



THE GLOBAL ALLIANCE FOR INTERNATIONAL COLLABORATION IN SPACE (GALIX)

**AN INTERNATIONAL COALITION TO ADVANCE AND DIVERSIFY
SPACE INNOVATION AND DEVELOPMENT
FOR ALL HUMANKIND**

KEY AREAS OF INTEREST FOR GALIX AND ITS AFFILIATES

- **INNOVATIONS PROMOTING SPACE COLLABORATION THROUGH PUBLIC-PRIVATE PARTNERSHIPS AND MULTINATIONAL ALLIANCES.**
- **BREAKTHROUGH INITIATIVES IN SPACE SCIENCES, APPLICATIONS, AND EXPLORATION.**
- **SPACE SAFETY, INCLUDING ORBITAL SPACE DEBRIS AND SPACE TRAFFIC MANAGEMENT.**
- **INNOVATIONS TO ENHANCE SPACE FINANCE, REGULATIONS, LAW, AND INSTITUTIONS.**
- **NEW SPACE TRANSPORTATION, ENERGY, ROBOTICS, IT AND COMMUNICATIONS SYSTEMS.**
- **COSMIC HAZARDS AND NEW APPROACHES TO PLANETARY DEFENSE.**
- **NEW SPACE STRATEGIES TO ENABLE GLOBAL SUSTAINABILITY.**
- **SPACE EDUCATION AND TRAINING PROGRAMS ESPECIALLY RELATED TO CAPACITY-BUILDING EFFORTS IN DEVELOPING COUNTRIES AND EMERGING SPACE PROGRAMS.**
- **SPACE EXPLORATION, SPACE PROCESSING, AND KEY MILESTONES TO PROMOTE AND ENABLE OFF-WORLD SETTLEMENTS.**

The Earth is the cradle of humanity, but mankind cannot stay in the cradle forever.

Konstantin Tsiolkovsky

Humanity is now embarking on a new era of space enterprise. Public and private research institutions worldwide are pursuing innovative approaches to advance space science, exploration and development. Space-faring nations, building upon these innovations, are working to expand and diversify their cosmic ventures. Non space-faring nations will also benefit from the pioneering technologies emerging through this space revolution, which ultimately could provide pathways to engage all of humanity on the frontiers of space.

Recognizing this potential, a global team of visionary space professionals is now exploring diverse and creative ways to engage government agencies, universities, scientific institutions, commercial space ventures, and international organizations in strategies that can both promote and enhance worldwide collaboration in space enterprise. This will include (but not be limited to) new educational and capacity-building programs, innovative space initiatives enabled through public-private partnerships, and the creation of multinational alliances to enable and diversify a broad range of collaborative space ventures that will engage and benefit all of humankind. This initiative is known as the ***Global Alliance for International Collaboration in Space (GALIX)***, and is being promoted and coordinated through the Hawaii Space Industry Innovation Program (HiSpace). Its basic premise is that international collaboration and support can help reduce the costs, enhance the benefits, and accelerate timetables for space exploration and development.

GALIX is seeking to both inspire and enable innovative approaches to space enterprise – promoting new models of finance and regulatory oversight, enhanced space safety and technical standards, and creative protocols for space missions. It will seek multiple opportunities to expand and diversify scientific and technology education and research, as well as to promote a vibrant “space economy” that could enrich and help sustain terrestrial civilizations. Space-based experiments will afford detailed insights into strategies that ultimately could enable sustainable off-world settlements. Enhanced scientific knowledge derived through space enterprise will also help improve the qualities of life on Earth, while simultaneously advancing missions (both robotic and human) to the Moon, cislunar space, and throughout our Solar System.

GALIX will help achieve these goals by fostering international collaboration among scientific, commercial, and educational programs worldwide. It will promote opportunities and creative protocols for cooperative space ventures – working to both expand and diversify international collaboration to advance space research and development, space education and training programs (to both inspire and enable the next generation of space scientists and entrepreneurs), and new space exploration opportunities for nations worldwide, as well as to engage space systems and technologies in ways that can help sustain life on Earth.

The operational priorities of GALIX and its affiliates include (but are not limited to):

- Promoting scientific research and commercial development of innovative space manufacturing and material processing capabilities, with the goal of increasing the productivity and sustainability of space missions - enhancing both operational performance and safety.

- Supporting innovations to help reduce the complexities and operational costs of space transportation, energy, robotics, information technology, and communications systems.
- Development of new cooperative financing for space enterprise, including diverse partnerships that leverage both public and private investments to enable projects with long-term planning horizons.
- Enhanced understanding of potential cosmic hazards to Earth, as well as the development of new strategies and technologies to both enable planetary defense and advance space research related to global sustainability.
- Negotiation of internationally recognized policies to govern commercial activities beyond Earth orbit, including the viable and sustainable utilization of space resources.
- Pursuit of new collaborative educational opportunities, capacity-building and training programs for innovative space initiatives.
- Assistance with the start-up of commercial activities enabled through public-private partnerships, incubator programs, and international consortia.

Progress implementing GALIX will be measured by the extent and long-term sustainability of public-private partnerships and multinational alliances launched to enable this initiative, as well as the number and diversity of space research institutions and educational organizations engaged in this enterprise. Efforts will also be made to identify opportunities for creative business development to help accelerate human exploration throughout the Solar System, as well as enable the long-term viability of our species on Earth. Both near- and long-term GALIX goals and operational objectives will be developed by an international steering committee formed over the coming months, and will be designed to explore and promote new types of cooperative ventures and related financing, as well as innovative organizational models and international agreements.

GALIX is currently seeking to promote its multiple goals and objectives through webinars, memoranda of understanding with affiliate GALIX members, research studies, seminars, training sessions, publications, and related YouTube presentations. It will be reaching out in coming days to engage a broad range of institutions and programs with this alliance, including space agencies and councils, space associations and societies, international space organizations and relevant U.N. offices and agencies, universities and research institutes with space interests, space corporations, space-related foundations and organizations, and space media.

For further information on the April 2021 GALIX space congress/webinar to be held in partnership with the International Association for the Advancement of Space Safety (IAASS) and McGill University-Institute of Space Law, please contact crisafulli.jim@gmail.com.