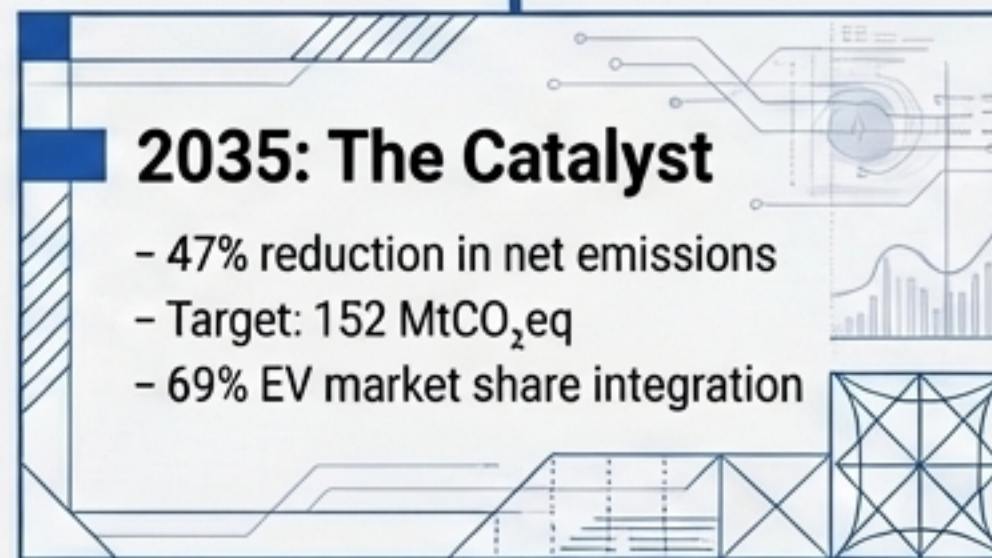
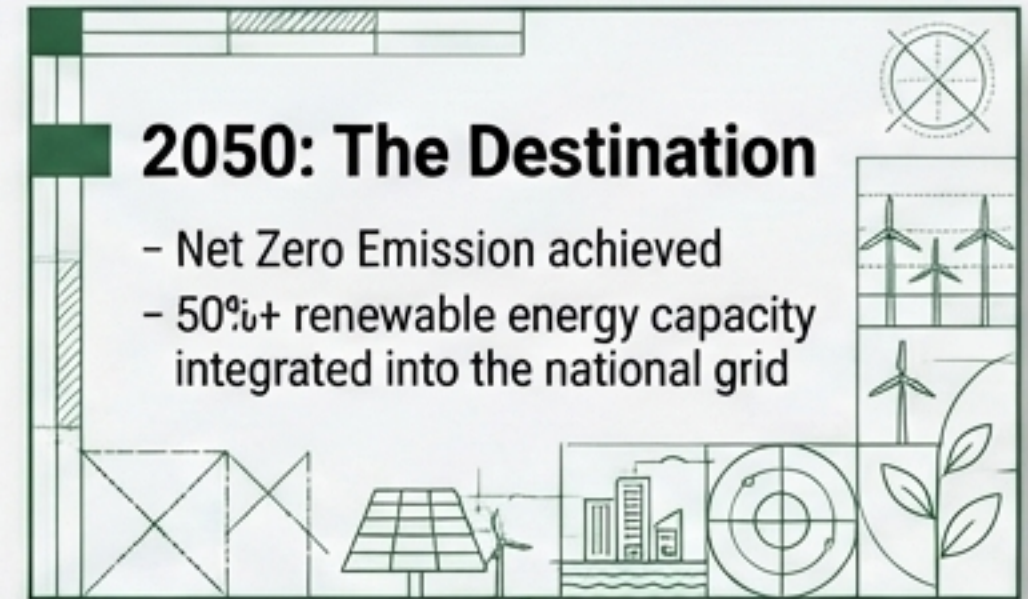
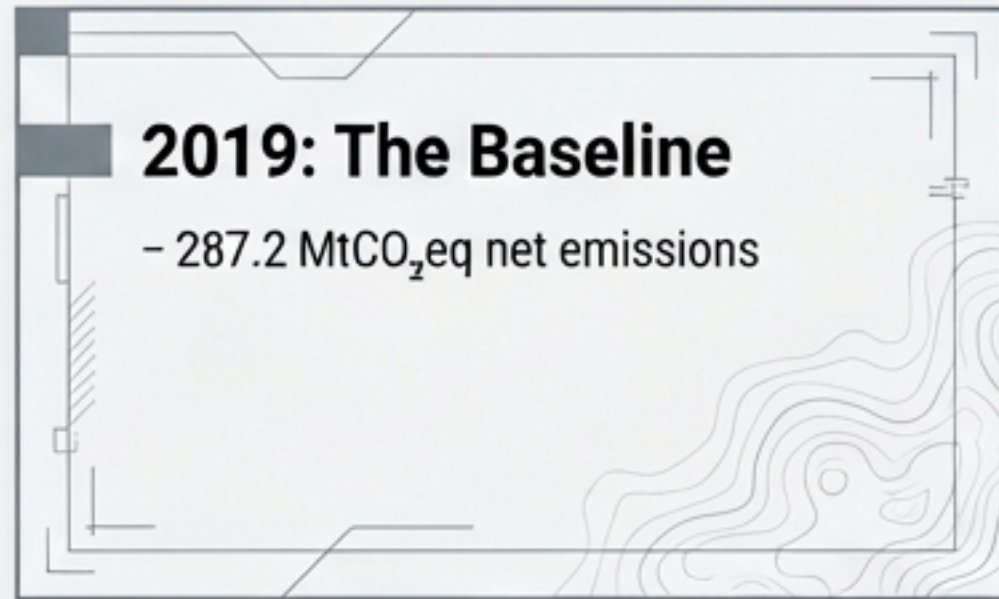


Driving the Bio-Circular-Green Economy with AI

EGNRET 64 & EGEEC 66 Joint Meeting
1-2 April 2026 Bangkok, Thailand

The Decarbonization Trajectory



Scaling Transformation Requires a Massive Canvas

Thailand's agricultural sector is not just a traditional industry; it is an unprecedented, untapped surface area for AI and green technology deployment.

46% of Total Land Area
(~149.3 Million Rai)

12.7M Workers (30% of the
National Labor Force)

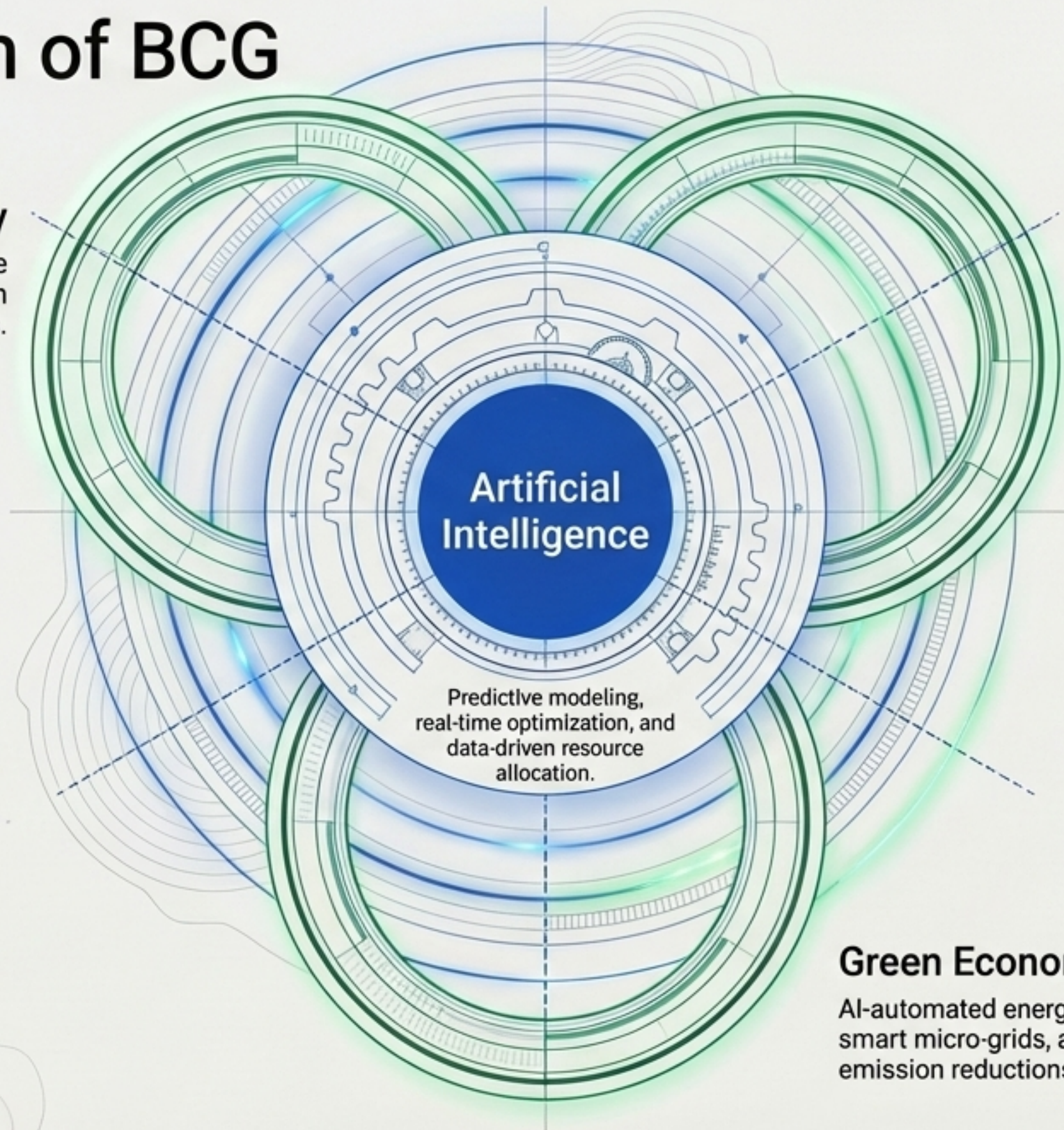
7.4M Agricultural
Households



AI Operates as the Central Nervous System of BCG

Bio Economy
AI-powered precision agriculture maximizing yield and value from raw biological resources.

Circular Economy
Smart logistics and material tracking to close the loop and achieve zero-waste lifecycles.






Green Economy
AI-automated energy management, smart micro-grids, and drastic emission reductions.

Proving the Model at the Nong Changyai Reservoir

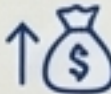
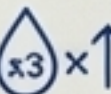

Ubon Ratchathani Prototype



AI & Tech Interventions

	Drone Topography: AI-assisted aerial surveys actively monitor crop health and plan precision water delivery routes.
	Smart Water Management: Automated drip and sprinkler systems replace highly inefficient flood irrigation.
	AWD Protocol: Alternate Wetting and Drying for rice cultivation, entirely optimized by real-time data sensors.

BCG Outcomes

	Double Farmer Income
	Triple Irrigation Area and Water Supply
	Increase Downstream Ecology Flow



Thank you