The \$100tn Questions:

Can We Use **AI** to Solve **Sustainability** Issues While Mitigating **AI Risks**?

- To meet the goals of the 2015 Paris Agreement, climate finance globally will need to increase to ~ \$ 9tn a year by 2030, up from just under \$1.35n in 2021-22.
- Meanwhile, AI could contribute up to \$15.7 tn to the global economy in 2030.
- Collectively, AI and technology would potentially unlock around \$100 tn of additional GDP.

- <https://www.pwc.com/gx/en/issues/data-and-analytics/publications/artificial-intelligence-study.html>
- <https://www.ft.com/content/6873d96e-3e40-45c6-9d84-8ce27b7b23e1>
- The Coming Wave, Mustafa Suleyman

Green Digital Economy



**Maximize
Sustainability Using
Digital/AI
Technologies**



**While
Minimizing
Digital/AI Risks**



**Together,
Achieve the
SDGs beyond
2030**

The 24th ASEAN-Republic of Korea Summit held on 6 September 2023

Made an agreement to promote the **green and digital economy**, science, technology and innovation, and carbon neutrality in the region.



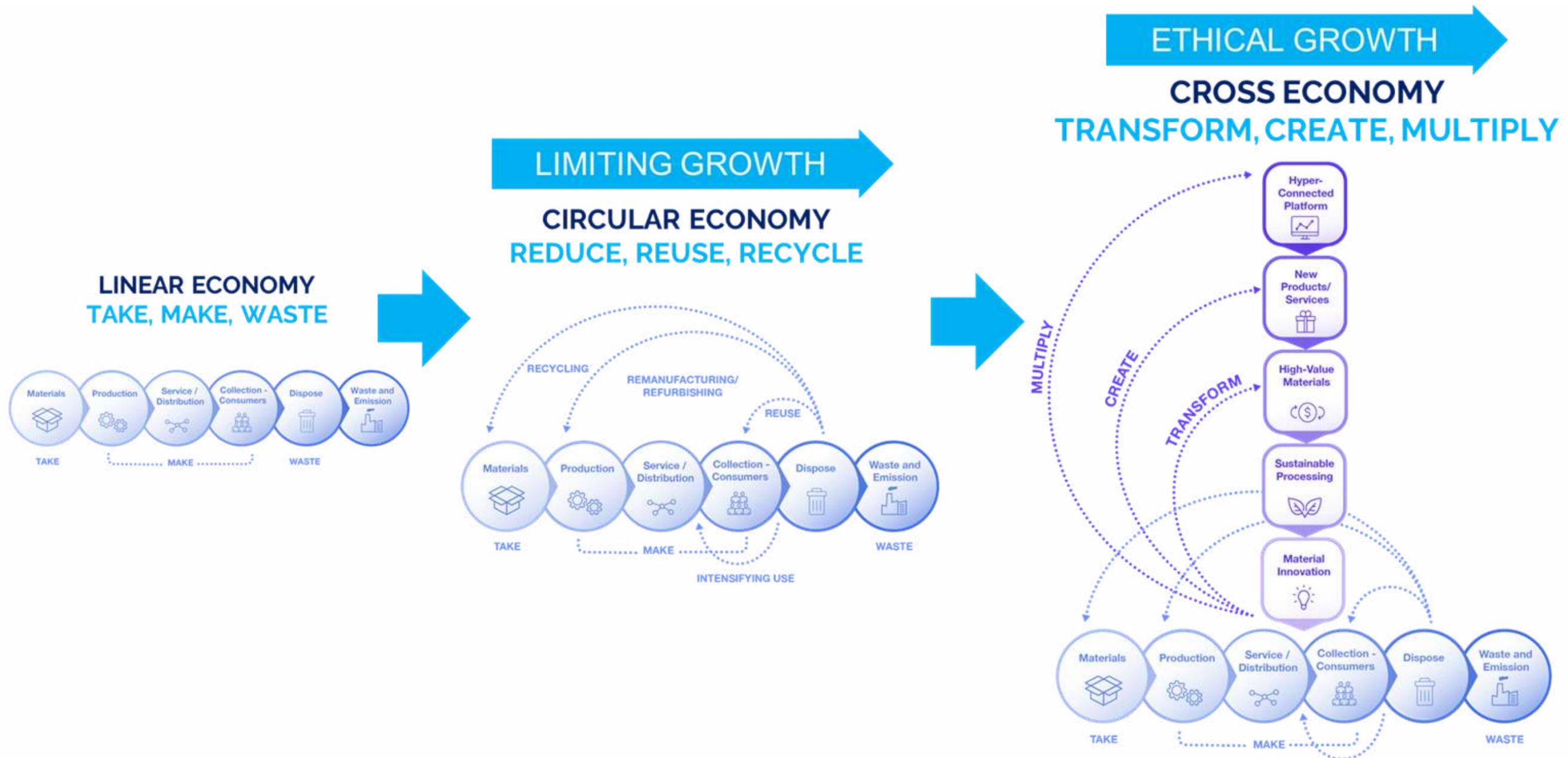
Digital Economy:

the Sum of the Values
Created in
the Phy-Gital World



Cross Economy

New Sustainability Paradigm for the Phy-Gital World



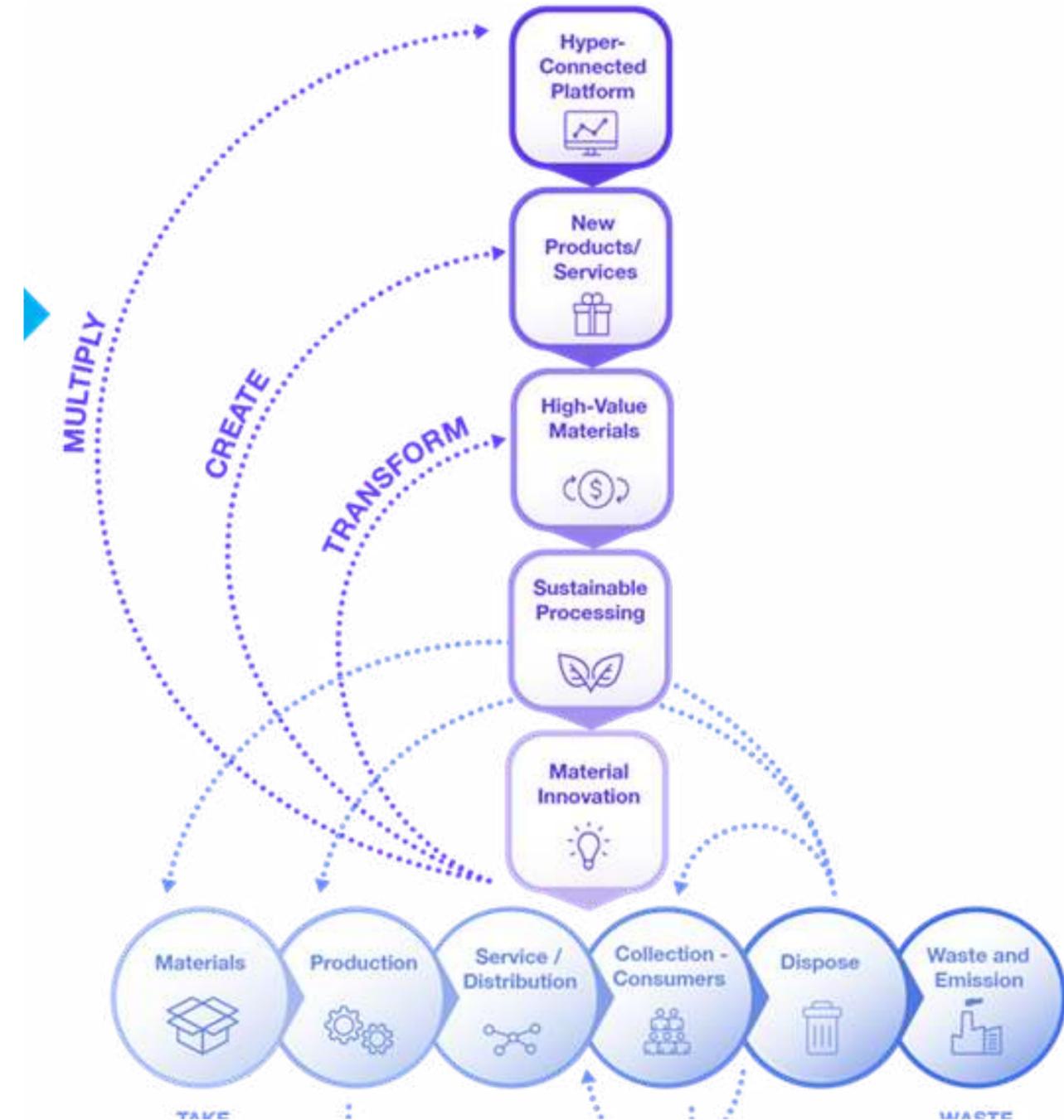
Cross Economy

Waste to Wealth

Transform

Create

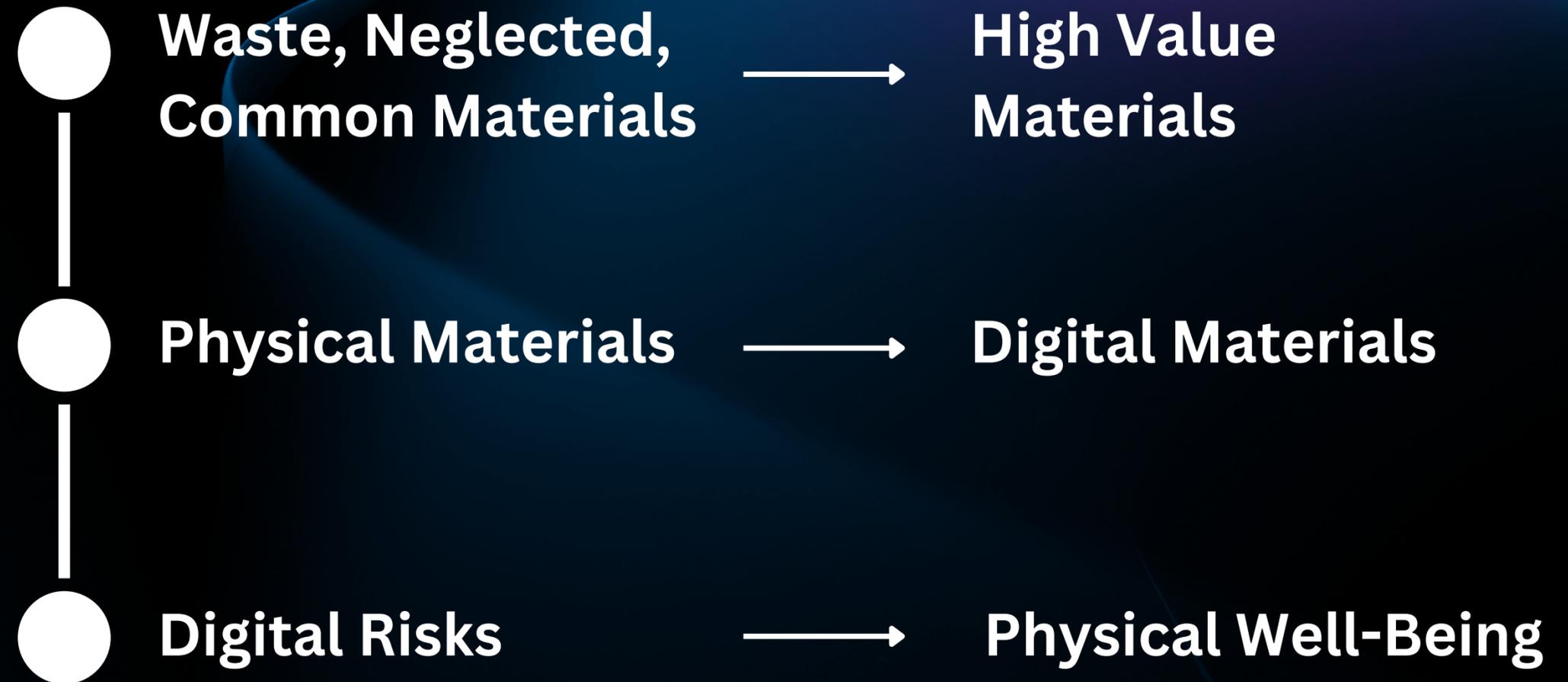
Multiply



Cross Economy

Transform

Utilizing AI and
Technologies



Cross Economy

Transform

Utilizing AI and
Technologies

Waste, Neglected,
Common Materials



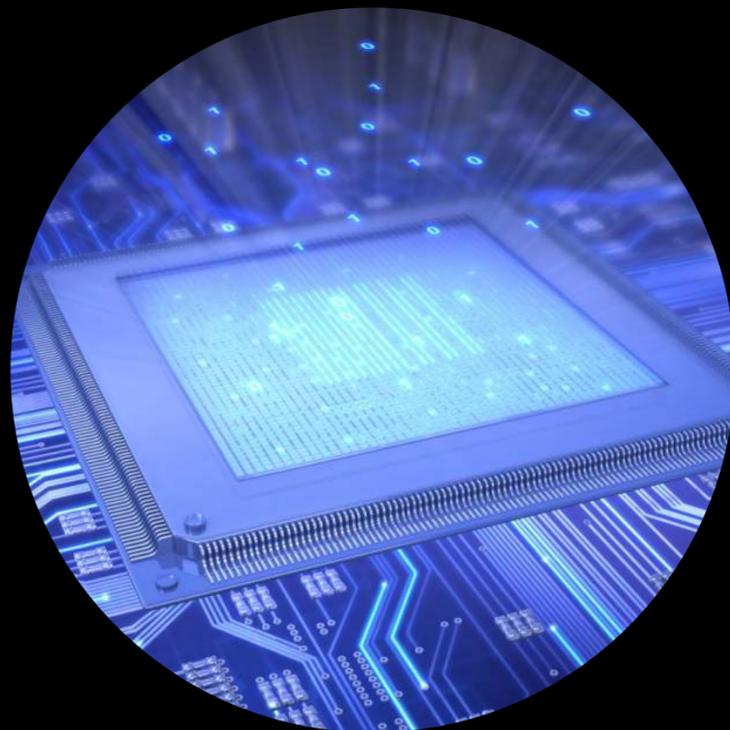
High Value
Materials



Cross Economy

Create

New Products, Services,
and Industries



Multiply

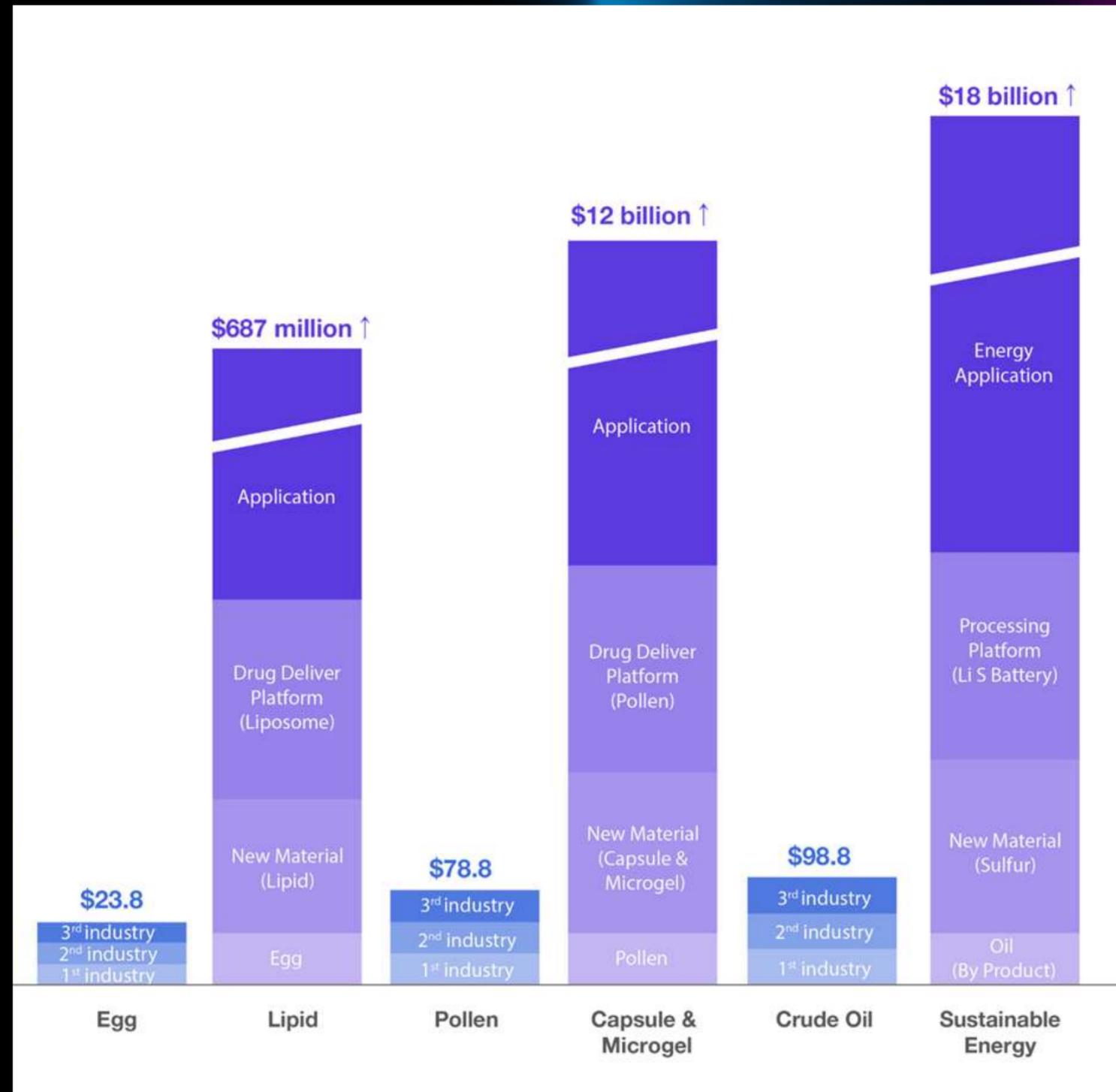
Wealth, Sustainability,
Impact



Cross Economy

The Next Wealth Creators

What Are the Neglected and Common Materials in Your Nation?



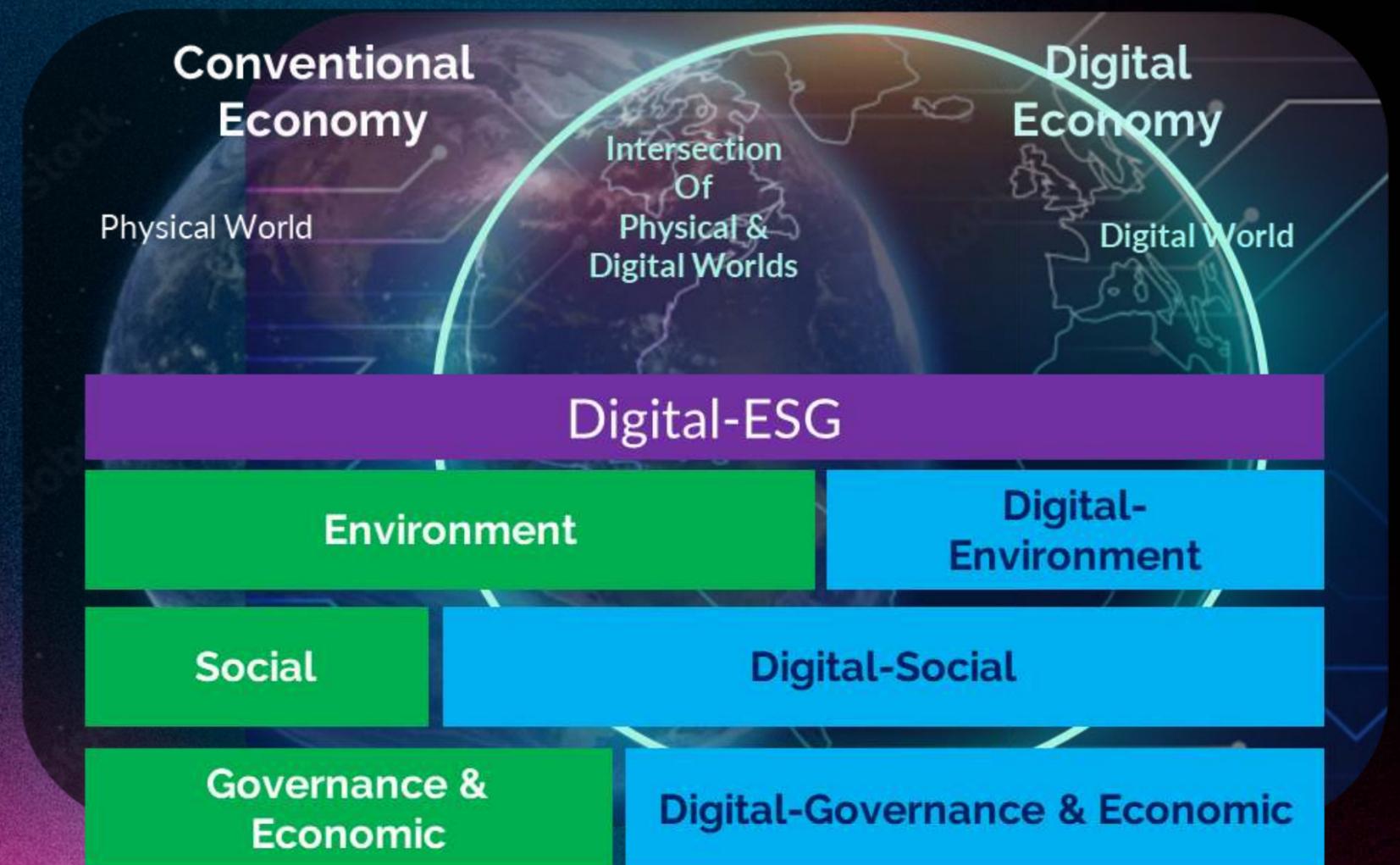
Digital-ESG (DESG)

Conventional ESG + Additional Dimension Focused On The Digital Economy

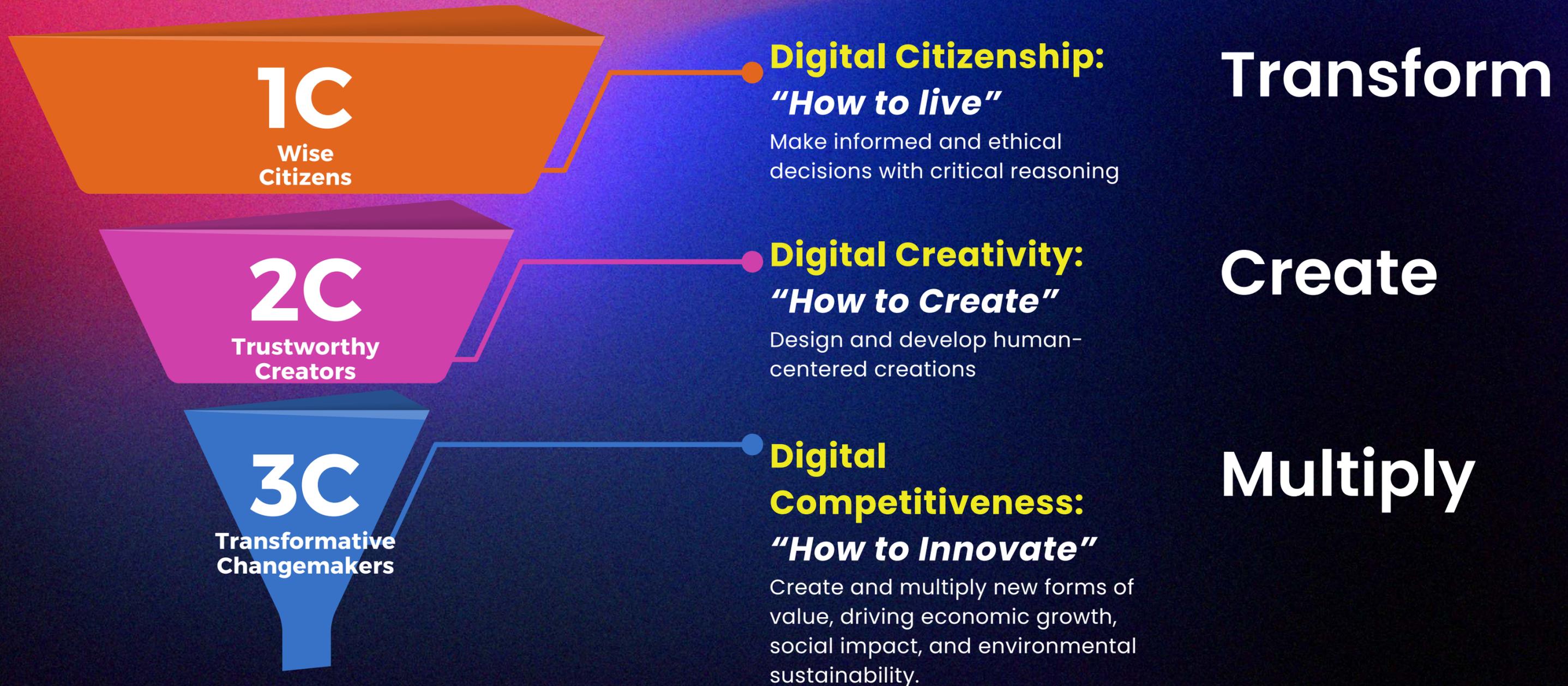


“The private sector plays a crucial role in achieving sustainability and needs to be held accountable from an ESG perspective...Digital components need to be incorporated into ESG as we try to update our sustainability goals, with the global race for AI dominance raging on.”

– Mr. Ban Ki-moon, the 8th UN Secretary-General



DQ: Digital Skills for the Cross Economy



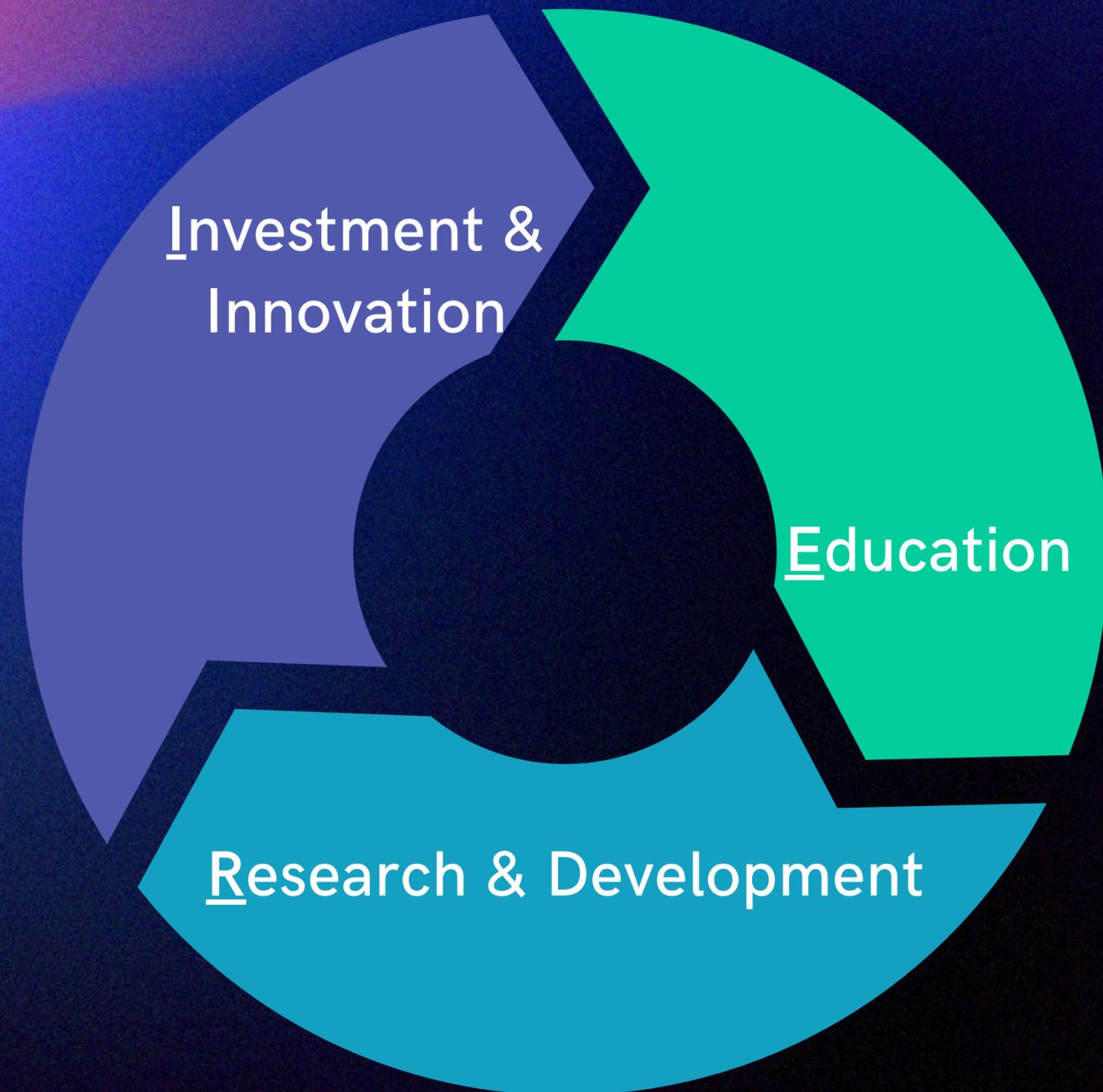
A woman in a blue apron is looking at a tablet in a greenhouse. The greenhouse has a curved metal frame and is filled with green plants. A colorful rainbow-like arc is visible in the upper left corner of the image.

Green Economic Development Strategy

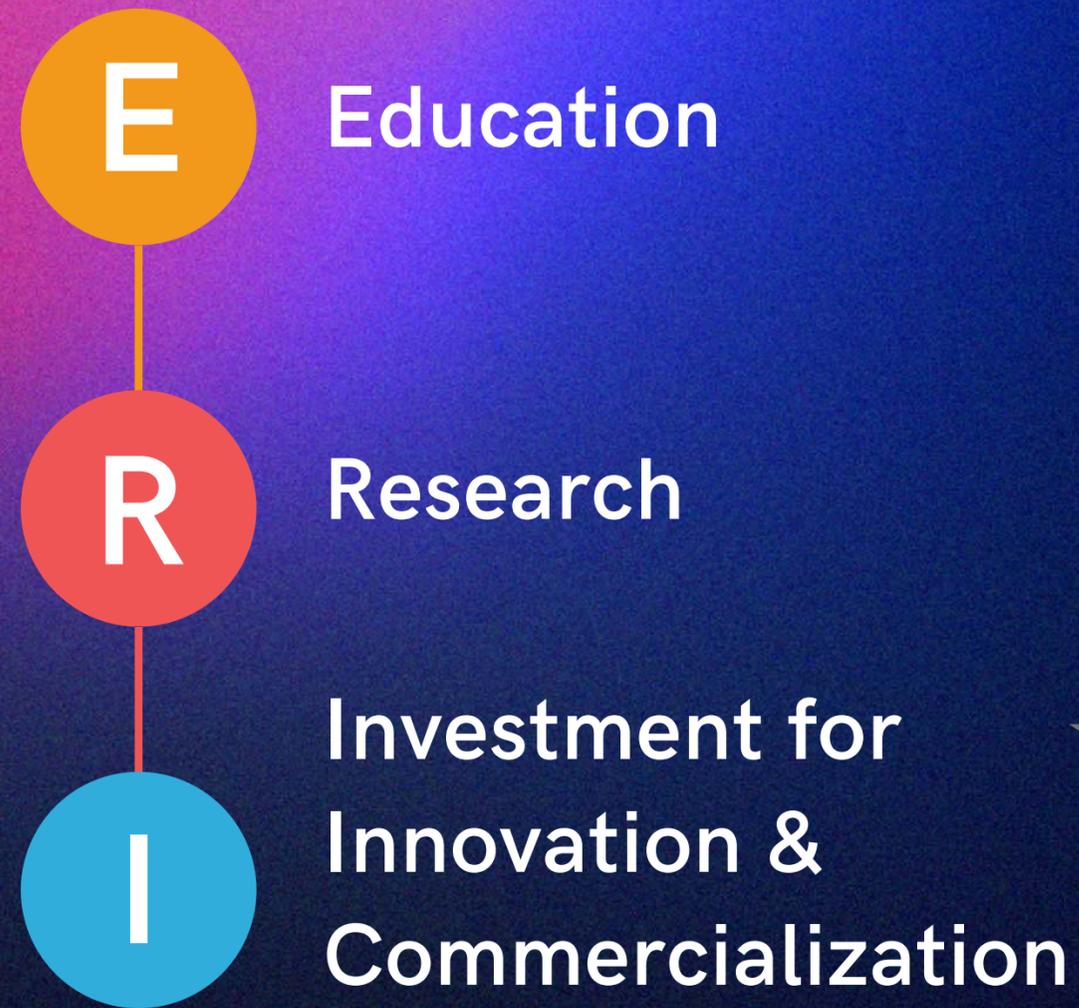
**Transforming Underdeveloped Areas into Green
Economic Development Zones that Foster Economic
Prosperity, Digital Wellbeing, and Sustainability**

Introducing TDFD

Taskforce on Digital-related
Financial Disclosure



Need to Reverse the Order



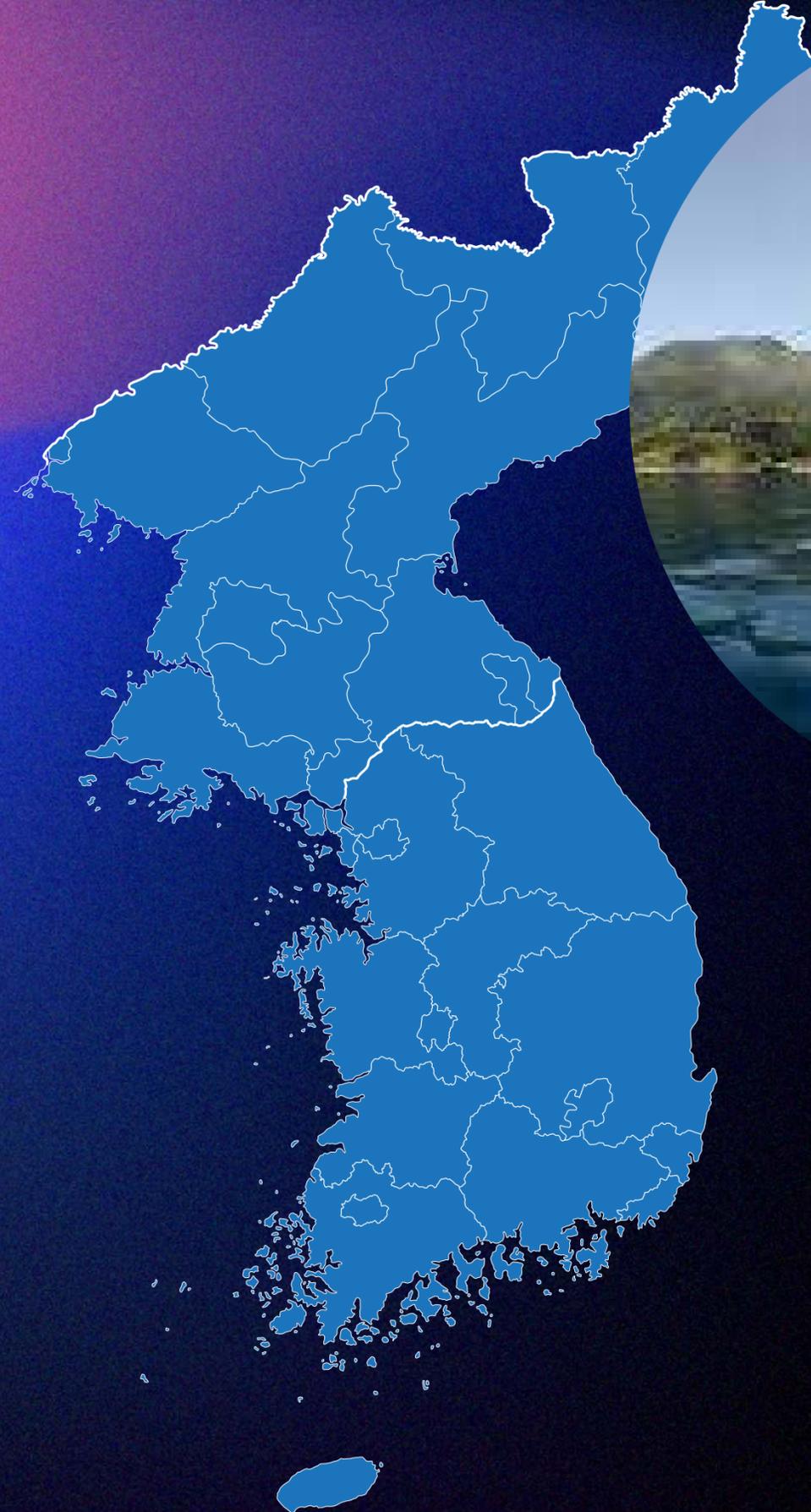
Need to Reverse the Order



Ulleungdo

South Korea

- ISSUE 1 : A Rapid Decline in Population
- Population Decline Rate over 30 years: 44.38%
- ISSUE 2: The Declining Trend of Ulleungdo Regional GDP
- 250B Koreana Won (2020) vs. 300B Korean Won (2018)



Ulleungdo

South Korea



- The Centre for Cross Economy, NTU Singapore
- Handong University

- DQ Education and Training



Ulleung Maple Syrup

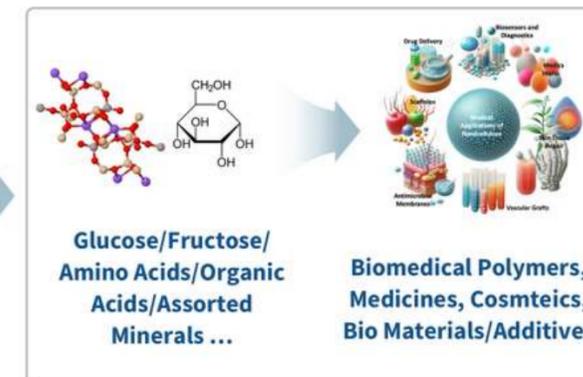
Ulleung Maple Tree



Transform
Specialty Product



Create
the Well-being Industries



Multiply
Wealth

- Global Market:**
- Ulleung Maple Products (Syrup, Sugar, Vinegar, etc)
 - Pharmaceuticals
 - Cosmetics
 - Health Supplement
 - Various Additives

Conclusion: Build a National Strategy for Digital Skills Within the Framework of the Green Digital Economy

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WEBSITE: <https://www.dqinstitute.org/>