

Summary of Previous Day

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Summary of Day One (part 1)

- Systems solutions provide a better approach for dealing with today's complex problems
 - More effective outcomes
 - Provide cost savings
 - Deal with systemic risk
- Systems thinking and nexus thinking is critical for Brazil:
 - Soil-water-energy-food-biodiversity-climate nexus
 - Move from competitivty to sustainability to multi-functionality
- Challenges in the Amazon benefiting from systems analysis
 - Amazon close to tipping point
 - Huge potential of a biodiversity-driven bio-economy in the Amazon
 - Need for a systems shift driven by disruptive new technologies



Summary of Day One (part 2)

- Systems Analysis, restoration and SDGs
 - Systems analysis helped identify solutions for restoration that achieve benefits for biodiversity, climate change and the economy
 - Practical systems analysis it can illuminate, map, quantify and offer actionable evidence
- Six transformations to achieve the SDGs
 - World is at a cross-road key is to exploit synergies and minimize trade-offs
 - Digitalization offers huge potential but there are risks

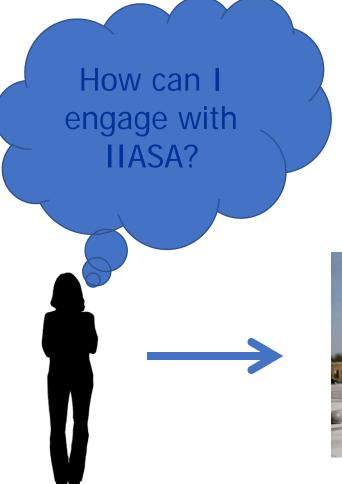


Summary of Day One (part 3)

- Challenges for systems analysis
 - Big data Integration of analytical techniques, adoption of artificial intelligence and machine learning techniques
 - Reducing the climate risks for farmers
 - Food and nutrition security in the Americas
 - Engaging the public in complex issues such as climate change
 - Building a sustainable water future requires looking across the energy, food, climate change and land-use sectors to find win-win situation
- Future strategy for IIASA
 - Most important challenges for the Americas: Governance, innovation, institutions and natural resources + education and communication

MECHANISMS TO ENGAGE (1)





IIASA gives researchers access to complementary knowledge, new perspectives, new methodologies, new data, new partnerships, and new sources of funding.



MECHANISMS TO ENGAGE (2)

- PhD students Young Scientists Summer Program (apply Oct to Jan for 3 month program (June to July)
- Postdocs Various programs:www.iiasa.ac.at/pdoc
- All levels:
 - Employment (c 80 newcomers each year)
 - Shared appointments (40% IIASA researchers part time)
 - Visitors & conference participants (c 1600 a year spending between a day and one month at IIASA)
 - Co-authors on publications (c 850 a year)
- Partners on externally funded projects (c 150 projects ongoing)
- IIASA is interested in developing new mechanisms to engage researchers from its member countries



Thank you

For further information about IIASA: <u>www.iiasa.ac.at</u> or <u>inf@iiasa.ac.at</u>

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