



Legacy Center

Mt. Sterling, Kentucky USA



WHAGR & VI

World Heritage Animal Genomic Repository and Veterinary Institute

Legacy Center

Mt. Sterling, Kentucky



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Imagine....

A world class facility nestled in Mt. Sterling, Kentucky serving as a regional enhancement with economic benefits that include new industry, technology & employment. Offering unparalleled educational opportunities.

Bringing the world to the area as a leader in agricultural animal and natural resource conservation.

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Biodiversity conservation of agricultural and natural resources is quite possibly the greatest gift that can be given



World food security

Eco reverence

Sustain life on earth



Mission: Eliminate the loss of Earth's animal genetic resources

It took our ancestors over ten thousand years to develop the bounty of livestock that exists today. Over the millennia, sustained food production has been supported by each heritage breed contributing a unique set of genetic qualities to match their environment. Of the approximately 4,000 breeds in the world, it has been estimated that we are losing one breed per month to extinction. With that loss, all the characteristics that allowed this great variety of breeds to thrive in a wide variety of environmental conditions are now gone forever.

Without the preservation and conservation of diversity in agricultural animal breeds, world food security will continue to be increasingly more unstable. Heritage breed extinctions dramatically reduce humankind's ability to adapt to a rapidly changing world.



PRIORITIES

- Engage support of socially responsible regional stakeholders.
- Establish the regional WHAGR LEGACY CENTER which offers underserved communities economic, educational and research opportunities.
- Facility to integrate sustainable land use, water and natural resource conservation with heritage agricultural resources.
- Develop the global network, connecting the LEGACY CENTER with multi national satellites and regional educational facilities that will be integrated into appropriate academic institutions and natural and agricultural resource extensions.
- Engage support of educational collaborators and expert task forces to identify species and breed prioritization for conservation, collections, and accessions.
- Implement in situ and ex situ comprehensive conservation and stewardship programs.
- Inspire public participation at all levels.





What does the *Legacy Center* mean to Mt. Sterling, Kentucky.....

WHAGR VI is envisioned to operate as self-funding, non-profit model 501(c) (3) charitable organization that houses and conserves extraordinary collections of some of the most diverse agricultural animals.

WHAGR VI LEGACY CENTER offers both community and economic enhancement by attracting world class professionals, veterinary, genomic and animal science talents to the area and region.

WHAGR VI LEGACY CENTER brings the availability of state of the art research and teaching services to the local and regional agricultural areas while providing unprecedented access to services, exceptional global educational opportunities, and, through WHAGR's network, provide support to surrounding communities and the region with the latest in agricultural sciences and genomic technologies.

The presence of WHAGR & VI Kentucky Legacy Center benefits the community by strengthening and encouraging community food systems through sustainable local food production and community educational clinics and long distance learning that teach the importance and benefits in utilization of heirloom plants and heritage breed animals in self sufficiency and in innovative sustainable local food production models.

WHAGR's LEGACY CENTER will act as a living museum of rare heritage breeds and associated cultural arts that aspires to attract agri-tourism interests to experience the magnificent examples of heritage breeds and their uses and conservation management.



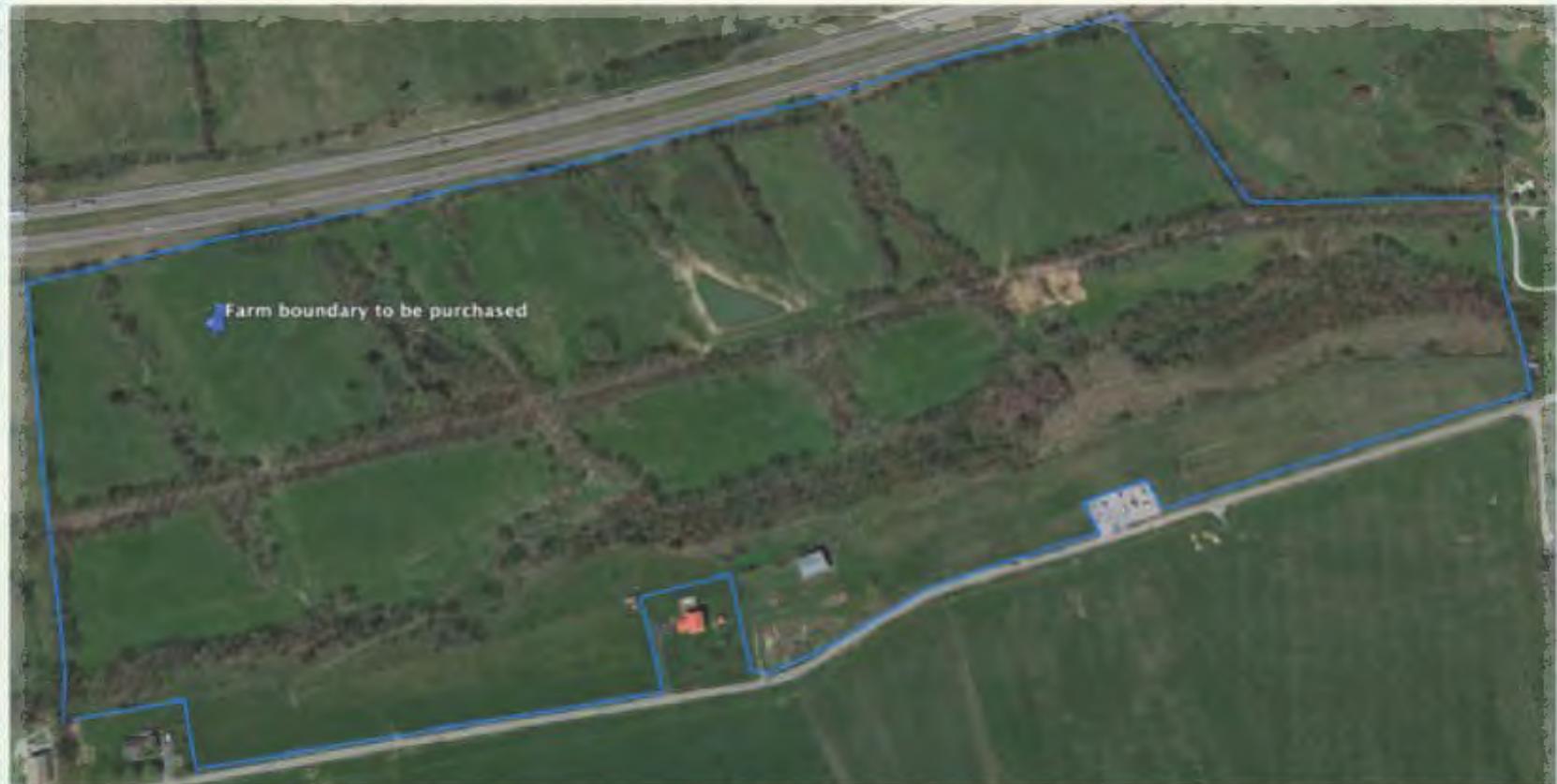


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Legacy Center Mt. Sterling, Kentucky USA

WHAGR has identified a suitable 95 ac. site situated within Montgomery County, Kentucky to serve for development of the LEGACY CENTER. The site is exceptionally well suited for the establishment of the LEGACY CENTER educational campus serving in the advancement of public education emphasizing the critical importance of agricultural biodiversity and water and natural resource conservation within the community, state and nation.



COMMUNITY social well being.....



Legacy Center Mt. Sterling, Kentucky

Some studies have linked participation in civil society—volunteering for example— to higher levels of community prosperity, higher achievement in schools, and improved individual health

Like the number of volunteers or the amount of money donated to charity, the number of nonprofits is an indicator of a community's social capital.

Nonprofits also have a direct economic impact.

The average number of nonprofits per 10,000 population in the U.S. is 49.5, compared to Kentucky's 41.8. Among the competitor states, Kentucky has the fewest number of nonprofits per 10,000 population

The World Bank notes that "development and growth specialists are uncovering the importance of social cohesion for societies to prosper economically and for development to be sustainable." Relying on U.S. county-level data, Rupasingha, Goetz, and Freshwater (2000) find that "social capital has a statistically significant, independent positive effect on the rate of per-capita income growth."

The addition of WHAGR would add to the Social Capital Index in many ways in Montgomery County which ranks in Medium to Low in 2010-2015

Community Development Expenditures

When viewed over the 20-year period from 1995 to 2014, Kentucky has a lower percentage increase (13%) than the competitor states (22%) or the U.S. overall (21%). Kentucky has expended less of its cumulative gross domestic product on community development during this time period (0.59%) than either the competitor states (0.68%) or the U.S. (0.75%). Quality of life factors, which can include social amenities like libraries, parks, and natural open spaces, ranks as the third most important factor for respondents to the most recent *Annual Survey of Corporate Executive and Consultants on Site Selection*, evidenced by 87.6 percent ranking it as either "important" or "very important."

CBER • Kentucky Annual Economic Report 2017



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Legacy Center Mt. Sterling, Kentucky

According to the CBER • Kentucky Annual Economic Report 2017....

“While some form of agriculture enterprise is present in every Kentucky county, many rural communities are relatively more dependent on this industry for jobs and income.

The Shaping Our Appalachian Region (SOAR) working group on Agriculture, Community and Regional Foods, and Natural Resources is aspiring to leverage the agricultural sector in Eastern Kentucky to create jobs and increase incomes. One of their goals is to connect local producers to local markets. This is a promising strategy, given the growth of the “slow food” movement and the state’s relatively strong embrace of local food suppliers and community supported agriculture (CSA). ”

*“CO M M U N I T Y characteristics exert a strong influence on economic outcomes. We know it intuitively, and it is increasingly confirmed by research. Studies have long found that individual economic success is associated with neighborhood or community quality. Research published in 2015 by economists Raj Chetty and Nathaniel Hendren, *The Impacts of Neighborhoods on Intergenerational Mobility: Childhood Exposure Effects and County-Level Estimates*, concludes that the quality of a child’s neighborhood can have a long-lasting effect into adulthood on college attendance, teenage birth rates, poverty status, and income. Based on related research from economist Eric Chyn published in 2016, the effect of a neighborhood on one’s future economic well-being is even stronger than what Chetty and Hendren found. Concepts like community development and economic development are linked so tightly that the terms are frequently used interchangeably. Economic activities take place in our communities, so characteristics that measure community connections, strengths and weaknesses, and resiliency are vital for understanding economic conditions and future economic prospects. Having a strong and robust civil society has many benefits. As was noted in a report from the University of Kentucky Nonprofit Leadership Initiative, *More than Charity*, “Nonprofits provide access to the arts, protect the environment, feed the hungry, assist the disabled in finding meaningful employment, provide affordable mental health services, teach the illiterate to read, provide quality child care for working parents and hundreds of other services that strengthen our communities and enhance our quality of life.” Measuring a concept as amorphous as community strength and social capital is difficult. Nonetheless, on many measures of community strength Kentucky is on par with or better than the national average, including the crime rate, volunteer rates, and levels of trust. Conversely, Kentucky’s number of hours volunteered, level of charitable giving, and number of nonprofits, lag behind the national average. The level of social capital is unevenly spread across Kentucky. Efforts to enhance social capital will likely take on renewed emphasis in the future as governments search out community-based organizations, nonprofits, businesses and citizens to forge partnerships in order to meet new and existing challenges facing our communities.”*



WHAGP VI

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Higher Learning Educational Opportunities

Legacy Center



Following completion of Kentucky's Legacy Center full facility and administrative development, higher learning opportunity engagement would be implemented.

Veterinary Clinical Rotation (minimums):

Small Animal Rotation 4-6 Students

Food Animal Rotation 4-6 Students

Equine Rotation 4-6 Students

International Student / Faculty Exchange Rotation

Rotational student populations will increase considerably when individual specialties (i.e., medicine, surgery, imaging, reproduction, etc.) are added to the academic mix within each animal group. Each specialty would have its own additional group of students.

Veterinary Technician Course 8-10 Students,

Genomics Lab Rotation 4-6 Students per Lab

Student / Instructor Ratio: Veterinary Clinic 1:5 / Research 1:1

Genomics Research 1:5 / Lab 1:10, Veterinary Technician 1:10

Student enrollment, tuition, fees, lab fees and costs would be negotiated then contracted with each student's originating university or college.



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What is a “Heritage Breed?”

“ Heritage Breeds” are traditional, historic, domesticated animal breeds that over centuries of selective breeding have retained essential attributes for survival and self-sufficiency and adaptability, fertility, foraging ability, longevity, maternal instincts, ability to mate naturally and with a high resistance to diseases and parasites. Heritage breeds includes, but, are not limited to poultry, cattle, sheep, swine, working breed dogs, horses, rabbits, waterfowl, camels, donkeys, goats and domesticated insects.

Heritage breed animal varieties, once in great abundance, were present in our pastoral landscapes around the world, and were essential in creating modern commercial breeds. Modern agriculture has changed the way that animals are selected and produced, resulting in many of these breeds falling out of favor and putting them at risk of extinction. Heritage breeds store a vast wealth of genetic resources that are vitally important for our future and the future of our agricultural food system. Once lost, they are irretrievable.

Why should losing Heritage Breeds matter to me?

A wise saying states “We don't inherit the earth from our parents, we borrow it from our children.” For each and every person who enjoys the benefits of having a choice of food variety or rely on agricultural animals for their livelihood or appreciate natural fibers in clothing and fabric, pollinated spring blossoms which bring summer fruit and vegetables and abundant pastures all can be attributed to the bounty of animal resources in all their wondrous diversity. Humanity is deeply interconnected with the myriad of animals breeds that have been domesticated. Human cultures vary widely, relying upon adapted animal breeds that have contributed to their historical cultures, local traditions, and are uniquely suited to their environments, allowing the human race to benefit in countless ways.





Making a case for AnGR Conservation:

Maintaining the diversity of animal genetic resources for food and agriculture is essential to enable farmers, pastoralists and animal breeders to meet current and future production challenges resulting from changes in the environment such as climate change, evolving pests and diseases and urbanization. We also recognize the intrinsic value of livestock breed diversity that encompasses environmental, genetic, social, economic, medicinal, scientific, educational, cultural and spiritual importances. With the knowledge of these values, do we not have an ethical responsibility to ensure genetic resources are available to generations beyond?

Future demand for animal products must be met within the context of sustainable agriculture. Development and this dynamic will require integrated approaches to agricultural economic development while in pursuit of social, cultural and environmental objectives. There is a need for adopting management systems that combine the best of traditional and modern knowledge and technologies. Eco Reverence must be applied in agri-ecosystems; in that, inclusion of nature in agriculture approach and integrated natural resource management practices.



"Major gaps and weaknesses exist in national and international capacities to inventory, monitor, characterize, sustainably use, develop and conserve animal genetic resources. We recognize the need for substantial financial resources, long-term support for national and international animal genetic resources programs, to increase world food security and contribute to sustainable rural development. We affirm the need to review institutional capacity, management structures, programs and policies, to identify deficiencies and address them through strengthening national capabilities, particularly in developing countries. We call for enhanced partnerships among governments, scientists, farmers, pastoralists, breeders and consumers, to build upon ongoing efforts to manage animal genetic resources and overcome major gaps and weaknesses."

The Interlaken Declaration -2007

Food security is a fundamental element of a decent life. Without the preservation and conservation of diversity in heirloom plants and animal breeds, world food security is increasingly more unstable. Originating from the world's heirloom plant varieties and heritage breeds are the products of generations of careful selection and adaptation to climate, pests and disease- all possessing special traits. Each heirloom plant variety and heritage breed animal brings a unique set of qualities to serve humankind in sustaining local food production and strengthening community food systems.

The Food and Agriculture Organization of the United Nations says that "food security exists when all people, at all times, have physical, social and economic access to sufficient, safe and nutritious food which meets their dietary needs and food preferences for an active and healthy life."

Establishing support for development of community food systems, through the WHAGR Legacy Center, shall help improve food security by encouraging local, fresh food be available to populations with limited access to healthful food; this is especially salient as more farmers' markets accept food stamps.

According to UN FAO, science and industry are feeling the strain of keeping pace with the ever expanding global demand for food, changing climate and evolving pests and diseases. In an effort to address present and future food supply demands, agricultural and animal sciences are becoming more and more specialized. The food supply strain and increasing specialization in plant and animal sciences have created immense pressure on universities and colleges. These academic institutions are grappling with identifying innovative ways to inspire the next generations of agriculturalists in communities and engage present stakeholders to meet the demands of a rapidly transforming food system. Advances in genetic research, veterinary medicine, plant and animal sciences have created a unique opportunity to introduce, educate at community levels to inspire present and future generations to engage in food production and conserve biodiversity in our food resources. The establishment of WHAGR Legacy Centers in strategic agricultural communities is a tremendous positive step in serving the communities to advance their food production independence while providing global educational connection and agri/cultural opportunities.

".... the timely opening of the new facility would be a big help in the work we plan to carry out together.

This will demonstrate in a practical way the importance of conserving animal breeds and plant varieties in fighting hunger and maintaining a nutritious food supply for everyone." - Daniel Gustafson, Deputy Director General UN FAO

WHAGR shares consistent objectives with the UN FAO, UNEP, and CBD. Accordingly, WHAGR began building relations with the UN FAO and CBD in 2009 with the intention of creating effective global outreach and educational programs. WHAGR through the WHAGR & VI Global Initiative, is developing innovative projects to encourage public participation in sustainable conservation of animal, natural, and agricultural resources.

" In an increasingly and predominantly urbanized culture getting this biodiversity message across is a challenge and requires a lot of creativity. WHAGR has great deal of experience in this regard and we look forward to working with them in future with an expanded program of public outreach".

- Daniel Gustafson, Deputy Director General UN FAO

WHAGR & VI will nurture long term equitable trust relationships through field interaction, respect for local customs and cultures while introducing appropriate conservation technology practices and offering in situ and ex situ educational opportunities to all stakeholders with an emphasis on disadvantaged women stakeholders. Women, in many cultures, are the critical role players in food production and custodianship of animals. Prioritization of advancing women's knowledge and providing educational opportunities to develop them as resource conservationists, extension agents and environmental stewards will build capacity for local food production.

The implementation of WHAGR LEGACY CENTER will serve and operate in accordance with the Interlaken Declaration, the Convention on Biological Diversity and its Nagoya Protocol.

Recent international agreements reached at Nagoya in 2010 warrant WHAGR VI's forward thinking approach to create a new world paradigm where AnGR, research, education, and fair and equitable exchange can operate within the guidelines of the new protocols and treaties, a paradigm that will enable benefit sharing for all.

It is well documented that domesticated Animal Genetic Resources (AnGR) and the biological systems in which they have developed are vital to food security for present and future generations. Domesticated AnGR are severely neglected resulting in erosion and ultimately to their extinction.

The majority of biodiversity of AnGR is in the hands of farmer stakeholders, pastoral and indigenous peoples - including developing nations around the world. Many of these peoples and their nations are experiencing ecological and economic pressures resulting in inadequate capacity building resources and access to the most up to date technology and/or education in biodiversity and natural resource conservation.

As a global initiative envisioned to unfold in three development phases, WHAGR & VI will serve all peoples at neutral non governmental LEGACY CENTER envisioned as a "hub and spoke" network to offer AnGR Conservation, Genomic, Veterinary and Animal Sciences educational opportunities, conservation plans, harvesting, collection, cryogenic banking, fair access and resource sharing while documenting adaptive traits, history, cultural significance and localized husbandry techniques. Field interactions will present a natural symbiotic opportunity to promote conservation stewardship with critically important AnGR farmer stakeholders, pastoralists, NGOs, academic and governmental institutions.





How you can help....

The WHAGR VI Mt. Sterling LEGACY CENTER is a direct, fresh and innovative approach to solve one of the most significant local issue world issues of our time.

For the past five years a vast, growing coalition of highly organized volunteers have dedicated themselves and their professional services to fulfilling the mission of this essential global initiative.

Amongst this extraordinary league of professionals, scientists, researchers, scholars and conservationists - there is no professional fund raiser. Asking for funding support is never easy, nor is there a panacea. We understand that donors are people who want to make a difference by their charitable giving.

Supporting the WHAGR VI Global initiative provides donors with the opportunity to make a significant impact. Your socially responsible giving will have a direct, long lasting impact on the Mt. Sterling community by advancing agriculture, genomic and animal sciences, and most importantly heritage breed animal and natural resource conservation.

We are asking for your generous financial support, which will have immediate and long lasting impact locally, regionally and around the world.

The cost of the Mt. Sterling LEGACY CENTER is \$3,859,600. USD.
To bring this to the community, we need your help.





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The solution is simple.
Enable us to take the next steps
and bring this gift to the community.

Regional Social charitable investment objectives:

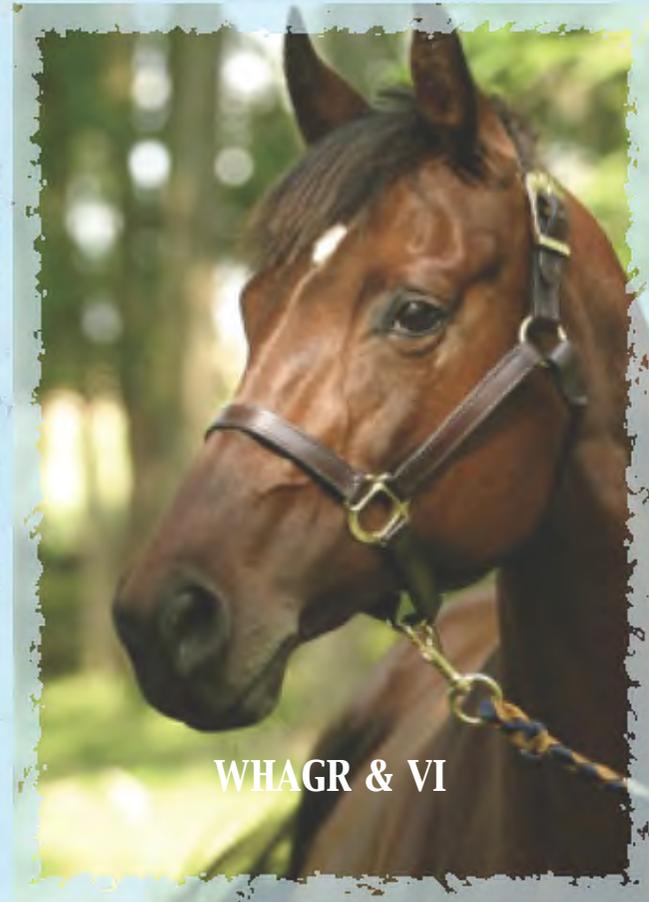
\$350,000. 95 Acres Mt. Sterling, KY
\$2,250,000 Infrastructure Improvements
**\$650,000 Equipment, computers and
furnishings**

\$3,250,000 Total

Initial projected annual operating budget:

\$455,000 5 Full time Professional staff
\$54,600 Operational expenses

\$509,600 Operating Budget



WHAGR & VI



The true measure
of all charitable actions
is how long the outcome endures.

Thank you for taking a
closer look!



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