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Progress by innovation

Sustainable Industrialization Hubs:

Platforms for green industrialization



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Who are we?

174
Member
States

UNIDO is a specialized agency of the United Nations (Established 1966, became agency 1985) with a unique mandate to promote and accelerate sustainable industrial development.



compass.unido.org

UNIDO Priorities

- ▶ Ending Hunger
- ▶ Sustainable Supply-Chains
- ▶ Climate Action
- ▶ Digitalization and AI



~ **680** Ongoing Projects in
120+ countries

\$1.5 billion portfolio

Mandate & Vision

Our mandate is reflected in Sustainable Development Goal (SDG) 9, but UNIDO's activities contribute to all the SDGs.



"The solutions do indeed exist: we just need to get up, get together, and act to make them a reality."

**Gerd Müller, Director
General of UNIDO**



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The energy transition represents a need and opportunity for green industrialization



Industrial emissions

Currently account for **30%** of CO₂ emissions and must be cut by **95%** by 2050 for 1.5°C



Industrial innovation

Around **35%** of the emissions reductions required to achieve net zero by 2050 are expected to come from technologies that are not yet commercially available



Access to reliable energy

Around **40%** of firms in Sub-Saharan Africa identify electricity as a major constraint to their operations



Critical mineral production

Adopting of clean technologies require a **tripling** of critical minerals demand by 2030 to reach net zero by 2050

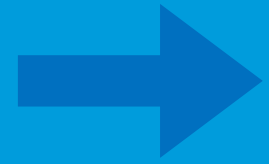
Source
- Net Zero Roadmap: A Global Pathway to Keep the 1.5 °C Goal in Reach, IEA
- Energy for Growth Hub



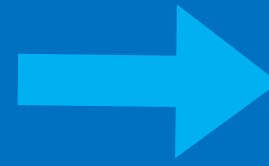


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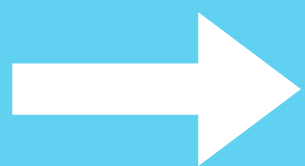
Sustainable Industrialization Hubs (SIHs) can be central elements in driving green industrialization



Create opportunities for participation in the manufacturing and innovation segments of cleantech value chains (such as in critical minerals, hydrogen, batteries or RE technologies)



Decarbonise heavy industries, thereby improving climate outcomes and opening international markets for low-carbon exports



Increase access to sustainable and reliable energy for industrial zones and nearby communities (“prosumers”) – enabling economic opportunities and a just energy transition





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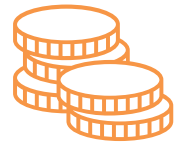
SIHs translate the energy transition into industrial growth



Concentrate
Demand for
Clean Energy



Enable Shared
Infrastructure



Reduce **Costs** and
Investment Risks



Strengthen
**Industrial
Competitiveness**

Create resilient and self-sustaining industrial-energy ecosystems through

Productive and Equitable Enterprises for Energy Resilience (PEER)

Energy
Security

Productive
Continuity

Workforce
Development





Accelerating sustainable industrialization hubs – Key considerations

TECHNOLOGY CO-DEVELOPMENT

Including for applied research and innovation



INDUSTRIAL PLANNING - GOALS, STRATEGIES TO UNLOCK INVESTMENTS

Establish priorities, determine financing needs



INVESTOR CONFIDENCE

Secure offtake for low-carbon industrial products and fuels



COMPETITIVENESS – DATA TRANSPARENCY

for harmonization of carbon accounting methodologies and standards



TRADE AND INVESTMENT - LINKING HUBS TO ENERGY AND ECONOMIC CORRIDORS

Regional Collaboration for Economies of scale



CLEANTECH INNOVATION CLUSTERS

Localizing technology solutions





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Practical Examples





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Sustainable Energy Systems for Urban-Industrial Development in South Africa (SESID)

OBJECTIVE: Reducing GHG emissions and other environmental and social impacts by accelerating the decarbonization of industrial parks addressing both the energy supply and demand side

KEY FOCUS AREAS:

- Fostering the coordination towards **sustainable energy transformation** of industrial parks by creating a conducive enabling environment under consideration of social equity
- Demonstration of low-carbon and **sustainable energy interventions in target industrial parks and SEZs. Three pilot projects** will be implemented to showcase practical pathways for reducing carbon intensity, improving energy efficiency, and integrating renewable energy solutions
- Establishment of a **de-risking scheme to scale and replicate sustainable energy solutions** in industrial parks and SEZs. It combines a technology roadmap for prioritising scalable options, a policy roadmap for reducing investment risks, and a project pipeline of bankable projects

COUNTRY FOCUS: South Africa

Donor:





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Fostering Low-Carbon and Positive Energy Industrial Spaces to accelerate a Just Energy Transition in South Africa

OBJECTIVE: To support the low-carbon transformation of South Africa's industrial sector by driving the optimization of energy consumption and accelerating the deployment of distributed renewable energy generation within industrial spaces

FOCUS AREAS:

- Strengthen **policy and regulatory framework** to enable the uptake of renewable energy in industrial spaces
- Enhance **capacity of key stakeholders** and and partnerships fostered to facilitate scaling up investments in industrial spaces
- Demonstrate the business case through **pilot projects** and building an **investment-ready pipeline**

COUNTRY FOCUS: South Africa

Donor:



Flanders
State of the Art





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From industrial-space data to green industrialization





SEZ PROFILING & UNIDO'S DIGITAL INVESTMENT PROMOTION SOLUTIONS (DIPS)

From industrial-space data to green industrialization

-  **Establishes the baseline for Sustainable Industrialisation Hubs** through SEZ profiling, followed by tenant-level profiling.
-  **Identifies where green interventions are most relevant:** renewable energy, energy efficiency, cleaner production and green manufacturing with add on modules.
-  **Feeds the wider DIPS ecosystem,** including Investment Opportunity Profiles (IOPs), Investment Relation Management (IRM) and the Computer Model for Feasibility Analysis and Reporting (COMFAR) tool, for opportunity identification, linkages and project preparation.
-  **Supports cluster and value-chain development** by identifying anchor firms, supplier gaps and local value-addition opportunities.
-  **Connects profiling with investment promotion,** facilitation, aftercare and targeted technical support.

SEZ
Profiling

Tenant
Profiling

Investment Opportunity Profiles / Investment
Relation Management / Computer Model for
Feasibility Analysis and Reporting

Value-Chain
& Cluster
Development

Investment
Promotion
&





DIGITAL INVESTMENT PROMOTION SOLUTIONS (DIPS) AND THE INVESTMENT PROMOTION PLATFORM: From zone profiling to investor visibility

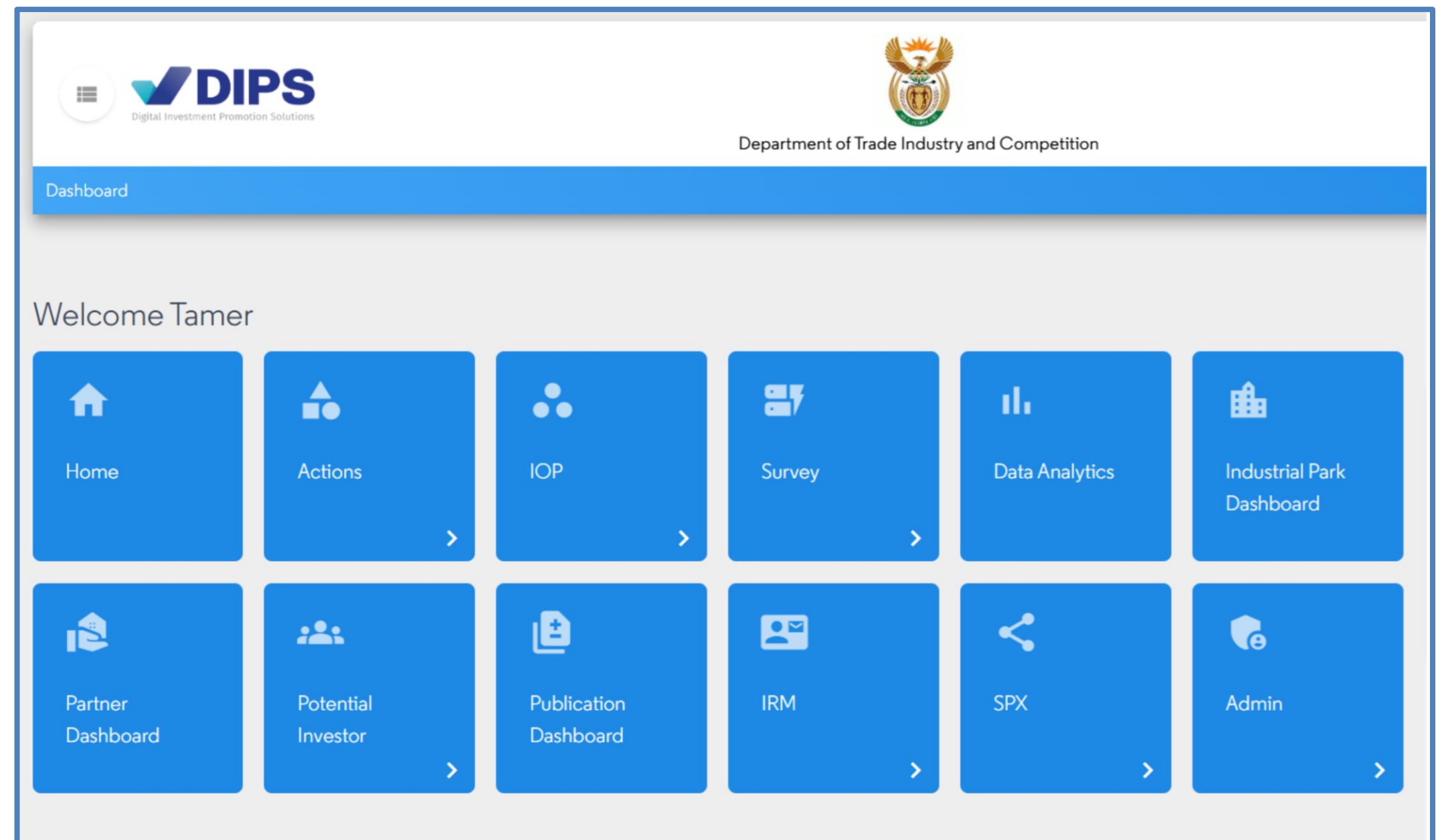
Digital Investment Promotion Solutions (DIPS)

Where you enter and manage
your zone profile
From data to opportunities



Investment Promotion Platform

Where investors find you, with
GIS mapping
*Mapping opportunities for
sustainable growth*





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Department:
Trade, Industry and Competition
REPUBLIC OF SOUTH AFRICA

DATE
14 October 2026

TIME
14:00 (CEST)

REGISTER VIA
Microsoft Teams

UNIDO's African SEZ Profiling Initiative

A DIPS Tutorial Webinar for South Africa's SEZs

Review, update, or add your zone profile on the **Digital Investment Promotion Solutions (DIPS)** portal and publish it on UNIDO's **Investment Promotion Platform**.



Already published?

Review and update your profile.



Not yet represented?

Join the initiative and create one.

Approved zone profiles are
published on investment.unido.org

Scan to register:

