

# 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 competitiveness 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)

How can I  
engage with  
IIASA?

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](http://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:

[www.iiasa.ac.at](http://www.iiasa.ac.at) or [inf@iiasa.ac.at](mailto:inf@iiasa.ac.at)

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