



# ***The EXOPLANETARY Corporation***

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## **An Introduction**

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The Exoplanetary Corporation is described here through several brief introductory essays and outlines. Each tells an important aspect of the whole story. The reader is advised to read each one in sequence. It is particular important to read the first four segments.

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## Mission and Goals of The Exoplanetary Corporation

The Exoplanetary Corporation has as its mission a singular and unique objective, encompassing long-term sustained commercial and financial growth through the development of multiple and complementary science and technology that addresses the greatest and most daring challenge to human innovation, exploration and determination. The Exoplanetary Corporation exists for the purpose of developing, deploying and operating the technologies and systems required for human civilization to expand and grow beyond the confines of the planet Earth, within the local solar system and beyond to other habitable exoplanetary worlds.

The Company's mission serves to advance and sustain the most critical objectives for human society in decades and centuries to come, and these objectives are truly necessary and non-negotiable. Humanity must move off-planet and take on the mantle of responsibility as a species for the next phase of civilization, and this entails exploration, industrialization, and colonization within other worlds including those which at present may seem to be unattainably distant – exoplanets in other solar systems.

The achievements, including all interim steps and stages, for enabling manned and unmanned travel and engineering on other worlds, ranging from asteroids to nearby moons and planets to exoplanets, constitute accomplishments that serve all aspects of human society and economy. Without these next steps, these progressive increments of exploration and colonization, the human race and all civilization are doomed to extinction. The superficial causes may be terrestrial or extraterrestrial in origin, and they may involve human actions as a small part of the contributing factors. Whatever may be the trigger events, the one certainty among all possible futures is that a civilization locked into genetic and cultural dependence upon one small planet is a civilization that is at high risk for eradication and extinction.

The Company intends to develop into technical readiness and practical usability such technologies and systems as are needed to support human and robotic life on other worlds and in deep space including interstellar travel missions. These mission-centric and mission-required outcomes include technologies that presently appear to be years or even decades away from realization, with considerable doubt and argument regarding how achievable they may be. Nonetheless, the Company puts forth the argument and claim that there is no choice but to achieve positive results and that the means and the pathways for such do presently exist and in sufficient demonstrable strength and viability.

Among the achievements the Company is committed and dedicated to realize and to commercially manage and control, from both the economic and technical perspectives, are:

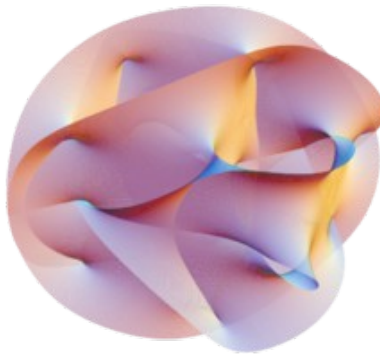
§ power for propulsion and all manner of physical system operations, spanning life support and large-scale industrial functions for human expansion into deep space. The focus of the Company is upon new, compact, economical forms of nuclear fusion and new types of power generation that make practical use of what are considered to be potential energy sources within so-called dark energy and the quantum vacuum flux. Initially, the focus is upon nuclear fusion, for use both on Earth as well as in systems to be constructed in Space;

§ materials, architectures and engineering methods for space-based structures including vessels to be employed within interplanetary and interstellar missions, employing new forms of design and construction that are more reliable, resilient, ergonomic, fault-tolerant and practical for such missions;

§ communications for linking vastly separated stations, outposts, and spaceships, providing means for meaningful exchange of information within real-time situations among distant network nodes;

§ methods for providing the essential and optimal environment for human-robotic habitation, addressing challenges of multiple generations of travel in confined physical environments such as that of a planetary base or an interstellar spacecraft, employing bioengineering for diverse types and species of organisms, remote medicine and healthcare, synthetic in vitro and in vivo embryonics, adaptive agriculture and ecosystems, and innovative, adaptive psychosocial environments and lifestyles.

The Exoplanetary Corporation is the founding member organization within the EXO Corporate Family. The EXO Family is a group that consists of one Company (The Exoplanetary Corporation), whose mission is to shape, guide and lead an industry that will lead humanity to the stars, to exoplanetary horizons and beyond, and one capital management Fund (The EXO Capital Fund), whose mission is to facilitate the capitalization process for these undertakings, and one Foundation (The EXO Foundation), whose mission is to foster and guide research, development and mastery in the sciences and the arts for serving the needs of those who will build and achieve humanity's exoplanetary, interstellar future worlds.



## Historical Roots of the Company

### Version 1 of The Story

The Exoplanetary Corporation has its earliest roots in the visions and dreams of many individuals and groups that have interacted with one another directly and indirectly for more than a half-century. A few individuals have been particularly instrumental in the tasks of developing an organic model that integrates functions of science, technology, engineering, commerce and finance. There has been a long and sustained period of gestation wherein different experiments and experiences were conducted, consciously directed toward the end of refining the optimal ways to construct a human organization, an institution, a corporation, that will grow, thrive and sustain over decades and longer, in a socioeconomic climate that is, as things are in the early part of this 21<sup>st</sup> century, dominated by conflict and conflicting interests, often diametrically opposed to the very notion of long-term planning and investment of energy, finances, and other resources into topics as challenging, daring, and futuristic as exoplanetary civilization.

In the course of these experiments, several companies and institutes were formed and used for a variety of purposes ranging from basic research in the physical and life sciences to product development, commercialization and financial investment. As experiments they were unilaterally successful in their outcomes, by generating discovery of facts, creation of models, hypotheses and theories, and producing results that ranged from overt financial growth and profit to learning about the two most important sides of any investigation – what works and what does not work. Among the ingredients for the Company that resulted have been bodies of intellectual property and commercial assets. These have been cumulatively bundled and integrated into what is known in 2015 as:

§ The TETRAD Group, a private company with a portfolio of member companies and their assets, focused upon development of core technologies and product families serving needs on Earth and in Space for biomedicine and the life sciences, for energy and power, for environmental control and management, for defense and security;

§ The Institute for Innovative Study, a not-for-profit research institute focused upon the fields and topics within physics, mathematics, and biosciences that pertain most fundamentally and directly to the mission of the Company, Fund and Foundation, and particularly within the confluence of quantum relativity and the quantum scalar domains of particle physics, biology and computing.

All of the “priors,” namely, the work conducted and the works produced within these organizational structures, spanning the past two and half decades, have been motivated and directed toward “EXO,” the overall mission and the grand vision for Company, Fund and Foundation – enabling humans to move significantly, economically, unstoppably, in a Renaissance Venture leading to exploration, industrialization, colonization, and permanent habitation on other worlds beyond Earth.

All of these “priors” form the mix of ingredients for what is EXO in its organic and comprehensive fullness as a financial corporation, a scientific enterprise, a technology producer, a commercial provider, and a progenitor and champion of the most daring and challenging project of exploration and adventure every contemplated, designed and undertaken by human beings. Lifting off the human race and its civilization from the confines of Planet Earth, going forward into the complete and infinite Unknown, taking humanity where it has never been before and where it was destined always to be.

About all these ingredients and how they are to be properly combined and used in making the components of what will best serve the EXO Mission, there are other and more detailed descriptions, later within this document and in separate business, technical and financial papers.

In a book entitled, “EXO A Returning” (publication planned for mid-2016), a story is told about things that will strike most readers as being unbelievable for their improbability and apparent impossibility. The characters and events recounted in this book provide a good storytelling for the origins of The Exoplanetary Corporation and the related Foundation and Fund. Here follows a synopsis of that story, and it is provided here in order to provide the reader with a deeper understanding of what this is all concerning.

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@ 1992

A project later known as ASTRIC-1 is conceived among a loosely-knit group of mostly physicists, including Edward Teller, Vitaly Ginzburg, Basil H, David B and others, including young Parker David, through meetings and collaborations that take place mostly in and around Washington, London and Moscow.

Mid-90's

Mostly in Russia, in a few and rather unusual and heretofore unpublicized places (e.g., Dubna, Arzamas, St. Petersburg, Chelyabinsk) the TERANOD project develops as a theoretical and experiment-ready but experiments-blocked program for nuclear fusion with significant simplicity compared to other mainstream architectures. TETANOD draws upon research in nonlinear physics and mathematics, particularly with 3D solitons, also neutron beam and cascaded-beam formation and control, also feeder-breeder fission reactors, and also the mutual and previously exclusive and secretive work by both the USA and the former Soviet Union in “Star Wars” anti-missile laser beam efforts.

Spring, 2012

ASTRIC-2 and the newly-established Eoaduna Foundation commence a project for asteroid collision deterrence driven mainly by Parker and a few others around the world. Astrophysical Reconnaissance, Intervention and Countermeasures. It is based upon principles derived from technologies and practices seemingly as diverse and far-removed from each other as butterfly catching, carbon nanowires, ion propulsion engines and Newtonian mechanics. There are no nuclear missiles, rockets or warheads involved, nor roles for heroic self-sacrificing astronauts. It is not very well-received by the mainstream population of academics or NASA program managers.

2013

The 100YSS Program gets underway, and Eoaduna Foundation works on designing and refining architectures like MOSES using concepts of PODs for space engineering and exploratory structures, including prior experiments and prototypes with pod-like and tetrahedron-like structures for use on Earth in a variety of improvisational and emergency/disaster relief situations. Also the TERANOD fusion architecture is being resurrected and refined from earlier times, but still at the purely theoretical level, enabled and infused with hope now, however, by the emergence of new and very promising materials including graphene.

2015-2017

Due to people and events most of which are simply not understood by Parker and many others, that which was ignored, rejected, and not given any real attention in past years, suddenly “takes off with a

life of its own” and things “Happen.” (Well, we can just say that a program gets underway and Parker is involved in it and then gets selected to play an instrumental individual role, but one where most people consider it will fail and result in his demise as part of some “futile hopelessly improbable science experiment that some people with some money simply went ahead and did anyway.” (This project is funded not by NASA and govt. agencies, but they go along with it because it is an attention-getter, it looks “advisably politically correct,” and along with some politicians they speculate that they can gain from the “PR.” It is mainly funded and supported sociopolitically by some quiet-in-the-background wealthy fellows, a particular “achieved-his-place-and-admission-into-the-club” Russian-American billionaire and his friends.)

Most of this commences in 2015 but really gets noticeably underway and with momentum starting in 2017.

@ 2024

Parker goes into space as the sole experimenter-astronaut in a trial version of Mission KNE (Kepler-Newton-Einstein)

His fate rapidly becomes doubtful and foreboding, as it appears from observation and tracking that his ship almost certainly decomposed and was lost in an explosion in space, at the point of mission departure into an improvised artificial wormhole. This final and complete destruction was estimated to be the 40-60% probable outcome. Publicity, investigations, legal inquiries, talk-show interviews with media science pundits, and outcries over the waste of both private and public funds for insane mad-science adventures ensue. Defensive statements are made to the press along the lines of there being many benefits for practical everyday technology including safer automobiles and planes that have been derived from a research program that was likely doomed to impossibility and failure from the very point of conception.

For Parker, 12 years pass according to his personal time-experience. Describing his experiences do not fall within the purvey of the account as it is being provided for this document about The Exoplanetary Corporation, The EXO Capital Fund and The EXO Foundation. There will be other places and times for giving a more detailed account of what Parker David has been experiencing.

On Earth, 120 years pass by.

@ 2013 (just a few years ago back from now)

Parker returns to Earth, not to 2144, nor to 2024, but due to the simple facts of uncertainty and the way things turn out, to Earth of 2013, somewhere in the Midwest. Not quite a sudden appearance out of the blue into an Iowa cornfield, but something not so remotely different. Probably he resurfaces in Michigan, because Michigan is the kind of place where such things are more likely to take place.

2013-2015

Parker receives a very negative reception during 2013-2015. For two years he tries to communicate what he has undergone, who he is, in fact, and what findings he has discovered, to basically no avail whatsoever. It is almost as if people do not want to acknowledge that he exists or that something like Mission KNE could even be possible. Besides, there is absolutely no way to explain the situation where he is here in 2013-2015 and talking about events that have not yet happened for several years to come... Thus, he must be mad, unquestionably, and in these times of social instability and fear over everything from terrorists to gun-wielding unhappy citizens, he must be considered to be dangerous...

Parker has one reliable and very intelligent friend, a middle-aged man who has recently settled in Ann Arbor, Michigan, a native of India who is working in IT but really a scholar of multicultural behaviors and the emerging multi-discipline of PSED (psychosocioeconomic dynamics). His name is Navid Patel. Navid is one of those Indians who, along with a few other humans, seems to be of some indescribably undefinable age when it comes to years and such numerical reckonings. He may be in his late 40's or 50's but sometimes without question he seems to be mentally and physically and culturally-by-situation a fellow in his late 30's or even 20's, especially if conversation over a glass or two of good wine gets going with good friends and becomes animated (which it invariably does in the case of Navid and his circle of friends).

They joke about “Navid meet David” and Parker encourages Navid to apply what he has learned all his life from his childhood on up, from his culture, and other cultures, from his diverse and extended international and multi-racial, multinational family. For instance, Navid's brother is married to a woman from Siberia who is a Buryat Mongol with a line of descent from the very same village and region where Genghis Khan grew up as a boy, his sister is married to a German, Irish, Swedish mixed fellow). Navid and (a few years later after first meeting Parker) his new wife both love to cook a world-full of authentic as well as highly improvised cuisine. Their kitchen cupboard is a magical shop of all possible spices, herbs, oils and extracts. Their spiritual roots and traditions are the verbal, artistic, and intellectual counterpart to their cooking. Navid's home is a temple. And a small gothic cathedral. And a mosque. And a synagogue. And a rustic shaman's yurt.

From their very first meeting, Parker encourages Navid to “never give up” about important things, tells him to watch certain films (including “Life of Pi”, from which he himself gained inspiration while on his harrowing trans-spatio-temporal journey; whether he managed to have a way to re-watch it during his journey is, again, not the subject for this accounting, but one can wonder...). Parker tells his friend to find himself a wife and have a family again, in spite of the tragedy where Navid's wife and children were lost years ago, killed in a terrorist bomb attack on a plane, leaving Navid in a state of almost constant remorse and survivor's guilt about it, with fear and trepidation about any future relationship with any degree of closeness and intimacy.

Following a period of travel, exploration, introspection and a great deal of dialog, especially with Navid and a small circle of people, Parker decides to leave Ann Arbor and go to visit friends who have invited him to India. They are scientists and others, living in the south, in the state of Andhra Pradesh; they are among the few who have been proponents of all this talk, research and energetic spiritedness that forms the undercurrents and foundations leading up to Mission KNE. Parker does not know that they are actively trying to get something to happen and to progress, how close things have come, and how a few seeming “bodhisattvas” have appeared in their midst, with, among other things, ample capital to make things happen in the world of design and engineering.

Parker leaves his journals and records, AND INDEED, everything that comes from his trip that started in 2024, all his observations, reports, and personal diaries, with Navid. Then he (Parker) heads off to India.

2016

Navid has an acquaintance, Brent Wills, a man who is a well-connected and wealthy, and soon to be vastly wealthier, individual, and that man is a friend of another acquaintance of Navid's, an older Indian man named Raghavananda, who is in his 70's. R. has talked a lot with Brent about philosophy, politics, business, and the latter regards “Sri Raghavan,” as he and other friends call him, as something of a wise spiritual advisor and mentor. R. urges Brent to go and meet Navid in Ann Arbor.

Brent travels to Michigan and meets Navid at the latter's home. There, Navid shares the story and what has been told to him by Parker.

Brent Wills is strongly impressed and influenced by Navid and the whole experience and everything about Parker and his amazing adventure. Brent has a lifelong interest and commitment to space science and engineering, and he is quite knowledgeable about everything including ASTRIC, TERANOD and related topics concerning interstellar travel, exploration, colonization, and especially about new exoplanets for humanity.

Brent collects all sorts of people together, first in the United States, and after a particularly “exponential experience,” as he described it, at a dinner hosted by Navid and his wife, Brent travels to India and meets the group assembled, growing, and working there. Brent puts up the basic and major funds, to which the Indian group adds ample complements, for what begins in late 2016 and starts to get underway in 2017 for what becomes Mission KNE.

Somewhere during the ensuing next few years, Brent (through his friends in India who are now deeply involved in Mission KNE) makes the acquaintance of Parker who has been around but often in a personal sabbatical-sojourn traveling about through India. Brent and the group convince Parker to become centrally involved in KNE and ultimately to become the “test pilot” for the Mission.

2024

Parker goes into space as the sole experimenter-astronaut in a trial version of Mission KNE (Kepler-Newton-Einstein) ...



## A different story, more compatible with contemporary expectations

### Version 2 of The Story

The story as provided in the preceding pages is one that is generally difficult for many people living, educated and working in contemporary 2015-era corporate, academic, and other institutional environments. When Pi Patel was recovering from his 227 days of crossing the Pacific Ocean in a lifeboat, with an adult Bengal tiger as his sole companion for the entire journey, the Japanese shipping company's insurance adjusters had great difficulty in grasping and handling his detailed story. Thus, Pi gave them a different account, ostensibly more believable than the first. So here is a different story.

The world on Earth has already entered into a phase of geological and ecological dynamics that are part of a natural set of cycles and inevitable events. There are also astrophysical processes unfolding, not the most of which, in terms of impactful consequences for many species and variants of biological organisms living on the (relatively-speaking) microscopically-thin film-like surface layer of an anomaly among planets, named Earth by the human inhabitants on said thin-film surface, are a mostly unknown large set of asteroids and rocks of varying sizes, drifting through the local solar system, passing at all sorts of angles and paths through Earth's orbital path. Some of these asteroids are well-known, their paths observed, calculated and predictable. Many of these asteroids are totally unknown with respect to their size, shape and trajectories. Most of these rocks will not collide with Earth. Some will do so. Some are capable of triggering, or compounding, changes within that thin-film surface region of earth, water and air that is the entire ecosystem and source of all life for inhabitants of Earth such as humans.

There are other astrophysical and geological events of similar significance – supervolcanoes such as the complexes within the Yellowstone region of North America or the islands of Indonesia, electromagnetic pulses through major solar flares and bursts, and then other, less likely or at least less predictable events that can include gamma ray bursts and black hole events.

Without any need to look skyward or deep beneath the surface of Earth, there are also those nonlinear events and processes that are principally rooted and nourished by the very ecosystem of living organisms on this thin-film surface. These include emergent and novel micro-organisms of bacterial and viral natures, other organisms that are very well-known to humanity but which undergo adaptation and change from time to time. Then there are certain consequences of the human habitation process itself, the actions and reactions from thousands of years of inhabitation by humans, and particularly from the fact that an extremely large number of humans (now exceeding over 7 billion) have been living, building, mining, farming, industrializing, and generally transforming vast tracts and regions of that ultra-fragile thin-film surface of the planet.

Within coming years, measurable and predictable only to certain degrees of probability and accuracy such as “anytime, but with increasing likelihood as we move past many clock-points from our estimates based upon prior experience and record-keeping,” Planet Earth will for one or another but certainly with a cascade-effect of closely-coupled and inter-dependent factors become severely uninhabitable for humans. An asteroid collision may be the most imminent Event Majeur leading to the virtually complete or complete annihilation of human civilization and inhabitation.

One thing is certain at present. All human life and everything we know as culture and civilization is totally, 100%, locked into and dependent upon the finite thin-film surface of the planet. Outposts in

the form of present space stations (one, only, and in very low near-earth orbit) and submarines can maintain themselves for at best a matter of months.

Pi and the tiger, Richard Parker, had much better odds for survival crossing the Pacific.

Trapped upon the surface of a planet turned wrathful and inhospitable to human life, those pockets of homo sapiens sapiens that survive, linger, and perhaps survive longer, will witness around themselves and within themselves as society and as individuals the rapid dissolution of civilization into barbarism, at best, with behaviors that would surely exceed the combined atrocities of Nazis, Pol Pot, ISIS, and serial psychopathic individuals. Cannibalism and beyond. Humans as livestock for slavery and food.

As a result of seeing this future story coming into being, some individuals, at the very last possible moment of tangible realistic hope for survival of the human species and its civilization, after great argument and deliberation and much procrastination, decided to put forth a small portion of present-value capital for the Work, the Projects, of The Exoplanetary Corporation and the related Fund and Foundation, treating it all as an interesting experiment, not likely to produce any of the stated and overtly grand, visionary results, but possibly worthwhile in the short-term for achieving some acceptable capital gains and returns with a reasonable exit strategy.

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Pi's alternative story, given to his Japanese corporate interviewers, is less discomforting than this account of what is to come.

So, the main point of this second and alternative story regarding the formation and founding of The Exoplanetary Corporation, The EXO Capital Fund, and The EXO Foundation, is this:

There is a less unbelievable story to our coming into being, to our purpose, mission, and objective than that which was provided in the previous section of this document, the second part of "The Historical Roots of the Company." Less unbelievable, perhaps, but also, far less desirable to consider. No sane person would conceivably prefer this second account. Like the Japanese shipping company investigators, no one wants this second account. You do not want it, either.

One has only to take a moment to make the choice as to which is a better story, regardless of "what others may think and say."

A moment. At the kitchen table, sharing breakfast with family, with one's mate, with children, with friends. In the summer garden, leaves rustling and dancing in the trees, providing a dance of color and shadows, flowers radiating a kaleidoscope of rich colors, fruits and vegetables fertile and plump and richly nutri-delicious. Clouds making themselves into shapes to amaze and cause laughter and sometimes a dash of serious and somber thoughts. Sun and Moon and Stars, and the self-awareness of oneself and one's fellow humans being aware of being aware of our World, and being able to make, to do, to produce, to Live.

A moment. Of realization that we all grew up here on this delicate, fragile, beautiful, amazing, tender, highly-sensitive and subtly balanced thin-film surface of a sphere that follows singular and complex paths in its life which is in turn our life, our lives, our raison d'etre as a species.

A moment. Of imagination about what it will be like to have all this disappear in a holocaustal flash or a slow, long-drawn deep freeze or a chronic-pain dying away that cannot be stopped because there is nowhere to go, there are no people far away, in a safe place, to carry on, to live on, to be humans who carry forth the seeds of being the conscious adventurers and seed-sowers and civilization-builders of worlds beyond this home planet, worlds beyond the orb of our silver-white moon, worlds beyond the bright warm gaze of our golden sun, worlds beyond worlds and even beyond present words, the places in our universe where no man has gone before, and where it is in our very nature, our essence, to go, because that is what we do, that is what it means to be Human.

You make your choice. You choose which story you prefer. You decide, and then you act, and you live by your choices. Together, we live by the choices we make, the stories we decide are better, are worth living by, telling, keeping, and believing.

## Goals, Action Steps, Strategy and Implementation Schedule

This section provides a succinct summary of specific processes and activities pertaining to the whole of The EXO Family but principally focusing upon the growth of The Exoplanetary Corporation.

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*These can be presently found in other writings pertaining to descriptions of The TETRAD Group, the Institute for Innovative Study, the Eoaduna Matrix Program (formerly, Eoaduna Foundation), and what are listed under “The Projects” below.*

*Main Goals, Summary:*

*1. \$100,000,000 capital investment that forms the initial capital within The EXO Capital Fund. These assets will be used to supply some of the funds to be expended, and to leverage and influence other sources – private and public – to support the Projects. This capitalization begins with seed commitments and with the sale of options and “meta-options” (described elsewhere: options to be able to purchase call/put options in the future.)*

*Commencing: Fall 2015 (organization, meta-options, seed capital formation); based in Ann Arbor*

*2. InTeleMed and PodAtrium projects on Earth, but designed with Space in mind. These are in line with everything to date re: InTeleMed and its HIMEDPAC instantiation, with the field-study-implementation region comprising both India and Indonesia, not only the latter.*

*Commencing: Fall 2015, extending into Spring 2016 (finalization of Phase 1, initial organization of team(s), participant facilities, target sites and operations)*

*3. MOSES and ASTRIC development and launch into NEO (near-earth orbit) for planetary protection and defense.*

*Commencing: 2016, with first deployments in NEO @ 2017-2018*

*4. Commencement of ASTRIC-based mining of select asteroids in the local solar system.*

*Commencing: 2020*

*5. In parallel, TERANOD and Cygnus energy projects, and the implementation of the required fusion system, again, first on Earth but with Space as the primary application/destination.*

*Commencing: Definition and initiation of resumed phase-1 and beginning phase-2 R&D @ Late 2015 / Early 2016*

*6. In parallel, refinement of Quantum Relativity Invariance Theory, aka Spacetime Topological Quantum Relativistic Network Dynamics.*

*Commencing: (underway at present, 2015; amplification of research efforts henceforth)*

*7. Refinement of theory, models and engineering foundations for complex shaped-mass objects to manipulate thin-film border regions around black holes for effecting directed and controlled stable transits via wormholes to distant and precise-target regions in the local galaxy and potentially the supergalactic cluster regions of the universe.*

*Commencing: (research underway presently, with stronger program in 2016 and beyond)*

*8. Design of the Ship, "BrahVishNatRaj," capable of operating a multi-generational, multi-personnel mission based upon the results of (5,6,7)*

*Commencing: early-stage research 2015+ in conjunction with 100YSS and other programs*

*9. Embarkation and launch of the Journey of the BrahVishNatRaj to one or several exoplanets.*

*Commencing: TBD*

*10. "Parker David and others return to Earth to tell about their Adventures." (Something along these lines...)*

*}*

## The Projects

These constitute the major Projects of the Company and also for the Foundation. The technology and product sectors involved in these projects constitute the focal areas of the Fund's attention, interests and investments.

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*For now, consult existing descriptions in technical papers and presentations, “white papers” and other memoranda, and website-published materials pertaining to these. The Appendix (below) should be useful.*  
}

### **TERANOD**

Pulsed coherent neutron soliton beam technology

### **MOSES**

nPod

ASTRIC

Cybernaut

HALO

ECCOS

### **InTeleMed**

CUBIT

HIMEDPAC

SenSelpha

AOA

IQBioProt

### **Cygnus**

Metatron

Hanak

## The EXO Foundation and Benefits for Humanity

The EXO Foundation is a private non-profit foundation dedicated to advancing scientific and technological research, development, education, and public support in topical areas relating to the exploration, industrialization, travel, colonization, and other developments of off-planet and exoplanetary regions.

The Foundation conducts the following basic activities:

§ sponsorship of research projects that meet the interests and requirements of its program team which issues requests for proposals from researchers worldwide.

§ sponsorship and facilitation of seminars, workshops and special events, such as the TETRAD Seminar Series (undergoing revision of dates and locations:

<http://instinnovstudy.org/seminarseries.php> )

§ sponsorship and collaboration in courses both onsite and online.

§ sponsorship and co-facilitation of special projects such as for youth “S.T.E.A.M.” learning activities.

§ facilitation and management of a residential retreat center (“EXO House”) for visiting scientists, artists, writers, and thinkers (location TBD but likely to be in Northwest Michigan; Leelanau County)

§ facilitation of publication and dissemination through the medium of books, journals and visual arts, both physical-print and internet.

The benefits for humanity are both immediate and open-ended, long-term, and for all ages, interest groups, and other demographic strata of society.

The Foundation operates through an Executive Staff, a Board of Directors, and a Board of Advisors and Mentors. It is based in the area of Ann Arbor, Michigan.

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*For now, simply review prior writings and presentations about*  
*Institute for Innovative Study*  
*and*  
*Ecoaduna Matrix Program (Ecoaduna Foundation)*  
}

## The EXO Capital Fund and Investment Portfolio

The EXO Fund is a private equity venture fund organized upon the following fundamentals:

- I. Investment with very long-term, trans-generational, high-yield returns
- II. Focus upon the industry and technology types that the Fund Managers believe to be the most valuable, significant, and impactful within the span of present and near-future generations and serving the broad goal-sets shared and pioneered by The Exoplanetary Corporation and The EXO Foundation, namely, the development and maturation of interplanetary and interstellar exploration, colonization, industrialization and civilization.
- III. Application of hedging and securitization principles of financial management that apply historical experience with advanced modeling and forecasting, in the context of a trans-generational, multi-decade and multi-century socioeconomic outlook.
- IV. Initial operations commencing with a \$100,000,000 (USD) capitalization and minima of \$100,000 investment units by individuals and institutions meeting the qualifications and standards for the long-term investment terms required.

The Fund operates with hedge fund principles and its portfolio includes well-established, publicly-traded companies, private equity securities funds, venture capital funds, and a select few entrepreneurial assets in which EXO Fund has taken a position. The Exoplanetary Corporation is one of the Fund's special-interest investments but it is not the only company with activity in the space industry in which the Fund is engaged.

The Fund is managed by a team of professionals with extensive experience in all aspects of investment fund practice and management, and with a Board of Advisors consisting of individuals with recognized and specialized experience within different industries and disciplines.

The Fund is based in the area of Ann Arbor, Michigan.

## Key Resources for Learning

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*For now, see the APPENDIX below. It will be necessary to navigate through different websites and find background material that helps to provide the facts, the perspective, the understanding of how the entire EXO Family evolved and how everything is organically coupled and integrated.*  
}



## Frequently Asked Questions (FAQ) and Concise Statements

[1]

*What is the EXO Family and how do the Company (Exoplanetary Corporation), Fund (EXO Capital Fund) and Foundation (EXO Foundation) fit together with one another?*

The EXO Family consists of one company, whose mission is to shape, guide and lead an industry that will lead humanity to the stars, to exoplanetary horizons and beyond, and one capital management fund, whose mission is to facilitate the capitalization process for these undertakings, and one foundation, whose mission is to foster and guide research, development and mastery in the sciences and the arts for serving the needs of those who will build and achieve humanity's exoplanetary, interstellar future worlds.

The Exoplanetary Corporation comes first, takes the lead, brings about the rest.

The EXO Capital Fund comes next but is essentially concurrent with the Corporation. They are like twins.

The EXO Foundation comes next but is nearly concurrent with the Corporation and the Fund. It is like the younger sibling of the two elders.

[2]

*Where is everything based?*

Home base for the EXO Family is in Michigan, and further, within the southeastern region encompassing Ann Arbor, Ypsilanti and east to Detroit. Here in the early 20<sup>th</sup> century was the rise of major industrialization and growth initiated and empowered by the automobile and other machinery of power generation, propulsion, and transportation. Now in the 21<sup>st</sup> century will be a Renaissance introducing new directions in the same sectors but serving the expansion of the human species into space and in a bold, decisive, and permanent manner.

[3]

*What does The EXO Family bring to people, to the economy, to the state and country, and why does it merit the attention and support of major partners and investors?*

First of all, it places Space Industry in a comprehensive systematic context that includes all aspects of human activity including habitation, and it creates a platform for open-ended, diversified, and unlimited long-term economic development. EXO creates a strategy for generating and managing sustainable revenue and profit through all phases of activity including the very initial phases and this strategy contains action steps that continue ad infinitum into the future.

Economic growth, employment, training, and profitability are based upon a permanent platform that can only grow and become stronger as time proceeds. There is no dependence upon one mission, one technology, one product sector.

There are technologies applicable to many other fields and usable within industry and also the consumer sector apart from activities off-planet, in Space.

There are two very major focus areas:

- the physical sciences, in particular upon the physics, chemistry, and materials sciences required for energy and power systems, and vehicles, that will operate in deep space, but this will serve power and material needs for Earth-based society as well, and
- the life sciences, in particular upon the fields and tasks needed for sustaining, modifying and maintaining health in remote and isolated environments within deep space, but this will serve many healthcare needs of Earth-based society as well, particularly with respect to auto-immune disorders, microbiology and infectious disease medicine, and longevity challenges including life-extension and trans-generational genetic engineering.

[4]

*How will everything be sufficiently and sustainably funded from the beginning, commencing in the immediate present (2015)?*

First, the EXO Capital Fund, with capital for operations and with the sale of both options and meta-options to future investors. Second, the Corporation itself, and third, the Foundation, each entity operating as an individual entity yet in close relationships with one another as outlined above.

Over the initial few years, profits from the Fund enable additional investments into the Corporation (as well as into other recipient ventures), and profits from the commercial sales by the Corporation – namely, products that are for present-use, Earth-based, primarily in the domains of biomedical and structural (nPod) goods and services – feed into the Corporation's gradual expansion and its growth needs for major technology deployments pertaining mainly to space-based operations.

[5]

*How will returns and exit strategies be governed in this “trans-generational” model which extends beyond lifetimes of individual investors and beyond the projected lifetimes of many institutional entities including corporations and other investment funds?*

There is a straightforward precedence for all of these matters. Investments and their ownership are handled according to the procedures and practices defined by both individuals and corporate entities with respect to inheritance, wills, divestitures, dissolutions, and so forth.

The major task of management within all organizational members of The EXO Family is to maintain continuity and vitality through integrity, adaptability, dedication, and concentration upon the Primary Objectives and Mandates. These are not static but highly dynamic and under constant review, reassessment and modification. However, in accordance with the fundamental very-long-term trans-generational outlook spanning socioeconomics, politics, and the sciences, management maintains a patient and philosophical perspective upon those events that often result in momentary short-term gains but long-term losses within current market communities.

{

*Creative twists, with some humor intended:*

*What? You have questions? You still have Questions?!?!?*

*What planet are you on?*

*Quick quiz:*

*What year is this? (OK, a hint: it's the 2016 US Presidential election next year...*

*OK. What year were you in "last year"?*

*2014? Or was it 2016?*

*Look, make it easy. Just pick a direction. Forward or backward, as far as Time. Please don't make it complicated with 2D and 3D time – that is still a real mess, and even God has a big problem with that math and geometry – one reason He keeps tossing the whole experiment aside into the Great Bin and starting all over.*

*But seriously. It is good to give yourself, now and then, the value of looking at things in the "GAP" world – the Generally Accepted Present – from the perspective of, say, a few years or decades or centuries in the future.*

*Really helps to "put things into perspective," as my good friend Navid will like to say in a few years.*

*Now... Would you care for another cup of chai (Indian-style spiced Darjeeling tea), or a glass of Beaujolais, or perhaps something stronger – kagor from ancient Kiev, or cognac from the mountains of Georgia?*

*}*

## APPENDIX

[1]

Annotated list of entities within, affiliated with, or potentially connected with The TETRAD Group (Summer, 2015), a significant and majority-owned/controlled asset within the initial portfolio of The EXO Fund.

Entity	Function	Status	Website
<b>TetraDyn Ltd.</b>	Technology-generator, iQs, GEMIS, and overall CUBIT-architecture and product line, special SME services	INC as corporation in VA	<a href="http://tetradyn.com">http://tetradyn.com</a>
<b>SenSelpha</b>	consumer/institutional sensors, monitors, pqoin-architecture devices and apps	to be INC as corporation in appropriate state	<a href="http://senselpha.tdyn.org">http://senselpha.tdyn.org</a>
<b>QxC Inc.</b>	quantum (biomolecular-based) computers, software, systems and applications	INC as corporation in NY	<a href="http://qxcqxc.com">http://qxcqxc.com</a> & <a href="http://qxc.tdyn.org">http://qxc.tdyn.org</a>
<b>QiX</b>	ORBIS virtual-world for gaming and trading, and Kyberos-based iBank network for data havens and cybersecurity	to be INC as corporation in appropriate country	<a href="http://qix.tdyn.org">http://qix.tdyn.org</a>
<b>EpiXaT Corporation</b>	LUX-based and related CUBIT-architecture software tools & apps for specific market environments	INC as corporation in VA	<a href="http://epixat.com">http://epixat.com</a>
<b>KOIN Ltd.</b>	xqoin/mkoin-architecture products for specialized, customized fashion/arts/crafts consumers and resellers	INC as corporation in VA	<a href="http://koin.tdyn.org">http://koin.tdyn.org</a>
<b>CUBIT</b>	The full spectrum of the CUBIT tech and products, focused on medicine and healthcare	(uninc)	<a href="http://cubit.tetradyn.com">http://cubit.tetradyn.com</a>
<b>InTeleMed</b>	expansion of original InTeleMed joint venture to focus, develop and control international medical isotope production and distribution	(uninc)	(older proto-sites) <a href="http://intelemed.tdyn.org">http://intelemed.tdyn.org</a> <a href="http://himedpac.tdyn.org">http://himedpac.tdyn.org</a>
<b>IQBioProt (aka "BioProt")</b>	antimicrobial bioprotection for surfaces, materials, buildings, with analytical services, sensors, and full-service applications	(uninc)	(future: <a href="http://iqbioprot.tdyn.org">http://iqbioprot.tdyn.org</a> (reference site) <a href="http://tdyn.org/bioprot-isb-smb-also-aoa/BioProt-related">http://tdyn.org/bioprot-isb-smb-also-aoa/BioProt-related</a>
(Related)	(Not a for-profit company)	(Non-Profit)	(Research/Education)
Institute for Innovative Study	Basic physics and biophysics research, main focus being on QCMP and its development	INC as nonstock corp in VA	<a href="http://instinnovstudy.org">http://instinnovstudy.org</a> <a href="http://qcmp.instinnovstudy.org">http://qcmp.instinnovstudy.org</a>

[2]

Additional details on the business units and intellectual property comprising The TETRAD Group (TTG), as constituted within the first half of 2015

### **TTG – the overall layout of the business family**

<http://tdyn.org>

The eight business units that comprise the principal members of the TTG Portfolio:

#### **SenSelpha**

<http://senselpha.tdyn.org>

For technical and medical data:

<http://tdyn.org/Biomed-AOA-BioProt-Craido-CUBIT-Mods-Pods/AOA-related/>

#### **IQBioProt (“BioProt”)**

<http://tetradyne.com/products/bioprotection/>

<http://tdyn.org/Biomed-AOA-BioProt-Craido-CUBIT-Mods-Pods/BioProt-related>

#### **CUBIT**

##### **InTeleMed**

<http://intelemed.tdyn.org> and <http://himedpac.tdyn.org>

##### **Rapid Infectious-Disease Diagnostics**

(Longer-term, after we are profitable with the basics)

<http://tdyn.org/Biomed-AOA-BioProt-Craido-CUBIT-Mods-Pods/CUBIT-CRAIDO-pcr-and-other-med-diagnostics/>

##### **PodAtriums, MedAtriums, Mobile Modular Field Medicine**

(Longer-term, after we are profitable with the basics)

<http://tdyn.org/Biomed-AOA-BioProt-Craido-CUBIT-Mods-Pods/Pods-incl-MedAtrium-EcOasis>

#### **TetraDyn**

<http://tetradyne.com> (Note: some business functions found at this website are now assigned to other business units within the TTG Portfolio, particularly CUBIT, SenSelpha and EpiXaT)

##### **SME and Expert Witness Services**

<http://sme.tdyn.org>

and <http://expertwitness.tdyn.org>

##### **The INDIGO REVIEW** (experimental development)

<http://indigoreview.tdyn.org> but especially the Portal, at <http://indigoreview.tdyn.org/portal/>

#### **KOIN**

<http://koin.tdyn.org>

EpiXaT

<http://epixat.com>

QxC

<http://qcx.tdyn.org>

QiX

<http://qix.tdyn.org>

**Note also that there are other products and technologies that are presently marketed or available for marketing and sale through partners in the USA and especially abroad in other countries.**

These are for many obvious reasons not part of the mainstream of TTG and not mentioned in the various documents, exec summaries, business plans, technical papers and websites.

These are mainly marketing and distribution opportunities for goods of different types in the **Defense, Military and Security Sectors**

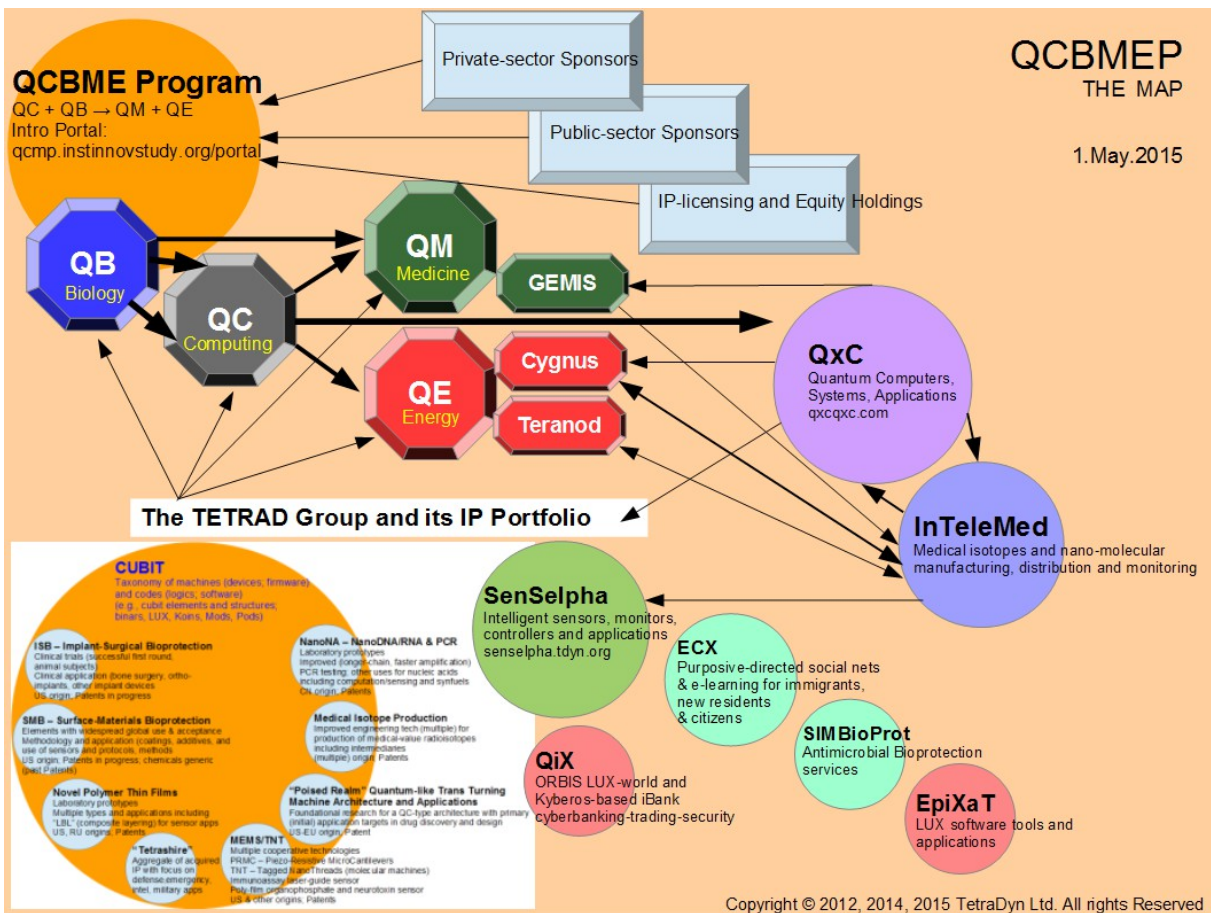
These can be of interest to people in various countries who have both the personal/corporate financial means and also the needs for security and protection and the desire to take advantage of unique, innovative, experimental, as well as conventional, defense systems.

TTG is able to provide a very reliable network of connections among persons who can arrange different business and we can benefit as advisors, brokers, and connectors. TTG nor the business units in its Portfolio do not need to directly handle any of the trade operations.

[3]

The QCBMEP-TTG MAP (May, 2015) [see next page]

The following diagram illustrates some of the relationships between research, technology development and commercialization as things were conceived in the “pre-EXO” era, prior to August, 2015 and the establishment of the Company, Fund and Foundation. There have been significant realignments in terms of organizational relationships but not with respect to the fundamental technology developments and deployments.



**The TETRAD Group as a unitary company:**

**§ The TETRAD Group** (“TTG”) is a private company organized as an LLC in the State of Michigan (USA).<sup>1</sup>

It is a singular holding company that operates a portfolio constituting a family of businesses which share several common roots and relationships:

- a significant sharing of fundamental intellectual properties, technologies, product architectures, applications, product developments, markets, sales, and future business prospects, including the cross-use and cross-fertilization of technologies and products where applicable to serve each portfolio-member's business goals
- designed by intent to serve several common business, financial, scientific, and technical goals in an explicitly synergistic, organic and symbiotic manner
- having or open to having certain persons as principals and/or contributors and influencers, persons who share in principles and tenets of business, finance, and fundamental ethics
- sharing in a fundamental purpose to build a network of businesses that will include both private and public companies of sustainable long-term trans-generational growth, adhering to classical principles of ownership, management, and stewardship, following along the general lines of historically successful “family companies”<sup>2</sup>
- founded and funded to date either solely or principally by myself, with prior earnings generated by the entities' revenues, including public and private grants

**Organizational Structure and Key Initial Persons**

There are members who share in matrix-management fashion, incorporating as well the general principles of proven methodologies in systems design and management.<sup>3</sup> These members serve in the following positions:

Executive Strategic Partner - M. Dudziak

Managing Partner(s) – senior-level, experienced, key decision-making functions

Partner(s) – other members of the Team

These three levels of partners in the Company establish and operate the functions of the Company's Board of Directorship and its Management Team.

In addition, there are the following:

Associate(s) – full-time or regular-part-time employees of the Company who are not partner-level members.

Consultant(s) – experts and specialists who are employed by the Company on an as-needs basis.

Note: Certain individuals who are or have been employees, board members, or subject-matter expert consultants to companies that are within the TTG Portfolio may be involved in one capacity/function or another within TTG as it is now being constituted. Decisions regarding such persons and also affiliated companies remain to be made once the TTG Core Team of Partners is established.

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1 MI incorporation remains to be executed

2 e.g., as demonstrated by the principles and practices found in a representative organization, the Henokien Society ([www.henokiens.com](http://www.henokiens.com))

3 Methodologies such as Agile, XP and Scrum within the information technology world



## Operations

TTG will be based in Ann Arbor or Ypsilanti, MI. A specific office will be leased or purchased for use as the Company's main and (for the foreseeable future) sole physical business-operations location.

Principal business operations by TTG consist in the business development and advancement of its Portfolio, and the products (including professional business services) thereof. A significant early-stage focal activity of TTG is in investor relations with the aim of providing operational funds for targeted business units within the Portfolio.

### **The TTG Portfolio – the member companies:**

§ **SenSelpha** (“SSEL”), a member company within the Group's portfolio, in the business of providing a line of products, consisting of devices (instrumentation) and software, for individuals and institutions, principally in the biomedical fields. The products provide sensing, measurement, and monitoring for selected health-related chemicals and biological substances including microbial pathogens. First and foremost (2015) in its repertoire is the AOA, an anti-oxidant measurement device, available as both a desktop instrument and as a handheld portable device, for medical and food production related monitoring of anti-oxidant and free-radical levels, usable both for non-invasive tests and laboratory analyses.

Version 1 of the AOA products are on the market in Europe with a positive and growing sales history. Version 2 will incorporate Qoin technology and other features from TTG portfolio members. Other SSEL products besides the AOA are already on the market or are in prototype and early marketing stages.

#### Target Regional Markets:

(primary)

Asia-Pac (KO, JP, CN, TW, VN, SG, MY, ID, AU)

North America (USA, CA, MX, Caribbean)

(expansion)

Europe (esp. UK, IR, FR, DE, NL, BE, CH, IT, ES, DK, NO, SE, FI)

India

Caribbean (esp. PR, VI, BWI and major travel/tourism islands)

Brazil

#### Target Customer Types:

(primary)

Food producers, principally of fruits and juices

Cherry and grape growers

Wine, beer and distilled liquor producers

Beauticians, cosmetics and body care salons, wellness centers

(expansion)

Hospitals, clinics, physician practices

Schools at all levels

Gyms and fitness centers

§ **IQBioProt** (“BioProt”), a member company within the Group's portfolio, in the business of providing a comprehensive product to individuals and institutions for antimicrobial bioprotection of surfaces, equipment and materials. The product is a combination of analytical services provided to a customer, plus certain physical treatment plans (typically for facilities, equipment, artifacts), regular and scheduled monitoring and re-assessment, emergency response consultation and technical services, a repertoire of software including mobile apps for use by employees, staff, suppliers, visitors, and training programs. The overall product offering consists of a four-part service:

- **Analysis**
  - Facilities (buildings, grounds, vehicles, major equipment)
  - Personnel (staff, visitors)
  - Materials (resources, supplies, products)
  - Processes (business processes, production, manufacturing, storage, distribution)
  - Informatics (education, training, monitoring, tracking, security)
- **SEM Treatment**
  - (Surfaces, Equipment, Materials)
  - Plan Development and Implementation
  - Physical Bioprotection Treatment
  - Post-Treatment Operations
  - Maintenance and Support
- **Education and Training**
  - Staff
  - Visitors
  - Onsite-in-person
  - Computer-based
- **Monitoring and Control**
  - Automated Sensor Systems
  - Interactive Software
  - Onsite Inspections and Tests

All aspects of the product and service are established in the marketplace, proven, validated, approved, and have a global market history in different forms, but not in this systematic and integrated model and method. Principally the physical treatment compound has been and is marketed through application treatment services only, and also through retail sale of the physical bioprotectant as a liquid solution for personal use (home, laundry), and also as a treatment for principally anti-mold, anti-odor, for certain textile producers.

**Target Regional Markets:**

(primary)

Asia-Pac (KO, JP, VN, SG, ID, AU)

North America (USA, CA, MX, Caribbean)

(expansion)

Europe (esp. UK, IR, FR, DE, NL, BE, CH, IT, ES, DK, NO, SE, FI)

India

Caribbean (esp. PR, VI, BWI and major travel/tourism islands, and Cuba)

Brazil

**Target Customer Types:**

(primary)

Food-processing companies with production/storage facilities

Public health departments and agencies

Large corporations with high-volumes of employees and employee/visitor traffic flow

Hotels and cruise ships

Automotive supply and parts stores (e.g., “AutoZone” and “Advanced Auto” types)

Professional sports teams, clubs and facilities

(expansion)

Hospitals, clinics, physician practices

Schools at all levels

Gyms and fitness centers

Big-Box retail stores

Commercial retail malls, office complexes, apartment/condo complexes

§ **CUBIT** (“CUBIT”), a member company within the Group's portfolio, in the business of providing the InTeleMed product offering, based strongly upon the previously-established CUBIT-Delta product-service revised and upgraded to 2015 market needs and goals, and including among options the CRAIDO and MedAtrium systems. The major focus within the CUBIT business unit is upon the development, with international partners in both academic, governmental, and corporate sectors, of what is known as InTeleMed – intelligent telemedicine, remote medicine, public health and specifically epidemiologically-focused products and services. A specific instantiation of InTeleMed, known as HIMPEDPAC, is underway as a major product focused upon Indonesia, in which CUBIT technologies, products and expertise figure in centrally.

The comprehensive spectrum of CUBIT products and services includes:

- **Public Health Civilian Education and Professional Training**
- **Multispectral Sensor-Fusion Diagnostics Program**
  - PCR lab-on-chip systems (e.g., the ST-developed, Veredus-marketed commercial P:CR instrumentation and assays)
  - Bioluminescent “SWIPE” and BRET devices
  - PRMC (microcantilever-technology) devices
  - Immunoassay and related spectroscopic devices
  - On-demand, special-situation other instrumentation and analytics
- **GEMIS Knowledge Base – Informatics**
  - Data acquisition and distribution
  - NomadEyes core architecture
  - BEZO-class mobile apps
- **InTeleMed functions for both healthcare professionals and civilians**
  - Basic telemedicine focused upon remote areas and special outreach services
  - CRAIDO for epidemic and pandemic events
  - MedAtrium for mobile modular clinics
  - Public health education programs for civilians
  - Popularization products including CUBIT-Apparel (e.g., belt pouches and satchels)

All aspects of the product and service are established in the marketplace, proven, validated, approved, and have a global market history in different forms, but not in this systematic and integrated model and method. All components are already in manufacture and use in different limited forms and through generally more costly and less user-friendly methods of employment.

Target Regional Markets:

(primary)

Asia-Pac (KO, JP, VN, SG, ID, AU)

North America (USA, CA, MX, Caribbean)

(expansion)

Europe (esp. UK, IR, FR, DE, NL, BE, CH, IT, ES, DK, NO, SE, FI)

India

Caribbean (esp. PR, VI, BWI and major travel/tourism islands)

Brazil

Target Customer Types:

(primary)

- Public health departments and agencies
- Large corporations with high-volumes of employees and employee/visitor traffic flow
- Public transportation operators and agencies
- Hospitals, clinics and other institutional healthcare providers
- Schools at all levels
- (expansion)
  - Physician practices
  - Nursing homes and home health care providers
  - Food producers and processors
  - Individuals (focus on family homeowners)

§ **KOIN Ltd. (“KOIN”)**, a member company within the Group's portfolio, in the business of providing the Qoin products, focused initially upon xqoin and mqoin architectures and serving primarily the custom-design, custom-content markets for both commemorative and advertising purposes for both individuals and businesses. The primary sales thrusts will be for:

- Commemorative events (births, graduations, religious personal events, weddings, memorials)
- Special gifts and presents
- Advertising, promotions and public relations

Target Regional Markets:

- (primary)
  - Asia-Pac (KO, JP, CN, VN, SG, ID, AU)
  - North America (USA, CA, MX, Caribbean)
- (expansion)
  - Europe (esp. UK, IR, FR, DE, NL, BE, CH, IT, ES, DK, NO, SE, FI)
  - India
  - Brazil

Target Customer Types:

- (primary)
  - Companies providing “registry” products for special events (e.g., weddings, graduations, special religious events)
  - Companies providing advertising goods for other businesses (e.g., at conventions and exhibitions)
- (expansion)
  - Individual mass-market
  - Many retail stores in the general space of jewelry, personal electronics, also in the music/video product domain

There are no products employing the qoin architecture nor the unique focus upon custom designs for the individual or business customers' style preferences. There is a vast difference between qoin products and what is in contemporary wearable devices such as “Fit Bits” and similar gadgetware. There is also nothing comparable to the use of TetraDyn software (including “BEZO” architecture mobile apps) for intelligent social networking and cybersecurity.

§ **TetraDyn (“TDYN”)**, a founding-member company within the Group's portfolio, reorganized in 2015 to be in the business of providing principally expert services (SME, subject-matter expert; expert witness) to client companies ranging from small entrepreneurial start-up businesses to large multi-national corporations. TetraDyn also holds a sizable body of intellectual property in the form of patented and patentable inventions, project results from previous funded research and development, as well as from consulting projects in which

other IP was acquired. Most of these other values within the TetraDyn business unit are technologies and productware related to one of the following domains:

- defense and security
- healthcare and medicine
- environmental monitoring and analysis
- artificial intelligence and computer science
- energy (nuclear, renewable, non-fossil-fuel) production and distribution
- mobile and social-network software apps pertinent to the general consumer audience with a focus on one or more of personal management tasks in: energy, environment, security, health

Target Regional Markets:

(primary)

Asia-Pac (KO, JP, CN, TW, VN, SG, MY, ID, AU)

North America (USA, CA, MX, Caribbean)

(expansion)

Europe (esp. UK, IR, FR, DE, NL, BE, CH, IT, ES, DK, NO, SE, FI)

India

Caribbean (esp. PR, VI, BWI and major travel/tourism islands)

Brazil

Target Customer Types:

(primary)

corporations producing technologies and products in the areas of TetraDyn expertise

investment firms whose portfolios include companies or plans in those disciplines

law firms engaged in litigation where such matters of expertise apply

§ **EpiXaT (“EPXT”)**, a member company within the Group's portfolio, focused upon development and sale of software products that are used within the following areas, in addition to use by other portfolio-member companies or firms similar to such but not within the TTG Portfolio:

- virtual reality and primarily integration of “virtual” and “real” world environments, maps, and real-time experiences by communities of users such as in social networks and game worlds
- defense and security including modeling and training
- personalized healthcare and medicine including rehabilitation and various training programs
- environmental monitoring and analysis, especially within modeling, forecasting and prediction
- artificial intelligence and computer science applications
- energy (nuclear, renewable, non-fossil-fuel) production and distribution
- marketing and sales of consumer services such as hotels, restaurants, shows, exhibits
- mobile and social-network software apps pertinent to the general consumer audience with a focus on one or more of personal management tasks in: energy, environment, security, health

Target Regional Markets:

(primary)

Asia-Pac (KO, JP, CN, TW, VN, SG, MY, ID, AU)

North America (USA, CA, MX, Caribbean)

(expansion)

Europe (esp. UK, IR, FR, DE, NL, BE, CH, IT, ES, DK, NO, SE, FI)

India

Caribbean (esp. PR, VI, BWI and major travel/tourism islands)

Brazil

Target Customer Types:

(primary)

corporations producing technologies and products in the areas of TetraDyn expertise

investment firms whose portfolios include companies or plans in those disciplines  
law firms engaged in litigation where such matters of expertise apply

§ **QxC ("QxC")**, a member company within the Group's portfolio, focused upon development and sale of computing machines and systems that embody the quantum computing architecture and software that is currently within research and development within the IIS (Institute for Innovative Study). This business unit is in "gestation mode" and will remain so until the R&D has progressed to the point (expected @ 2017) where there is a sufficient working prototype of the core device.

§ **Qix ("Qix")**, a member company within the Group's portfolio, focused upon development and sale of the iBank cybersecurity offerings which make use of the Kyberos security technology (software) and progressively, later, some of the results from the quantum computing research within the IIS and that will be commercialized by the QxC business unit.

#### **Potential Partner Organizations:**

§ **ATIP** ([www.atip.org](http://www.atip.org) - to be determined what will be their exact role and stake, with respect to mainly CUBIT, IQBioProt, SenSelpha, and also QxC in the future)

§ **IUT and other Indonesian institutions** (to be determined what will be their exact role and stake, principally with respect to the InTeleMed project targeting implementation @ Indonesia)

§ **Related business entities owned and controlled by different collaborator parties)**

- focused upon the operations of a private, for-profit educational institution providing a degree-centered program/programs in nursing and related healthcare professions
- having a focus upon onsite business activities in the Metro DC Region and online, distance-based, and mixed-mode onsite/online activities as well
- currently (6/2015) in the process of obtaining various state/federal and/or other approvals, registrations, accreditations, licensures, etc. in order to begin operations
- having a prior track record of the owner's professional work in the nursing, home health care, and related service areas
- having the ability to also serve business and professional needs of medical and healthcare professionals and companies operating in both the USA and other countries (in the Western Hemisphere particularly)

§ **Others** (to be determined what will be their exact role and stake)

#### **Equity and Stakeholdings**

TTG shall have its equity distribution as follows:

Martin Dudziak --- 52%

Other Partners, Employees and Consultants --- a distribution of the remaining 48%

Note: there are no “external” investors in TTG; an investor is a Partner, a Partner is an investor, the terms of such investment to be determined by mutual and complete consensus among the existing Partners. Purely external, financial-interest investors are for the companies and business units comprising the TTG Portfolio.

TTG shall hold 51% of each of the eight primary/initial member business units within its Portfolio.

The remaining equity stakes of those eight member units will be as follows:

IQBioProt, SenSelpha, CUBIT, EpiXaT, KOIN, QiX

Martin Dudziak --- 24%

Reserved for all other principals both active and emeritus level (e.g., R. Mandava) --- 5%

Reserved for new investors and employees --- 20%

TetraDyn Ltd.

Martin Dudziak --- 32%

Reserved for all other principals both active and emeritus level --- 7%

Reserved for new investors and employees --- 10%

QxC Inc.

Martin Dudziak --- 32%

Reserved for all other principals both active and emeritus level --- 4%

Reserved for new investors and employees --- 13%

## **Communications Media for Business Development (Key Documents)**

Each of the four businesses that are the current active focus – IQBioProt, SenSelpha, CUBIT and KOIN – will have the following ten (10) pieces of essential documentation. This must be produced for each business unit as rapidly as possible in order to properly serve the needs of obtaining financing through investors and lenders, joint venture and partnership agreements, grants, contracts and sales. Under contract, the same types of documentation shall or may be produced for certain partner organizations.

[1]

A single-page introductory overview (aka, “executive summary”)

[2]

A two-page expanded introduction describing the business, mission, products, services, methods of delivery, principals, and other pertinent facts.

[3]

A 1-page (full-page) brochure

[4]

A trifold brochure, with text and graphics on all (6) panels

[5]

A compact Business Plan (BP) in the new standard format (see examples)

[6]

A compact Financial Plan (FP) providing standard pro forma forecasts of expenses, revenues, and cash flows for a minimum of three years.

[7]

A compact Marketing Plan (MP) providing an accurate overview of the market, the priors, the similars and competitors, and the projection for the market spanning a minimum of three years.

[8]

A compact Investor-Lender Presentation (max. 12 slides)

[9]

A compact Customer-Client Presentation (max. 16 slides)

[10]

A compact website that presents the above information in appropriate abbreviated and stylistically appropriate format.

Note the central and focal role of QxC which is indeed the main purposive, directed focus of the entire Group, the principal *raison d'etre* for the formation and cultivation of the other businesses. QxC and InTeleMed (see Appendix, below) will be the focus for a \$100M (\$100,000,000) five-year capitalization plan that is commencing now, 2015, with the growth of SenSelpha and other companies.

This Plan encompasses the stated mission and objectives of QxC, InTeleMed, and also prior discussions relating to medical isotope production and delivery, including the substance, Molybdenum-99. This new and revised Master Plan is referenced in materials found at <http://qcmp.instinovstudy.org/portal/> but much of the new Plan is in the process of being written by myself and others.

This is not “dramatically ambitious.” Paintings at Sotheby's and Christie's have sold for nearly and even much more than these sums. The investments that have poured into the holes and pits of some Silicon Valley ventures that produce nothing but merely churn noise and hot air, have far exceeded these sums.

Quantum computing, and especially this way, with the biological basis, and the biomedical focus, will complete change the way medicine and healthcare are done in the coming decades.

Quantum energy sources, literally untapping the “vacuum of empty space” (which is, after all, not so empty at all!), will be attainable only with quantum computing devices and particularly of the type that I have been working on, with other colleagues around the world, for (basically) over twenty years. With such energy sources available, Amazing Things Will Be Possible and Realized even in our lifetimes.