



ET3 Global Alliance 'Space Travel on Earth'

WHY: A financially sustainable co-operative global economy is the key to survival. A new mode of transportation is the key to achieving a sustainable Global economy.

WHAT: **ET3** is short for **Evacuated Tube Transport Technologies**. The result of this technology is literally 'Space Travel on Earth', a transportation system that is silent, low cost, fast, safe, ultra efficient, and environmentally friendly.

HOW: **ET3** technology permanently removes air from 1.5m tubes to eliminate aerodynamic resistance for automobile sized pressurized capsules. The capsules (on frictionless maglev) carry passengers or cargo in the evacuated tube networks. The capsules are accelerated by linear electric motors. After acceleration the capsules merge into the system and coast without using additional power. Most energy is recovered as they stop. **ET3** is automated, 'Full-speed passive interchanges' enable non-stop operation and re-routing. Airlocks at access portals (no further than 15 minutes apart) allow transfers in or out of the system.

VALUES: ROI allows private investment to replace government funding. **ET3** construction costs are 1/10th that of high speed rail and ¼ of a freeway. **ET3** requires 1/20th of the materials of high speed rail. A pair of **ET3** tubes can exceed the capacity of a 40 lane freeway. **ET3** can provide 50 times more transportation per kWh than electric cars or trains.

TECHNICAL: Capsules: empty mass 180 kg, 6 persons or 360 kg cargo; 1.3m diameter X 4.95m long; Speed: 650 km/h domestic, to 6500 km/h international;

THE COMPANY: **ET3 GLOBAL ALLIANCE, INC.** is the industry leader in all phases of **ET3** technology. Daryl Oster conceived the basic principals of **ET3** in the 1980s, refined and founded the company in 1997, and received the first technology patent in 1999. The company uses an open consortium business model to share information resulting in co-operative benefits.

Technology Readiness Level: Billions of dollars worth of technology, hardware, and production capacity necessary to implement **ET3** already exists.

Structure: **ET3 Global Alliance** shares its patented IP with others by granting inclusive licenses to participants who agree to use the technology in a reciprocal manner with the company and other licensees. Coordinators ensure uniform standards, and help resolve border and planning issues on local to international levels. Independent affiliates market licenses through et3.com Inc.

Goal: The company goal is to provide the vehicle that will maximize the profit potential for licensees and investors by leveraging the combined talent and assets to implement, manage and improve **ET3** technology.

Current Statistics:

Patents owned/licensed: 25 (several more in process)

Number of Licensees: 225

Countries represented: 18

Active Geographic Area Representation:

USA: NY,FL,SC,TN,TX,CO,NV,UT,CA,OR,WA,AK,

International: CN,CA,EU,AU,UK,JP,IN,IS,SA

(continued on other side)



Finance:

Total company equity to date: \$1.5 Million aggregated by 75 licensees.

Estimated Project Capital and Time Requirements:

Full Scale Working Maglev Capsule in 50' tube section -- \$1 Million (1 year).

Single tube, 3 mile test model -- \$10 Million (2 years).

20 mile, 2 tube system -- \$100 Million (3 Years).

300 mile fully operating 2 city system -- \$1 Billion (5 years).

PRESENTATIONS AND RECOGNITION:

Florida High Speed Rail Authority Qualification

Chinese Academy of Science

NJT University

Chinese Ministry of Rail

Tsinghau University Press

Korean Rail Research Institute

USDC Pan-American Export Forum

Journal of Modern Transportation

Colorado School of Mines EPICS Program

DaVinci Institute Inventor Showcase Commercial Product of the Year 2011

Sandia National Lab

Cascadia Future Trends

I-70 Coalition Expo

ASCE APM 2005

Clear Creek County, CO

Roger Williams University

JRC2011

Stanford University

Popular Science

CONCEPT HISTORY:

19th Century – Author Jules Verne penned ideas of rockets and airless tube travel.

1910 – Robert Goddard designed rocket and airless tube travel systems. After his death, his wife patented the tube travel documents.

1970 – Maglev train demos renewed interest in tube travel. Several patents disclosed removal of air from tunnels to achieve high speed.

1985 – Daryl Oster conceived the **ET3** value maximizing methodology while studying engineering.

1997 – ET3.com, Inc. was formed in Florida.

1999 – First **ET3** patent issued (US Pat # 5,950,543).

2002 – **ET3** Licensee, Dr. Zhang Yaoping, PhD facilitates ETT-HTSM US-China tech. exchange.

2005 – 2010 **ET3** consortium aggregates IP, builds models and prototypes, publishes peer reviewed papers, and licenses interested individuals, government entities, universities and companies.

2011 – Colorado School of Mines selects **ET3** projects for EPICS Programs.

2012 – **ET3 Global Alliance** established; consortium doubles in 6 mo.; **ET3Foundation.org** formed.

FUTURE POSIBILITY OF ET3:

Within 3 years – A fully operating commercial short range (30 km) system at 600 km/h.

Within 5 years – A fully operating commercial medium range (500 km) system connecting two major cities. (Los Angeles – San Francisco; Edmonton- Calgary, etc.).

Within 10 year – Fully operating national and/or regional systems.

Within 25 year – Global network crosses Bering Strait (6500km/h).

Within 35 year – **ET3** has the potential to displace 90% of global travel (currently \$8.65T/year).

Login to WWW.ET3.NET and get your ET3 license today.

