



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION



**GEIPP**  
GLOBAL ECO-INDUSTRIAL PARKS PROGRAMME



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Swiss Confederation

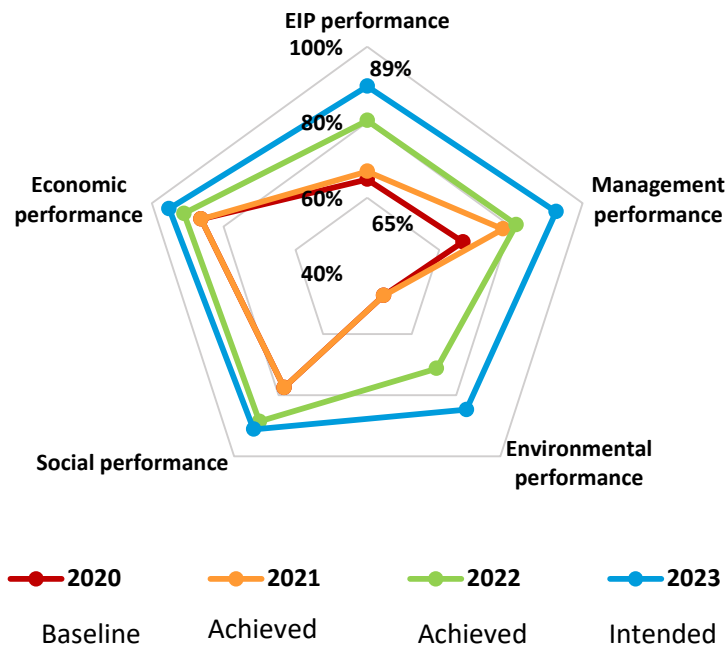
Federal Department of Economic Affairs,  
Education and Research EAER  
State Secretariat for Economic Affairs SECO



# Advances in EIP implementation at GEIPP Colombia priority industrial parks

Juan David Salazar Espitia – National Technical Coordinator GEIPP  
Colombia

# EIP Performance in Colombia



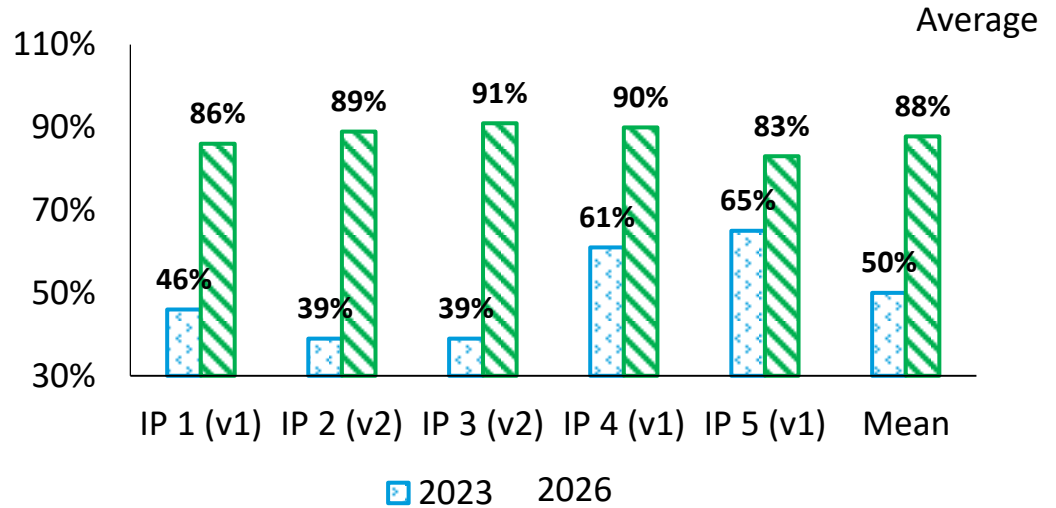
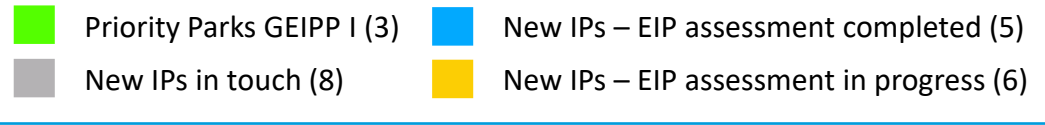
## Capacity building

- ✓ 50 Workshops and 1,289 people trained
- ✓ 94% Satisfaction
- ✓ Topics: EIP, energy efficiency, RECP, water management, climate change, etc.

## Replicability

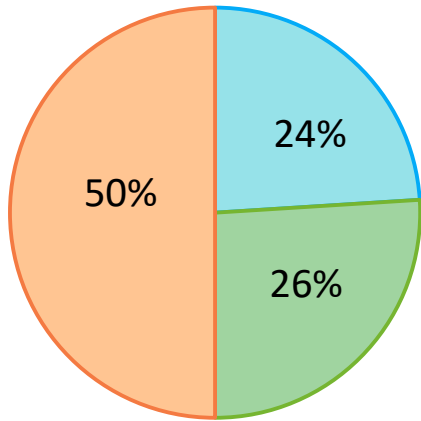
- 19 industrial parks have reached out to GEIPP.
- 14 have been trained.
  - 11 have initiated their EIP assessments:
    - 6 are in progress
    - 5 have been completed.

# New industrial Parks working towards EIP



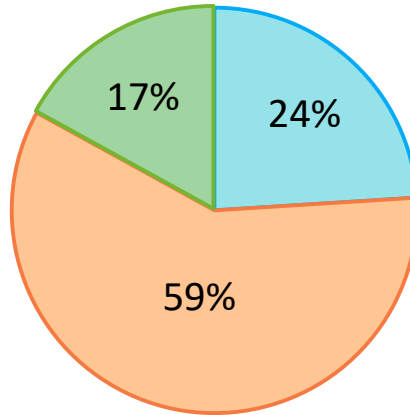
# Opportunities identification and implementation

**Identified: 278**



- Implemented
- Planned
- Not implemented

**Implemented: 66**



- Industrial parks
- Companies
- Industrial symbiosis

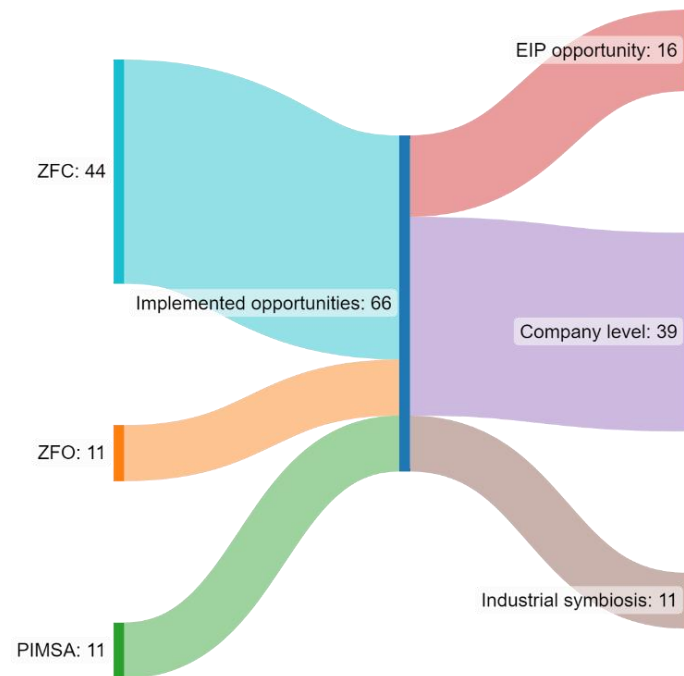
Energy efficiency	46%
Waste management	19%
Water management	11%
Environmental management	10%
EIP management services	9%
Renewable energy	6%

## Impacts

<b>Electrical energy saving</b>	Identified	24,273	MWh/yr
	Implemented	2,865	
<b>Fossil Fuels saving</b>	Identified	24,901	GJ/yr
	Implemented	4,972	
<b>Water saving</b>	Identified	249,85	m <sup>3</sup> /yr
	Implemented	0	
<b>Materials or waste saving</b>	Identified	7,103	t/yr
	Implemented	2,295	
<b>Reduction of CO<sub>2</sub>-eq emissions</b>	Identified	25,881	tCO <sub>2</sub> eq/yr
	Implemented	9,639	

*Identified opportunities: 278*

*Implemented projects: 66*



## Projects financing



- ✓ Alliances with 14 financial institutions
- ✓ 14 financial guides created.
- ✓ 8 workshops (+80 people trained)
- ✓ Financial advisory to 19 projects:
  - 12 in industrial parks
  - 7 in companies

 Bancolombia

 bxc  
Banco de Bogotá

 FENOGGE  
Fondo de Energía y Sostenibilidad  
y Gestión Eficiente de la Energía

 IFC  
International Finance Corporation  
WORLD BANK GROUP  
Creating Markets, Creating Opportunities

 CAF  
REAFORZO DE EMPRESAS  
DE AMÉRICA LATINA

 WORLD BANK GROUP  BANCOLDEX



**Swissness**

Partnership with Ongresso, a Swiss initiative, for financing 22 photovoltaic solar energy projects:

- ✓ 17 identified by the GEIPP
- ✓ 5 supported by the GEIPP

Partnership for sustainable construction for EIP:



# Industrial symbiosis (IS) in Colombia



## Industrial symbiosis in the 3 prioritized parks:

Type of IS	Identified	Implemented
Joint suppliers	1	1
Public services	4	1
Waste exchange	19	6
Services	3	3
<b>Total</b>	<b>26</b>	<b>11</b>

# EIP symbiosis and international reference

## Colombian EIP symbiosis



5 experience exchange sessions:

- Environmental management
- Waste collection center
- Wastewater monitoring
- Sustainable reporting
- Industrial symbiosis



## ZFC – International reference

3 international events to present and advice on:



EIP framework and experiences



EIP implementation



EIP and circular economy





# Guidelines to support EIP Management actions

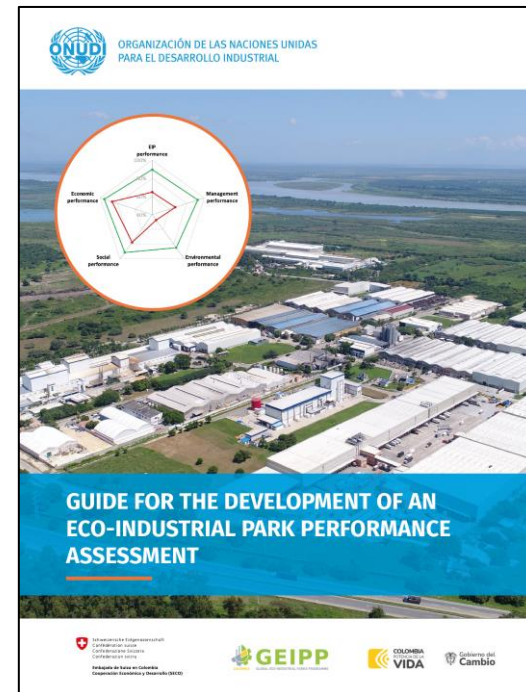
IP Management requested guidance in the following areas:

1. How to conduct EIP Assessment: ***Guide for the development of an EIP performance assessment***

2. ***Guides for Compliance with the International Framework for EIP prerequisites***

- Master plan
- Climate change adaptation program
- Energy efficiency program and Heat recovery strategy
- Wastewater and rainwater reuse program

3. ***EIP performance monitoring tool*** for EIP management decision making and company follow-up (To further explore with the Bogota Free Trade Zone)





UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION



**GEIPP**  
GLOBAL ECO-INDUSTRIAL PARKS PROGRAMME



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Swiss Confederation

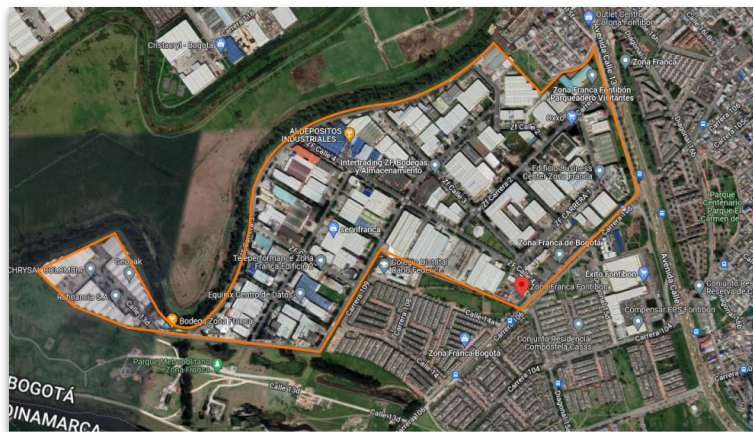
Federal Department of Economic Affairs,  
Education and Research EAER  
State Secretariat for Economic Affairs SECO





# Bogotá Free Trade Zone (ZFB) transition towards Eco-Industrial Park

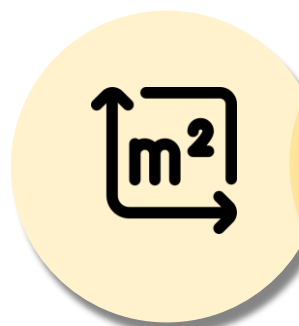
Carla Rey – Legal Director ZFB

# Free Trade Zone of Bogota



 Located just 6 km from El Dorado International Airport

 The industrial park with the highest development in the country (duty-free regime)



Declared Area  
67 Hectares



Installed  
Companies  
400



Direct jobs  
18.600  
People



TR-0320.02724

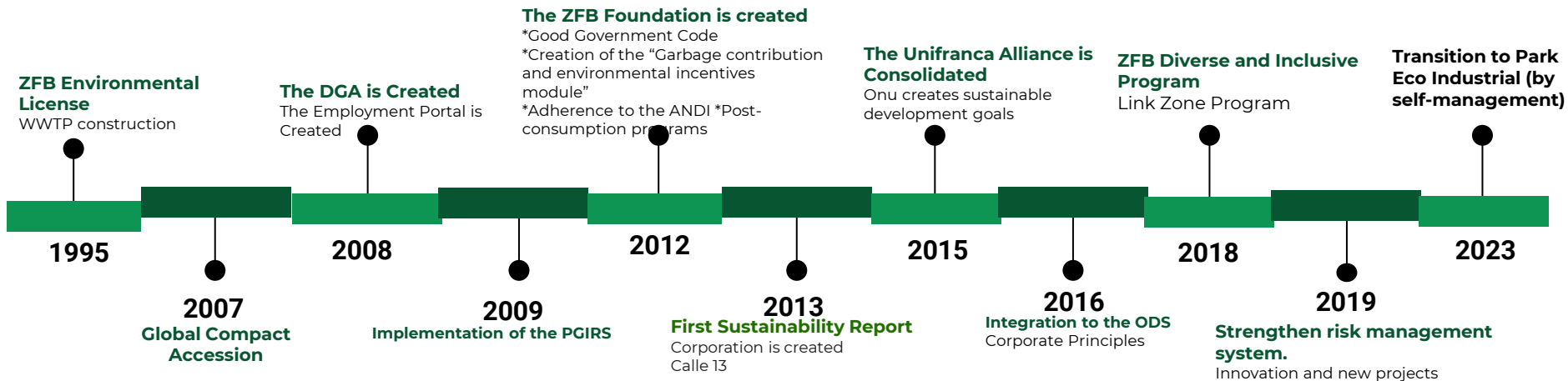


LEADERS ALLIANCE FOR SECURE COMMERCE



www.bascbogota.com

# Timeline ZFB



# ZFB Transition towards Eco-Industrial Park

We have proposed from the ZFB management to advance our strategy and move from a CSR Program to a Sustainability Program, guided by our Transition to an Eco-Industrial Park. For this purpose, we have defined several aspects of collaborative work with user companies

## Goals

- ① ASG risk management of the ZFB park
- ① Collaborative work with user companies: industrial synergy
- ① Strengthening the governance of the ZFB park and the relationship with the environment

# Current management processes at ZFB

ESG information system  
(UNIDO technical assistance)

OSH Committee

Sustainability Committee

Management and monitoring

ZFB Park Biodiversity Identification Campaign

Territorial carbon footprint project (Phase 1)

**Park Administration Performance**

**Social Performance General**

**TRANSITION TO PARK INDUSTRIAL ECO 48%**

**Environmental Performance General**

**Economic performance General**

Unifranca Alliance

Decent Work and DEI  
Park worker satisfaction survey

Community Leaders Network

Strengthening business:

- Link Zone
- SMEs park

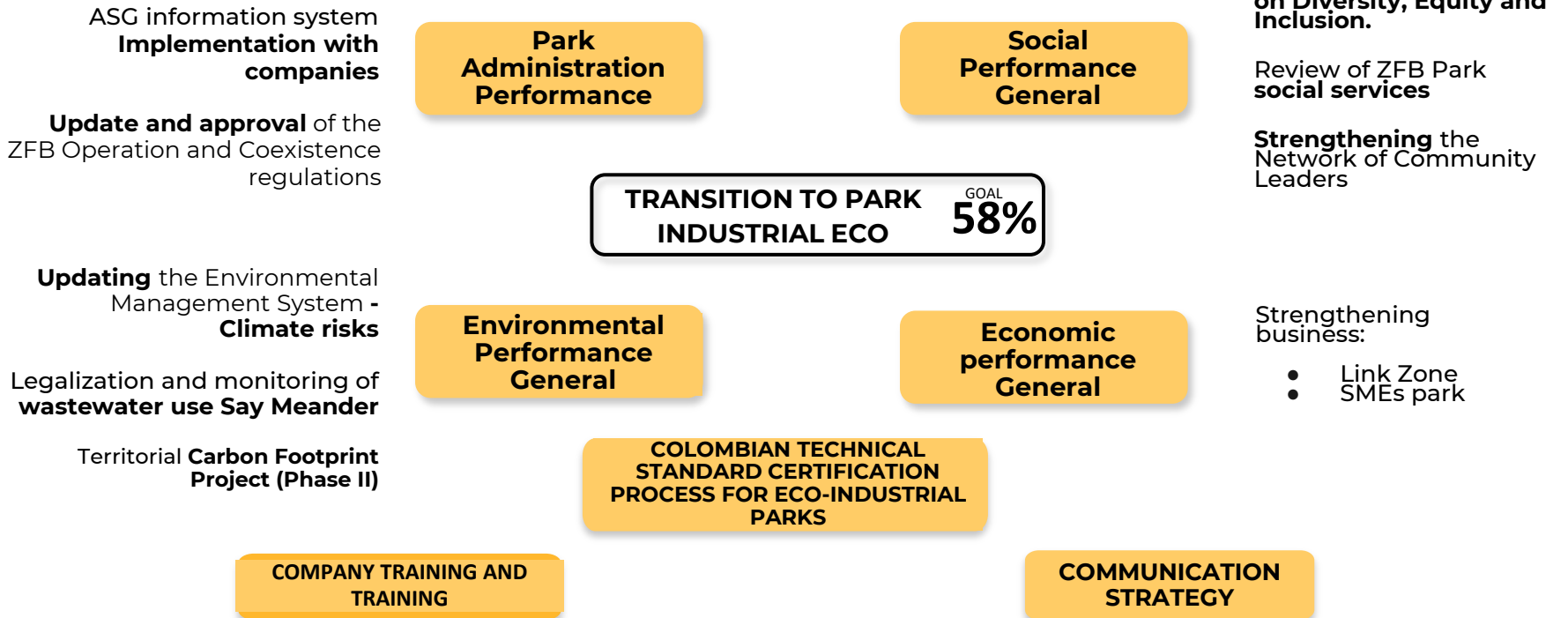
Internationalization Gaps Project

**ESG INFORMATION SYSTEM**

**AWARENESS, TRAINING AND TRAINING FOR USER COMPANIES**

**COMMUNICATION STRATEGY**

# Challenges 2024 - Transition to Eco-industrial Park

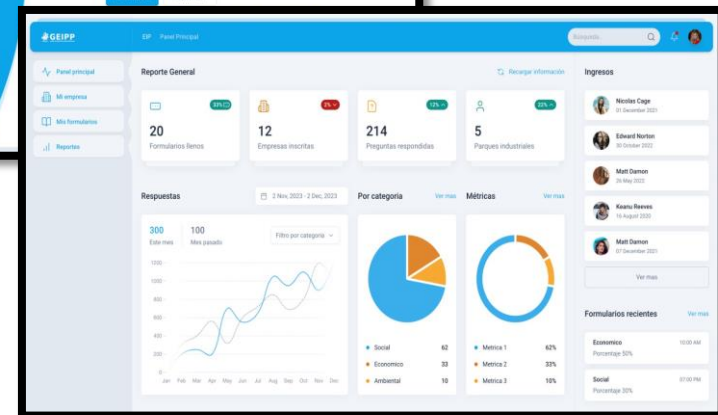
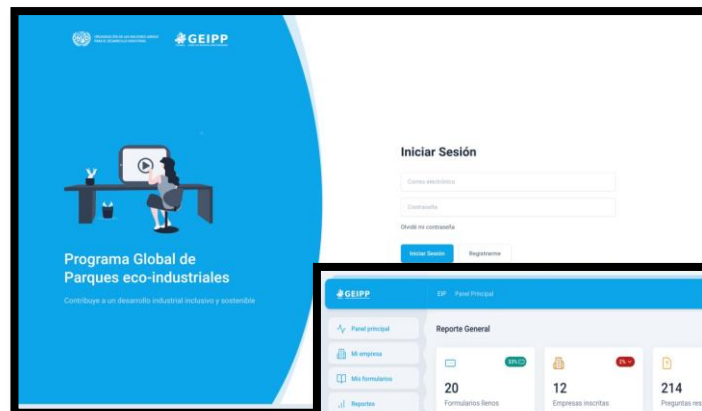


# EIP performance monitoring tool

**Follow up on key management and company information for the 64 prerequisites and performance indicators DEL MARCO INTERNACIONAL PEI**

## BENEFITS

- Facilitate the integration of the EIP Model in the ZFB Park management model.
- Updated data for decision-making.
- Prioritized actions according to the analysis of risks and impacts.
- Provide companies with useful information regarding their internal management.







UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION



**GEIPP**  
GLOBAL ECO-INDUSTRIAL PARKS PROGRAMME



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



THANK YOU!



VISIT THE **UNIDO KNOWLEDGE HUB** FOR MORE  
RESOURCES ON ECO-INDUSTRIAL PARKS