

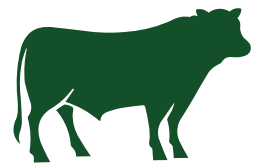


Core Services  
2024

# Core Services List



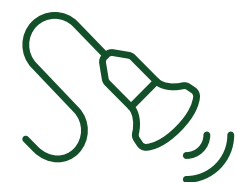
Fixed Time Artificial Insemination Program (FTAI)



Resynchro Program



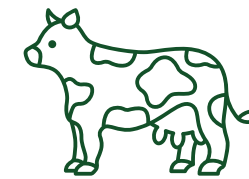
Synchro + Bull Program



Reproductive Ultrasound in Cattle & Goats



Farm Assessment & Recommendation (FAR)



Farm Consultancy & Monitoring (Dairy)



Bionova Establishment & Enrichment of Farms: B.E.E.F Program



Capacity Building Training Programs

# Fixed Time Artificial Insemination (FTAI)

Fixed Time Artificial Insemination (FTAI) is a cost-effective reproductive biotechnology that is ideal for increasing the overall genetics of your herd while also significantly increasing profitability in your beef or dairy operation. Led and performed by reproduction specialist, Alfonso Serrano, bionovaph is currently the only service provider of FTAI commercially for cattle in the Philippines.

## What will we do?

Implement a 10-day protocol while ensuring the supply of hormones, tools, and appropriate equipment for the FTAI program.

- Day 0: Pre-Service examination by ultrasound and induction of new follicular wave
- Day 8: Induction of heat and ovulation
- Day 10: Artificial insemination procedure (Timed AI)
- >30 Days: Early pregnancy diagnosis via ultrasound



Improved Genetics for your Herd



Established Breeding, Calving and Weaning Season



Increased Pregnancies



Homogenous Calves for Easier Management



Reduced Open Days and Calving Interval



Minimized Cost in Daily Farm Operation

## This is best suited for farms with...



Minimum of 15 heads qualified in the program.



Basic facilities (chute, working corral and alley).

## What happens next?

### Resynchro Program & Bull Exposure

As part of the intensive breeding season, the Resynchro program is designed for cows and heifers that did not conceive during the initial round of Fixed-Time Artificial Insemination (FTAI). These animals will undergo a subsequent resynchronization and bull exposure in pursuit of achieving pregnancy.

## The Process:



# Synchro + Bull Program

This integrated program is meant for farms currently practicing year-round breeding with bulls, aiming to establish and shorten the breeding season. The Synchro + Bull Program allows to address herd fertility concerns, while helping in setting controlled breeding, calving, and weaning seasons.

Through this comprehensive approach, you can prioritize fertile animals, remove unproductive ones, and retain high-performing females for potential integration into the FTAI Program for genetic advancement.

## What will we do?

Through the use of reproductive ultrasound, we select healthy cows for bull exposure. Cows with reproductive abnormalities will be treated accordingly before the start of the breeding season. Making use of reproductive hormones, we induce the heat and ovulation for cows to be subjected to natural breeding for 45, 65 or 90 days only. The duration of the breeding season will depend on the level of fertility of the herd and the quality of the breeding bulls.



Improved Fertility Management



Selection for fertility for an eventual genetic improvement program



Strategic Integration with FTAI Program

## This is best suited for farms that...



Have low pregnancy and calving rates performing year-round natural breeding.



Want to establish and shorten the breeding, calving and weaning seasons.



Want to start selecting the best cows for an eventual genetic improvement program.



Want to reduce open days / calving intervals and determine the real reproductive performance of the bulls.

## Offspring and Farmers:



# Ultrasound in Cattle & Goats

This mechanism enables real-time and high-frequency waves to generate images of tissues and internal organs. Reproductive ultrasound is suitable for both backyard and commercial farms with an existing herd and with basic cattle facilities. It provides a more in-depth look and accurate diagnosis of early pregnancies, pregnancy monitoring, fetal sex and age determination, and detects reproductive abnormalities and causes of infertility.

## What will we do?

We will provide a thorough set of findings and diagnostics, interpretation of the results and possible issues affecting the fertility of each female, as well as proposed solutions, treatments and recommendations to ensure reproductive health.



Fetal Sex and Age Determination



Early & Accurate Diagnosis as early as 28 days after Breeding



Assessment for Embryonic or Fetal Loss



Determination of Ovarian Activity & Level of Fertility



Detection of Reproductive Abnormalities like: Endometritis, Pyometra, Follicular Cysts & Luteal Cysts



Cost Saving & Maximizing Profit

## This is best suited for farms that...



Experience low pregnancy and calving rates.



Have cases of females with long calving intervals and suspected infertility.



Present cases of abortions or pregnancy loss without apparent reasons.



Perform inaccurate pregnancy diagnosis methods.



Want to find new methods to maximize their resources.

## Past Works:



# Farm Assessment and Recommendation (FAR)

An initial site visit is arranged to know in detail the condition of the farm. Then, a comprehensive report will be prepared to provide insights and recommendations for a more efficient farm management or for the correct establishment of a new cattle operation.

The FAR offers holistic analysis that not only identifies existing challenges but also underscores opportunities for enhancing the farm's overall operational efficiency. This report goes beyond providing insights; it serves as a valuable roadmap for implementing tailored recommendations, ensuring that the farm operates at its optimal potential and thrives in the ever-evolving agricultural landscape.

## What will we do?

We will provide a comprehensive set of findings and diagnostics, an interpretation of results and proposed solutions and recommendations to help speed up the progress of your farm.



Cattle Facilities Design



Reproductive Management



Forage Utilization



Maximum Carrying Capacity



General Management



Agribusiness Management

## This is best suited for...



Idle Land Owners.



Existing Cattle Farm Owners.



First Time Cattle Raisers.



Livestock Raisers Shifting to Cattle Raising.

## Requirements:



Physical Land.



At Least 1.5 Hectares.

## Existing Farms & Idle Lands:



# Farm Consultancy & Monitoring (Dairy)

We conduct regular weekly visits (preferably every 15 days) to your dairy farm, playing a crucial role in sustaining high pregnancy and calving rates for an optimal milk supply by proactively addressing and preventing reproductive abnormalities and optimizing breeding strategies. Our dedicated team performs thorough examinations utilizing advanced reproductive ultrasound technology to assess the reproductive health of each category and production stage.

This proactive approach allows for early detection and intervention, ensuring that any potential reproductive issues are identified and addressed promptly.

## What will we do?

We provide a comprehensive solution for fresh cows, lactating/dry groups, and breedable heifers. This holistic program includes regular ultrasound assessments, expert reproductive management advice, the implementation of customized reproductive protocols that consider ovarian structures and levels of fertility.



Early Detection of Reproductive Issues



Customized Protocols and Breeding Strategies for Different Groups



Optimized Reproductive Performance



Steady Calving and Milk Supply

## This is best suited for...



Dairy Farms.



Dairy Cooperatives.

## Requirements:



Dairy Facilities (Chute, Alley etc.)



Accurate Record-Keeping System.

## Dairy Farms:



# B.E.E.F Program

The BEEF Program, short for Bionova Establishment and Enrichment of Farms, goes beyond standard consultancy. It's a comprehensive monitoring program designed to enhance the efficiency and organization of your operation, enabling you to make more informed and cost-effective decisions. Our dedicated team offers guidance on professional organization, cattle inventory, herd records, breeding, calving and weaning management, staff and routine procedures, cattle and forage/paddock management, and ongoing training in cattle management and reproductive biotechnologies.

## What will we do?

The program is customized to meet each farm's unique needs, objectives, current capabilities, and available resources. By participating, owners, managers and farm workers can significantly enhance their farm's productivity and profitability.



Data Driven Approach and Implementation of Software



Herd Health & Immunization Plan, Nutritional and Reproductive Programs



Monthly Site Visits & Discussion of Progress & Development



Diseases & Case Prevention, Management & Handling



Unlimited Ultrasound Examination



Agribusiness Development Strategies, Marketing & Sales

## This is best suited for...



Land owners without any current farm operations who plan to establish their own cattle farm.



Existing cattle farm owners without an established operation and yearly program nutritional and breeding programs.



Local government units and provinces without genetic improvement programs.



Business owners who want to diversify their portfolios.

## Our Projects:





# Capacity Building & Training Programs

Choose from our customizable training programs:

- Training on Reproductive Ultrasound - Duration 4 days - Max 15 Participants.
- Training on Reproductive Ultrasound + Fixed Time Artificial Insemination - Duration 4 days - Max 15 Participants.

## What will we do?

Whether you're looking to expand your skills or enhance the capabilities of your team, our customizable training programs provide a valuable opportunity to stay ahead in the field of reproductive biotechnologies. This is perfect for commercial farms, AI technicians and municipal veterinarians under LGUs.



Customizable depending on the skills of the participants



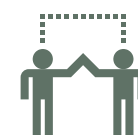
Modern Biotech Practices and Latest Reproductive Management Procedures



Comprehensive Curriculum



Hands on Training



Expert Instructors



Theoretical & Practical Sessions

## This is best suited for those ...



Commercial farms that want to improve the skills of their staff.



Local government units and provinces with artificial insemination technicians developing breeding programs.

## Requirements:



Safe and functional facilities.

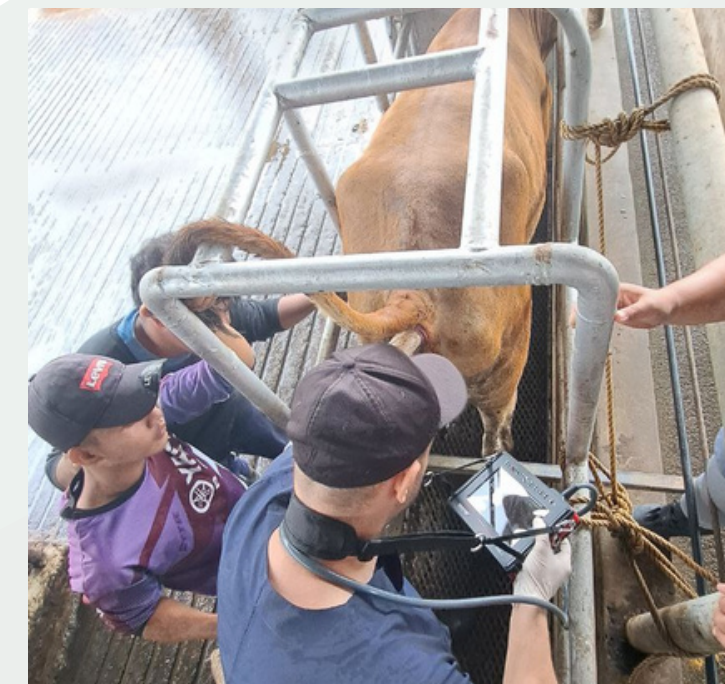


Cows for practice.



Availability of 10-15 fresh uterus.

## Conducted Trainings:



# precision breeding with bionova

Send us an email [@info@bionova.ph.com](mailto:@info@bionova.ph.com) or contact us 0919 317 8718 / 0917 820 1871 to schedule a call and explore new opportunities in the Philippine cattle industry.

**bionova**  
PRECISION BREEDING



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