

EQUINOX EQUITIES



Centre for Advanced Technologies



Creative Advancement Triangles

EQUINOX EQUITIES Pty Ltd ABN 98 010 700 624

Queensland Australia

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EQUINOX EQUITIES Pty Ltd and CENTRE for ADVANCED TECHNOLOGIES:

Consider the needs of a community that is within a remote region, e.g. jungles of Papua New Guinea, Amazon of Brazil, island communities throughout the oceans, what are their needed solutions?

Firstly, a low cost power source – electricity that is reliable and inexpensive.

Secondly, with a constant power supply then communications can be achieved via the internet.

Thirdly, with power and communications then education can be provided.

Fourthly, with education then food industries can be expanded, housing technology provided and greater opportunities for the community.

Fifthly, now health education and remote medical services can be introduced.

All progress begins with education. Without education then stagnation prevails.

With a reliable power source comes the capabilities of providing clean water. Pumps and small filtration units can dramatically increase the availability of water and its quality.

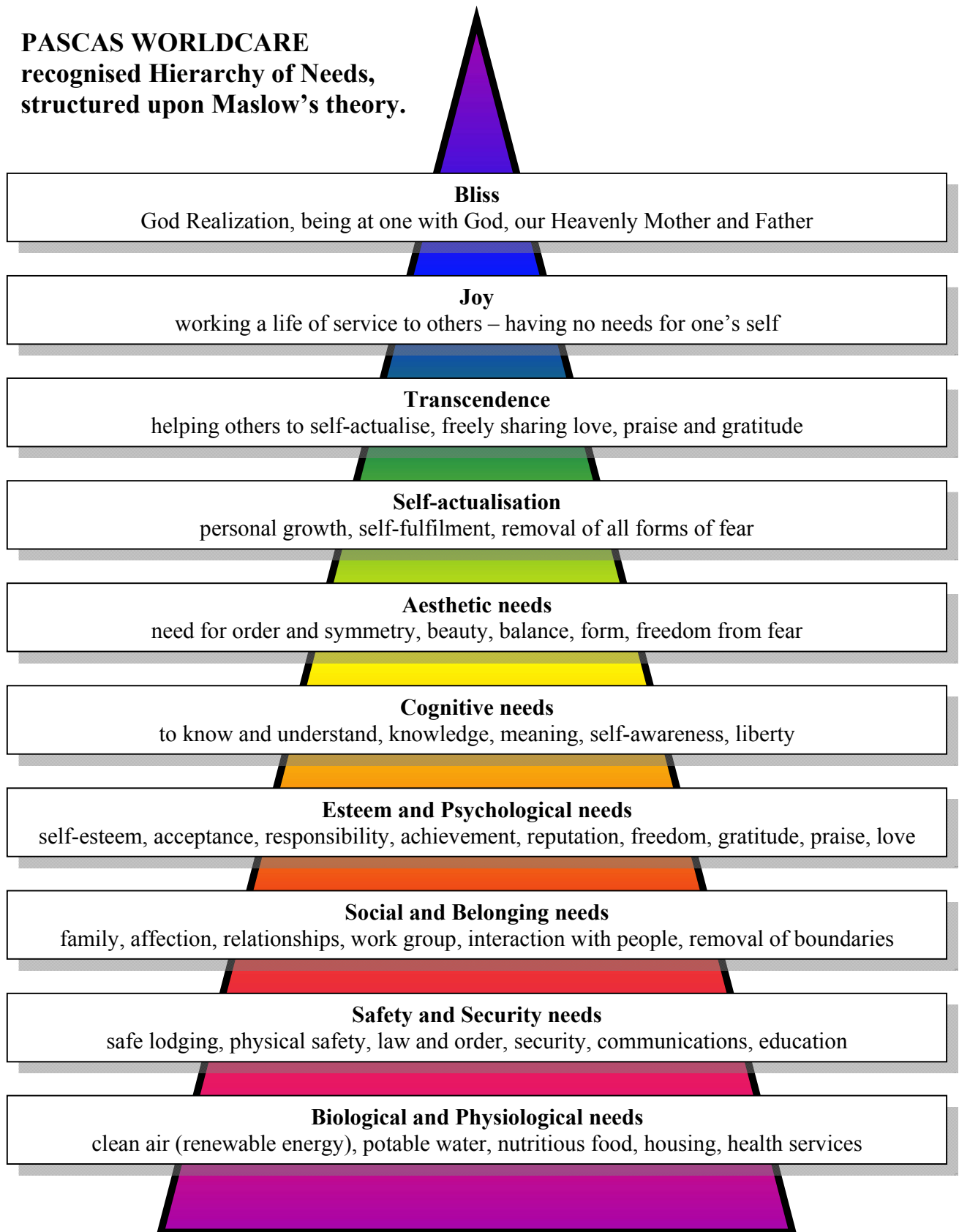
With reliable communications can come education for the whole community. From the youngest child through to the eldest citizen, forms of education can be provided, much of it can be provided from far away cities in the form of mobile remote area education, similar to home schooling. These education options may entail short form subjects through to full programs from universities.

Now, with all these innovations introduced into a community, then can be introduced new industries and technologies for consideration of manufacture. Thus, instead of concentrating manufacturing growth around the major cities of developed economies, manufacturing programs can be seriously supported and initiated within these emerging communities. Consider the market of 22 million people in Cameroon where little is manufactured. Papua New Guinea has a population of 7 million and little manufacturing. Meaningful employment with pay is dreamt of by more than 2 billion people on this planet.

The opportunities are many. Having interviewed some 1,000 inventors, more than 400 new technologies or products were recognised. Interestingly these products ALL had application for remote and emerging communities, whereas they were not necessarily viable in developed markets. Sadly is the chronic lack of funding to realise these innovations in the appropriate markets for which they are needed.

These needs are the goals of Equinox Equities (E²) and can be regionally supported and delivered through Pascas Care Centres that are proposed for some 40 countries that are deprived of the infrastructure and industries that developed markets enjoy.

**PASCAS WORLDCARE
recognised Hierarchy of Needs,
structured upon Maslow's theory.**



The diagram on the following page provides an overview of the structure needed to enable support to be provided to individual innovators of new technologies within the umbrella of one main structure.

Though this structure will be initially located within south east Queensland, it becomes the blueprint to establish other 'creative advancement triangles' (CATs) within other regions and countries.

It is the marrying together of financial support for innovators proceeding to commercialise a proven technology, such commercialisation being the marketing of the products within a range of communities that can benefit greatly from these initiatives. At all times, the financial resources need to be protected as best as possible, whilst for the innovator his/her intellectual rights need protection. The joining together of funder (Equinox Equities – E²) with an inventor is to follow a well outlined set of criteria and structures. This will enable uniformity of understandings.

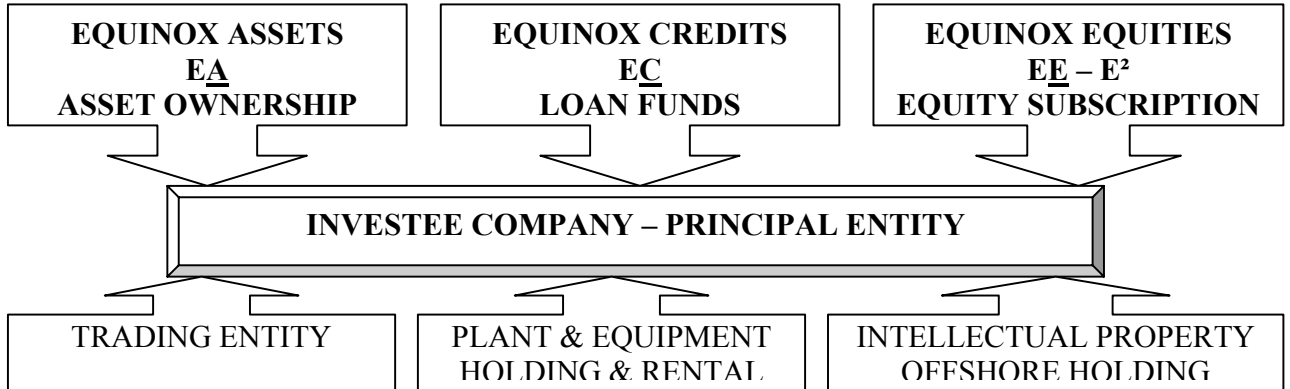
The Centre for Advanced Technology (CATs) enables the provision of professional skills and scientific equipments that would not be feasible on a single project program. That is, by bringing the financial support for some twenty or more technologies then professionals in many fields – marketing, selling, industrial design, patent attorney, engineering, human resources, finance, accounting, etc., can be employed within CATs and their time and costs distributed between those investee companies requiring those skills part time. Further, specialised equipments can be made available from a central research unit operated by CATs.

Thus, the bringing together of like minded people with a common over-arching view point can achieve the commercialisation of these needed innovations and have them deployed within remote and emerging communities in a highly efficient manner.

Remote Area Technologies delivered by Centre for Advanced Technologies

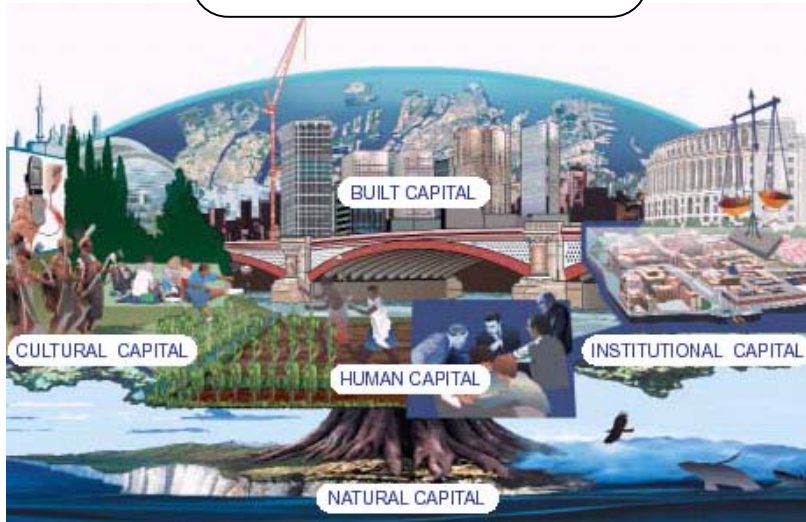


EQUINOX

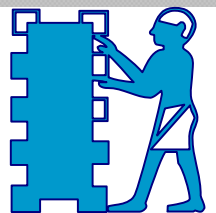


EQUINOX EQUITIES – E²
 agenda
 managed and supported by
**Centre for Advanced
 Technologies – CATs**

**INNOVATION &
 TECHNOLOGY
 DEVELOPMENT**



**REMOTE AREA
 TECHNOLOGIES
 RATs**



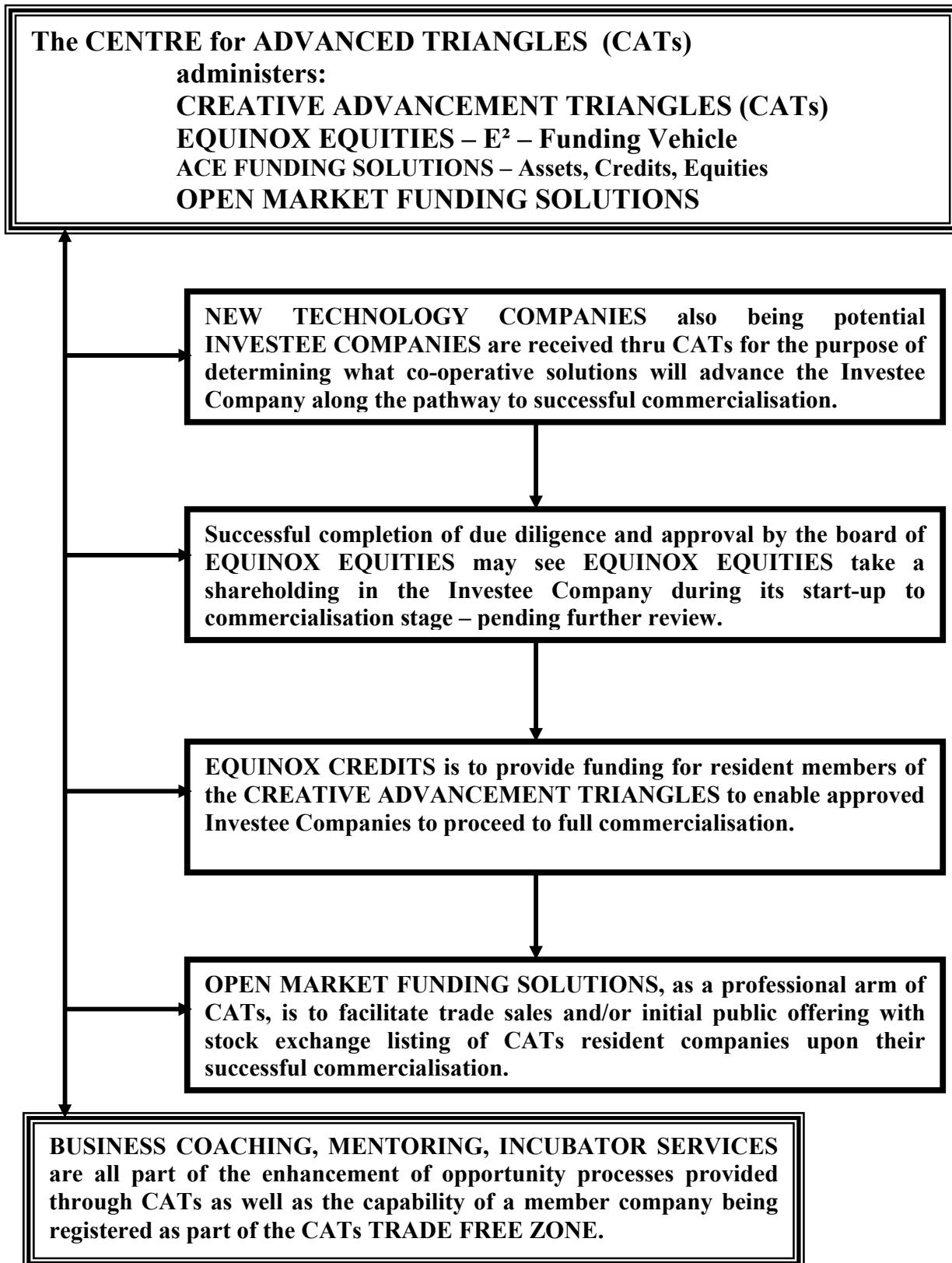
**CENTRE for ADVANCED TECHNOLOGIES
 CATs
 PROTECTS the MONEY BOXES
 SUPPORTS BUSINESS PLAN DELIVERY**



**URBAN RURAL TECHNOPATH
 URTh
 PROJECT MANAGER of EQUINOX
 NATION BUILDING PROGRAMS**

**EQUINOX FOUNDATION
 EF
 HUMANITARIAN**

**EQUINOX GLOBAL
 EG
 NATION BUILDING**



EQUINOX EQUITIES Pty Ltd:

Equinox Equities (E²) is the start-up and commercialisation funding arm for the Creative Advancement TriangleS, which is administered through the Centre for Advanced Technologies Pty Ltd (CATs). Equinox Equities partners benefit from:

- ☑ As an ESVCLP (Early Stage Venture Capital Limited Partnership), the entity will have flow-through tax treatment, i.e. the ESVCLP will not be taxed at the partnership level. In addition, income distribution and capital gains earned as a result of investment in an ESVCLP will be exempt from tax in Australia in the hands of both domestic and foreign partners.
- ☑ Equinox Equities has the support of Local, State and Federal Governments. Government Agencies at all levels of participation in growing new technologies within Australia support the endeavours of CATs and Equinox Equities.
- ☑ Equinox Equities researched and vetted investee companies come with the endorsement of the experienced executives of Equinox Equities and the Centre for Advanced Technologies.
- ☑ Equinox Equities through CATs can develop alliances with high technology parks, such as those in North Carolina, Switzerland, Ireland and throughout the world. The opportunities and skills that this brings to Equinox Equities are unprecedented.
- ☑ Equinox Equities' network and management is global. With associations with key personnel in all the important organisations and institutions within the nation and a world wide relationship network, the management is able to bring the strongest opportunities to the table.
- ☑ The CATs secretariat database will schedule all assets, which can be accessed to grow the opportunities of emerging technologies and technologically based enterprises, within Australia. This data will assist investee companies to deliver their business plan.
- ☑ Investee companies will all participate in the holistic business coaching, mentoring and management programs facilitated by the Centre for Advanced Technologies Pty Ltd.
- ☑ Equinox Equities stringent review and selection process will result in only those enterprises that demonstrate strong management skills and high technological advantages, both of which can be enhanced from the overall CATs program, being selected for investment.
- ☑ The Centre for Advanced Technologies Pty Ltd, through its administration, will assist in structuring subsequent rounds of funding and the ultimate exit programs for Equinox Equities investments in investee companies.
- ☑ The ultimate benefit to a shareholder in Equinox Equities is the capital gains being realised upon the trade sale of investee companies and / or the listing of investee companies on an appropriate exchange with the full benefit of the support through delivery by CATs.
- ☑ Redemption of shares will be facilitated with due notice and based on a pre-advised periodic valuation formula. Such formula being represented within the price setting structure for future share issues.
- ☑ Equinox Equities initial share capital raising is planned to be AUD 20 million, however, the program is to grow the share capital in line with the quality of opportunities recommended by the Board of Equinox Equities.

CENTRE for ADVANCED TECHNOLOGIES Pty Ltd:



**Directors: Peter N Shepherd B.E.(Hons)
John E Doel ACA**

The CATs organisation is for the purpose of facilitating:

- ✓ **Delivery of the Creative Advancement Triangles (CATs)**
- ✓ **Early Stage Venture Capital Limited Partnership, namely Equinox Equities (Aust) LP**
- ✓ **Investment and funding arm, namely Equinox Equities Pty Ltd**

The Centre for Advanced Technologies Pty Ltd (CATs) will provide the administration structure to implement the:

1. **Creative Advancement Triangles centred around the infrastructure existing on the Gold Coast, Queensland, Australia, and then encompassing opportunities with alliances with like minded institutions and organisations throughout Australia and New Zealand.**
2. **Invite and facilitate the entry into a CATs location by participants within the Research Triangle Parks within other countries.**
3. **Invite and facilitate the entry into a CATs location by participants in research and development programs and projects from anywhere in the world.**
4. **Negotiate and facilitate the registration of CATs research designated parks as Industry Trade Free Zones thus alleviating imposts such as import duties.**
5. **CATs is a global networking enterprise. An enterprise established to bring together innovative multi-skilled managers, academics and investors to assist Australia and New Zealand to grow their R&D, manufacturing bases and service sector markets. CATs is unique as each centre will enable manufacturing capabilities to serve initial markets and negotiated licence requirements. Part of such licence will contain ongoing R&D undertakings.**
6. **These initiatives are supported by participating CATs corporations being registered as members of the CATs Economic Trade Free Zone.**
7. **CATs Global Networking Database is an information tool to bring together innovative multi-skilled managers, academics, innovation, industry and investors seeking to further their opportunities.**
8. **CATs industry Test Bed is a tool to facilitate R & D demonstration, acceptance, approval, the integration of product and technology.**
9. **CATs negotiate and facilitate the floating of General Obligation Bonds, which may have tax free interest bearing coupons. The purpose of such bonds is to grow and commercialise innovations being facilitated through a CATs research participant.**
10. **To administer and grow the fund for the purpose of providing seed capital and start-up funding for sunrise projects within the parks.**
11. **To facilitate the long term funding and investment into emerging enterprises being mentored through a CATs park.**
12. **To facilitate direct investment and exit strategies through Equinox Equities Pty Ltd.**

This is a holistic program to grow global innovations.



EQUINOX EQUITIES Pty Ltd:



EXECUTIVE SUMMARY

Equinox Equities will source its funds principally from share subscriptions. Equinox Equities will then take up shares in investee companies that are in their start-up and/or their early commercialisation or expansion phase. Such investee companies will possess unique technologies and have demonstrated that they have an “unfair commercial advantage” by way of their controlled unique innovations.

CONSUMER MONOPOLY:

Equinox Equities unique position is its relationship with the Centre for Advanced Technologies Pty Ltd (CATs) which administers the Creative Advancement Triangles. CATs provides a holistic platform to grow the opportunity for investee companies and also the facilitation of exit opportunities by Equinox Equities from investee companies to realise upon capital gains.

CATs provides for Equinox Equities (E²):



- An Australian wide network of access to emerging technologies and innovative companies.
- Technical support through affiliated Universities with who CATs has a working relationship.
- Capital assets in the form of extremely sophisticated testing and processing equipment and laboratories that assist in scientific and technological innovation delivery which are generally closed to the commercial community.
- Industry Test Bed facilitation for proving up on a global basis to strengthen the marketability of our innovative corporation’s products being Equinox Equities investee companies.
- A full business coaching, mentoring and incubation program which investee companies of Equinox Equities (E²) are required to participate in and achieve accreditation as having completed stipulated programs.
- A network of specialists in all fields to enable consultation when required so as to advance the investee company’s program.
- Global network through all of the world’s major research parks to benefit from progress being made in all areas of interest to our investee companies.
- Import / export facilitation with the benefit for each investee company being able to register as a member of a CATs Trade Free Zone.
- Access to funding through General Obligation Bonds being marketed to source funds for the commercialisation stages of approved investee companies.
- Access to funding through the global network of investors and funders that CATs executives have introduced for the benefit of the CATs Community.
- The professional skills and structured delivery of the pathway to Initial Public Offering and subsequent listing on a stock exchange by an investee company.

Equinox Equities, in association with CATs, is unique in its recognition of the full ambit of needs and delivery of same to grow an investee company’s capital value to its fullest potential.

THE PRODUCT:

Equinox Equities will acquire equity of not less than ten per cent (10%), typically 40% to 60%, of selected companies that have satisfied the due diligence process as stipulated by the Executive of Equinox Equities. Investee companies must have:

1. Sound financially mature management team.
2. Own products that hold unfair market advantages.
3. Verified ownership of the technology / innovation and demonstrated the product and / or theory.
4. Demonstrate that they own and control unique intellectual property that is ready for commercialisation
5. Prove that their product does what they say it can.
6. Prove that they can sell the products in the volumes and at the prices they say they can.
7. Prove that they can produce the products at the cost they say they can.
8. Agree to participate in the mentoring programs provided through CATs.
9. Have a capable management team that ensures the delivery of the investee company's business plan.
10. Work towards the exit strategy for Equinox Equities to realise upon their investment.

No investee company will be a property developer nor a retailer. Nor will any one investee company receive as an investment from Equinox Equities more than 30% of Equinox Equities paid up capital.

MARKETS & COMPETITION:

Investee companies will be selected from the full ambit of opportunities presented to Equinox Equities by its own executive, through the CATs network, and by general referral. Equinox Equities Executive will appoint an expert from within its team to lead the investigation and due diligence of a potential investee company.

It is general knowledge that there is a raft of would be investee companies in the market place, however, few will even submit adequate documentation to even begin the assessment process. Through CATs, our opportunities for bringing forward innovations to commercial success is greatly enhanced.

Equinox Equities has access to Australia and New Zealand's most innovative minds and leading edge technologies in all fields of enterprise as well as University Research Units to support them.

Technology typically under review include:

- I. Proven water purification technology that produces potable water very economically.
- II. Power generation units utilising renewable energies.
- III. Fertiliser technology that has been proven to lift crop yields by fifty per cent.
- IV. Microwave technology that delivers controlled heat and has spawned 35 new industries.
- V. Communication systems enabling universal coverage at significant cost reductions.
- VI. Aerospace technologies providing global communication and surveillance.
- VII. Lighting technology producing white light for whole of life operation.
- VIII. Etc. & the list goes on.

All of these and more have exponential returns on funds invested possibilities. With the support of the collective networks and expertise in management, opportunities for Equinox Equities to invest within are unquestionably the highest that can be found within Australia and New Zealand.

EXECUTIVE:

Equinox Equities executive is in reality an extension of the executive teams of its key shareholders, responding to their guidelines. Such shareholders are typically major corporations and financial institutions. The key management team has worked successfully together in the past and they bring their combined focused skills to deliver this program.

FINANCIAL REQUIREMENTS:

Funding requirements are for the commercialisation of some 400 separate innovations, most of which are suitable for deployment in remote areas and emerging third world countries. Subsequent share issues will be re-priced to reflect the underlying value of the company, such further issues will be driven by the volume, quality and timing of funding requirements of approved investee companies.

PROFITABILITY:

Profits are assured by the spread of quality investments to be undertaken by Equinox Equities. Equinox Equities will take a short to medium position with approved investee companies, terms being 3 to 5 years, with the objective to exit the investee upon the investee reaching a stabilised point in its pathway to commercial security. The threshold at which a potential investee company will obtain the attention of Equinox Equities is based on a potential internal rate of return in excess of fifty per cent (50%) per annum. The expectation is that some outcomes will fall short of this mark whereas some investee companies will realise their full potential and generate returns far in excess of the benchmark. In view of the identified opportunities outlined above, it is anticipated that shareholders of Equinox Equities will enjoy the fruits of Australian and New Zealand innovation.

Redemption of shares is possible, such redemption will be priced in a similar way as the assessment of value being placed on subsequent share issues occurring after this initial private placement.

Founding Directors:	Peter N Shepherd	B.E.(Hons)
	John E Doel	ACA

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REMOTE AREA TECHNOLOGIES:

AGENDA:

To enable remote area citizens to have access to services and facilities that are available within cities.

ELECTRIC POWER:

Scale and scalable power plants:-

- a. Power Air Dynamics (PADL) – Zinc Air Fuel Cells
- b. Craxway Energy Systems – Hydrogen generation
Hydrogen generated from water via electrolysis.

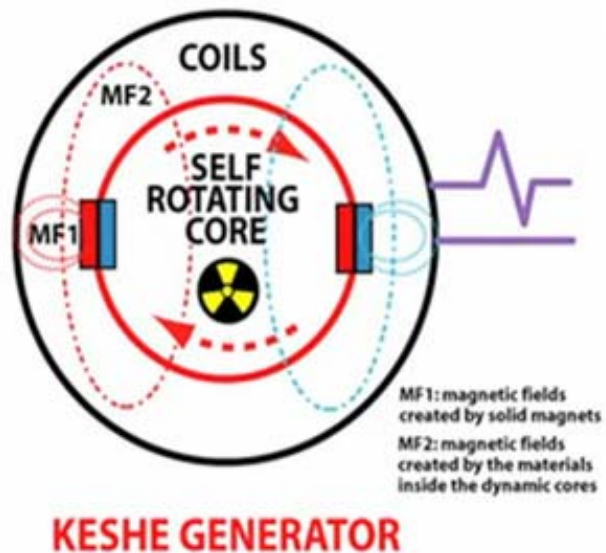
Hydrogen generated can be used to fuel highly efficient combustion engines such as:

Fuel Efficiency

Celtech Biaxial Displacement Turbine	65%~
GEM twin cylinder 500cc 150 hp	65%~

All engines are designed to be fuelled with hydrogen as a low cost source of energy.

- c. Constant Energy Output (CEO) – Magnetic Power
Stand alone renewable energy source.



Energy: With this technology it is possible to produce batteries and plasma power generators of up to 10 Kilowatts that need no fuel and thus provide clean and cheap energy.

SUMMARY:

A renewable energy source being efficiently employed for independence and reliable power can be configured to suit any application, be it static or mobile.

POTABLE WATER:

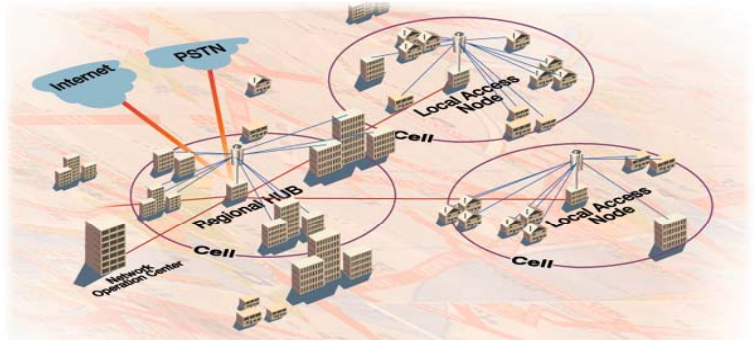
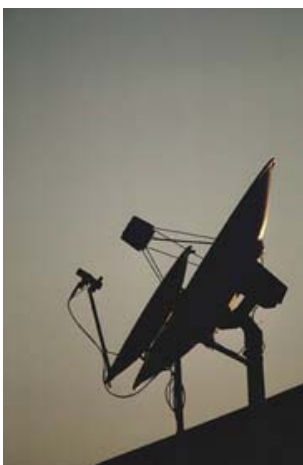
Pristine water can be delivered at USD 1 cent per litre. Water delivery costs will be reduced with the application of the above energy systems.

SUMMARY:

Water of any quality can be converted to the cleanest of desirable drinking, washing and cooking water.

COMMUNICATIONS – LOCAL AREA:**ConXTel Broadband Wireless for the FAST LAST MILE to the Internet**

- Voice, Data and Video Connections.
- Instant-on Secure RF Encryption.
- Roaming up to 90 km/h.
- Wide area coverage from a single cell.
- Scalable network architecture.

**Broadband Satellite for the Fast Backbone to the Internet**

- 98% Global Coverage via Satellite
- Robust and Reliable Satellite Link
- Fixed Bandwidth Costs
- Burstable Bandwidth Allocations
- Streaming Media
- Single-Hop to Point of Presence
- 99.9% Reliability and Redundancy
- Fast deployment in remote regions



- **Scalable Internet services**
- **Secure encryption protocols**

Conxtel uses Thin Client technology for providing Fast Processing to the Internet.

- Field Computers
- Cordless E-Phones
- **Public Kiosks**
- Digital Set-Top Portals
- Utility Monitors
- Point of Service

The market for FAST, SECURE and LOW COST internet services covers the complete spectrum of government, business and personal requirements.

The range of features as outlined in the Conxtel portfolio can be tailored to be attractive to all segments of life and business activity.

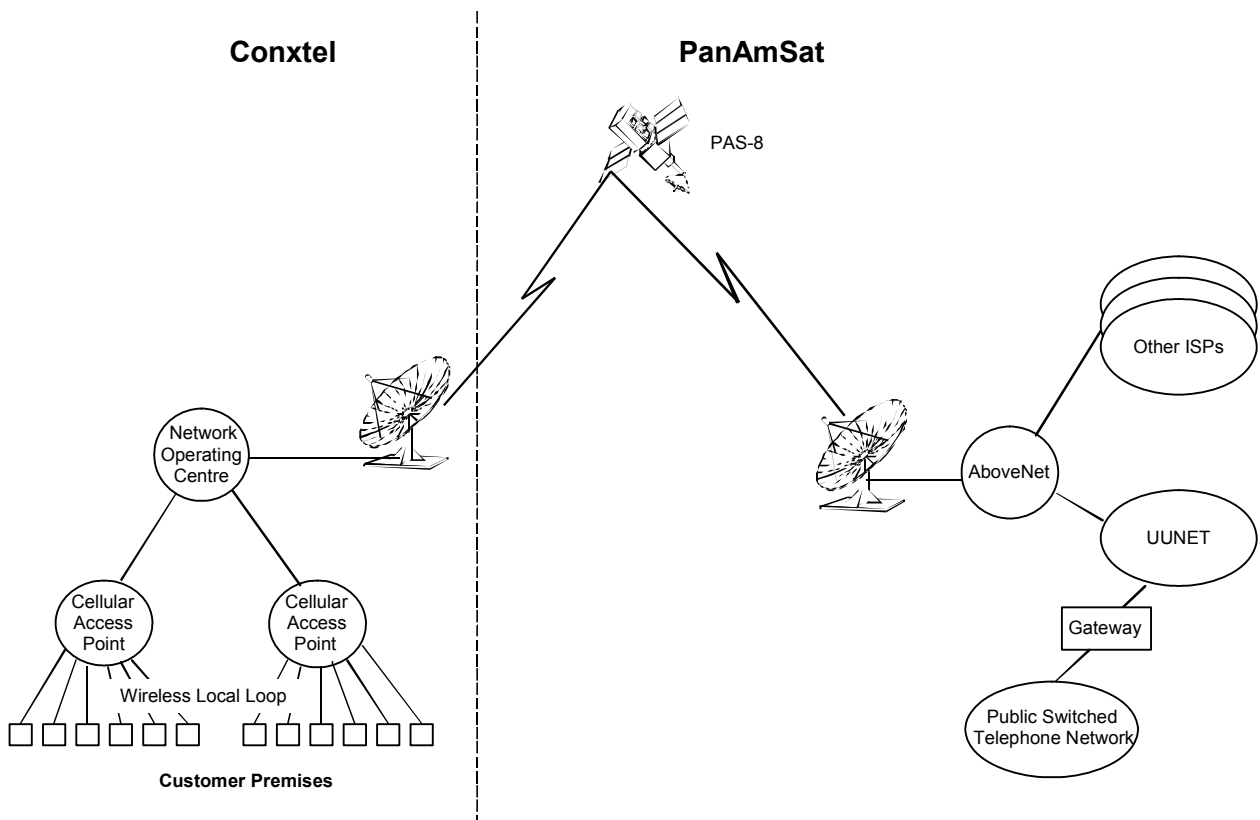
REMOTE AREA COMMUNICATIONS PROJECT SUMMARY

This Project will integrate a series of data / voice radios into a wireless Inter-network anywhere. It will become part of the Conxtel Wireless Network for Commerce and Education in the remote region.

The ultimate purpose of the Project is to assist government, commercial and educational institutions to reach the Internet. The wireless links are to provide the 'last mile' of data connectivity at broadband bandwidth rates, between users and the Conxtel satellite ground station.

Conxtel Communications Pty. Ltd. will procure sets of advanced data/voice radios configured to government approved frequencies if required, as well as necessary peripheral equipment. It will retain a local contractor to maintain the equipment operating at remote sites around region, to the Conxtel Teleport in the city. Conxtel technical staff will travel for two weeks, will configure the satellite ground station, and, with the support of local technical staff, install two towers within the coverage area. A number of existing towers may be utilized if required. Conxtel will provide data / voice radios to a number of institutions including:- National University, National Library, National Hospital and the Legislative Assembly.

A number of local staff of will be trained by Conxtel to install customer equipment and maintain customer service levels for the local wireless network.



The Conxtel system is dramatically cheaper and, just as importantly, maintenance and on-going service is relatively inexpensive and can be performed rapidly with minimum or, in the majority of cases, nil-disruption to the tenant service.

The Conxtel service can be utilized by these wired buildings to provide High-speed, Secure voice and data communications while at the same time reducing costs.

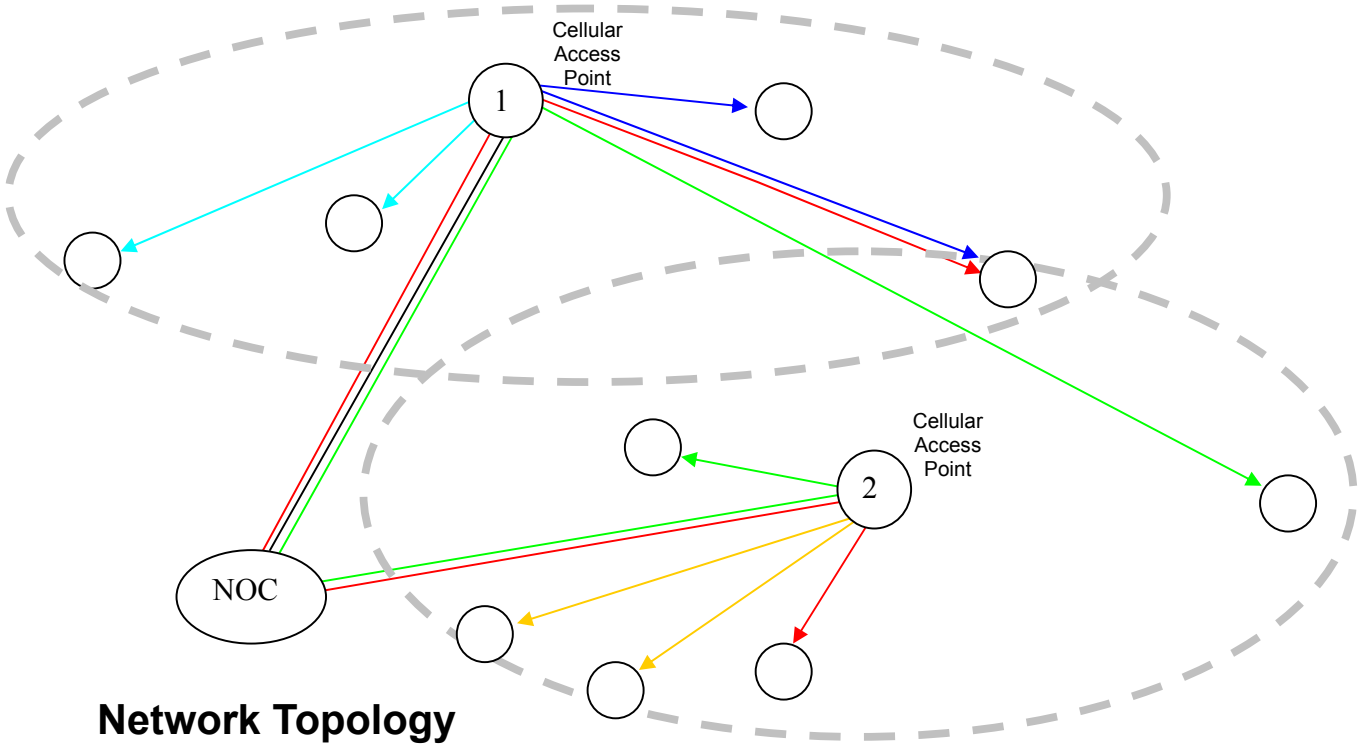
Additionally the cost of retrofitting older buildings with unshielded twisted pair (UTP) ethernet wiring, to provide current expected levels of computer and communication services, is very expensive. The Conxtel system can be placed in any building at a fraction of the cost of UTP or fiber-optic.

Once the basic system is installed, such as the rooftop antenna, the tenant can purchase the equipment specific to his needs which remains his property and is totally portable.

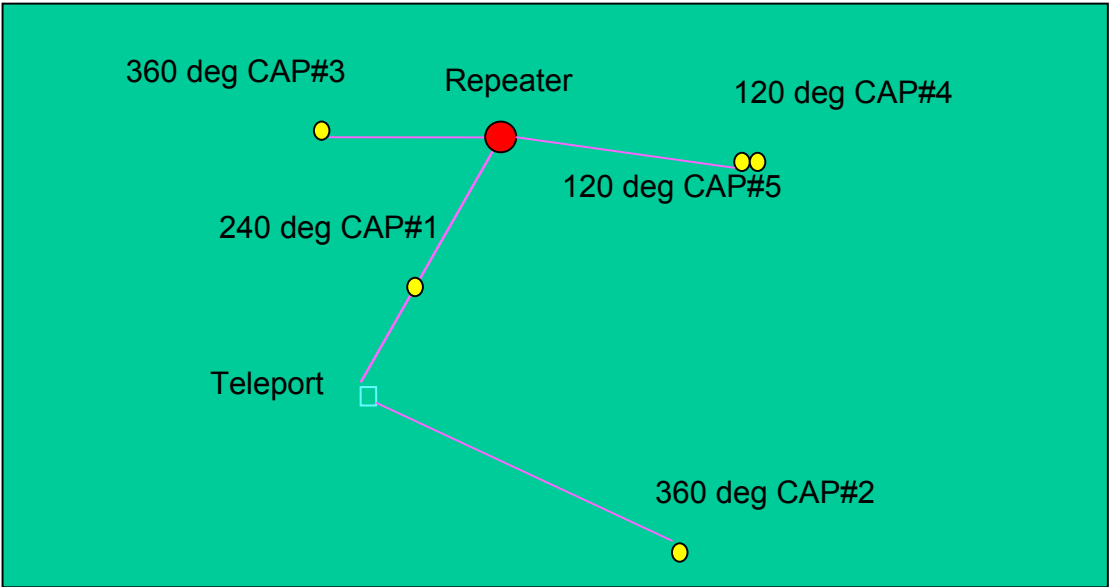


ConXtel PROPOSED NETWORK

**WIRELESS DIAGRAM AREA USD600,000 Pod:
CAPACITY to service 1,000 subscribers, a population greater than 5,000.**



Network Topology



Conxtel's system will greatly enhance the performance and reduce the costs of service in the following major operational areas:

- **All internal computer and communication systems.**
- **External Control Systems – i.e. remote control of Sewerage & Water pumps, City garden watering and other community services.**
- **Meter reading.**
- **Communications with construction & building sites.**
- **Mobile voice & data communications with council staff.**
- **Security & surveillance systems.**
- **Library & public communication areas.**
- **Training of staff.**
- **Research.**
- **Downloading of complex and large data & image files including plan drawings.**
- **Video Conferencing.**

Market segments where Conxtel has significant application:

Legal

- Virtual Private Network
- E-mail
- Research – Internet
- Court to Office, Client's to Office, Home to Office (Voice & Data)
- Video Conferencing
- File Storage

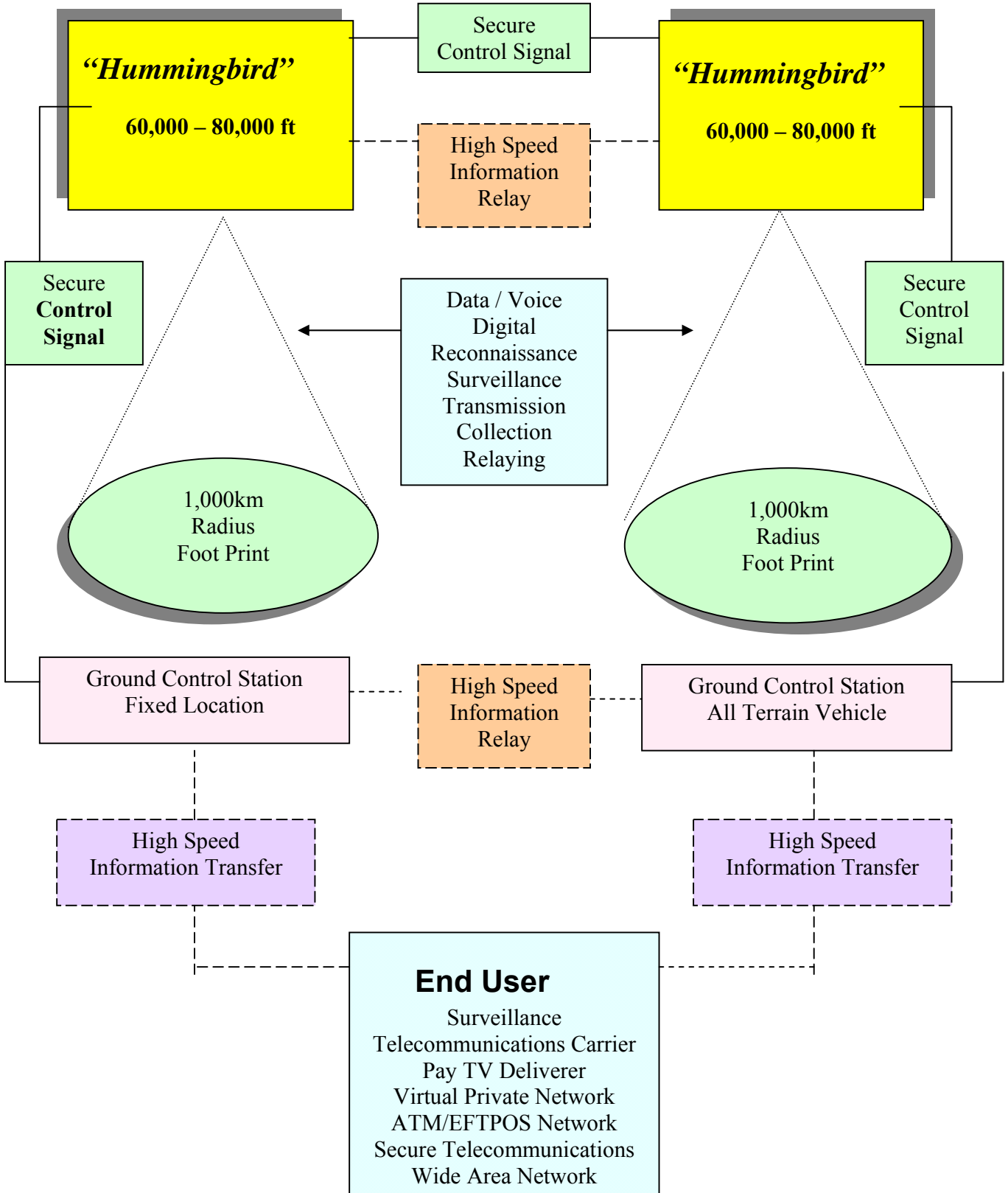
Accounting

- Intranet
- E-mail
- Internet on-line filings to ATO, ASIC etc.
- Communication (Voice & Data)
- Video Conferencing – Training, Business, Clients
- File Storage

Medical

- In-hospital patient data transmission & retrieval by doctor & ward staff
- Doctor surgery to hospital/medical centre image/data/voice transmission i.e. Scans
- Remote Patient monitoring i.e. ECG/Blood oxygen level/Blood pressure direct to doctor
- Video conferencing to remote field medical units
- Training i.e. Operations in real-time.

COMMUNICATIONS – NATIONAL COVERAGE – CHAP:



COMMUNICATION HIGH ALTITUDE PLATFORM – CHAP

Total coverage of regions as big as USA and Central Africa can be achieved for a capital cost of USD50 million. CHAP enables local area networks from ConXtel to be more efficiently and economically delivered.

HOUSING:

Light weight, high strength, thermal panels enables enhanced housing standards at lower costs to be delivered in remote areas, together with independent electric supply and clean water.

AGRICULTURE & FOOD:

Application of techno-organic fertilizer and associated products lift crop yields by 50% with extended shelf life. Processing and packaging systems enhance yields and quality.

HEALTH:

CHAP & ConXtel enable electronic medical booths to be strategically positioned to enable specialist medical services to be available in remote areas.

With the communications comes the BANTIX products for:

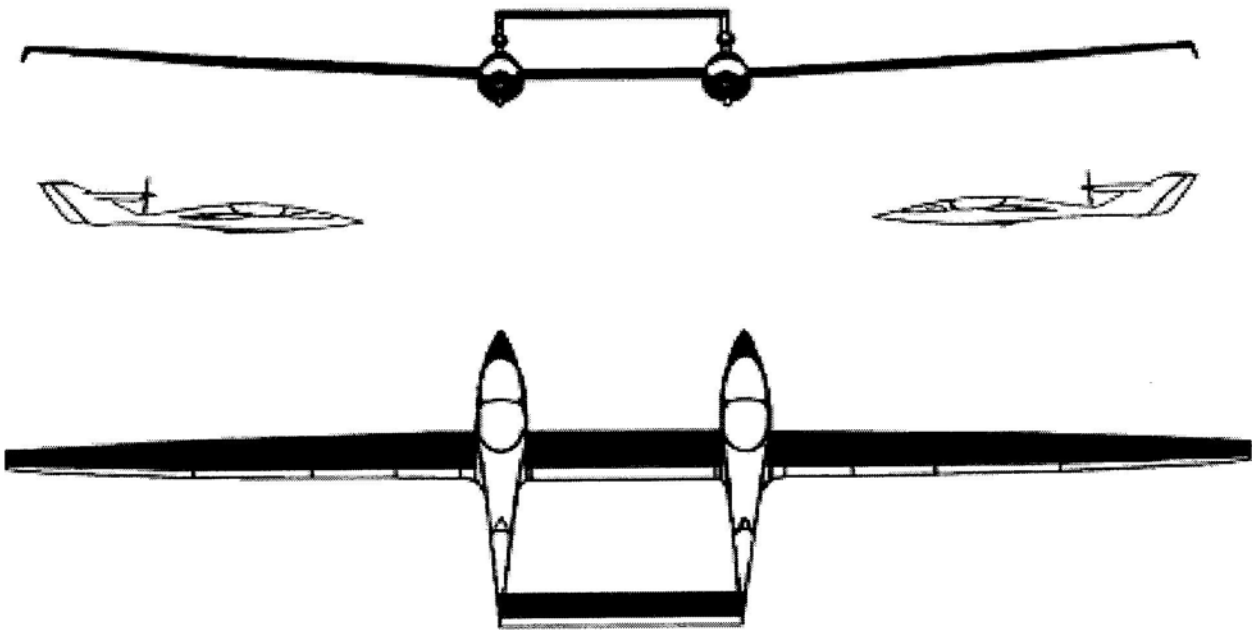
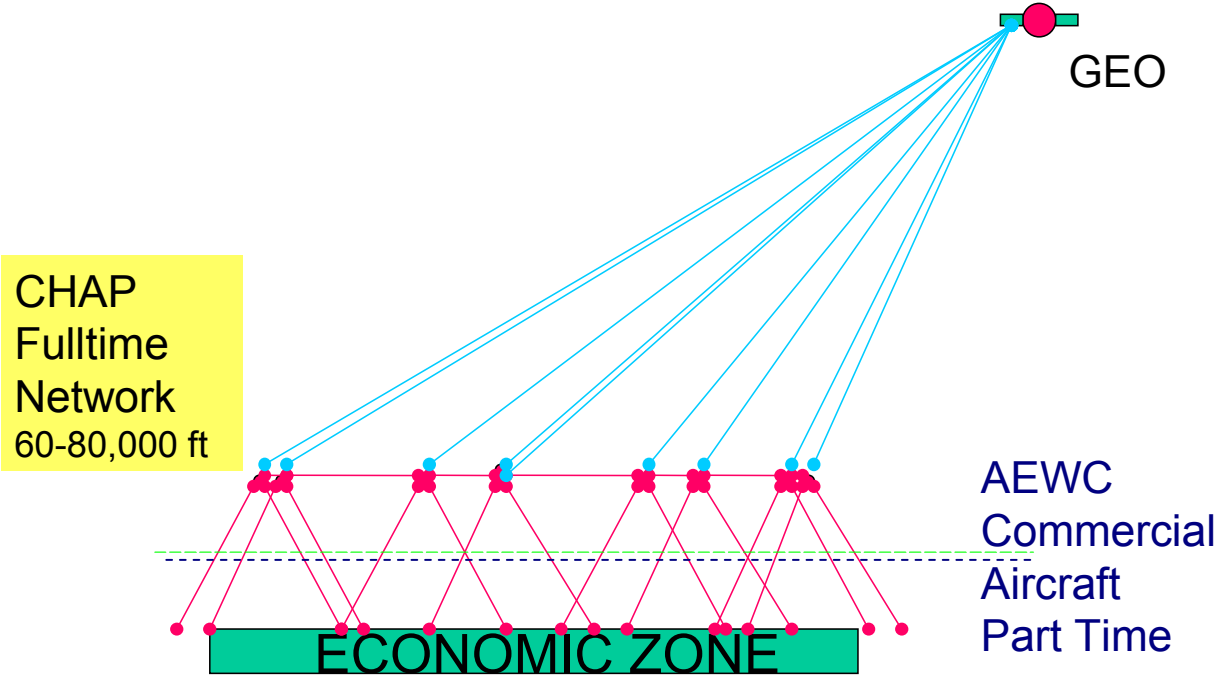
- a. Control of mosquitoes – Mosquito trap,
- b. Portable refrigeration for produce preservation – based on CO₂ gas,
- c. Refrigeration without electricity – employing hand pumped CO₂ systems.

EDUCATION:

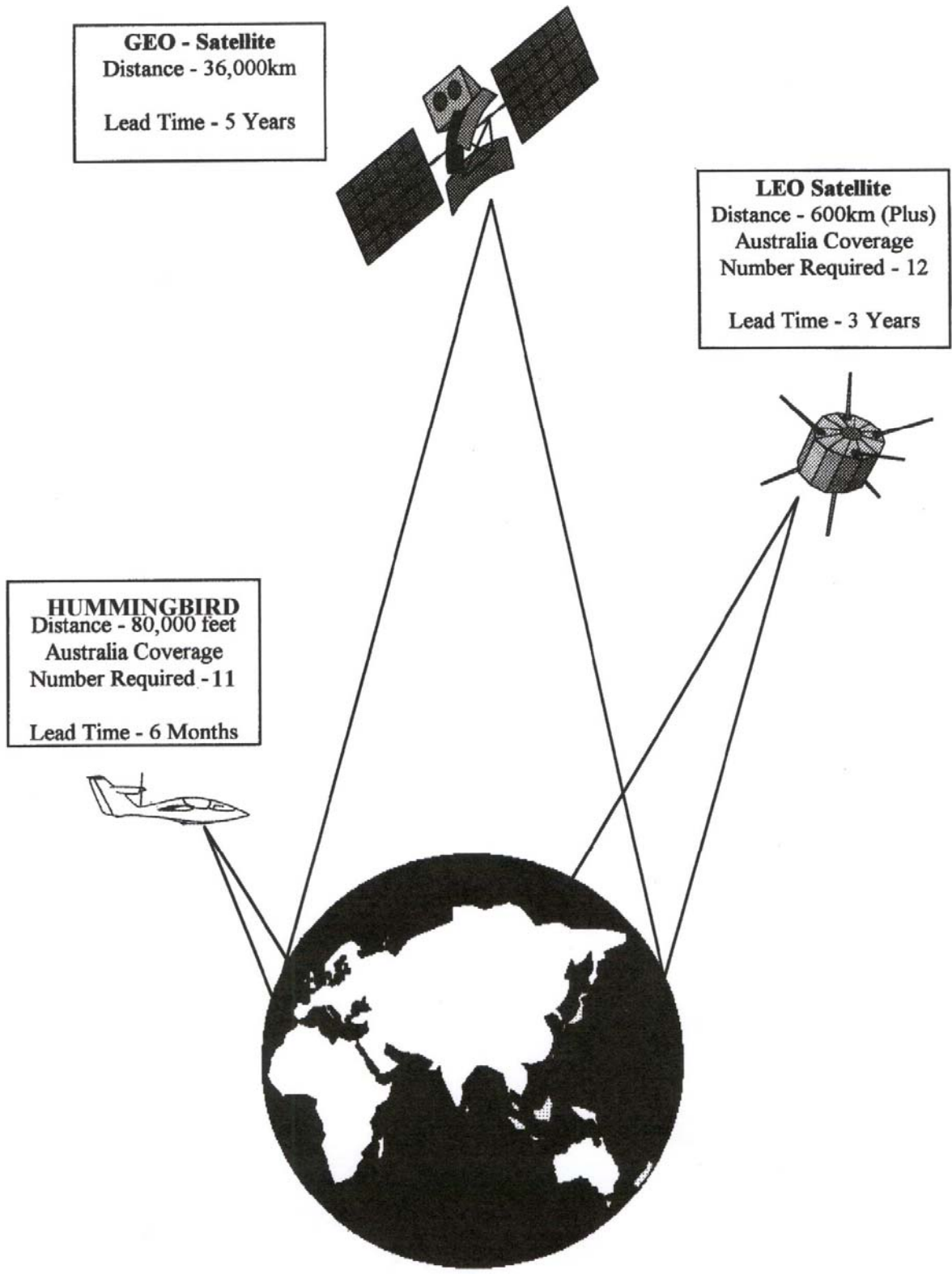
Remote area education can be delivered live via communications systems through CHAP and ConXtel.

It is recognised that educating girls is the fastest way of lifting the living standards of emerging countries.

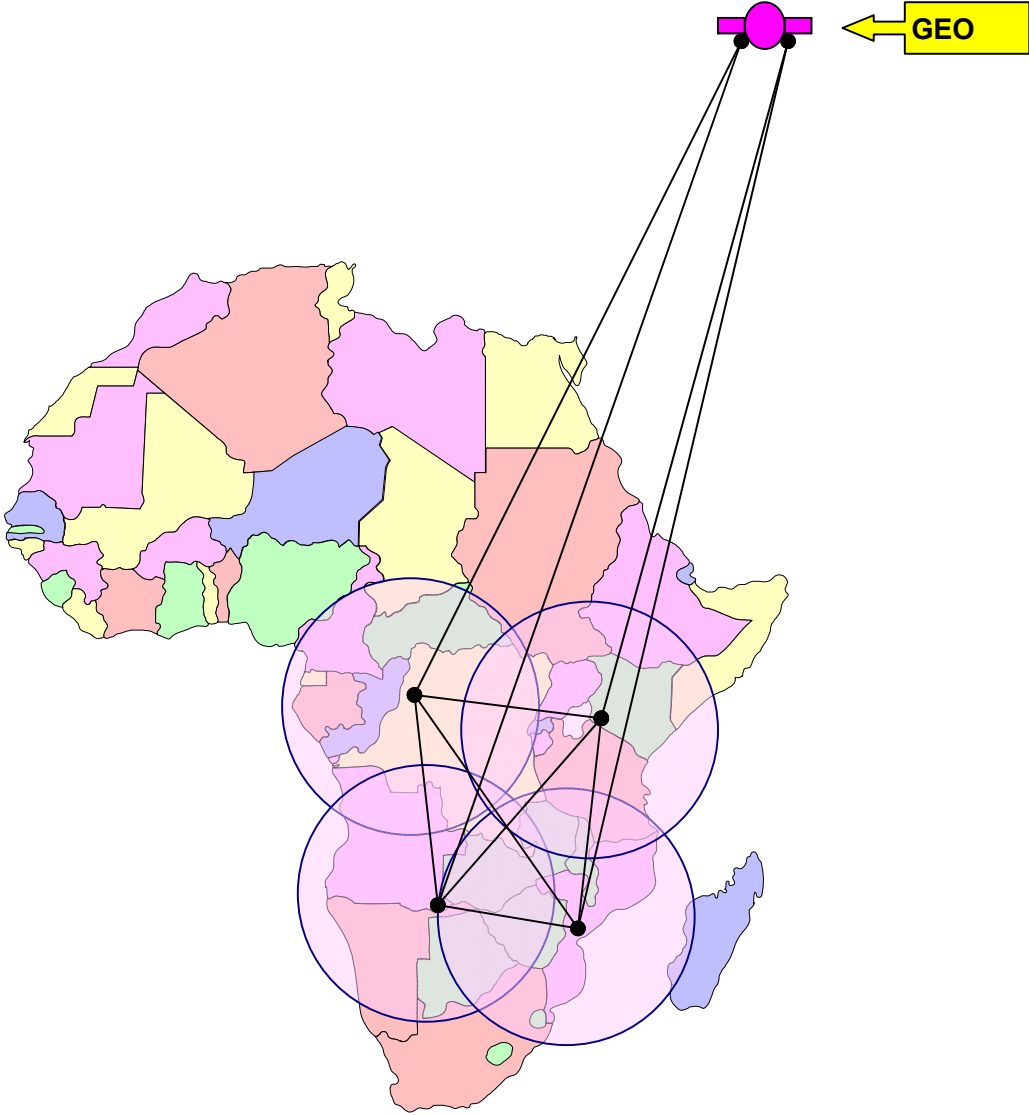
CHAP VERTICAL NETWORK:



Hummingbird relationship to LEO / GEO



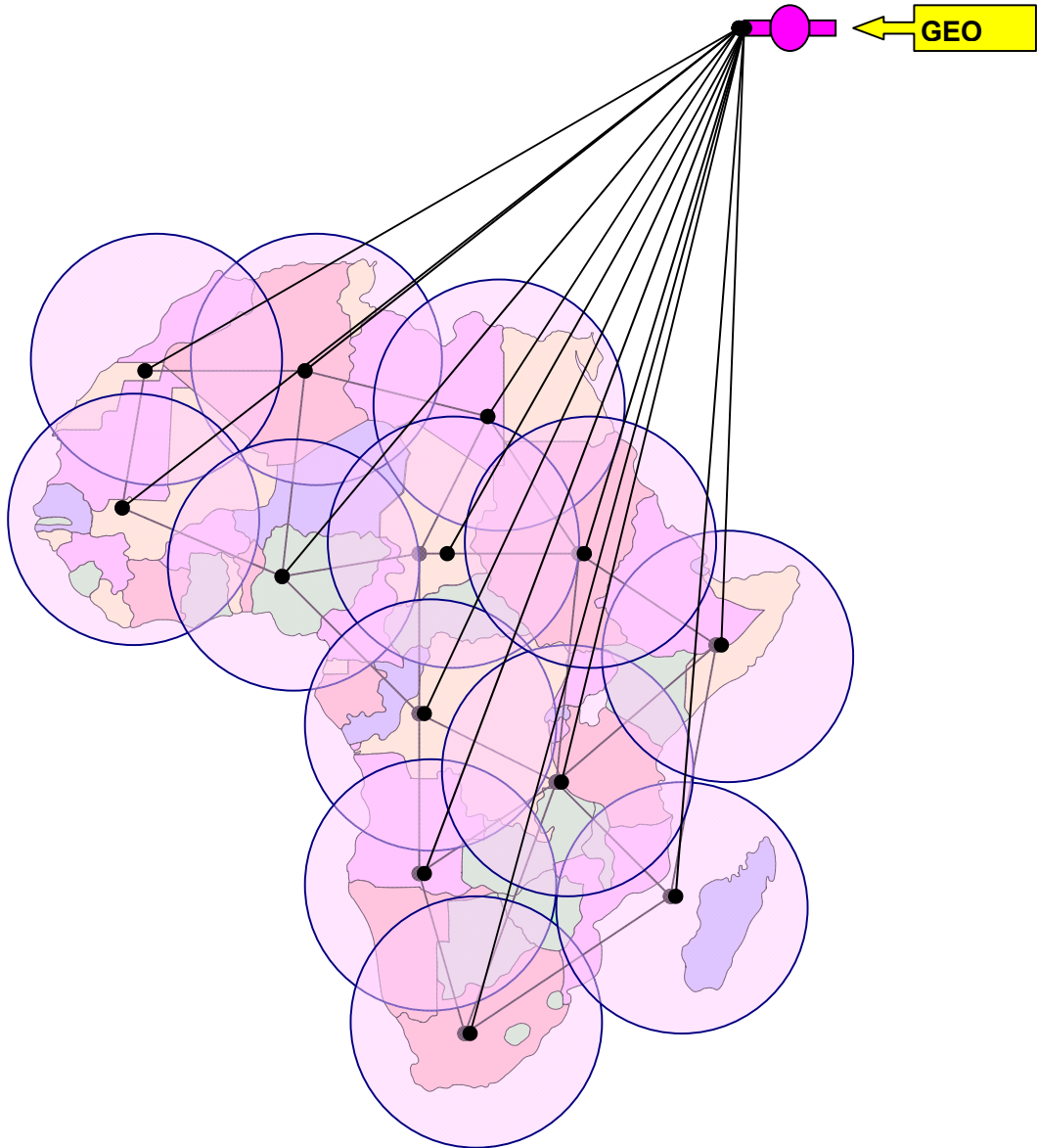
CENTRAL AFRICA



CHAP AirTech Network coverage of Central Africa requires FIVE (5) “*Hummingbird*” UAV Platforms this figure includes ONE (1) Spare “*Hummingbird*” UAV Platform.

Each “*Hummingbird*” UAV Platform has a 1,000km Radius Footprint.

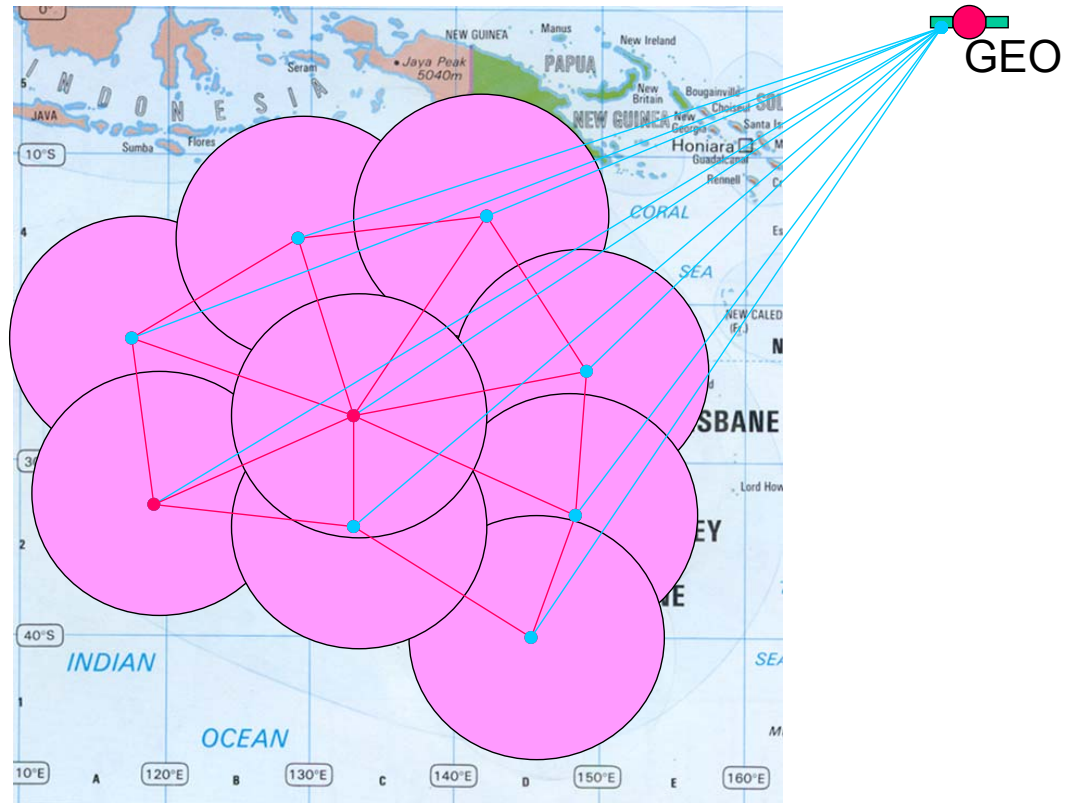
AFRICAN CONTINENT



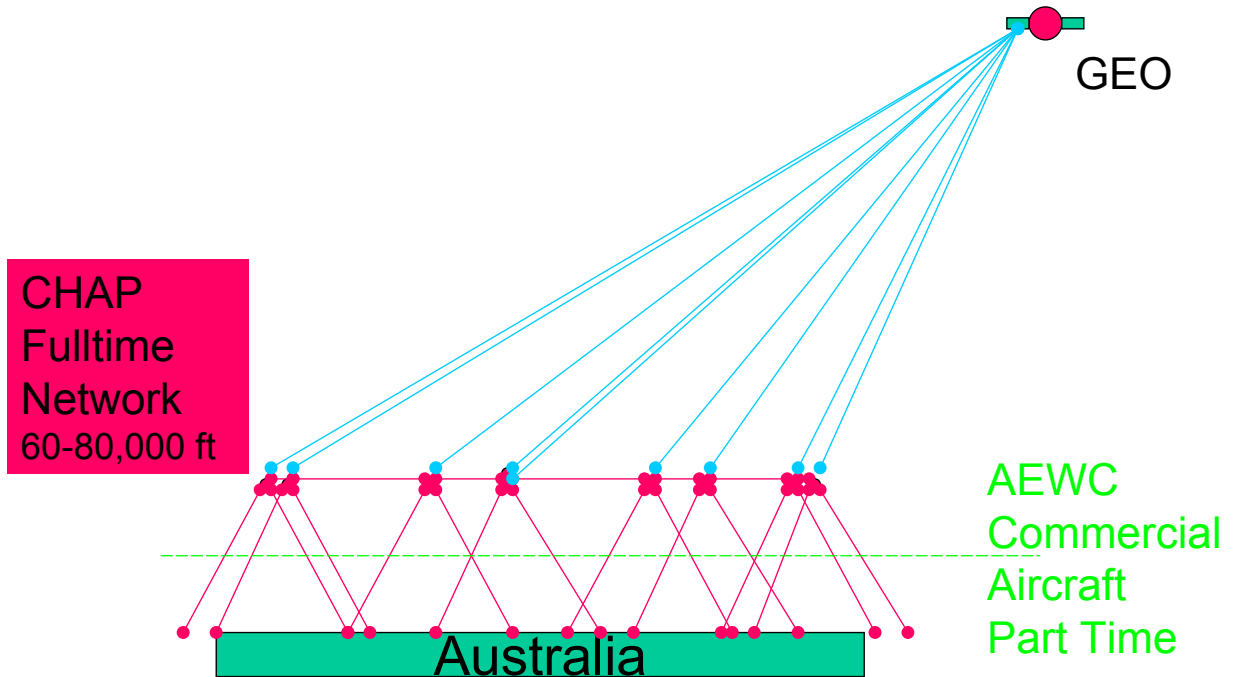
CHAP AirTech Network coverage of South Africa requires SIXTEEN (16) “*Hummingbird*” UAV Platforms this figure includes THREE (3) Spare “*Hummingbird*” UAV Platforms.

Each “*Hummingbird*” UAV Platform has a 1,000km Radius Footprint.

CHAP NETWORK COVERAGE OF AUSTRALIA



CHAP VERTICAL NETWORK:



The 'clean' spy in the sky: Boeing unveils hydrogen-powered surveillance drone which can stay airborne for days.

6 June 2012

A new Boeing unmanned drone that is designed to stay airborne for days has completed its first autonomous flight at Edwards Air Force Base. The drone is powered by liquid-hydrogen.

The company says it can go up to four days in the air without refueling, and flies at an altitude of 65,000 feet.

'The hydrogen propulsion system will be the key to Phantom Eye's success. It is very efficient and offers great fuel economy, and its only byproduct is water, so it's also a 'green' aircraft.'

Phantom Eye is powered by two 2.3-litre, four-cylinder engines that provide 150 horsepower each. It has a 150-foot wingspan, will cruise at approximately 150 knots and can carry up to a 450-pound (204 kilograms) payload.



INVESTEE COMPANY CHARACTERISTICS:

Investee Company's Business Plan and Financial Feasibility must:

1. PROVE THAT THE PRODUCT DOES WHAT YOU SAY IT CAN DO.
2. PROVE THAT YOU CAN SELL THE PRODUCT AT THE PRICE YOU SAY YOU CAN.
3. PROVE THAT YOU CAN PRODUCE THE PRODUCT AT THE COST YOU SAY YOU CAN.

This is the crux of every study. With that in place then you can:

4. PROVE THAT YOU CAN PAY THE INTEREST ON YOUR LOAN FUNDS AND PAY THE PRINCIPAL BACK.

No investments will be considered for property development companies nor retail companies.

Equinox Equities Pty Ltd is solidly focused on supporting enterprises who have developed new technologies and innovations and have reached the prototype stage and are seeking to have their opportunity commercialised. Equinox Equities Pty Ltd, should they elect to invest in such an opportunity, may take an equity position of not less than 10% (to carry anti-dilution rights and milestone undertakings).

Equinox Equities Pty Ltd will support enterprises fitting into any of the core MAGNET groupings of the Creative Advancement Triangles, namely:

- I. Building Systems
- II. Efficient Energy Generators
- III. Environment
- IV. IT & Communications
- V. Aerospace
- VI. Biomedical and Biotechnical

Other magnet groupings may be added, such as Sports Medicine, Mining and Minerals, etc.

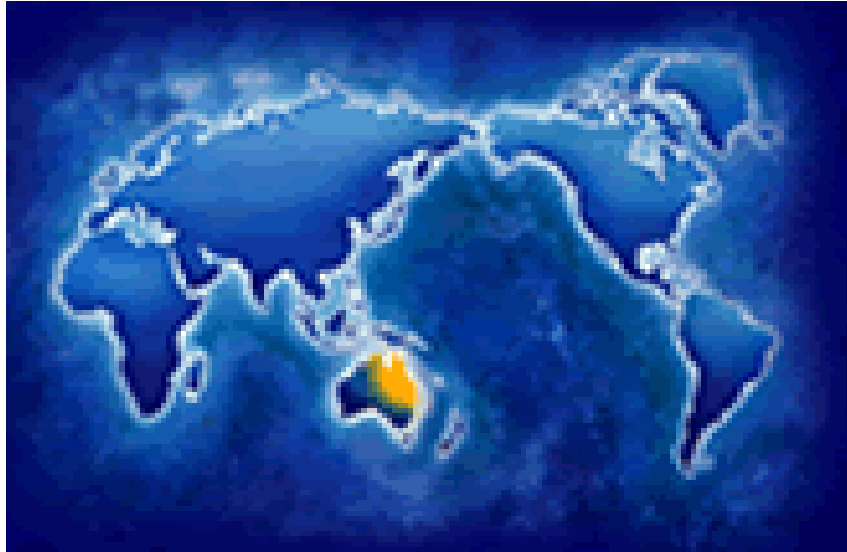
This enables the Investee Company to benefit from:

- A. Incubator facilities, including business coaching, to be delivered through CATs.
- B. Long term project funding through General Obligation Bonds being managed by CATs.
- C. Project funding to be facilitated through the CATs Executive network of financial institutions. There will be occasions when Equinox Equities Pty Ltd will provide the key working capital required for a project innovation to continue its progress whilst long term funding is being negotiated.
- D. The overall mentoring and support structures available through the CATs Administration.

Thus it is expected that an Investee Company will have developed technology that is considered to have very strong potential for successful innovation. Such Investee would also need to demonstrate the capability to integrate within the CATs community.

Equinox Equities will provide the mechanisms by which additional and long term funding will be provided to the Investee Company to ensure it's fulfilment of its objectives. Accordingly, typically investments of around AUD300 K are envisaged, however, this threshold is subject to ensuring the viability of the investee company. Non-performance by the executives of the investee company will result in Equinox Equities exercising its right for changes due to missed milestones.

REGIONAL FOCUS and INVESTEE COMPANY SOURCING:



Technology innovations to be supported by Equinox Equities Pty Ltd is to have the potential for:

1. Betterment of mankind.
2. Creating an Australian based industry for the global market.
3. Bring enhanced products and greater knowledge to the community.
4. Are not property or retail orientated.

Though the focus is on opportunities to be located within the primary Creative Enhancement Triangles of South East Queensland, projects of excellence will be supported anywhere within Australia.

Projects will be sourced through the existing networks of each of the Directors, through the network of Finance Facilities (Dosh) Pty Ltd as demonstrated on their website, www.financefacilities.com, and through the referral networks of existing clients.

Investee Companies must agree to:

- a. Anti-dilution of equity for shares acquired by Equinox Equities.
- b. Milestones to be met or become subject to a review of management.
- c. Funds being invested by Equinox Equities to be applied in accordance with an agreed budget.

Equinox Equities (E²) objective is to mentor sunrise industries.

INTRODUCTION – why do we need CATs?

Creative Advancement TriangleS are extensions of the proven research parks lead by the initiatives of the **Raleigh Research Triangle** and participating **Research Triangle Parks** in North Carolina, USA.



CATs is being driven by the need, within Australia, to:

1. Create facilities for crowded research parks elsewhere in the world to expand their operations.
2. Deliver quality of lifestyle working environments for highly self motivated innovators and entrepreneurial people and firms.
3. Provide the infrastructure for networking a free flow of information transfer by way of providing a directory of who is undertaking what research work and who can provide input to enhance the progress of other researchers.
4. Provide the communication network to enable the efficient collaboration between innovators and entrepreneurial enterprises.
5. Provide the access for investment funds to grow the commercialisation of innovations being founded within the research triangles or in-conjunction with research triangle participants.
6. Take advantage of the prestigious position that Australia now enjoys within the world community at the start of the new Millennium which was firmly founded on the excellence of the delivery of the Olympic Games in Sydney during that year.
7. Facilitate the support to advance the initiatives of the many researchers and scientists around Australia who have clearly developed technologies that can be commercialised within Australia whereas they are being lost overseas or in the bottom of some dusty filing cabinet.
8. CATs brings together the best intellectual resources of academia, industry and governments to stimulate discovery and deliver outcomes through laboratories and prototype factories, etc.
9. Foster and develop the transferring and commercialisation of technologies within the private sector to create jobs and increase the competitiveness of participating companies.
10. Provide the efficient delivery and administration of these objectives on a permanent basis.

“CATs, being a research triangle park, is an important world crossroads for basic research, academic pursuit, invigorating collaboration and commercial application.” – Dr Martin Rodbell, Nobel Laureate, National Institute of Environmental Health Sciences.

If you are interested in becoming a part of the most dynamic research community in the world, a meeting of the minds is in order.

CENTRE for ADVANCED TECHNOLOGIES

CATs – Mentoring Australian Sunrise Innovations
 Queensland Australia Em info@financefacilities.com



JOHANNESBURG WORLD SUMMIT 2002 UBUNTU VILLAGE 17 Aug – 7 Sep 2002

The World Earth Summit was focused on sustainable development of the planet.

The Ubuntu Village was a global collection of innovative technologies compatible with the agenda of the summit. Ten hours of review of the hundreds of displays did not reveal any technologies that superseded or matched innovations supported by CATs and E².

What was apparent:

1. The large number of government agencies seeking solutions for the delivery of education not only for children but also for adults.
2. Government agencies were seeking solutions to enhance food production particularly for shanty town communities.
3. Major focus is on the creation of employment (paid work) with the introduction of innovative technologies. Though targeted wages have no minimum, it is the start that is important.
4. Lower cost, all terrain, communication for the delivery from a central administration for education programs is essential to rapidly expand coverage and for empowerment.
5. The goodwill between all races, creed and colour was over whelming.
6. The mosaic of technologies that has come together as a CATs family encompassed ways forward for most of the solutions being sought by the Summit's agenda.
7. CATs is to consider a united distribution of the collage of technologies to the participants at the Ubuntu Village (names and contact details are on file).
8. Refocusing the capabilities of the collective technologies leads the agenda clearly into humanitarian programs.

We have made contact with a number of participants at Ubuntu Village as well as members of the public, be they government agencies or NGOs (non government organisations).

Our observations are that the skills and will are there within the communities to constructively employ and apply our technologies. It is not for us to drive the application and installation but to clearly make available what are the performance capabilities of each technology.

We need to demonstrate and explain what can be achieved with the technology. The people on location will apply the technologies in ways that we cannot imagine, however, they will do so to achieve the maximum results for the communities they are working with.



Centre for Advanced Technologies

Directors: **John E Doel** **ACA**
 Peter N Shepherd **B.E.(Hons)**

The CATs organisation is for the purpose of facilitating:

- | | |
|---------------------------------------|--|
| ✓ Delivery of the | Creative Advancement Triangles (CATs) |
| ✓ Asset provision – land & buildings, | namely Equinox Assets Pty Ltd |
| ✓ Credit provision – term loans, | namely Equinox Credits Pty Ltd |
| ✓ Equity – Pooled Development Fund, | namely Equinox Equities Pty Ltd |

The Centre for Advanced Technologies Pty Ltd (CATs) will provide the administration structure to implement the:

1. **Creative Advancement Triangles centred around the infrastructure existing on the Gold Coast and Brisbane, and then encompassing opportunities with alliances with like minded institutions and organisations throughout Australia and New Zealand.**
2. **Invite and facilitate the entry into a CATs location by participants within the Research Triangle Parks within North Carolina, USA.**
3. **Invite and facilitate the entry into a CATs location by participants in research and development programs and projects from anywhere in the world.**
4. **Negotiate and facilitate the registration of CATs research designated parks as Industry Trade Free Zones thus alleviating imposts such as import duties.**
5. **CATs is a global networking enterprise. An enterprise established to bring together innovative multi-skilled managers, academics and investors to assist Australia and New Zealand to grow their R&D, manufacturing bases and service sector markets. CATs is unique as each centre will enable manufacturing capabilities to serve initial markets and negotiated licence requirements. Part of such licence will contain ongoing R&D undertakings.**
6. **These initiatives are supported by participating CATs corporations being registered as members of the CATs Economic Trade Free Zone.**
7. **CATs Global Networking Database is an information tool to bring together innovative multi-skilled managers, academics, innovation, industry and investors seeking to further their opportunities.**
8. **CATs industry Test Bed is a tool to facilitate R & D demonstration, acceptance, approval, the integration of product and technology.**
9. **To administer and grow the pooled development fund for the purpose of providing seed capital and start-up funding for sunrise projects within the parks.**
10. **To facilitate the long term funding and investment into emerging enterprises being mentored through a CATs park.**
11. **To facilitate direct investment and exit strategies through Equinox Equities Pty Ltd.**

This is a holistic program to grow innovations.

WHAT IS A RESEARCH TRIANGLE:

Researchers and Innovators are very independent strong willed people. The Triangle is there to assist them with the convenience of a compact delivery mechanism for the enhancement and speed of growth of their particular initiative.

The primary triangle is the one in which they are resident within or focused on. This primary triangle is one of physical access and convenience. Within the triangle there needs to be concerted focus on the range of skills and physical assets to advance the opportunity in question.

The secondary triangle is the expansion of the co-operative arrangement to other locations or triangles with vested interests to develop technology and commercialise innovations in a co-operative manner.

The **Centre for Advanced TechnologIeS** is an Australian initiative established by its **Secretariat**.

The Secretariat of CATs is headed by the Executive Team of CATs.

It is the purpose of the Secretariat to facilitate the delivery of all the objective outlined within the Introduction. There are paths well travelled by those bearing ideas and those transforming ideas to products and services in the marketplace. The crossroads where ideas and the market place meet is at CATs.

The **Creative Advancement TriangleS** is firstly a triangle between Bond University, Gold Coast, Griffith Universities, Gold Coast and Brisbane Campuses, and University of Queensland, Brisbane, with the areas participating campuses incorporating the Queensland University of Technology.

The second triangle or first expansion extends down to Southern Cross University at Lismore, University of Southern Queensland at Toowoomba, Gatton University, and Sunshine Coast University College at Maroochydore on the Sunshine Coast.

The greater Triangle extends from Brisbane down to Sydney then Melbourne and across to Adelaide and back to Brisbane.

The national triangle then encompasses the whole of Australia and New Zealand.

The first international triangle is the relationship between CATs and RRT being the Raleigh Research Triangle in North Carolina, USA, also known as Research Triangle Park, North Carolina.

An entrepreneurial community when it emerges builds on the strengths of the universities and on the talent of managers and scientist within the research park's large firms.

CATs is inviting ALL of the large firms in the North Carolina Research Triangle Park as well as canvassing known contacts and relationships to position themselves within the Creative Advancement Triangles focused on South East Queensland and centred on the Gold Coast.

INCUBATORS as a PRIMARY MISSION of CATs:

Statistics show that entrepreneurs can succeed anywhere, provided they have access to the essential resources needed for development and growth – information, technology and capital.

Programs, training, laboratories and assistance offered through the business incubators will accelerate small business success and optimise job creation – building a solid economic foundation.

Small businesses are the creative core of technological innovation. It has been estimated that small businesses generate over 80% of the new jobs. The importance of small businesses to local economies warrants efforts to support their development, as well as, their continued success and prosperity.

The small business incubator concept evolved in the 1980's. The 1990's have substantiated the consensus that small business incubators are a "best value" in economic development in rural and urban areas. This growth is attributed to the fact that incubators seek to maximise the potential of the entrepreneurial talent within a community by providing entrepreneurs with services and support that complement their natural talents and enable them to expand their potential. Incubators are changing communities for the better. They are building confidence by providing support, accelerating entrepreneurship, launching new, viable business enterprises, generating and retaining jobs, diversifying local economies, expanding the tax base, creating a market for products and professional services and creating a network for change.

Business incubators bring together the best business and intellectual resources available to assist new-to-early stage businesses. The role of the business incubator is multi-faceted and responds to the needs of the resident community. Incubators offer the solution to combating the two primary causes of business failure: lack of management skills and financial strain. The healthy business climate engendered by a small business incubator significantly impacts the growth and success of tenant companies. Typically, business incubators provide office or laboratory space, shared services, access to equipment and flexible leases – all under one roof. In addition to the above CATs will have manufacturing and training capabilities.

In some instances, incubators are established without walls. These virtual incubators do not normally house tenants, but serve non-resident tenants, providing access to the same services and advantages as those offered in traditional incubators, except for the office space. The principal behind such a facility is that small business success is not so much a function of the need for a facility, but the need for advice, training, and networking opportunities. A hallmark of CATs.

The common goal of business incubators is to produce successful graduates – businesses that are financially viable and self-sufficient. The small businesses being incubated today are at the forefront of developing new, innovative technologies, creating jobs and services that continually improve the quality of lives.

All efforts of the business incubator program are geared to helping small businesses reach their full potential by utilising two basic elements: a good business plan and skilful implementation.

Centres are designed to accommodate both manufacturing and light assembly companies, as well as businesses offering professional or administrative services.

TYPICAL INCUBATOR SERVICES

The support and assistance provided by a small business incubator strengthens and moulds companies so they have a much greater chance of survival in the commercial environment. In addition to enhancing the management skills of new and emerging small businesses, the incubator provides a means to overcome some of the young company's major cost hurdles by providing access to numerous centralised services which might otherwise be unattainable or too costly on an individual basis. Below is a partial list of some of the services, which are accessible through CATs:

Office space	Laboratory / factory	Wet laboratory space
Conference rooms	Office furnishings	Internet access
Secretarial services	Telephone answering service	Fax machine
Photocopier	Receptionist	Audio-visual equipment
Mailing and packaging	Business consultation	Business plan development
Entrepreneurial networking	Access to capital and financing	On-site training
Loading dock	Warehouse space	Janitorial services
Flexible lease terms	Marching / Fabrication	Manufacturing
R & D funding	Rapid prototyping	Modelling
Licensing / marketing / training facilities		

INCUBATOR FACTS

- ✓ Incubator companies experience very healthy growth.
- ✓ About 38% of the entrepreneurial companies housed in incubators are minority and women-owned.
- ✓ Incubator tenants remain in an incubator for an average of 2.6 years.
- ✓ On average, a company enters an incubator with 2 employees, graduates with 6, and then goes on to employ 14.
- ✓ Approximately 41% of the incubator graduates are in the manufacturing business.
- ✓ Eighty eight percent of business incubator graduates stay within a 50 kilometre (30 mile) radius of the incubator.
- ✓ Upon graduating from a business incubator, most companies have increased significantly in size.
- ✓ Companies graduating from business incubators experience high survival rates.
- ✓ Incubators graduate's average annual sales are around AUD2 Million (USD1.1 Million).

CATs MISSION

The mission of CATs' Incubator is:

- To foster the development and growth of small emerging businesses,
- To maximise the competitive position of industries within the region,
- To create job opportunities in entrepreneurial ventures,
- To foster development and growth within CATs through higher skill and higher wage employment,
- To be the link that introduces management and funds to innovative ideas and products to achieve commercial success,

- To be the catalyst for change,
- To be a mentor to its Graduates.

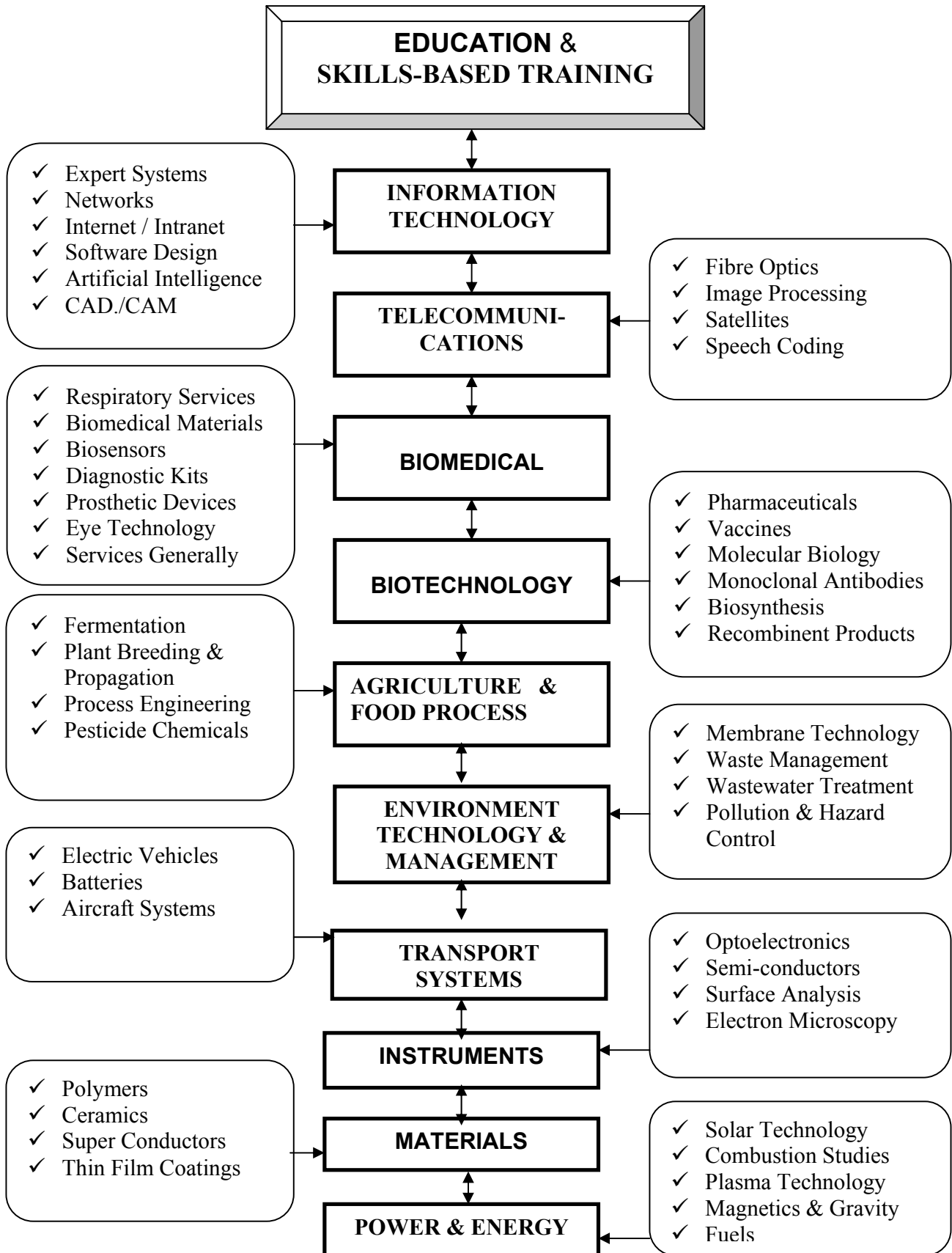
Incubators are a flow-on initiative backed by the infrastructure of the large firm research projects.

Before leasing space to a business, CATs will conduct a stringent review of each potential tenant or client. A detailed business plan outlining the company's product / service, market feasibility, management philosophy and financial growth potential is to be reviewed. Tenant selection criteria incorporates the type of business venture, comprehensive business plan, future growth potential, outline of current business structure, personnel, product, market and opportunity.

Funding facilities may be considered in the range that supports the envisaged success. Financing, usually in the form of equity, is provided to companies with high-growth, job-creation potential. Funds are normally staged into the business, based upon company needs and performance milestones. The CATS referred funders prefer to co-invest with other venture firms.



TECHNOLOGY PARK STRUCTURE





CATs is FOCUSED:

Research and commercialisation projects immediately being introduced to the Creative Advancement TriangleS from within Australian incorporate:

1. Power generation units utilising hydrogen.
2. Power generation units utilising traditional resources.
3. Power generation units utilising gravity and magnetism.
4. Lighting systems producing 140 lumens per watt versus the normal 60 lumens per watt.
5. This lighting technology extends to about 20 further innovations.
6. Water purification technologies capable of taking any water and converting same to potable qualities with very low costs.
7. Smart building designs and systems to significantly reduce power consumption.
8. Related power and engine technologies incorporated within the above.
9. Microwave technologies for the delivery of controlled heat, which has given rise to more than 35 sub-technologies and businesses.
10. Microwave processing of fresh-cut fruits and vegetables to extend shelf life by two weeks.
11. Microwave / heat pump technologies that great enhance output and quality of food products.
12. Microwave treatment of sewerage output to convert waste to fertilisers.
13. Protein technologies that have proven to lift crop yields typically by fifty per cent.
14. Protein fertiliser technologies that lift the natural sugar content of crops and extends fruit and vegetable shelf life by typically two weeks.
15. High altitude communication platforms that enable the delivery of broadband communications universally without cables or communication towers.
16. Innovations in engine design and systems for sustained flight.
17. Innovations in communications without requiring communication towers.
18. Secure communications.
19. The list goes on.

CATs is currently bringing infrastructure together within Australia to enable the efficient and practical introduction of firms and corporations from over the world to participate in the program.

An initiative in progress is the designation of a CATs park as an Industry Trade Free Zone. This enables imports of overseas technology and component for blending with Australian innovations and technology for re-export without incurring any import duties.

Each core MAGNET will have its own 'authority' and will be supported by funding in the form of General Obligation Bonds with their own sinking fund and trust indenture bonds. The objective structure for the bonds are terms of 10 years (6.00%pa), 20 years (5.75%pa) and 30 years (5.50%pa) with interest being tax-exempt. Such bonds to be marketed / underwritten by merchant banks with USA and Australian bases such as Salomon Smith Barney, Merrill Lynch, Prudential Securities, Refco, Brown Bros Harriman, JP Morgan and Macquarie Bank.

The MAGNET groupings are:

- I. Building Systems
- II. Efficient Energy Generators

- III. Environment
- IV. IT & Communications
- V. Aerospace
- VI. Biomedical and Bio technical

“We are the CATalyst.”





The CATs ADVANTAGE:

LIFESTYLE

The climate prevailing in South East Queensland is underpinned by an ambient temperature that is defined to be the optimum climate for human beings to reside in.

The ambient temperature at 3.00pm each day falls between 19° C and 27° C ninety nine percent of all the days of the year. The most liveable temperature to be found anywhere in the world.

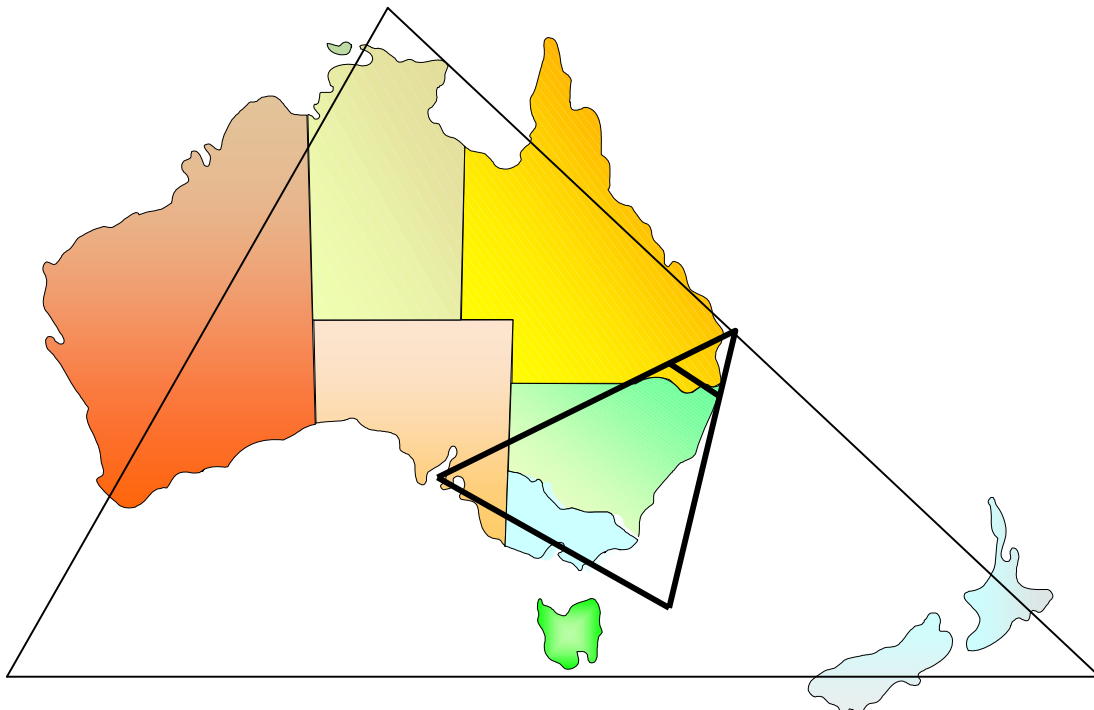
This underpinned by the glorious golden beaches, sub-tropical hinterland, a modern new city and the freedom and casual lifestyle of Australia, we are one of the most attractive destinations in the world bar none. Hawaii, Miami and South California are alternatives.

The Logo above depicts the lifestyle of the region. Against a sub-tropical hinterland as a backdrop, the Gold Coast is home to many lakes, 360 kilometres (225 miles) of man made canals, five rivers, hundreds of kilometres of protected estuaries and broadwaters, and forty kilometres of golden beaches.

The Primary Research Triangle is focused on the Universities of Brisbane and the Gold Coast. It is clear to all who reside in major cities that the Gold Coast is in fact the coastal suburb of Brisbane as is the Sunshine Coast. The greater city of Brisbane will encapsulate the Sunshine Coast and Gold Coast as the compliment the Lifestyle of the Region being South East Queensland.

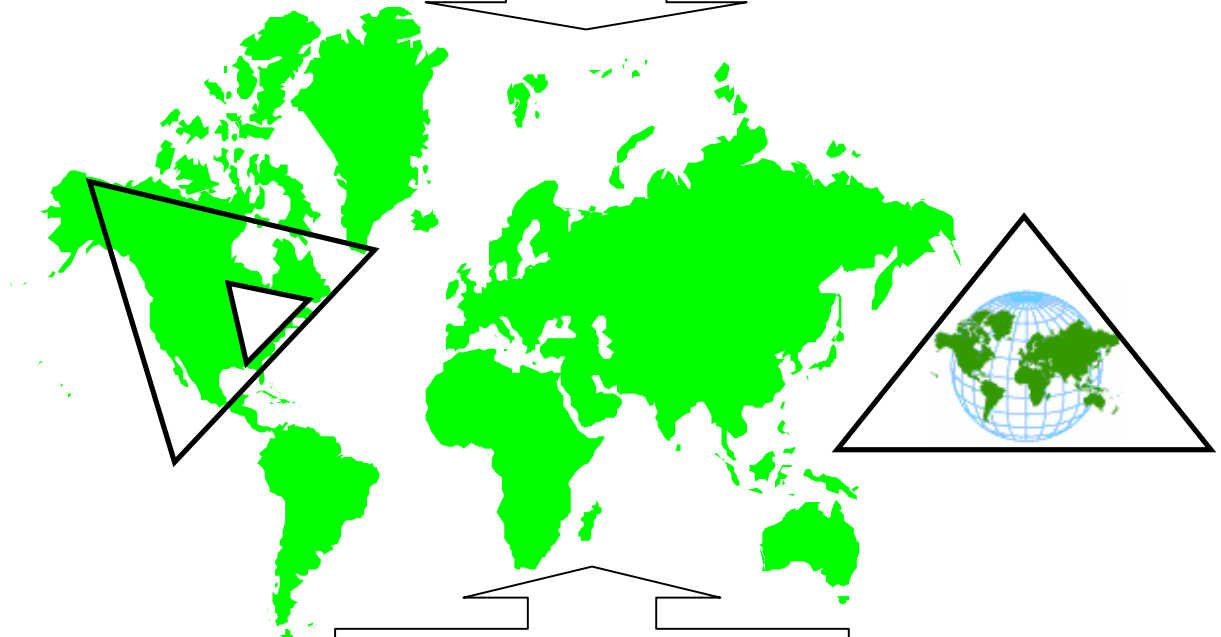
Brisbane has been named as Australia's most liveable city, which is focal point of the South East Queensland Triangle and its population of 2.5 million.

Even the triangles point you to the greatest lifestyle on Earth!!!



FUNDERS who support NEW TECHNOLOGIES

Supporting the commercialisation of new technologies conducive to a sustainable world



Research co-operative triangles reach out and encompass the world!

Creative Advancement Triangles

Technologies sourced lead the world in:

- **Communications**
- **Renewable Energy**
- **Complimentary Medicine**
- **Agriculture**
- **Food – Organic**
- **Housing / Building**
- **Environmental**
- **Resources**

MORE THAN 400 SUSTAINABLE ENVIRONMENTAL SOLUTIONS

Centre for Advanced Technologies

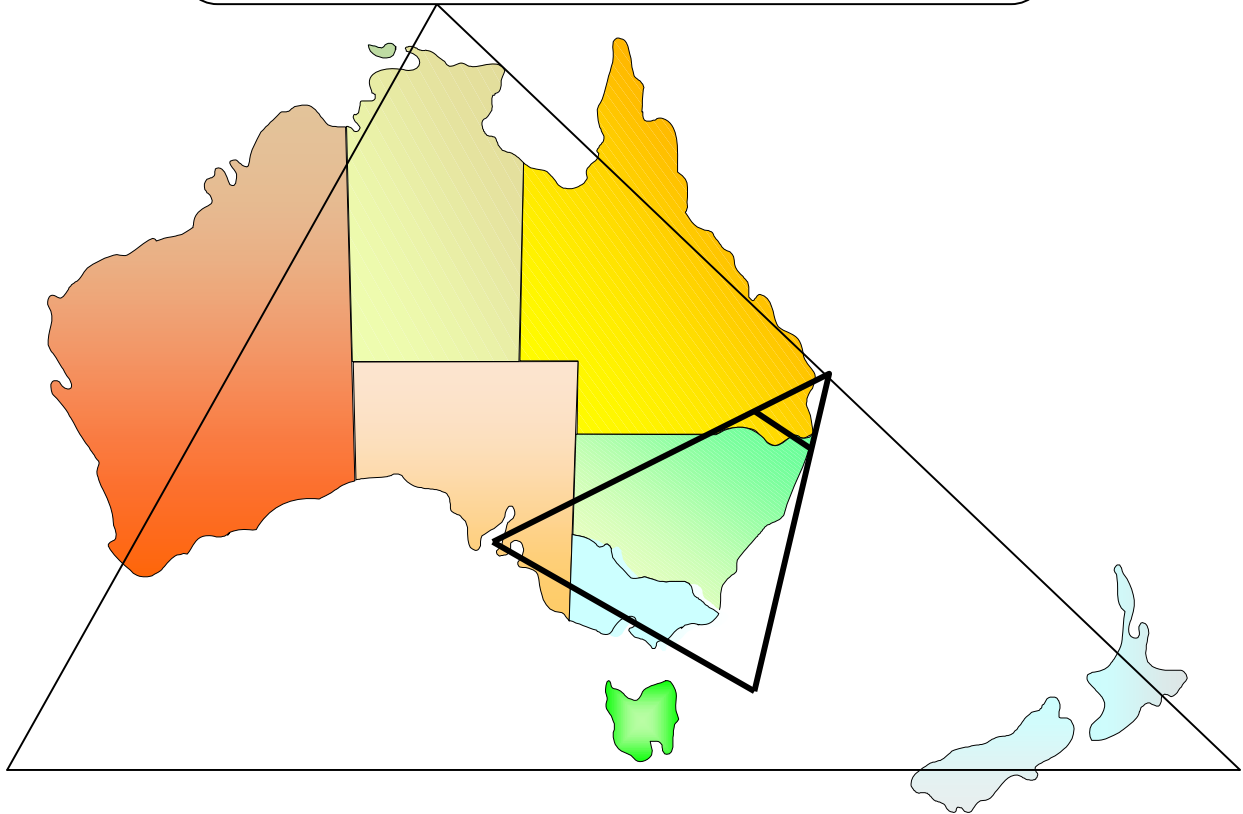
CATs – **Mentoring Australian Sunrise Innovations**
Queensland Australia Em: info@financefacilities.com



CENTRE for ADVANCED TECHNOLOGIES
CATs
PROTECTS the MONEY BOXES
SUPPORTS BUSINESS PLAN DELIVERY

CENTRE for ADVANCED TECHNOLOGIES
brings to the table new further new technologies
through the
CREATIVE ADVANCEMENT TRIANGLES

CATs collaborates with other research groups or
triangles from around the world.
CATs people interchange capabilities with others to
grow mutual outcomes.



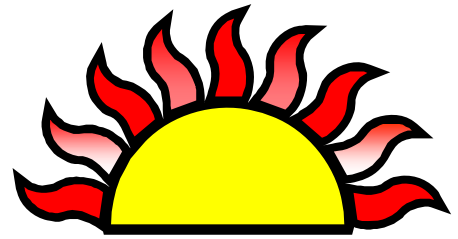
EQUINOX EQUITIES Pty Ltd

A fund for fostering innovations

ABN 98 010 700 624

Queensland Australia

Em info@financefacilities.com



CATs platform to support E² Investee Companies:

- 1. Administration team within CATs (Centre for Advanced Technologies) is envisaged to be more than 40 individuals with unique skills who thrive on change and co-operation.**
- 2. CATs is the parent administration providing support and skills to each of the investee companies in their commercialisation phase. As the investee companies grow, whilst realising their business plan, they will develop many of the skills within themselves, thus becoming independent.**
- 3. CATs view the investee companies in clusters, thus an executive is appointed to cross fertilise all members of a given cluster.**
- 4. CATs executive will cross fertilise with are research and development groups (local triangles) all around the world.**
- 5. Core criteria for entry to the CATs community is an openness and willingness to ‘sit down on the tool box and help each other’.**
- 6. CATs community people must be supportive of everyone else within the community.**
- 7. CATs provides a uniform set of corporate foundation documents, thus there is uniformity of process and culture throughout.**
- 8. CATs, by bringing different investee companies together from within the local triangle or from anywhere around the world, will engender new and further innovations.**
- 9. Core platform of technologies, they must be sustainable, that is, sustainable within the environment and sustainable financially.**
- 10. An outcome of those technologies that have come to CATs is there incredible collective contribution to the development of emerging economies, Remote Area Technologies (RATs).**
- 11. CATs is to achieve the development of world class management within each Investee Company on common grounds throughout the community.**



CATsberg symbolically is a good representation of the undiscovered potential in us all.

Most often it takes another person with an uncluttered but observant mind to see what has escaped many of us. A breakthrough concept or perhaps new approaches otherwise hidden from our perception.

It is common to reach for the telephone to call an associate for an opinion. Less common is the ability to feel completely at ease with a stranger who has our best interest at heart.

CATsberg is our symbol to introduce to you that the Centre for Advanced Technologies is here to share the journey through your business and personal life in a way that can make a difference to you and the way you feel as you grow your intellectual property.

FUTURE DEVELOPMENTS:

To provide a Centre of Excellence that will attract the innovators of tomorrow to establish a sustainable market presence.

