

Capacity Building on System Transformation at the WEF Nexus

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Thanh Thanh Tranova
Network Engagement and Capacity Building Specialist



Why Are We Here today

- Climate challenges are increasingly interconnected
- Solutions require coordination across sectors, institutions, and technologies
- The WEF Nexus offers opportunities for integrated climate action
- Today focuses on practical learning, peer exchange, and identifying opportunities for implementation

What Do We Mean by System Transformation

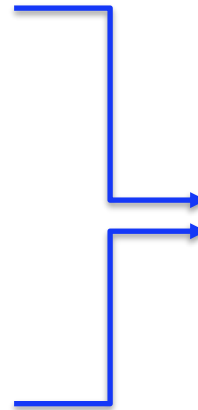
- moving beyond isolated projects,
- strengthening coordination across sectors,
- connecting technologies with institutions and policies,
- and creating long-term, scalable impact.

Common Challenges

- Climate risks
- Resource pressures
- Coordination gaps
- Competing priorities

Opportunities

- Stronger resilience
- Better resource efficiency
- Cross-sector benefits
- More impactful investments
- Scalable solutions



Role of NDEs

- Connecting sectors and institutions
- Supporting integrated technology planning
- Identifying technical assistance opportunities
- Strengthening regional collaboration

Key Insights from LAC NDCs and Technology Priorities

- **9 LAC countries** reference **digitalisation in agriculture** as a tool to strengthen endogenous capacity development
- Strong demand for **capacity building** that connects:
 - Digital tools and technologies
 - Institutional systems
 - Governance and coordination mechanisms
- Emphasis on moving beyond **standalone digital applications** toward integrated system approaches

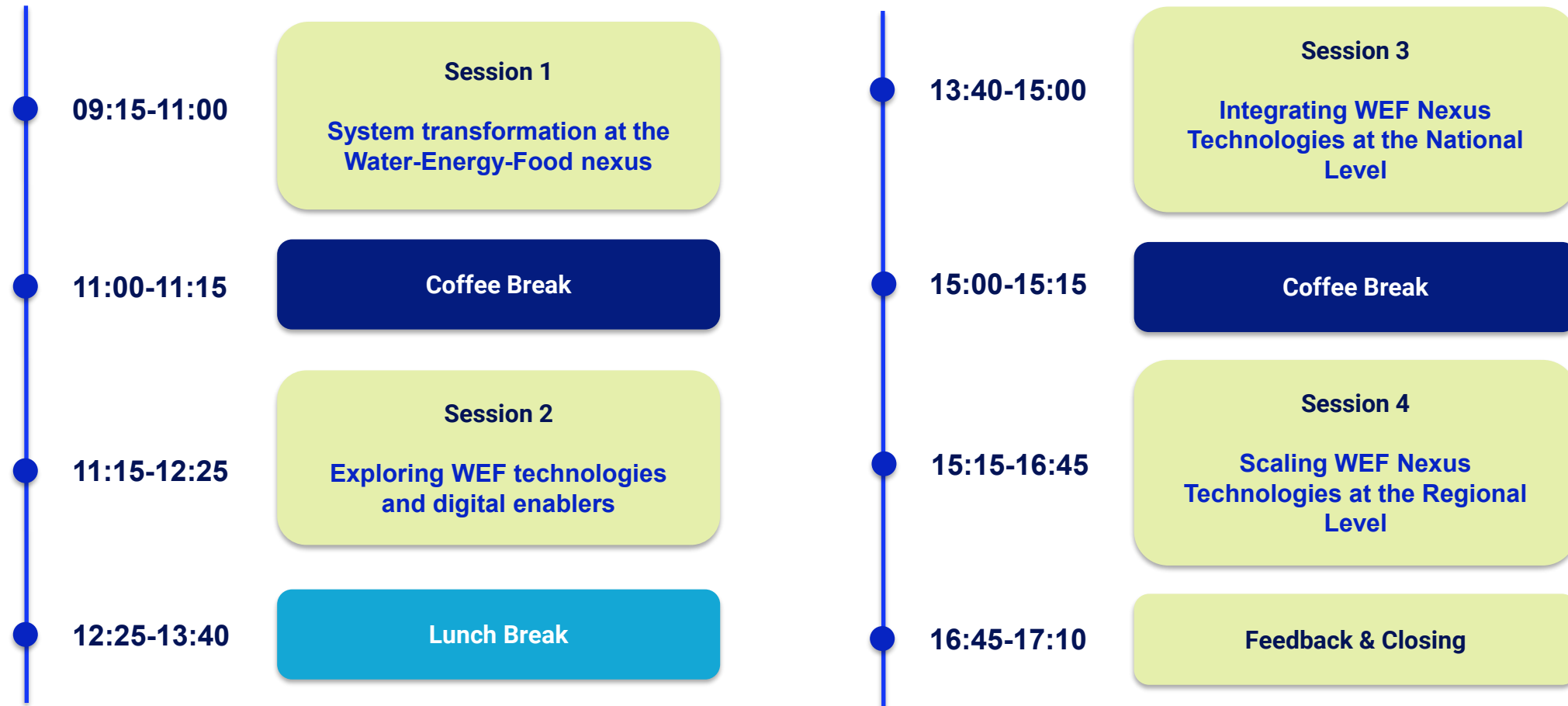
Regional Priority Technologies

Water Management	Energy
<ul style="list-style-type: none">• Rainwater harvesting• Stormwater reclamation and reuse• Water mapping and modelling• Water-quality monitoring	<ul style="list-style-type: none">• Energy-efficient buildings and lighting• Bioenergy solutions• Solar energy technologies

Overall Regional Trend

- Increasing readiness for **cross-sector system transformation**
- Strong relevance of the **WEF nexus approach** for future climate technology implementation and scaling in LAC

Today's Workshop Schedule



Session 1

Setting the scene: Evolution of the WEF Nexus in CTCN's Work

Ramiro Salinas Revollo, Latin America & Caribbean Regional Manager, CTCN

CTCN Spotlight on WEF System Transformation TA

Oiko Logica, Implementing Partner (video recording)

National Insights: WEF Nexus in Belize

Panel discussion with national representatives

Group Discussions & Plenary Sharings

Session 2

WEF technologies through #AI4ClimateAction

Pedro Ivo Ferraz da Silva, TEC Chair, Brazil

WEF Emerging Tools, Technologies, and Scenario Workshop

Carina Fearnley, Professor in Warnings and Science Communication & Director UCL Warning Research Centre, UCL

Session 3

Integrating WEF Nexus Technologies at the National Level

Santiago Nuñez, Coordinator of National Adaptation Plans, UNEP (virtual presentation)

Q&A

Individual Exercise – National Mapping and TA Opportunities

Session 4

Regional Perspectives on Scaling WEF Nexus Solutions

Dr. Juana Garcia-Saqui, Adaptation Fund Coordinator, PACT

Jacinto Buenfil, Environment and Climate Change Policy Officer, FAO (virtual participation)

Q&A

Group Exercise: Regional Pathways and Collaboration

Group Presentations

Expected Workshop Outputs

Session 1

Understand **the concept and components of WEF** and reflect on the real-world examples of WEF nexus in- and out-side LAC for pattern identification.

Session 2

Getting to know **emerging technologies** that may support WEF nexus system transformation, and **scenario workshop** in a smaller group to ideate which technology may be implemented and what institutional or data requirements would be needed.

Session 3

Individually **map the national priorities** by reviewing NAP documents and ideate on TA projects respectively.

Session 4

Group exercise on **regional pathways and collaboration** on TA ideated individually, and presenting to each other to understand common challenges and opportunities.

Structure of the Group discussions

For group discussions, you will work in four groups:

- Each group will choose a facilitation lead or rapporteur to help guide discussions and report back to plenary.
- Each group will choose a note-taker and use flip charts



Materials at hand

to support readiness and engagement

- Workbook for exercises and individual reflections

Flow of the Session

The sessions will move from initial framing and individual reflection, to group-based discussions, and conclude with shared insights and collective learning in plenary.

Listen

Reflect

Discuss

Share



Session 1

System transformation at the Water-Energy- Food Nexus

Guiding questions for discussion

- Which institutional or governance conditions enabled successful interventions in WEF Nexus systems?
- When pilots or projects end, what lasting capacities or knowledge remain to sustain system transformation?
- How can NDEs best support coordination and learning across sectors to enable integrated solutions?

Preguntas orientadoras para el debate

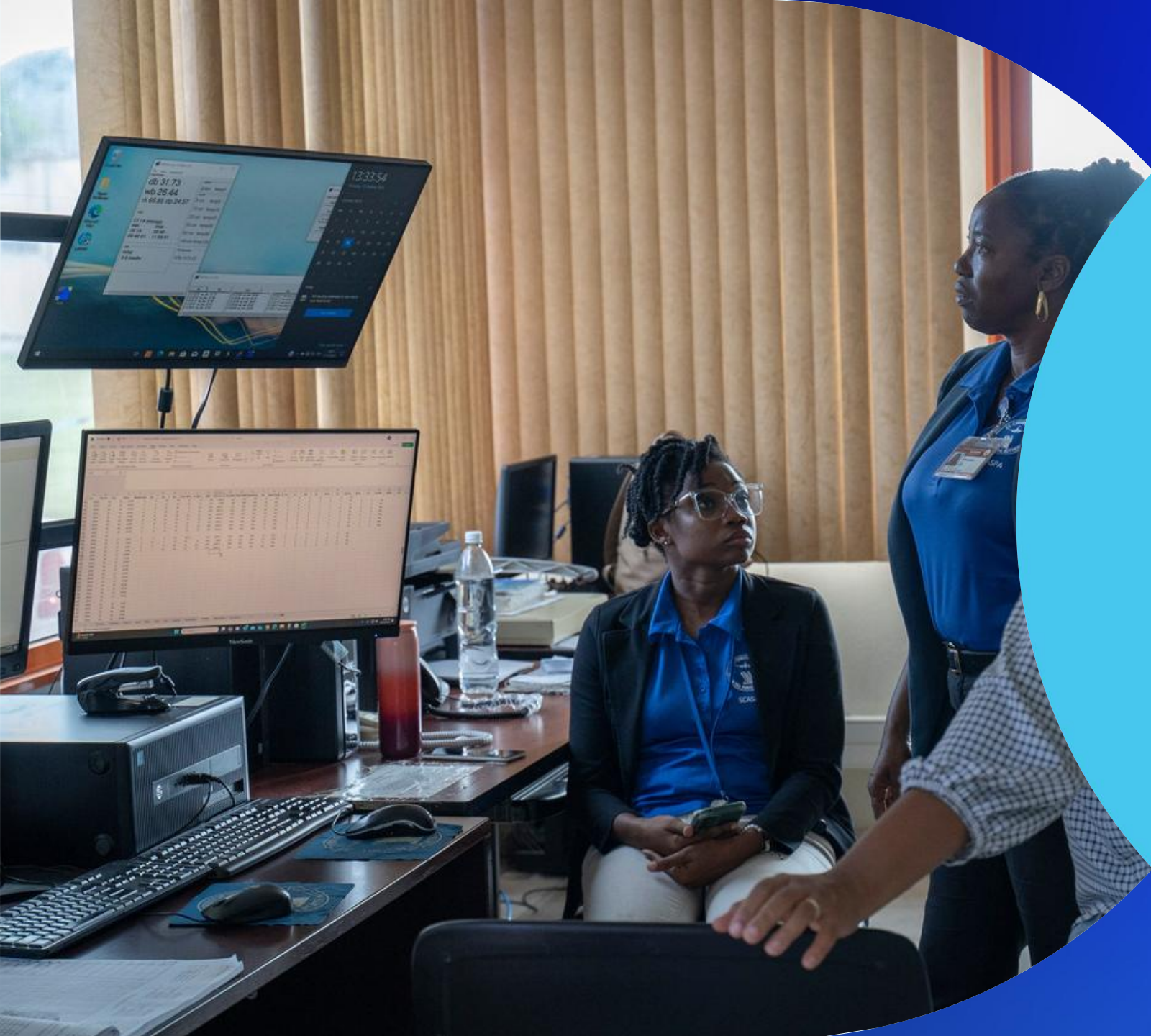
- ¿Qué condiciones institucionales o de gobernanza facilitaron intervenciones exitosas en los sistemas del nexo agua-energía-alimentos?
- Cuando finalizan los proyectos piloto, ¿qué capacidades o conocimientos duraderos permanecen para sostener la transformación sistémica?
- ¿Cómo pueden las ENDs apoyar mejor la coordinación y el aprendizaje intersectorial para facilitar soluciones integradas?



Coffee break

Session 2

Exploring WEF technologies and digital enablers





Lunch break



Session 3

Integrating WEF Nexus Technologies at the National Level



Coffee break



Session 4

Scaling WEF Nexus Technologies at the Regional Level

Group Exercise

– Regional Pathways and Collaboration

Guiding questions

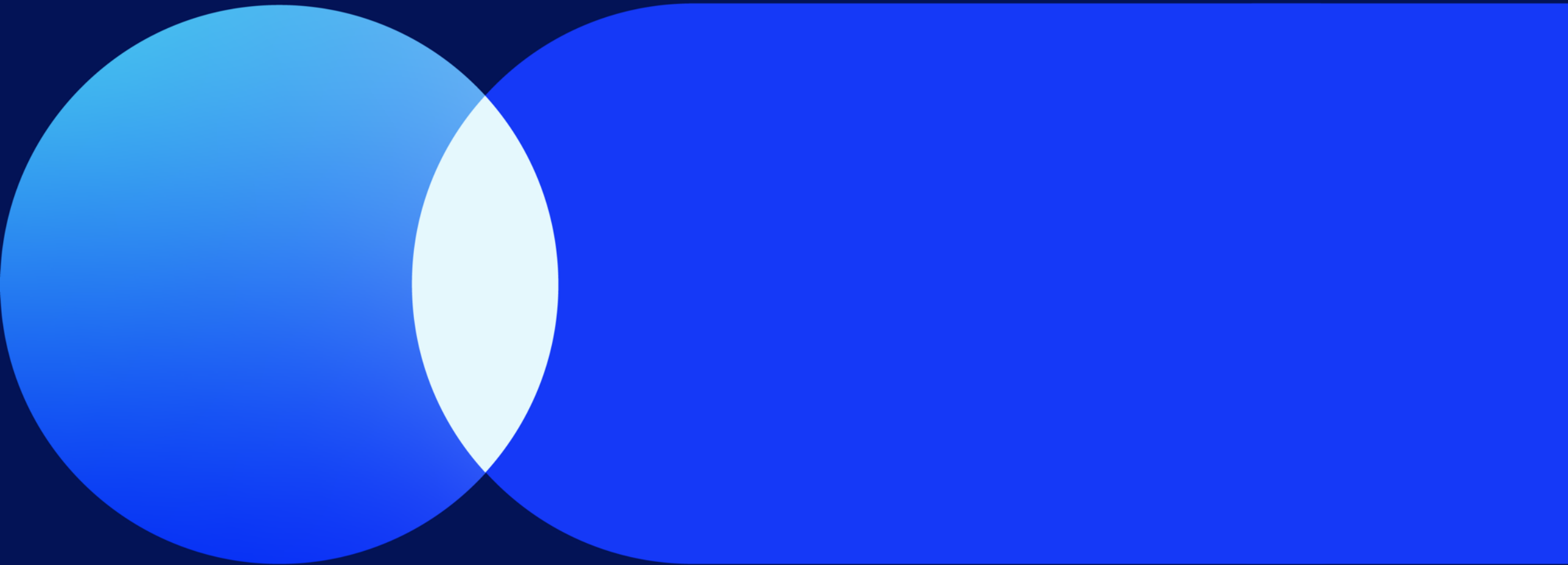
- Which WEF-related challenges or priorities are common across countries in your region?
- Which WEF technologies, approaches, or solutions show the greatest potential for replication or scaling across the region?
- What specific role can NDEs play in strengthening **regional** coordination and collaboration on WEF nexus solutions?

Preguntas orientadoras

- ¿Qué desafíos o prioridades relacionados con el nexo agua-energía-alimento son comunes en la región?
- ¿Qué tecnologías, enfoques o soluciones vinculadas al nexo agua-energía-alimento tienen un mayor potencial para su replicación o escalamiento a nivel regional?
- ¿Qué papel específico pueden desempeñar las ENDs en el fortalecimiento de la coordinación y colaboración **regional** en torno a soluciones del nexo agua-energía-alimento?



Feedback & Closing



Site Visit – Friday 22nd May

Meeting time and place: **7:30 am at San Ignacio Resort Hotel**

Departure to Bulridge's Management Areas:
•Mountain Pine Ridge Forest Reserve (MPR)
•Chiquibul Forest Reserve (CFR)

Meet at entrance of Chiquibul Forest Reserve

Presentation about Bulridge and tour of facilities/trail hiking by creek

Group photo and travel back to MPR (for lunch)

Lunch

Tour along oak burn to see thinning operations, prescribed burns, and restoration

Thank you note by NCCO and departure to San Ignacio



What to bring with you

- Hiking/comfortable shoes
- Swimwear (if you'd like to have a swim) + towel and clothes to change into
- Mosquito spray
- Sunscreen
- Bottle of water

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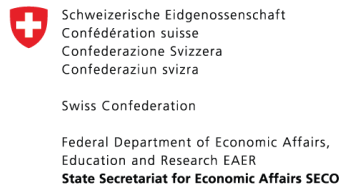
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