

Presentation

Triple Helix Model

Where foundations connect and ecosystems thrive



YOUR LOCAL AGRI CENTER

TRIPLE HELIX
Education • Government • Business



Every country builds its own ecosystem — powered by a dedicated Agri Center

In a world where innovation makes the difference, the **Triple Helix Model** is the key to sustainable growth and progress. This model connects three essential forces: **government, industry, and academia**. Not as separate entities, but as one integrated foundation.

Our vision is to establish a Local Agri Center in every country for every service area.

Our drive is to share knowledge globally and promote connections between these Agri Centers.



THE GLOBAL CHALLENGE: Why Transformation in Agriculture is Urgent

The world is entering a critical phase in its development - one where population growth, environmental pressures, and systemic inefficiencies are converging to challenge one of humanity's most essential needs: **food**.

A Rapidly Growing Global Population

The global population is projected to reach nearly 10 billion by 2050. This surge will significantly increase the demand for food, placing immense pressure on existing agricultural systems. Feeding billions more people is not simply a matter of producing more - it requires producing smarter, faster, and more sustainably.

Food Security Under Pressure

Food security remains one of the most pressing global concerns. Millions of people already face hunger and malnutrition, while supply chains are increasingly disrupted by geopolitical tensions, pandemics, and economic instability. Ensuring consistent access to safe, nutritious, and affordable food is becoming more complex every year.

Climate Change and Its Impact

Agriculture is both a contributor to and a victim of climate change. Rising temperatures, unpredictable rainfall patterns, droughts, and extreme weather events are reducing crop yields and degrading arable land. Farmers worldwide are struggling to adapt, often without the tools or knowledge needed to build resilience.

Gaps in Knowledge and Education

A significant barrier to progress is the lack of access to modern agricultural knowledge and training. Many farmers, especially in developing regions, still rely on outdated techniques. Without proper education and access to innovation, productivity remains low and sustainability goals are difficult to achieve.

Inefficient Agricultural Systems

Traditional farming methods are often inefficient, leading to waste of water, energy, and resources. Fragmented supply chains, limited use of data, and lack of integration between technology and practice result in suboptimal outcomes. These inefficiencies not only reduce profitability for farmers but also strain the environment.

Countries today need more than isolated solutions - they require integrated systems that combine knowledge, technology, and education.

Sustainable agriculture is no longer just about farming; it is about building ecosystems where innovation, training, and smart technologies work together. Only through a holistic, integrated approach can we ensure food security, empower farmers, and protect our planet for future generations.



THE TRIPLE HELIX MODEL: Government - Industry - Academia

When the three pillars of the Triple Helix model collaborate, it creates more than synergy.

It builds a **powerful ecosystem** where ideas are rapidly transformed into impactful solutions:

- **Government** sets the vision and framework
- **Industry** brings innovation to the market
- **Academia** provides research, talent, and insights

Together, they establish a solid foundation in which:

- Innovation is stimulated
- Economic growth is accelerated
- Societal challenges are addressed

The Triple Helix Model is not just a theory, but a **practical framework for success**. By connecting foundations, we create an ecosystem that not only works today, but is also ready for the future.

Connect. Strengthen. Accelerate.

That is the power of the Triple Helix.



The permanent (unmanned) exhibition of collaboration partners enables project developers, investors, and farmers to view the wide range of offerings at this fair.

Local Agri Center with Global Power - The Triple Helix Model for Future-Proof Agriculture

Developed and orchestrated by GrowGroup IFS

In a rapidly evolving global food landscape, the need for resilient, efficient, and sustainable agricultural systems has never been greater. The **Local Agri Center with Global Power** introduces a transformative approach: a scalable ecosystem where local production is strengthened by international expertise, cutting-edge technology, and strategic collaboration.

At the heart of this concept lies the **Triple Helix Model** - a powerful synergy between **government, industry, and academia**. This model ensures that innovation is not only developed but also implemented effectively, creating long-term value for local economies while addressing global food challenges.

A New Standard for Agriculture

The Local Agri Center is more than a greenhouse or farm - it is a **hub of innovation and productivity**. By integrating advanced horticultural techniques with digital systems such as climate control, data analytics, and automation, it enables year-round, high-yield production with minimal environmental impact.

What sets this model apart is its **global backbone**. Through strategic partnerships, international suppliers, and knowledge exchange, each center benefits from proven technologies and best practices worldwide - while remaining fully adapted to local conditions, climate, and market demand.

The Power of the Triple Helix

The success of the Local Agri Center is driven by a structured collaboration model:

- **Government** provides policy support, infrastructure, and long-term vision
- **Industry** delivers technology, investment, and operational expertise
- **Academia** contribute research, training, and continuous innovation



This alignment accelerates development, reduces risk, and ensures that each project is both economically viable and environmentally sustainable.

Orchestrated by GrowGroup IFS

The strength of this concept lies in its execution. **GrowGroup IFS** acts as the central orchestrator - bringing together stakeholders, aligning interests, and ensuring seamless implementation from concept to operation.

From site selection and design to partner integration and operational rollout, GrowGroup IFS transforms vision into reality. The result is a **future-proof agricultural model** that can be replicated across regions, empowering countries to strengthen food security, create jobs, and build sustainable supply chains.

Building the Future - Locally and Globally

The Local Agri Center with Global Power is not just a project - it is a **movement toward smarter agriculture**. By combining local presence with global strength, and innovation with collaboration, it sets a new benchmark for how food can be produced in the 21st century.

Future-proof agriculture starts here.

GOVERNMENT: Enabling Sustainable Agricultural Transformation

Governments play a pivotal role within the Triple Helix ecosystem as the **strategic enabler and long-term vision holder**. They create the foundation that allows education, industry, and innovation to thrive together in a structured and impactful way.

By providing direction, stability, and support, governments unlock the full potential of sustainable agricultural development.

Building the Foundation for Growth

A successful agricultural ecosystem requires clear structure and long-term commitment. Governments ensure this by:

- Establishing **stable policies and regulatory frameworks**
- Providing **clarity and confidence for investors and stakeholders**
- Enabling a secure and predictable environment for development

Stability drives investment. Vision drives progress.

Enabling Infrastructure and Investment

Governments facilitate the physical and financial backbone of development by:

- Supporting land allocation and infrastructure development
- Stimulating public and private investments
- Creating funding mechanisms and incentives

Infrastructure turns ambition into reality.

Driving Public-Private Collaboration

The Triple Helix Model thrives on collaboration. Governments act as the key connector by:

- Aligning stakeholders across sectors
- Facilitating partnerships between education, industry, and research
- Ensuring a unified and strategic national approach

Collaboration accelerates innovation.

Strengthening Food Security and Resilience

Food security is a national priority. Governments leverage integrated ecosystems like the Global Agri Center to:

- Increase local food production
- Reduce reliance on imports
- Promote sustainable and climate-resilient agriculture

Resilient systems secure the future.

Ensuring Long-Term Impact

Governments ensure that agricultural transformation is not temporary, but sustainable and scalable.

By guiding strategy, enabling collaboration, and supporting innovation, they deliver:

- National economic growth
- Job creation and skills development
- Long-term sector resilience





INDUSTRY: Driving Innovation and Market Impact

Industry is the driving force within the Triple Helix ecosystem, transforming ideas into **practical solutions and economic value**.

By combining technology, expertise, and market insight, companies play a crucial role in accelerating agricultural innovation.

Within the Local Agri Center, industry is not just involved - it is **actively shaping the future of agriculture**.

Turning Innovation into Application

Companies bring innovation to life by:

- Developing and applying **advanced technologies**
- Translating research into **real-world solutions**
- Scaling innovations for **commercial use**

Innovation becomes impact when it reaches the market.

Testing in Real-Life Environments

The Local Agri Center provides access to **living labs and test facilities**, where companies can:

- Test new products and technologies
- Validate performance under real conditions
- Optimize solutions before market introduction

Faster validation leads to faster success.



Building Integrated Value Chains.

Industry connects every step of the agricultural ecosystem

- Linking suppliers, producers, and distributors
- Creating efficient and transparent supply chains
- Strengthening collaboration across sectors

Stronger connections create stronger outcomes.

Expanding into Global Markets

Through the Local Agri Center, companies gain direct access to:

- International buyers and partners
- Government stakeholders
- New markets and export opportunities

A platform for global growth and visibility.



ACADEMIA: Advancing Knowledge and Talent

Academia forms the intellectual backbone of the Triple Helix ecosystem, providing the **knowledge, research, and talent** needed for long-term agricultural development.

By integrating education, science, and real-world application, academic institutions play a vital role in shaping a **future-proof and innovation-driven agricultural sector**.

Educating Future Professionals

Academic institutions prepare the next generation by:

- Training **skilled professionals and specialists**
- Developing expertise in agribusiness and technology
- Equipping students with practical and global perspectives

Talent is the foundation of sustainable growth.

Driving Research and Innovation

Through applied and scientific research, academia contributes to:

- Advancing agricultural technologies
- Improving crop performance and sustainability
- Generating data-driven insights for better decision-making

Knowledge drives progress.

Connecting Theory with Practice

Within the Local Agri Center, academia bridges the gap between knowledge and application by:

- Integrating education with real-world environments
- Collaborating with industry on practical solutions
- Testing and validating research in living labs

Learning becomes impact when applied.



Enabling Continuous Innovation

Academic institutions support ongoing development by:

- Creating new ideas and technologies
- Supporting innovation ecosystems
- Encouraging entrepreneurship and collaboration

Innovation is a continuous process.

Building a Knowledge-Driven Future

By embedding education and research within a broader ecosystem, academia helps:

- Strengthen local capabilities
- Ensure long-term knowledge transfer
- Support sustainable agricultural systems

A strong knowledge base creates lasting impact.

WHERE INNOVATION MEETS REALITY: From Research to Real-World Application

The Local Agri Center is where ideas are transformed into tangible results. Through advanced **test greenhouses and living labs**, innovation is not only developed - it is proven, refined, and scaled for real-world impact.

This unique environment bridges the gap between research and application, enabling faster and more effective agricultural transformation.

Testing in Real Conditions

Innovation only creates value when it performs in reality. Within the Local Agri Center:

- Technologies are tested under **real-life growing conditions**
- Systems are evaluated for **performance, efficiency, and scalability**
- Solutions are optimized before market introduction

Real conditions create real confidence.

Validating Crops and Inputs

The living labs provide a controlled yet realistic environment to:

- Test seeds, substrates, and crop strategies
- Validate inputs such as nutrients and crop protection
- Improve yield, quality, and sustainability

Better validation leads to better results.

Accelerating Innovation

By bringing together research, technology, and practical application, the Local Agri Center enables:

- Faster development cycles
- Reduced risk in innovation
- Quicker adoption of new technologies

Innovation moves faster when collaboration is integrated.

Powered by Strategic Partners

A strong network of industry partners ensures continuous development and innovation, including:

- Seed companies
- Technology providers
- Crop protection and biological specialists

Together, they create a dynamic ecosystem where knowledge and innovation continuously evolve.

Collaboration drives progress.

Bridging the Gap Between Research and Practice

The Local Agri Center connects science, technology, and business into one integrated platform.

It ensures that innovation is not limited to theory, but translated into **practical, scalable solutions** that benefit growers, industries, and entire economies.



A GLOBAL HUB FOR AGRIBUSINESS: Connecting Markets, Innovation, and Opportunity

The Local Agri Center serves as a dynamic **international platform where agribusiness meets opportunity**, bringing together companies, innovators, and decision-makers in one integrated environment to accelerate growth and collaboration. All Local Agri Centers will fall under the umbrella of the Global Agri Center (GAC) in the Netherlands. With direct access to leading Dutch and other global partners and expertise, it creates a powerful bridge between local ambitions and world-class agricultural innovation

More than just a location, it is a **gateway to global markets and partnerships**.

Showcasing Innovation and Solutions

Companies have the opportunity to present their products and expertise in a high-visibility environment:

- Permanent exhibition spaces and showrooms
- Live demonstrations of technologies and solutions
- Real-world application within greenhouse environments

Visibility creates opportunity.

Connecting Global Stakeholders

The Local Agri Center connects a wide network of:

- Government representatives
- Investors and financial institutions
- Industry leaders and innovators
- International buyers and partners

Strong networks drive stronger outcomes.

Generating Business Opportunities

By bringing together key players in one ecosystem, companies can:

- Build strategic partnerships
- Create new business opportunities
- Strengthen their international presence



Collaboration fuels growth.

Expanding into New Markets

The Local Agri Center provides direct access to international markets by:

- Acting as a gateway for export and trade
- Supporting market entry strategies
- Enabling connections with local and global partners

Growth begins with access.

Driving International Growth

This unique platform enables companies to scale beyond borders and position themselves globally. It transforms local innovation into **international success stories**, supporting long-term growth and competitiveness.

The Business Role in One Sentence - A Gateway to International Growth.

DELIVERING NATIONAL VALUE: A Strategic Asset for Sustainable Growth

The Local Agri Center is more than an innovation hub - it is a **strategic national asset** that delivers long-term economic, social, and environmental value. By integrating education, industry, and government, it creates a powerful ecosystem that strengthens national resilience and drives sustainable development.

Strengthening Food Security

Ensuring a stable and reliable food supply is a key priority for every nation. The Local Agri Center supports this by:

- Increasing local food production
- Reducing dependency on imports
- Promoting efficient and climate-resilient farming systems

Food security starts with local capability.

Driving Economic Diversification

The Local Agri Center enables countries to diversify their economies by:

- Developing new agricultural sectors
- Stimulating innovation and entrepreneurship
- Creating opportunities beyond traditional industries

Diversification builds economic resilience.

Creating Jobs and Opportunities

A thriving agricultural ecosystem generates employment across multiple sectors:

- Skilled and technical jobs
- Research and innovation roles
- Business and commercial opportunities

Growth creates opportunity for people.

Developing Local Knowledge and Expertise

Sustainable progress requires local capabilities. The Local Agri Center supports:

- Education and training programs
- Knowledge transfer and skill development
- Long-term capacity building

Knowledge is the foundation of independence.

Advancing Sustainable Agriculture

The integration of innovation and best practices enables:

- Efficient use of water and resources
- Reduced environmental impact
- Climate-smart agricultural solutions

Sustainability ensures long-term success.



A Platform for National Impact

By bringing together key stakeholders in one ecosystem, the Local Agri Center delivers measurable results that benefit the entire country.

It transforms agriculture into a **modern, knowledge-driven, and economically valuable sector.**

The Value in One Sentence

A strategic national asset

MASTER DEVELOPER & ORCHESTRATOR: One Vision. One Partner. Full Execution.

GrowGroup IFS acts as the **strategic lead and implementation partner** for the development of Local Agri Centers worldwide.

From initial concept to full operational delivery, we manage the entire process - ensuring alignment, efficiency, and successful execution at every stage.

Leading Global Development

GrowGroup IFS brings together expertise, partners, and vision to develop integrated agricultural ecosystems tailored to each country's needs.

We ensure that every Local Agri Center is:

- Strategically aligned with national priorities
- Designed for long-term sustainability
- Built for real economic and societal impact

Global expertise. Local relevance.

From Concept to Reality

We provide a complete, end-to-end development approach:

- **Concept Development** Creating tailored solutions based on local opportunities and challenges
- **Stakeholder Alignment** Connecting government, industry, and academia into one unified ecosystem
- **Master Planning & Design** Translating vision into a clear and actionable blueprint

A strong foundation ensures successful delivery.

Structuring Investment and Partnerships

Successful projects require the right financial and strategic structure. GrowGroup IFS:

- Designs investment models (including public-private partnerships)
- Attracts international and local investors
- Ensures financial feasibility and long-term viability

Smart structuring drives sustainable growth.

Implementation and Operations

Beyond planning, we take full responsibility for execution:

- Development and construction management
- Coordination of partners and suppliers
- Operational setup and long-term support

Execution is where vision becomes reality.

Delivering Results at Scale

GrowGroup IFS ensures that every project delivers measurable impact:

- Accelerated agricultural innovation
- Strengthened local economies
- Long-term sustainability and growth



IMPLEMENTATION ROADMAP: From Vision to Reality

Turning ambition into a successful Local Agri Center requires a **structured, proven approach**. GrowGroup IFS applies a clear and scalable roadmap that ensures alignment, efficiency, and long-term impact at every stage of development.

From initial concept to full operation, each step is carefully designed to deliver measurable results.

Feasibility Study

Every successful project starts with insight.

- Market analysis and opportunity assessment
- Evaluation of local conditions and potential
- Definition of strategic objectives and scope

Understanding the landscape ensures the right direction.

Stakeholder Alignment

Collaboration is key to success.

- Engaging government, industry, and academia
- Aligning interests and defining shared goals
- Establishing strong partnerships

Alignment creates a strong foundation.

Master Planning

Vision is translated into a clear and actionable plan.

- Development of a comprehensive masterplan
- Design of facilities and ecosystem structure
- Integration of education, innovation, and business

A strong plan drives effective execution.

Investment Structuring

Financial sustainability is essential.

- Designing investment models and partnerships
- Structuring public-private collaborations
- Securing funding and investor engagement

Smart financing enables long-term success.

Development & Construction

Execution brings the vision to life.

- Project management and coordination
- Construction of facilities and infrastructure
- Integration of technologies and systems

Building the foundation for impact.

Operational Launch

The transition from development to performance.

- Activation of education, research, and business activities
- Operational setup and management
- Continuous optimization and growth

From project to performance.

A Proven and Scalable Approach

This roadmap ensures that every Local Agri Center is:

- Efficiently developed
- Strategically aligned
- Ready for long-term success



A SUSTAINABLE & SCALABLE MODEL: Designed for Long-Term Value and Global Growth

The Local Agri Center is built as a **financially sustainable and scalable ecosystem**, designed to deliver continuous value across education, innovation, and business. By combining multiple revenue streams within one integrated platform, it ensures long-term viability while enabling expansion across regions and markets.

Education as a Value Driver

Education forms a key pillar of the model, generating both impact and revenue through:

- Professional training and certification programs
- Vocational and higher education courses
- International knowledge exchange and learning platforms

Knowledge creates both value and opportunity.

Exhibition and Business Spaces

Permanent exhibition areas provide companies with:

- High-visibility showrooms
- Product demonstrations and brand positioning
- Direct engagement with international stakeholders

Visibility translates into business growth.

Innovation and Testing Facilities

Advanced facilities support continuous development and validation:

- Test greenhouses and living labs
- Technology demonstration environments
- Research and product validation services

Innovation drives long-term competitiveness.

Consultancy and Knowledge Services

The Local Agri Center extends its expertise through:

- Advisory services for governments and organizations
- Strategic and technical consulting
- Export and market entry support

Expertise becomes a scalable service.

Built for Global Expansion

The model is designed to be replicated and adapted across different regions, offering:

- Flexibility to local conditions and markets
- Scalable infrastructure and operations
- Strong alignment with national development goals

Scalability ensures global impact.



A Future-Proof Business Model

By integrating education, innovation, and business, the Local Agri Center creates a balanced and resilient model that supports:

Financial Sustainability

Continuous growth

Long-term strategic value

CALL TO ACTION: Let’s Build the Future of Agriculture Together

The challenges facing global agriculture require bold vision, strong partnerships, and integrated solutions. The Global Agri Center offers a proven model to transform agricultural sectors into **innovative, resilient, and future-ready ecosystems**.

Now is the time to take action.

Partner with GrowGroup IFS

GrowGroup IFS is your strategic partner in developing a **Local Agri Center tailored to your country’s needs**.

Together, we bring:

- Expertise in integrated ecosystem development
- A proven Triple Helix approach
- A full-service model from concept to operation

One partner. Full execution.

Unlock Your Agricultural Potential

By implementing a Local Agri Center, you can unlock the full potential of your agricultural sector through:

- **Innovation**
Accelerating the adoption of modern technologies and sustainable solutions
- **Knowledge**
Building a skilled workforce and strengthening local expertise
- **Collaboration**
Connecting government, industry, and academia in one powerful ecosystem

Integration creates impact.

A Future-Proof Investment

A Local Agri Center is more than a project - it is a long-term investment in:

- Food security
- Economic growth
- Sustainable development
- Global competitiveness

Investing in agriculture is investing in the future.

Let’s Move Forward Together

Join us in shaping the next generation of agriculture.

GrowGroup IFS

Your Partner in Agricultural Transformation

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