



## ET3 Global Alliance 'Space Travel on Earth'

**WHY:** Human survival requires a sustainable global economy. A new mode of electric transportation is the key to achieving that.

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

**HOW:** ET3 technology permanently removes air from 5' diameter tubes. This eliminates aerodynamic resistance for capsules running in the tubes. The car sized capsules are pressurized and magnetically levitated (maglev). They carry passengers or cargo in the evacuated tube networks. Airlocks at 'access portals' (less than 15 minutes apart) allow transfers in or out of the system. The capsules are accelerated by linear electric motors (not pneumatically). After acceleration the capsules merge into the system and coast without using additional power. Most energy is regenerated when the capsules stop. ET3 operates like automated freeways; 'full-speed passive interchanges' enable non-stop operation and capsule re-routing selected by occupants.

**VALUES:** Favorable 'Return On Investment' (ROI) allows private investment to replace government funding. ET3 construction costs are 1/10<sup>th</sup> that of high-speed-rail and ¼ of a freeway. ET3 requires 1/20<sup>th</sup> 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 weight 400 lb empty and carry 6 persons or 800 lb of cargo; 51" diameter X 16.24' long; Speed: 650 km/h domestic, to 6500 km/h international; Tubes are 60" diameter.

**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:** Implementing ET3 will require billions of dollars worth of technology, hardware, and production capacity. Fortunately almost all this capacity 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 or international levels. Independent affiliates market licenses through et3.com Inc.

**Goal:** ET3 provides a vehicle to maximize profit for licensees and investors who leverage their combined talent and assets to implement, manage and improve ET3 technology.

### Current Statistics:

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

Number of Licensees: 273

Countries represented: 20

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)



## ET3 Global Alliance 'Space Travel on Earth'™ (continued from 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 15m tube section -- \$1 Million (1 year).

Single tube, 3 mile test demonstration -- \$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:

Qualified by Florida High Speed Rail Authority

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 'Commercial Product Of The Year 2011 winner

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

Katerva Award Finalist

### CONCEPT HISTORY:

19<sup>th</sup> 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.

2013 -- **ET3 Capsule mockup** tested by over 1000 'passengers' in CA.

### FUTURE POSSIBILITY OF ET3:

Within 3 years – A fully operating commercial short range (20 mile) system at 375 mph.

Within 5 years – A fully operating commercial medium range (300 mile) system connecting two major cities. (Los Angeles – San Francisco; Edmonton- Calgary, etc.).

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

Within 25 years – Global route across Bering Strait (4000 mph).

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

Login to [WWW.ET3.NET](http://WWW.ET3.NET) and get your ET3 license today.



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