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# Piloting the International Framework for Eco-Industrial Parks (EIP)

## Preliminary Findings and Contribution to Circular Economy in Moldova

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## What is an Eco-Industrial Park?

*"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.**

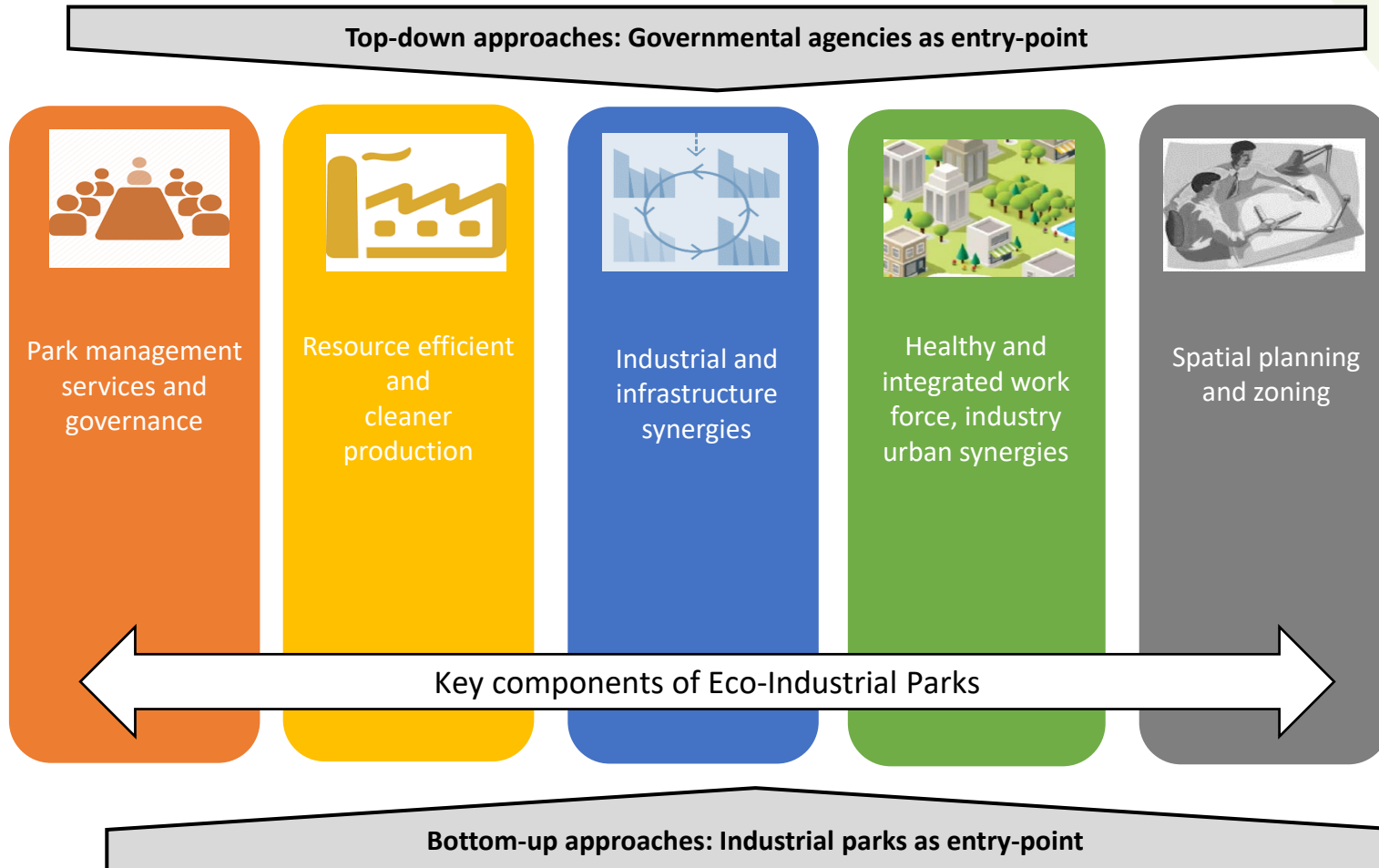


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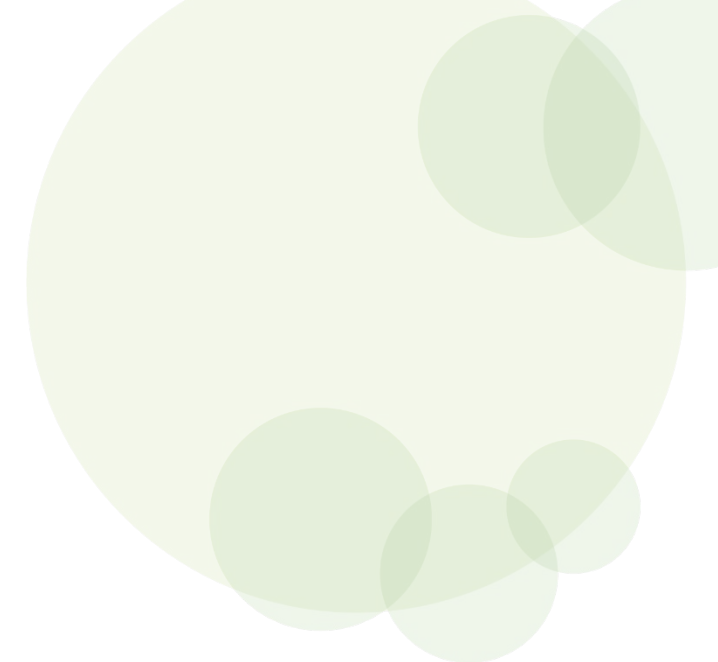
## Key components of Eco-Industrial Parks





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# Pilot EIP Assessments in Moldova

## Summary of Key Activities

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# National Baseline Assessment and IP Selection

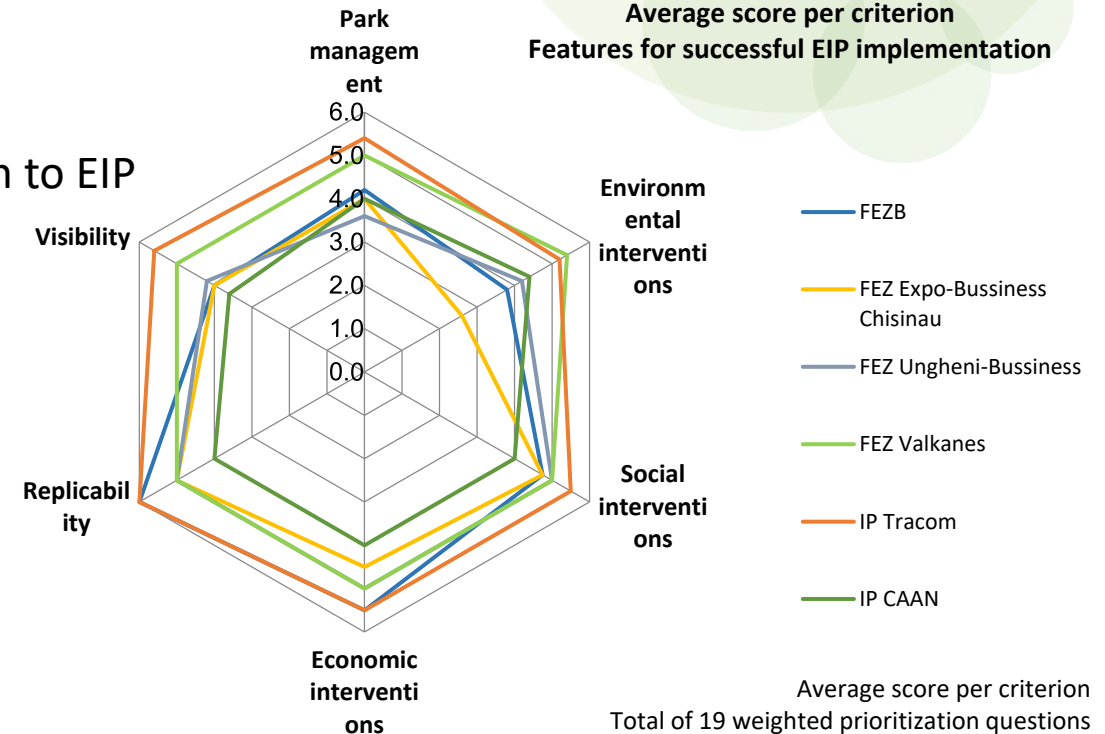
1. Step 1: Undertaking a National Baseline Assessment
  - a) Types of Industrial Parks
  - b) Inventory and Review of the Industrial Parks
  - c) Inventory and mapping of top 5 policies in relation to EIP
  - d) Inventory and mapping of stakeholders
2. Shortlisting and selecting IPs for the Pilot
  - a) Long list
  - b) Pre-selection
  - c) Prioritisation

## IPs selected for the Assessment

- FEZ Valkanes
- IP Tracom

3. Undertaking the **EIP Feasibility Assessment Pilots**

**Prioritization of industrial parks**  
Average score per criterion  
Features for successful EIP implementation



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# Key Findings of the EIP Assessments

Preliminary findings from remote assessments undertaken

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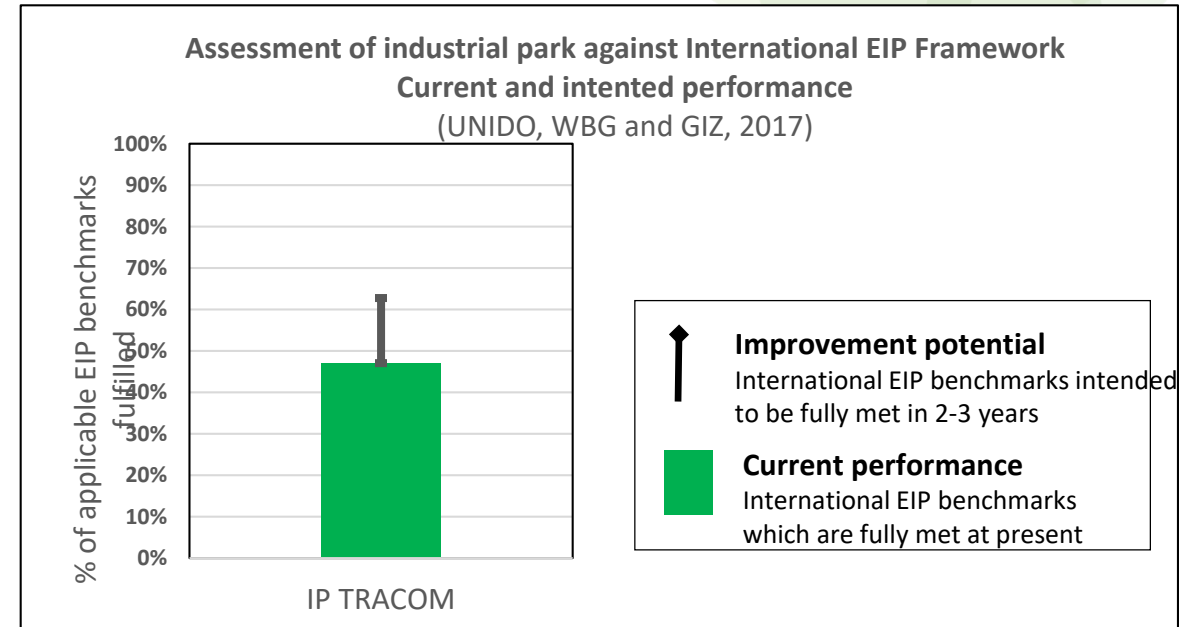
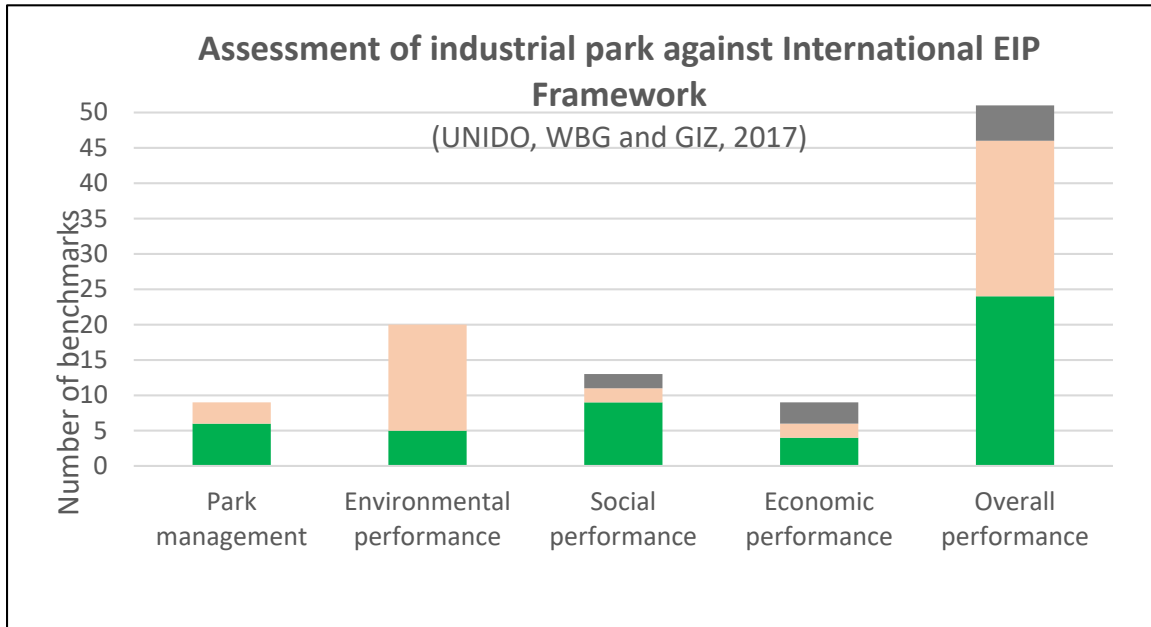


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# Preliminary Findings of the EIP Assessment – IP Tracom



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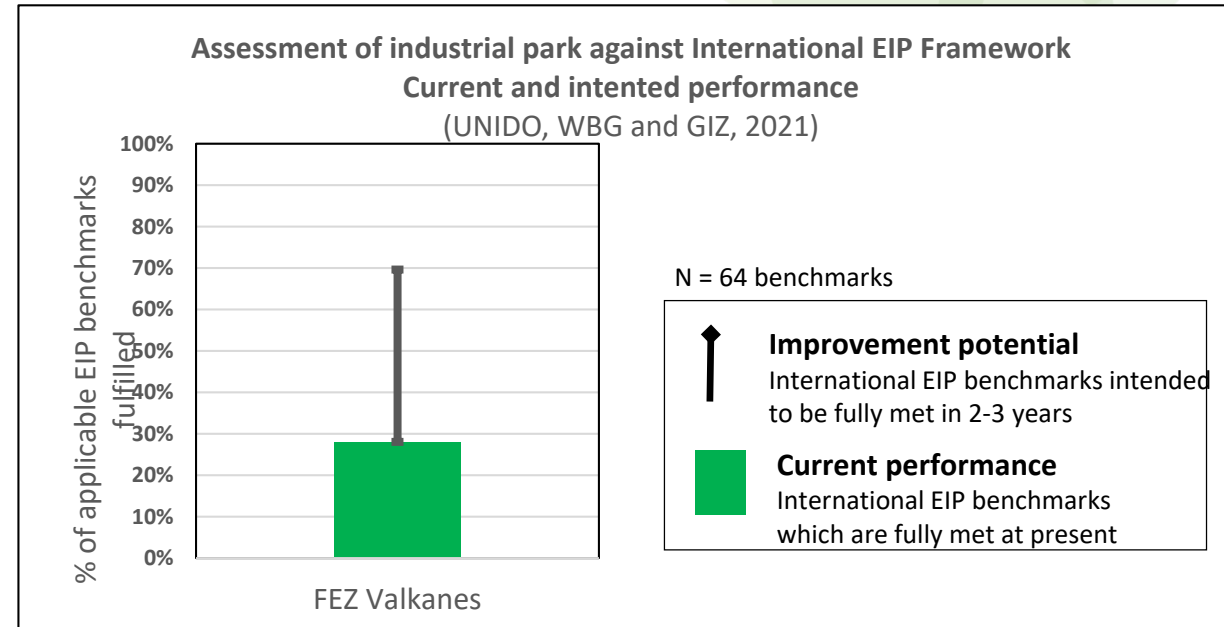
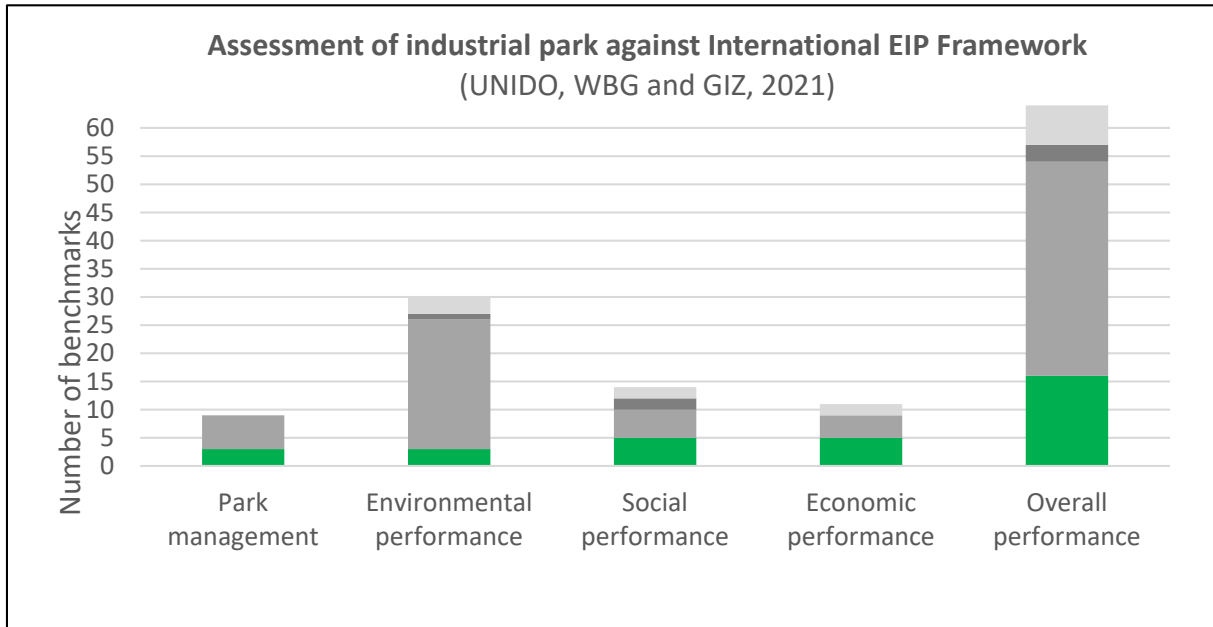


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# Preliminary Findings of the EIP Assessment – FEZ Valkanes



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# Findings from the assessments

- Strong, formal park management entities
- Need to have a formal master plan that includes:
  - Site selection
  - Essential and efficient infrastructure,
  - utilities and transportation network;
  - Environmental and social impact assessment;
  - Internal park land zoning;
  - Buffer zone around the park;
  - Procedure to safely locate high risk industries;
  - Plans to locate and cluster synergistic industries.

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## Findings from the assessments (2)

- Undertaking risk assessments for environment, social and economic performance that leads to an Environmental Social Management Plan (ESMP) → formal records of risks and mitigative actions
- Gaps in legal framework e.g. waste and hazardous waste management
- Potential to have formal contracts with tenant companies that include responsibility for tenants to support in greening of IP (waste, energy, water, pollution monitoring, etc.)
- Improved opportunities for saving resources through cleaner production and resource efficient practices

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# Potential benefits of EIP Support provided to Circular Economy

## Benefits:

- Improved industrial symbiosis
- Improved park management facilities
- Improving tenants' efficiency and performance
- Efficient management of Industrial Parks
- Reduced resource consumption (raw materials, energy, water, fuel)
- Reduced air, water and land pollution
- Cleaner environment
- Protected biodiversity and habitat
- Better H&S and welfare standards
- Local jobs creation
- Growth of SMEs
- Improved local economy





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# EIP support in Moldova: Potential Contribution to the Green Deal

## Contributing to CE/Green Deal:

- Reducing resources and pollution through creation of industrial symbiosis
- EU's climate ambitions for 2030 and 2050 e.g. Zero Pollution Action Plan for air, water, soil and noise pollution
- Mobilising industry for a clean and CE and shifting towards sustainability
- Preserving and restoring ecosystems and biodiversity
- A zero pollution ambition for a toxic-free environment
- Creating a workforce to meet CE and sustainability goals for the green deal
- Empowering Industry/SMEs to achieve CE targets
- Mobilising research and fostering innovation
- Creating the infrastructure to support industry and growth in CE
- boosting global competitiveness, fostering sustainable economic growth & generating new jobs (EU Action Plan for Circular Economy)



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# Next Steps

- Continue supporting the EIP development through the two pilot sites to propose:
  - Potential solutions and a roadmap to address industrial environmental challenges through EIP framework
  - Gaps in legal framework that could help create environmentally friendly industries and Industrial Parks/Zones
  - Potential solutions for industrial symbiosis, resource efficiency and cleaner production that would lead to Circular Economy, reduced pollution and improved biodiversity

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# Questions and discussion..



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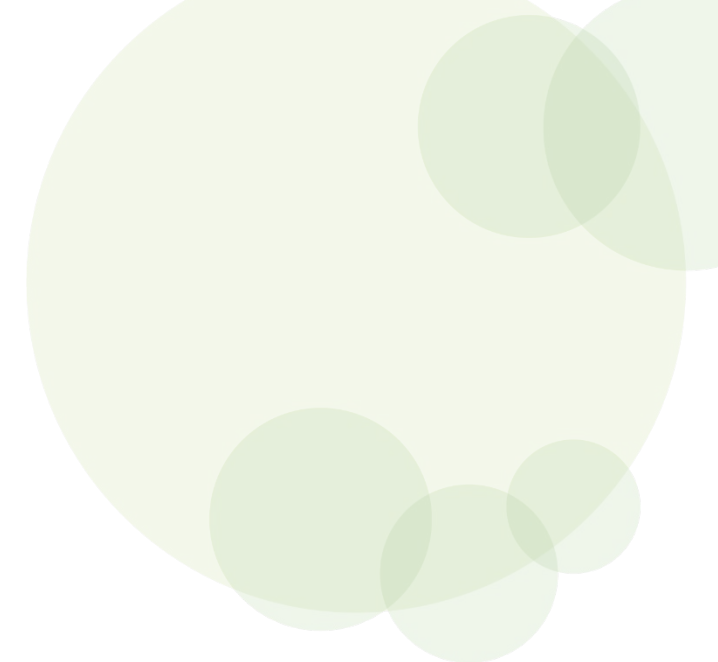


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# Thank you!

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