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GEIPP

GLOBAL ECO-INDUSTRIAL PARKS PROGRAMME



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Federal Department of Economic Affairs,
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Eco-Industrial Parks in Egypt

Capacity Building Workshop

18th May 2023



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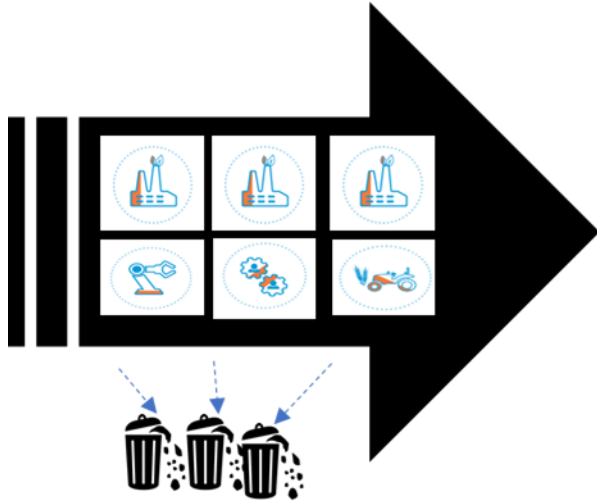
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Eco-Industrial Parks (EIP) Concept and Benefits

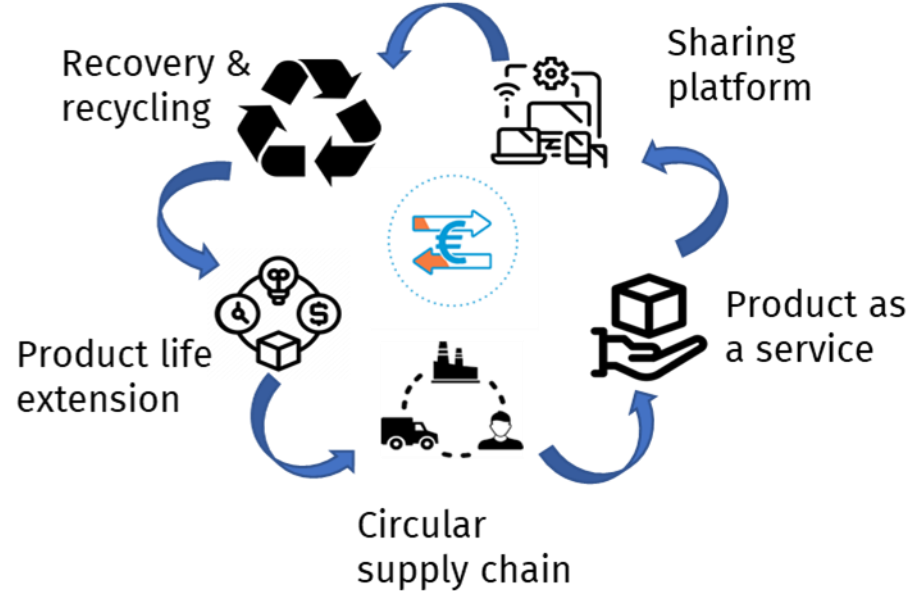
Ahmed Yahia
Chemonics Egypt Consultants

Industrial Park (IP) vs Eco-Industrial Park (EIP)

There is a global need to transform our **wasteful linear** economy into a **sustainable circular** economy



VS



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https://www.youtube.com/watch?v=mHff8af7_wY

Key Benefits of Eco-Industrial Parks (EIP)

Reduce



Consumption and costs of production



Greenhouse gases, waste, and pollution



Environmental, economic, and social risks



Increase

Profitability and foreign investment



Workers' health, safety and quality of life



Access to new technologies and finances



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Eco-Industrial Park (EIP) – From a concept to a scale

This transformation is a great opportunity for industry to discover new, profitable business while acknowledging environmental values



Eco-Industrial Park (EIP) Approach

RECP ASSESSMENT
(scale = Industrial park)

INDUSTRIAL SYNERGIES
(scale = Industrial parks)

URBAN SYMBIOSIS
(scale = Districts)



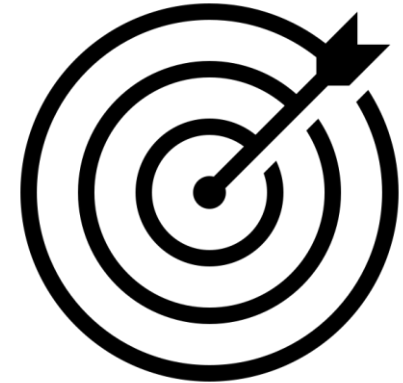
GEIPP Egypt – Polaris Parks Component Overview on Activities, Outcomes and timeline

Nehal Muhamed
Chemonics Egypt Consultants



GEIPP Egypt Project - Ultimate Outcomes

- Strengthen the Industrial Park position to transform to EIP
- Assist companies to improve their profitability and resource efficiency
- Networking and connecting companies to relative service providers and recyclers
- Increase knowledge, awareness, and collaboration among companies towards improved eco-foot print
- Facilitate access to finance for the park and companies in green projects





GEIPP Egypt Project - Activities

Capacity Building (CB) > Technical Assistance (TA) > Policy Brief and Results Documentation

CB – Concepts & Applicability

Eco-Industrial
Park (EIP)

Resource
Efficiency &
Cleaner
Production
(RECP)

Industrial
Symbiosis (IS)

TA – Assessment and Studies

Solutions to increase
efficient use of resources
and waste exchange

Develop pre-feasibility
studies

Develop solutions for
waste/resource
exchange and
industrial synergies

Develop study on UIS

TA – Implementa tion

Develop implementation
plan for solutions

Support to finish
resource/waste exchange
deals

Provide practical training
on top solutions

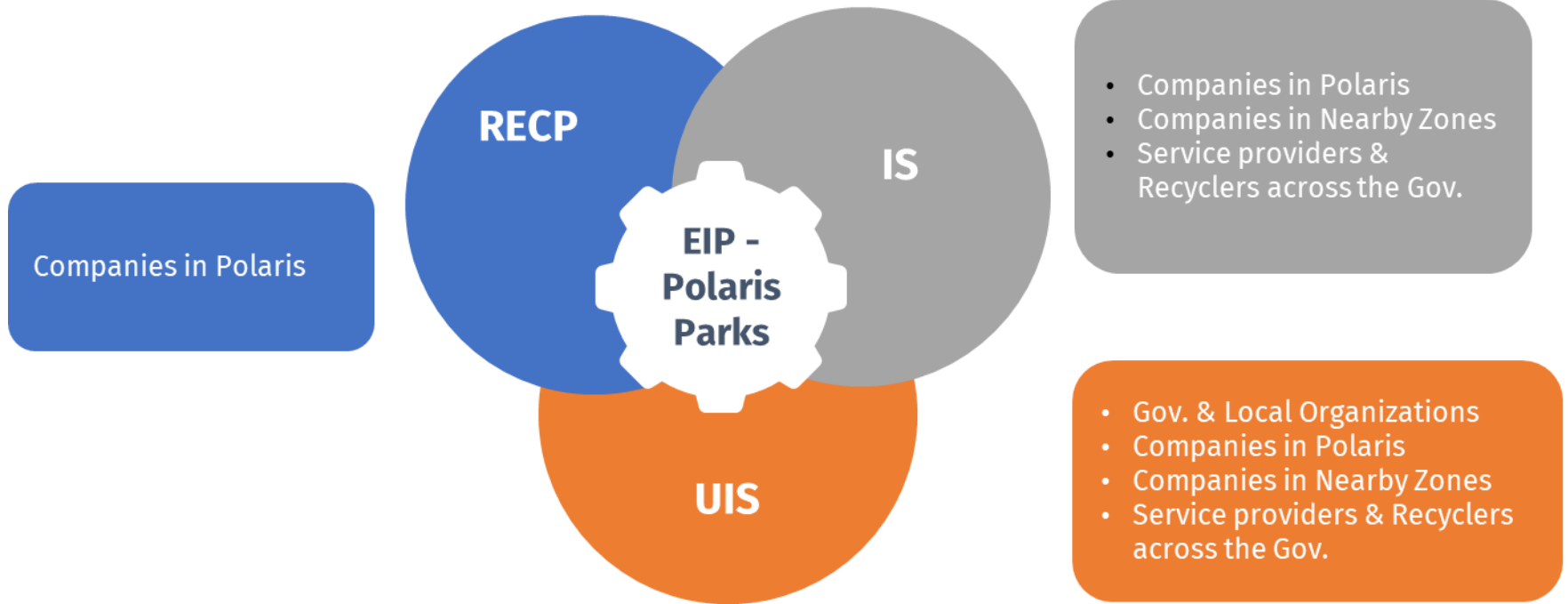
Support to access to
finance

Policy Briefs & Documenta tion

Develop policy
brief based on
generated
result

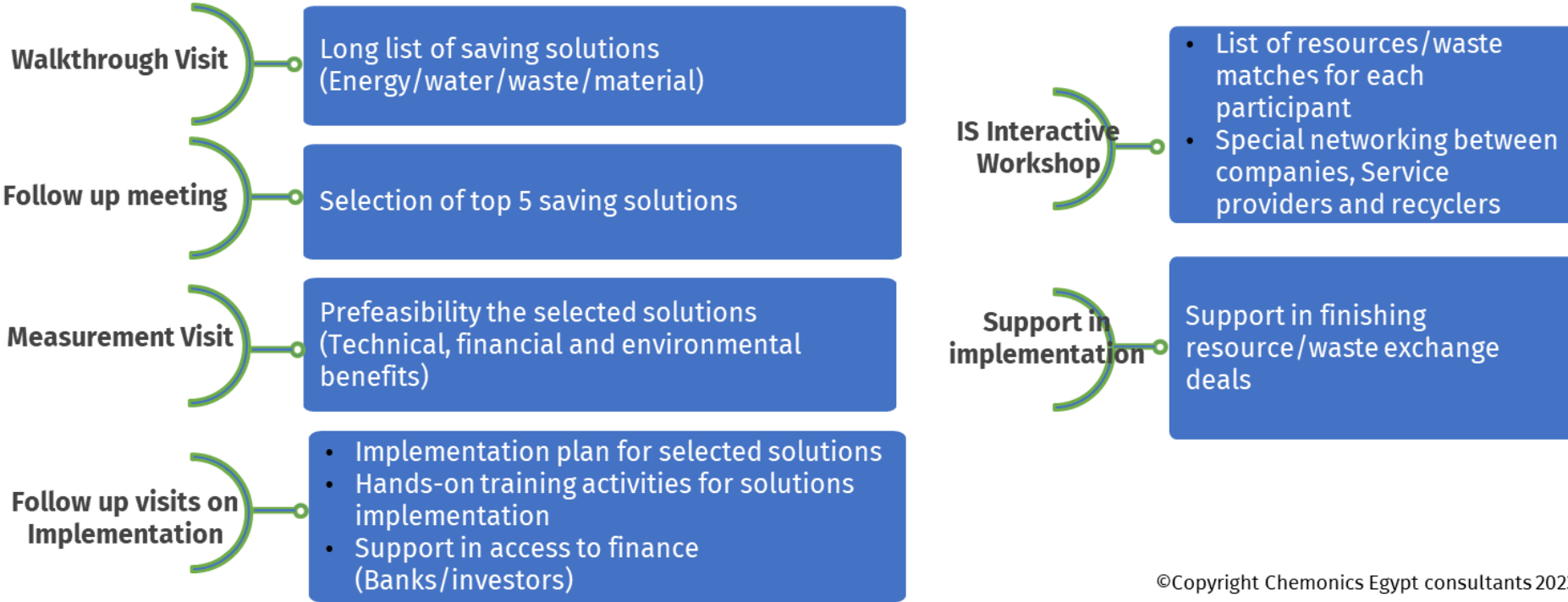
Document
disseminating
results &
impact

GEIPP Egypt Project - Beneficiaries



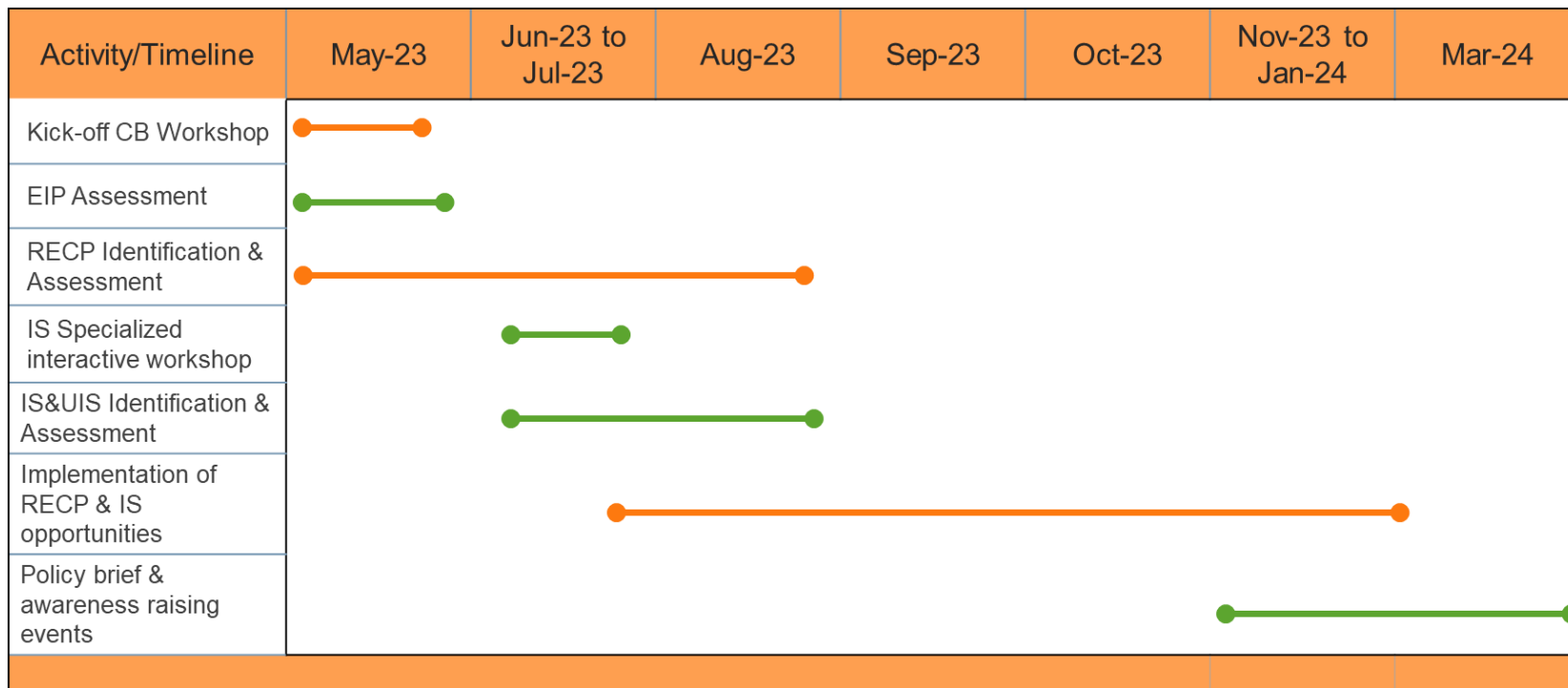
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Project Free Service Packages



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Project Timeline





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EIP Assessment Results – Egyptian and International Experience

Ahmed Yahia
Chemonics Egypt Consultants

Egypt Experience

- Based on CE database and GEIPP assessments 7 Egyptian IP performance varies significantly between 20% and 60%
- Most zones taking the assessment have aspirations to improve above 70%
- Our scoring from highest to lowest
 - ✓ Economic
 - ✓ Park management
 - ✓ Social
 - ✓ Environmental

PARK MANAGEMENT	
75%	(Basic) park management services
25%	Monitoring and risk management
100%	Planning and zoning
ENVIRONMENT	
33%	Management and monitoring
22%	Energy
17%	Water
0%	Waste and material use
40%	Climate change and the natural environment
SOCIAL	
39%	Social management systems
57%	Social infrastructure
0%	Local community outreach
ECONOMIC	
100%	Employment generation
44%	Local business & SME promotion
78%	Economic value creation

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Egypt Experience

- Environmental performance from highest to lowest
 - ✓ Management and monitoring
 - ✓ Climate change and natural environment
 - ✓ Energy
 - ✓ Water
 - ✓ Waste and material use

ENVIRONMENT	
33%	Management and monitoring
22%	Energy
17%	Water
0%	Waste and material use
40%	Climate change and the natural environment

International Experience

Vietnam IP Assessments undertaken

Towards gradual transformation of industrial zones into eco-industrial parks

Vietnam Stats – GEIPP Program



Participants trained
2360



International study tour
2



Events organized
(national / provincial)
38



Publications
20



Experts recruited
40



Expert group meetings (2)
140 participants



Industrial symbiosis studies prepared
18



International EIP training course for decision makers
17 participants



Enterprises involved
76



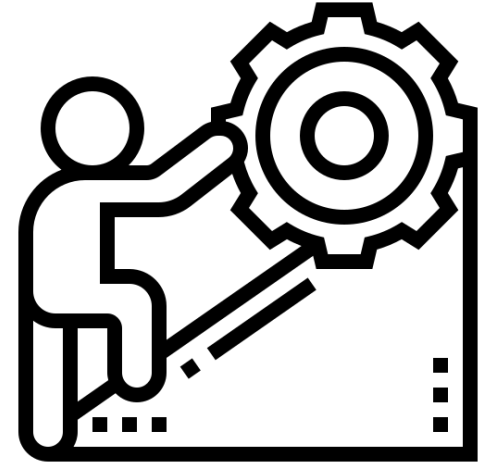
Provinces targeted
3

Typical Challenges & Interventions of Eco-Industrial Parks (EIP)



Typical Challenges for Transformation to EIP

- Financing of new infrastructure and cleaner technologies,
- Weak stakeholders communication channels
- Long time required to change regulatory frameworks and compliance once they are in place
- Uncertain interest and willingness of SMEs to participate in the programme



Typical Measures for Improvement

- ✓ Resource management (park and tenants level)
- ✓ Benchmarking and targets
- ✓ Shared RE investments
- ✓ Symbiotic programme

Environmental



- ✓ Define service needs and link with service providers
- ✓ Conduct workshops for sharing experience
- ✓ Increased systematic assessment of tenants satisfaction and needs

Park Management



Social



- ✓ Design vocational training program
- ✓ Assessment of employees satisfaction
- ✓ Improve social infrastructure
- ✓ Improved gender inclusions

Economic



- ✓ Value added services to SMEs
- ✓ Services to overcome growth challenges
- ✓ Access to finance and improved access to banking services

EIP assessment typically identifies 40-50 measures

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Q&A – Open Discussion



Coffee Break





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RESOURCES ON ECO-INDUSTRIAL PARKS