

Economic & Environmental Value Creation Opportunities:

Iran's Circular Economy

The Regional Circular Economy Hub by 2050



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Alignment with the **SDGs...**







How to Access the Full Report

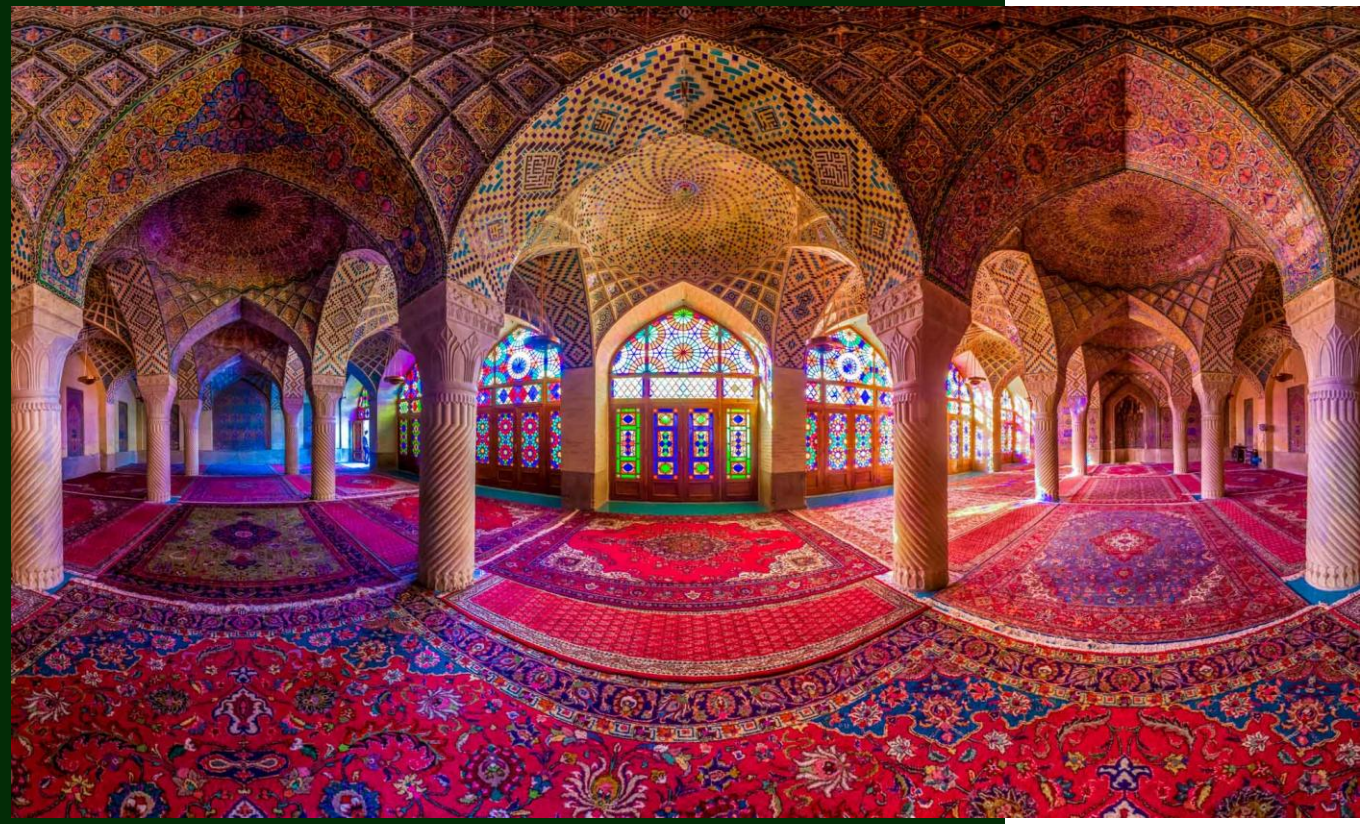


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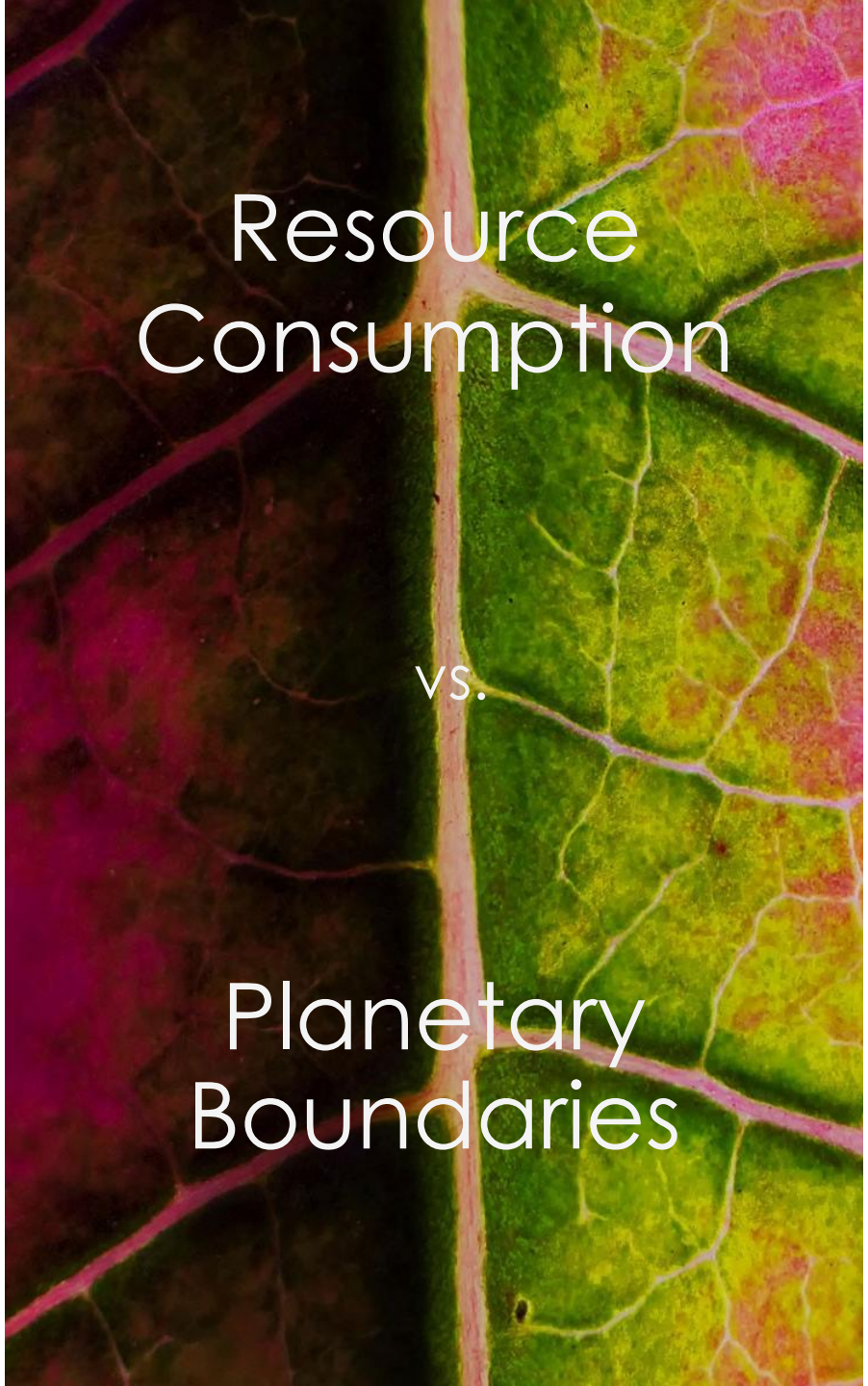


What to Expect

- Iran's Circular Economy Potential
- Economic and Environmental Value Creation
- Opportunities for International Cooperation



01 Why Circularity Matters

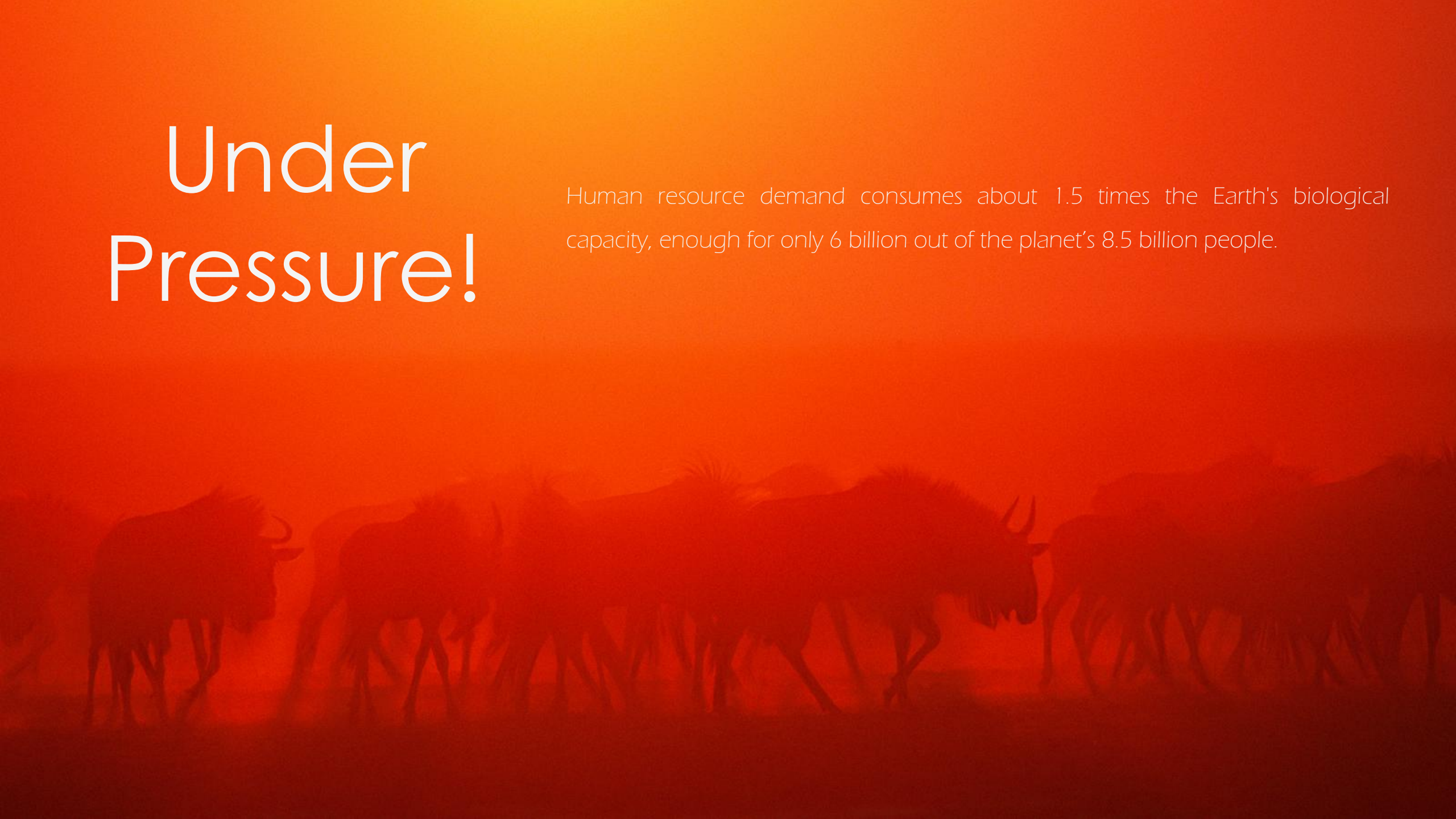


Intensifying competition among corporations and nations to secure primary resources...

Severely strained planetary resource limits and ecological carrying capacities...

Under Pressure!

Human resource demand consumes about 1.5 times the Earth's biological capacity, enough for only 6 billion out of the planet's 8.5 billion people.

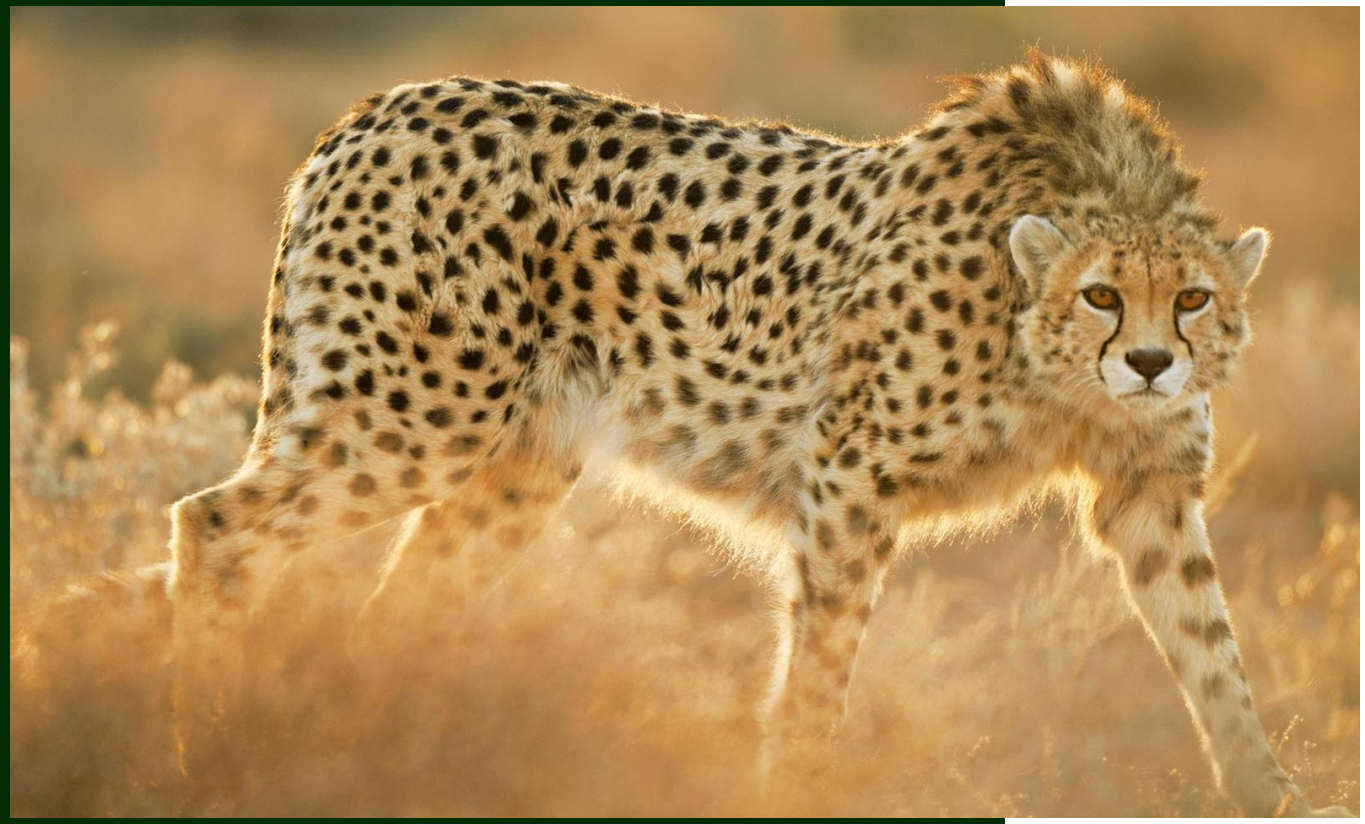


A Paradigm Shift

from Traditional Manufacturing to Digitalized Supply Chains

Traditional process and manufacturing industries (smelting, molding, machining, chemical synthesis, and etc.) have driven near their maximum achievable operational efficiency through technological growth over the past century.

Conversely, vast opportunities for productivity enhancement have emerged from cross-sectoral logistics integration, closed-loop supply chains, and digital coordination across industries, supercharged by Industry 4.0.



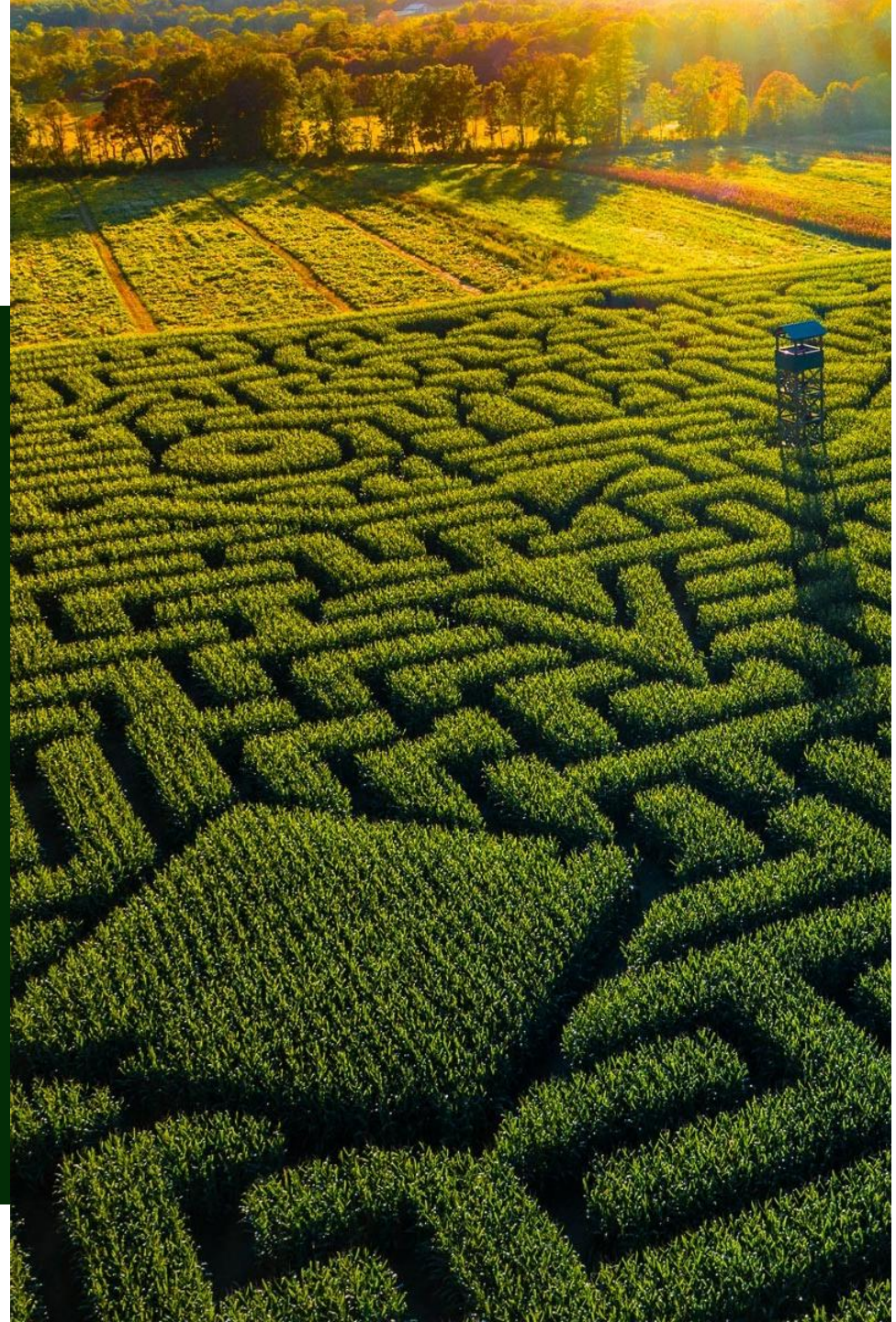
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Iran's Circular Economy Ecosystem

Industry Structure

Rooted in strong competitive advantages and extensive industrial development across primary upstream sectors:

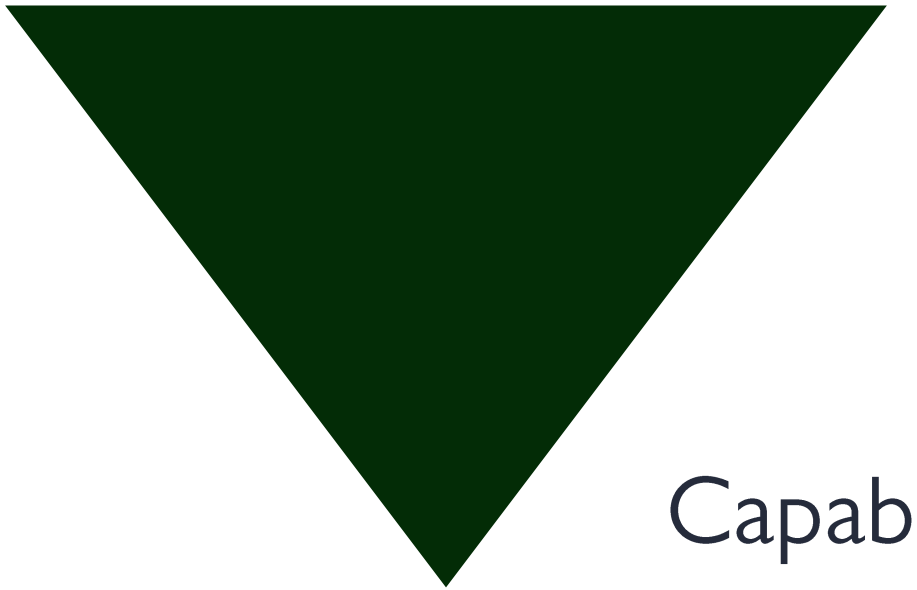
- Chemical & Petrochemical Recycling
- Metal Recycling
- Polymer Recycling
- Paper & Cellulosic Recycling
- Dismantling & Decommissioning
- Reverse Logistics Services
- Circular Economy Services
- Treatment & Safe Disposal



Internal capabilities vs. External constraints



A Helicopter Perspective



Capabilities

- Solid institutional capability within private-sector associations to safeguard business rights
- Abundant primary and secondary recyclable resources nationally & regionally
- Deep indigenous and traditional knowledge in material conservation
- Dominant private-sector ownership and managerial independence
- Strong presence of agile Small & Medium Enterprises (SMEs)
- High proportion of established B2B market transactions

Opportunities

- Strategic potential to operate as Middle-East regional circular economy hub
- Young, high-potential circular ecosystem ready for rapid scaling
- Substantial existing industrial infrastructure operating below nominal capacity
- Strong national readiness for linear-to-circular transition

Challenges

- *International trade frictions*
- *Financial constraints*
- *Liquidity bottlenecks*
- *Underdevelopment of the domestic Hi-Tech electronics manufacturing*

Market Size

USD 3 billion recyclables annually

Only in the most common recyclables

Value Added Potential

USD 10 billion in GDP Value Added

As well as more than a million direct job opportunities.

Emission Reduction

22 million Tonnes of CO_{2eq}

Over half of Iran's unconditional Paris Agreement pledge



03 Fields for International Cooperation

Cooperation Models in Climate Financing & Investment Facilitation in 36 Projects

Technology Transfer

Joint Investment

Equipment & Modernization

Technical Collaboration

R&D / Co-Development



- *Advanced Recycled Polymers, Compounds & Specialty Materials*
- *Rubber & Tire Waste Valorization*
- *Hydrocarbon Residues & Used-Oil Processing Technologies*



Cooperation Opportunities in

Polymer, Chemical & Petrochemical Recycling







- Metal Recovery & Foundry Process Optimization
- Mineral Waste & Industrial Residue Recovery
- Robotics & Advanced Equipment for E-Waste and ELV Recycling

Cooperation Opportunities in

Mineral Waste, Metals & E-Waste Recycling



- Recycled Fiber & Paper Quality Enhancement
- Energy & Water Efficiency in Paper Recycling
- Multi-Material Packaging Recycling

Cooperation Opportunities in

Paper, Textiles & Cellulosic Materials Recycling

- Indigenous Knowledge & Community-Based Circular Solutions
- Industrial Symbiosis & Integrated Waste Management
- Advanced Pollution Control & Environmental Remediation

Cooperation Opportunities in

Circular Economy Services & Environmental Solutions

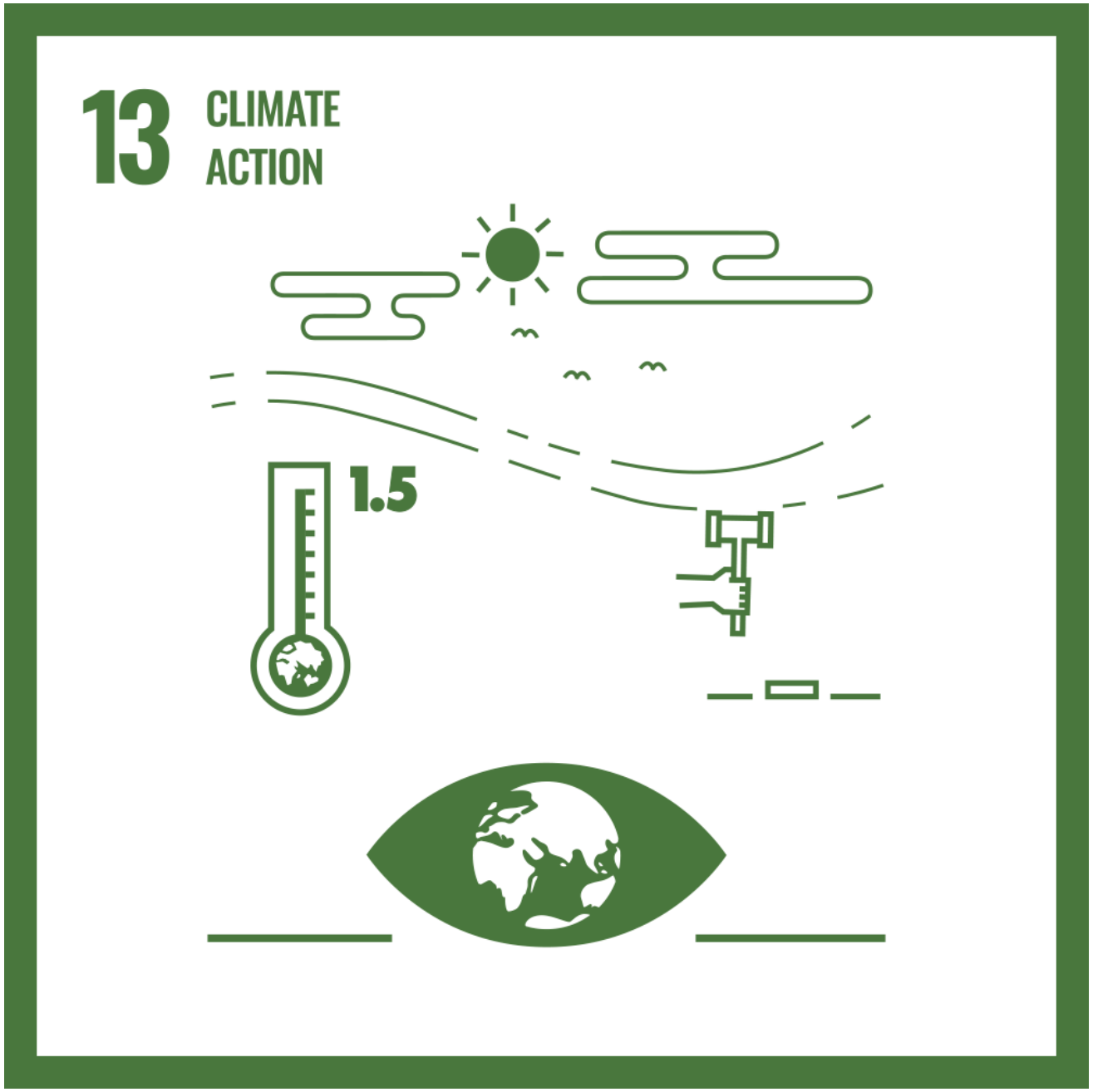


Strategic Outlook

As international trade barriers are lifted, Iran's latent circular economy capacity offers significant opportunities for material recovery, pollution reduction, green jobs, and economic value creation—giving pioneering investors a distinct strategic advantage.

This report marks the beginning of an international partnership to unlock this potential.





Rethink,
Redesign,
Recreate the Future.