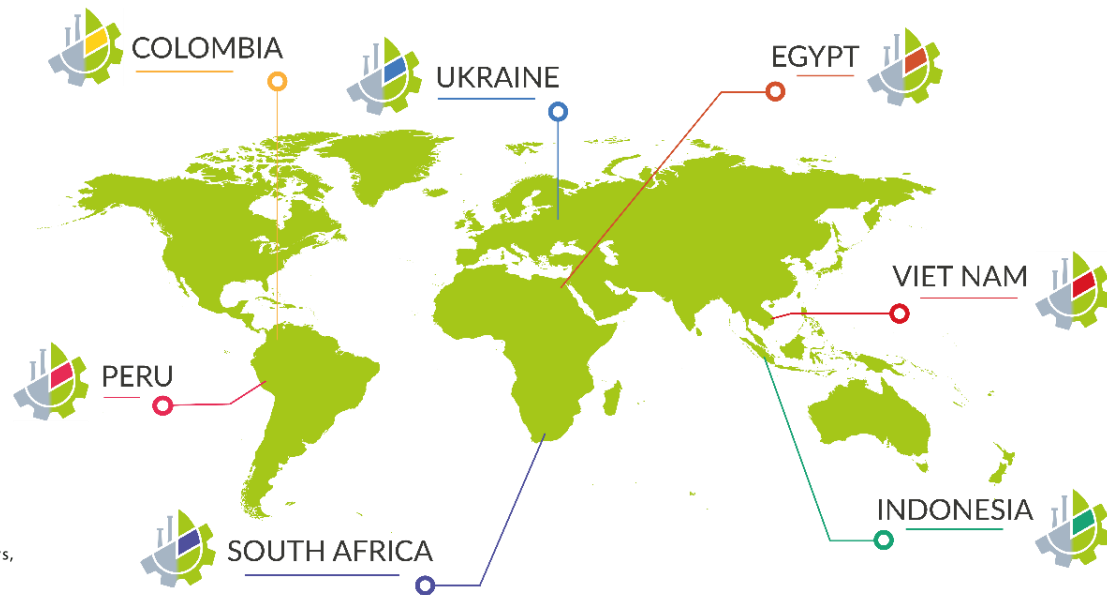




INTRODUCTION TO THE GLOBAL ECO-INDUSTRIAL PARKS PROGRAMME (GEIPP)

Alessandro FLAMMINI, *UNIDO Project Coordinator*

The **objective** of the Global Eco-Industrial Parks Programme (GEIPP) is to demonstrate the viability and benefits of greening industrial parks by improving resource productivity and economic, environmental and social performances of businesses [...].



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER
State Secretariat for Economic Affairs SECO

COMPONENT 1: COUNTRY-LEVEL INTERVENTIONS



COMPONENT 2: GLOBAL KNOWLEDGE DEVELOPMENT



OUTCOME 1
EIP mainstreamed in relevant **policy** and **regulations**



OUTCOME 2
EIP approaches **implemented** in pilot EIPs

Lessons learnt

International experiences



OUTCOME 3
EIP **tools developed**, capacity enhanced and **lessons learnt** effectively exchanged

Standardisation
(international collaboration)

Dissemination

“A community of manufacturing and service businesses located together on common property. Member businesses seek *enhanced environmental, economic, and social performance* through *collaboration* in managing environmental and resource issues.

By working together, the community of businesses seeks a *collective benefit* that is greater than the sum of individual benefits each company would realize by only optimizing its individual performance.” (Lowe, 2001)



In short, the EIP concept is about creating more resource-efficient and cost-effective industrial parks which are more competitive, attractive for investment and risk resilient.



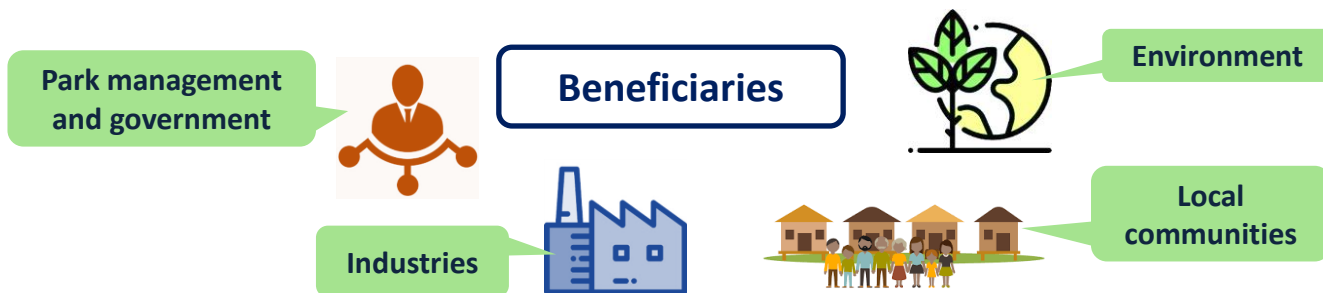
Reduce:

- Use of materials, water, energy
- Procurement costs
- Waste
- Greenhouse gases
- Pollutants
- **Environmental, economic and social risks**

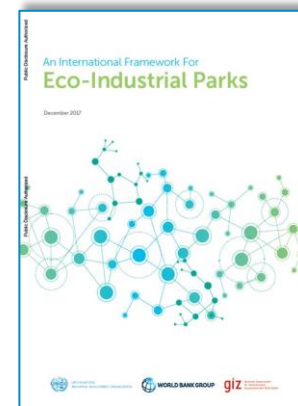
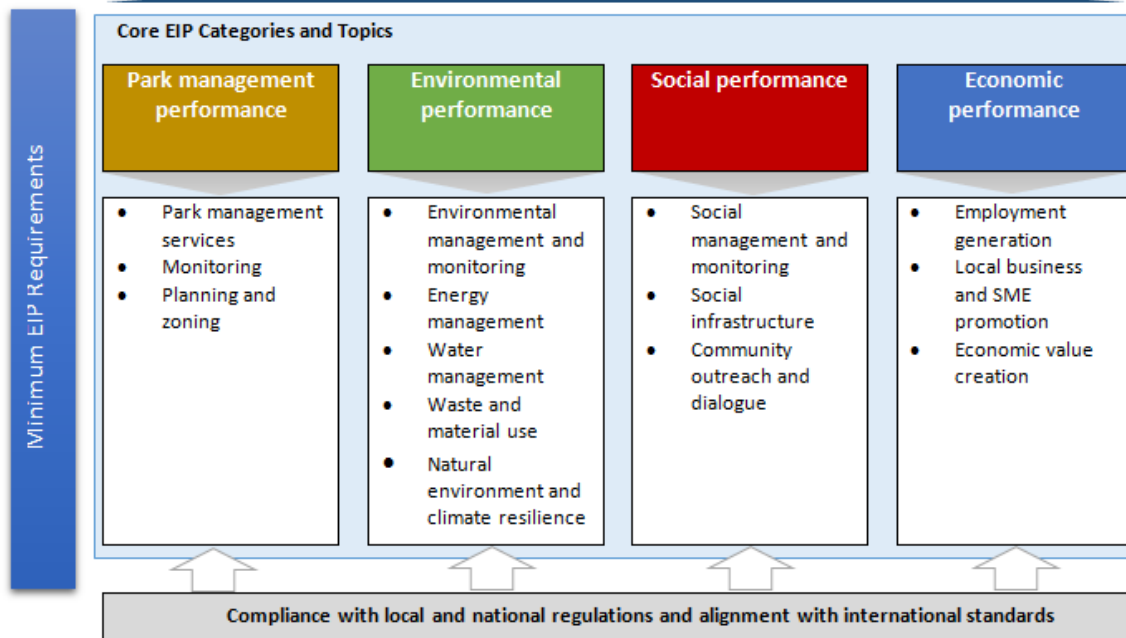


Increase:

- Competitiveness, profitability and foreign investment
- Good-quality jobs
- Workers health and safety
- Quality of life for communities
- Access to new technologies and finances
- Resilience and business continuity



Process of continuous improvement:
Going beyond the minimum EIP requirements



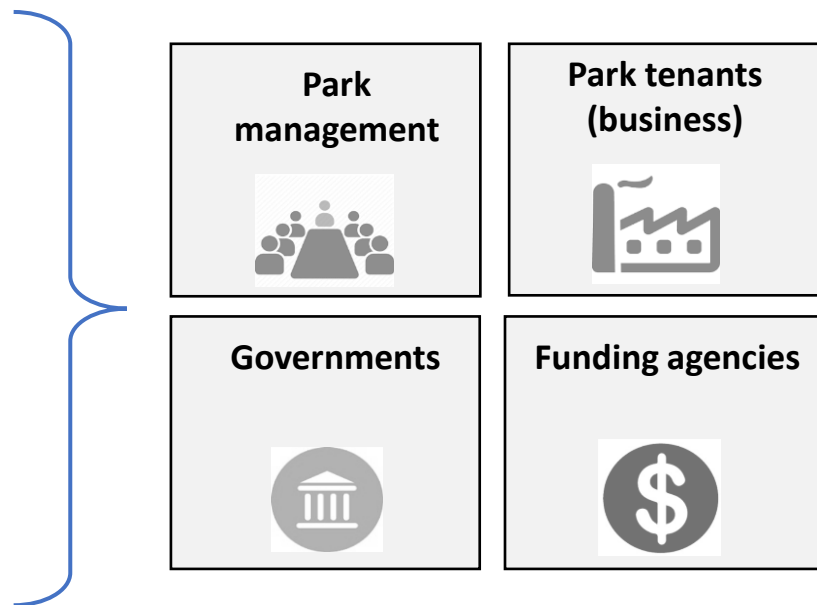
UNIDO, World Bank Group, GIZ
„An International Framework for Eco-Industrial Parks“

Version 2.0 (February 2021)

- <https://openknowledge.worldbank.org/handle/10986/35110>

OBJECTIVES

- Create **common understanding** of Eco-Industrial Parks
- **Identify improvement opportunities**, optimise existing industrial parks
- **Monitor and assess** operational **performance** of existing industrial parks
- Inform **investment decisions, funding** and due diligence studies
- Value recognition and build **market profile**





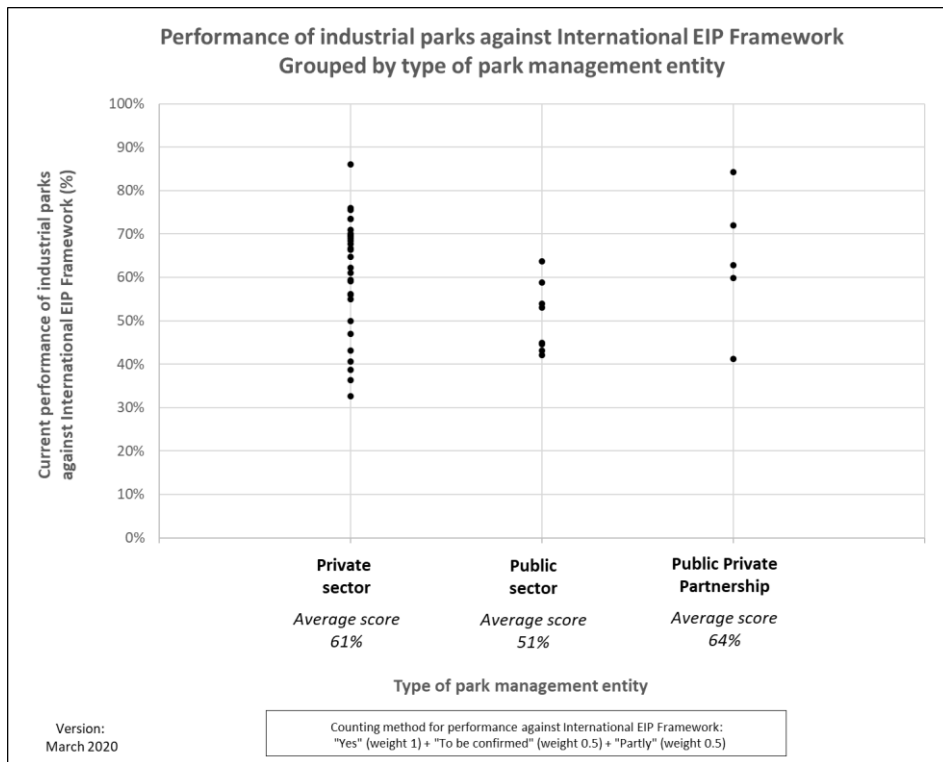
Insights from GEIPP analysis of
Industrial Parks Performance

INSIGHTS FROM THE ASSESSMENT OF 50 INDUSTRIAL PARKS AGAINST THE INTERNATIONAL EIP FRAMEWORK

Source: UNIDO (2020). Analysis of results from International EIP Framework assessments.

INTERNATIONAL EIP FRAMEWORK
Topic
PARK MANAGEMENT
(Basic) park management services
Monitoring and risk management
Planning and zoning
ENVIRONMENT
Management and monitoring
Energy
Water
Waste and material use
Climate change and the natural environment
SOCIAL
Social management systems
Social infrastructure
Local community outreach
ECONOMIC
Employment generation
Local business & SME promotion
Economic value creation

Level of baseline compliance - Analysis of "Yes" ratings - Average per topic							
Formula = Counts "Yes" / (Total number of responses - Counts "Not applicable").							
COLOMBIA	EGYPT	INDONESIA	NIGERIA	PERU	SOUTH AFRICA	UKRAINE	VIET NAM
5 parks	3 parks	11 parks	2 parks	6 parks	11 parks	4 parks	8 parks
100%	75%	91%	75%	50%	61%	56%	88%
30%	25%	48%	50%	0%	36%	0%	59%
100%	100%	100%	0%	50%	36%	0%	88%
60%	33%	50%	25%	33%	14%	0%	25%
33%	22%	20%	17%	36%	27%	21%	46%
60%	17%	47%	25%	63%	25%	44%	56%
47%	0%	65%	0%	22%	24%	58%	38%
52%	40%	45%	30%	30%	40%	25%	43%
77%	39%	88%	67%	25%	65%	33%	40%
58%	57%	73%	60%	30%	38%	45%	43%
40%	0%	68%	50%	0%	14%	38%	13%
100%	100%	86%	83%	100%	85%	75%	67%
73%	44%	45%	67%	33%	67%	100%	38%
60%	78%	59%	83%	50%	85%	67%	71%



Industrial parks managed by PPPs and private sectors have a higher average total EIP score than parks managed by public sector.

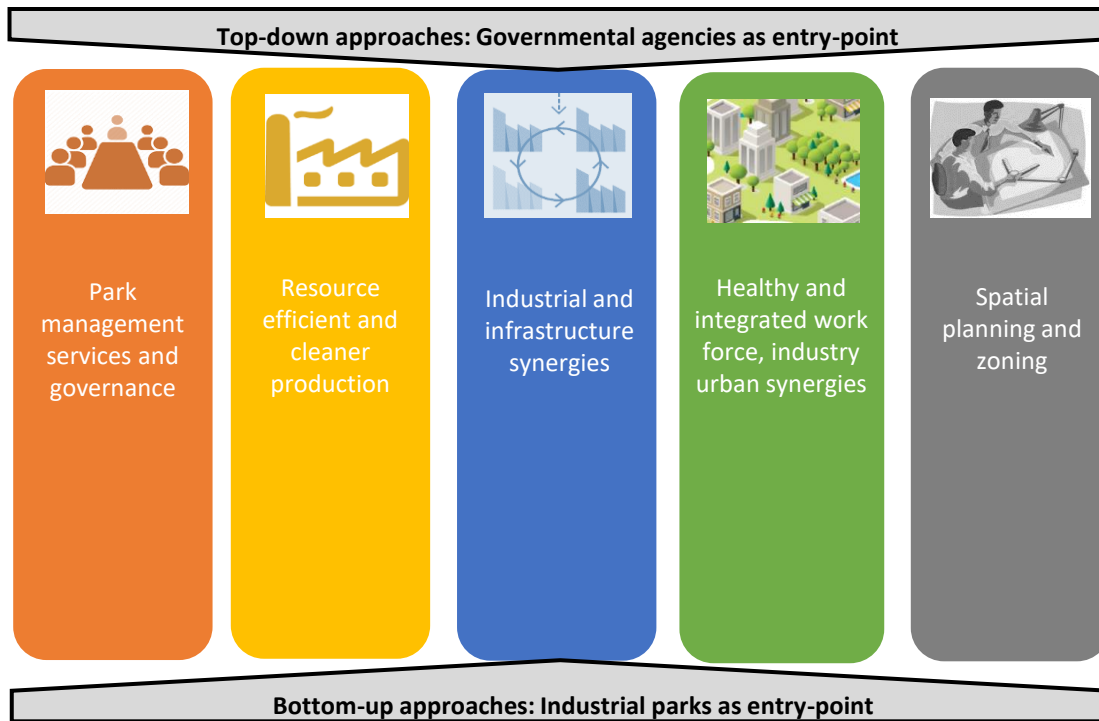
Each dot represents industrial park assessed to date by UNIDO against International EIP Framework.

KEY MESSAGE:
Whatever the park management type, industrial parks should be **“run like a business”**

Source: UNIDO (2020). Analysis of results from International EIP Framework assessments.

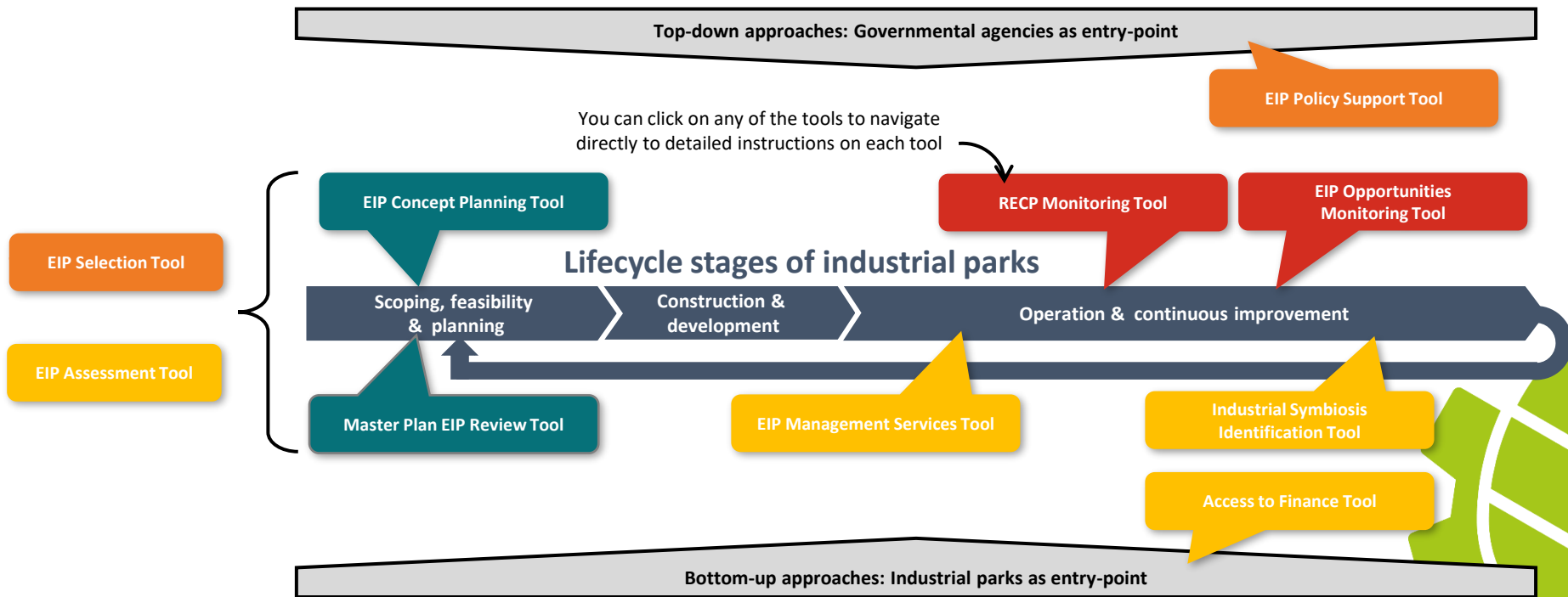


GEIPP Programme Country-level Interventions



- **SCOPE INTERVENTIONS** to identify and prioritize EIP activities.
- **AWARENESS RAISING** of the benefits and added value of EIPs as well as of private-public collaboration.
- **PROVIDE POLICY SUPPORT** for translation of EIP concepts and associated practices into national policies and government decision-making processes.
- **DEVELOPMENT AND ADVICE ON PARK MANAGEMENT STRUCTURES** to develop and operate an industrial park sustainably, to attract investments and to provide attractive working conditions.

- **PROVIDE TECHNICAL SUPPORT** to upscale resource efficiency and industrial synergies/symbiosis, both at the company and park levels (e.g. shared infrastructures, services and utilities, or by-product and waste exchanges between companies).
- **UNDERTAKING PERFORMANCE MONITORING AND BENCHMARKING** to track progress of EIPs against set objectives and thus demonstrate environmental, economic and social outcomes in a transparent and accountable manner.
- **CAPACITY-BUILDING** of key stakeholders throughout the entire development of EIPs.



2020

- ✓ Stakeholders Mapping
- ✓ Policy Gap Analysis

2021

- ✓ EIP perspective included to Governmental Economy Strategy to 2030
- ✓ Inter-departmental Working Group on EIP policy established
- ✓ Roadmap on EIP policy implementation

2022

- ✓ EIP Policy Vision and Roadmap, based on international experience
- ✓ EIP financial and non-financial Incentives proposed
- ✓ EIP included in draft IP Strategy to 2030
- ✓ Strategic Ecology Assessment of IP Strategy with EIP perspective
- ✓ Regulatory Impact Assessment of EIP requirements
- ✓ Draft EIP Law (amendments to IP Law and other Laws)
- ✓ National Survey on Market Readiness to EIP model
- ✓ Online EIP training course for decision-makers and practitioners
- ✓ EIP Supply Chains Recovery Assessment

2023

planned

- ✓ Strategy on IP development in Ukraine, including EIP concept
- ✓ Adoption of plan for 2023, prioritizing development of new “EIP Law”
- ✓ Adoption of sub-laws on EIP (criteria, verification, monitoring)
- ✓ Bringing policies in compliance to EIP International Framework

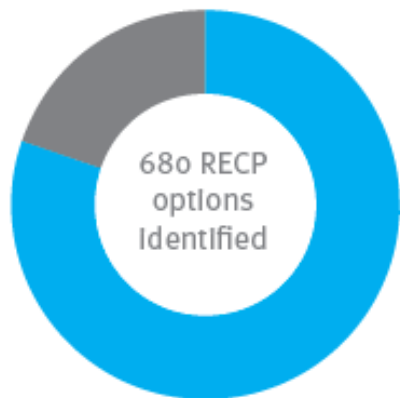
- Park Management plays a critical role as the entry point and driver to achieve EIP objectives
- They connect the Park, Resident Firms, relevant Government Agencies and the wider community.

SUCCESS FACTORS FOR EIP MANAGEMENT

- **Strong leadership** and commitment
- **Proactive marketing** of EIP features and benefits
- **Proactive facilitation** of stakeholder processes
- **Effective model** to share and recover park level **costs/benefits**
- Creation of **feasible and valuable infrastructure services**

COMMON CHALLENGES FOR EIP MANAGEMENT

- **Trade-off logic:** Industrial development vs. environment
- Insufficient inclusion of **social dimensions**
- Insufficient priority on **shared and integrated infrastructure**
- Lack of understanding that **environmental/social risks are economic risks**



**546 RECP options
Implemented
In 57 companies**



**Financial savings:
2.85 million
EUR /year**

**COMPANY
INVESTMENT
TRIGGERED: EUR 9 Mio**



Electricity
19,274 MWh/yr



Fossil fuels
142 TJ/year



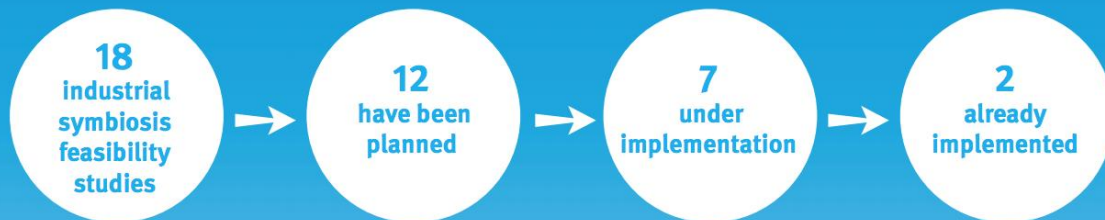
**Greenhouse
gas emissions**
30.6 Kt
CO₂eq/year



Water
606,816 m³/year

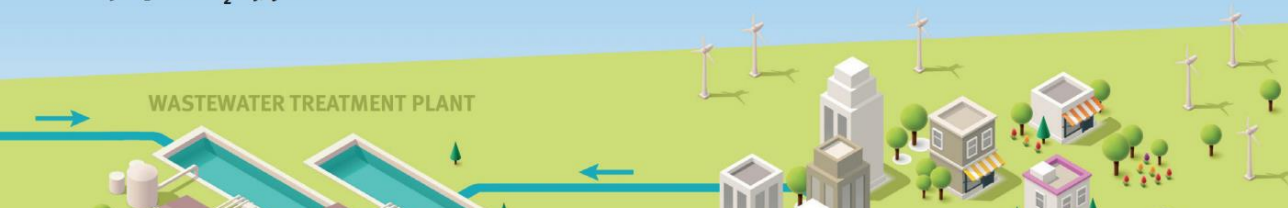


**Raw materials
and chemicals**
4,225 t/year



⇒ TO DATE:
Another 2 implemented

Reductions*

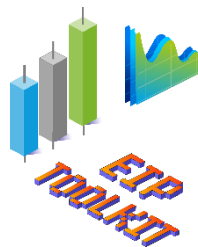


COURSE SNAPSHOT

FORMAT: Online
LENGTH: 6-7 Hours
LANGUAGE: English
CERTIFICATE: Yes

7 SELF-PACED INTERACTIVE MODULES

- Introduction to EIPs
- EIP Opportunity Assessment
- EIP Management
- Resource Efficient and Cleaner Production
- Industrial Synergies
- EIP Concept Planning
- Implementation of EIP Opportunities



ACCESS TO THE UNIDO EIP TOOLBOX

To assist with the development and implementation of EIPs and related initiatives

FURTHER CURATED RESOURCES ON EIPS

Key resources and handbooks related to the implementation of EIPs including the International Framework for Eco-Industrial Parks (UNIDO, GIZ and WBG)



LINK TO REGISTER:

<https://hub.unido.org/training-modules-eco-industrial-parks>



FOR MORE INFORMATION ON EIPS, VISIT
THE UNIDO KNOWLEDGE HUB
(HUB.UNIDO.ORG)