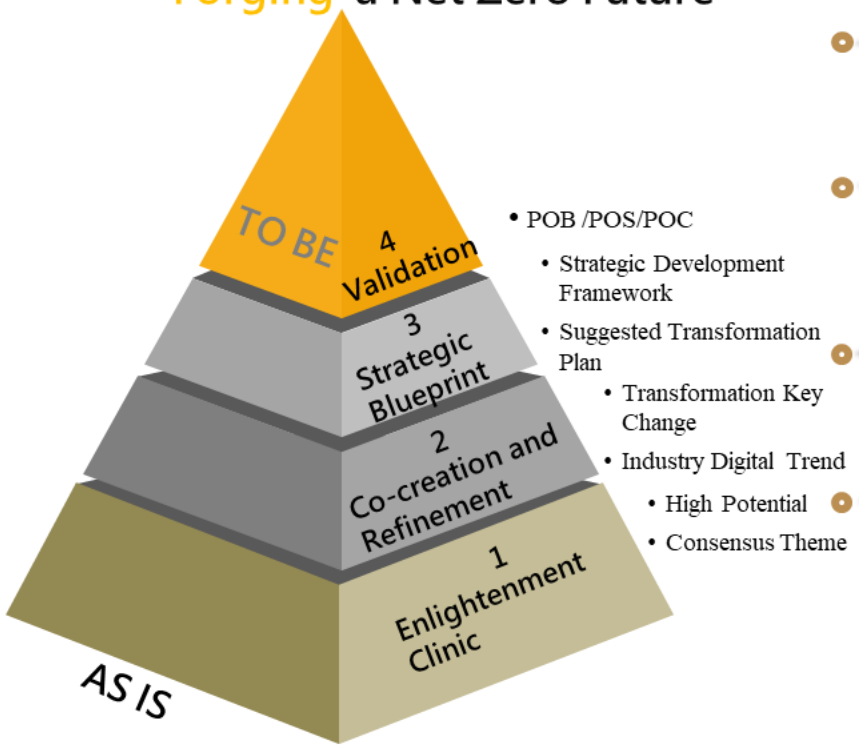
Methodology for Agricultural Digital Transformation and Green Innovation in Yunlin

Smart Technology Quenching into Gold
Forging a Net Zero Future



Transformation Validation

Counseling digital and green transformation in agriculture. Building a dual-transformative service for regional revitalization - Smart AgTech and implementation fields, exemplified by greenhouses and poultry houses.

Strategy Blueprint

Unfolding a strategic blueprint in accordance with Ministry of Agriculture: Service Design for digital green, transformation development framework.

Co-creation and Refinement

Smart Agriculture、AI Digitalization、Net-Zero Sustainable Talent Cultivation;
Success stories as guidelines for the adaption of new knowledge and technologies.

Enlightenment Health Clinic

Gathering consensus with agricultural stakeholders, assessing digital proficiency, identifying digital disparities, and understanding stakeholder willingness to participate in sustainable initiatives.

- Integrating local characteristics to develop **the most suitable agricultural revitalization model for the local economy.**
- Enhancing **digital transformation** and **net-zero services** through the application of new information technology and innovative techniques to **optimize business model and org structure, streamline internal operations, and elevate customer service value.**
- Integrating **data science** to offer a **new digital economic model**.

4 Fields: technology creation net-zero transformation, catching up with running and jumping

Agriculture in Yunlin County grapples with challenges from aging demographics, climate impacts, and global carbon reduction initiatives. Balancing food security with environmental sustainability is a key focus in the ongoing agricultural transformation.

Technology Introduction

Diffusion and reproducibility of agricultural technology application model !

Tuku Township Free-range chicken	Sihu Township Goose meat	Beigang Township Sprouts	Erlun Township Rice-Husking
Using AI image recognition for chicken growth analysis, leveraging big data for predictive insights.	Integrating AI and the IoT, using wireless RFID anklets to identify egg-laying patterns in geese.	Automate the entire process from cultivation to cleaning, weighing, packaging, and inspection.	Integrating IoT for precise rice weight measurement and automating temperature control to minimize storage losses.
Smart Automation for Chicken Farm, Green Energy Value Addition	Smart Environmental Control System, Green Energy Value Addition	Smart Cultivation System, Cold Chain Integration	Smart Storage and Production System with Data Management Center
The chicken farm environment is monitored via IoT, with Intelligent Robot (IR) devices adjusting conditions.	Creating closed-loop smart goose houses to increase breeding efficiency and reduce the risk of infection.	Establishing a smart cultivation system for increased productivity and labor savings.	Building a smart storage and production system for manpower, savings and pest control.