

Welcome



Tantric Technologies Investments

4/7/2023

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 **Tantric Technologies Investments**

What We Do

TTI is a boutique venture capital firm dedicated to creating a more secure and prosperous world by supporting and funding visionary individuals and companies who are developing game-changing technologies strategic to the development of the next phase of global communications cloud.

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TTI Focus

Tantric Technologies Investments (TTI) is focused on continuing to fund the next generation of the Internet; the Global Intelligent Cloud (GIC) and using holographic data centers to reduce the cloud's consumption of energy.

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 **Tantric Technologies Investments**

William Abbott Foster, PhD – Managing Partner

- 🌟 Dr. Foster has 40 years of experience in government, academia, and industry at the convergence of technology and governance.
- 🌟 Built networks for the Executive Office of the President and 20 federal agencies (including DIA)
- 🌟 He has a PhD in Management Information Systems from the Eller College of Management at University of Arizona.
- 🌟 His dissertation on the *Diffusion of the Internet in China* was published by CISAC at Stanford University



- 🌟 He was the founder of Post-Quantum Tek which has an agreement with the University of Arizona College of Optics to commercialize TIPD's patent for using holograms to switch data.

His publications are available at www.fosterbrahm.com

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 **Tantric Technologies Investments**

Victor Ishenku

- 🌐 Partner
- 🌐 Chief Financial Officer (CFO)
- 🌐 MBA from Emory University Goizueta Business School
- 🌐 20 years of experience in supply chain management and information systems

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Russell Reinsch

- 🌐 Partner
- 🌐 Entity Administrator
- 🌐 Chief Operating Officer (COO)
- 🌐 US Army veteran. Retired Nuclear, Biological and Chemical (NBC) NCO
- 🌐 Bachelor's degree, Arizona State University, Science, Technology and Society (STS)
- 🌐 Co-chair, National Institute of Standards and Technology (NIST) Big Data Working Group
- 🌐



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Stephen and Tasha Halpert

- 🌟 Partners
- 🌟 Stephen and Tasha Halpert are the Partners in charge of philanthropy
- 🌟 They own ST Publishing, a visionary publishing house.



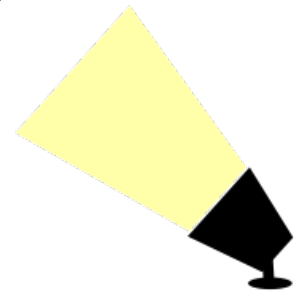
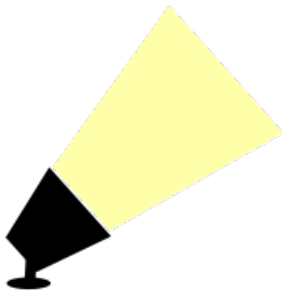
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Our Goal

Tantric Technologies Investments
To be the leading VC firm in the
Holographic Optical Switching space!

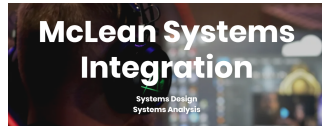


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Working in Collaboration with



<https://www.mcleansystemsintegration.net>

Seeking Collaboration with



<https://aztechconcil/about-optics-valley> Support, & Networking (aztechcouncil.org)



THE UNIVERSITY OF ARIZONA
Wyant College
of Optical Sciences

[Home](#) | [Wyant College of Optical Sciences \(arizona.edu\)](#)



POST-QUANTUM TEK

Post-Quantum Tek (postquantumtek.com)
Commercialization rights to UFA's holographic switching patents

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Why the Need for Optical Switching Center



University of Arizona's

RECONFIGURABLE DIFFRACTIVE OPTICAL SWITCH Patents

100x lower power requirements



US 9,726,827

US 9,453,970



Crisis with Energy use in Data Centers

70 billion kWh, ≈2% total U.S. electricity consumption

CLICK ON # TO
SEE PATENT



Microsoft Research project ProjectToR

Agile Reconfigurable Data Center Interconnect



MEMS — MICRO-ELECTRICAL MECHANICAL SYSTEMS

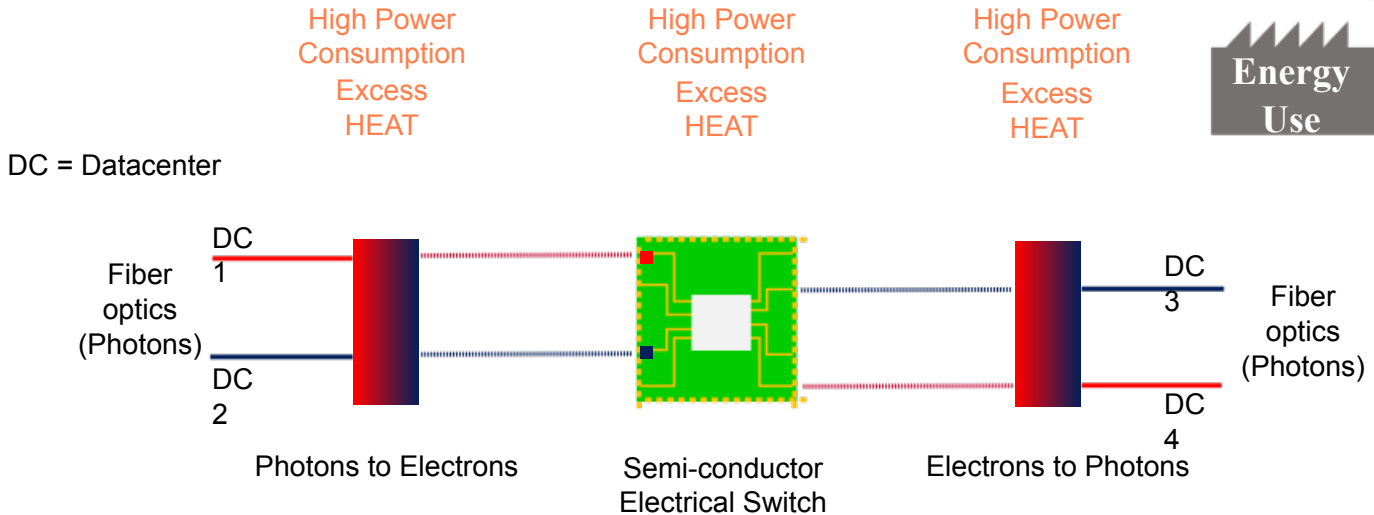
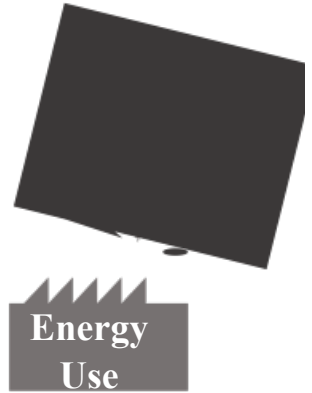
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Why the Need for Holographic Switching



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Demonstrated by UA's College of Optical Sciences

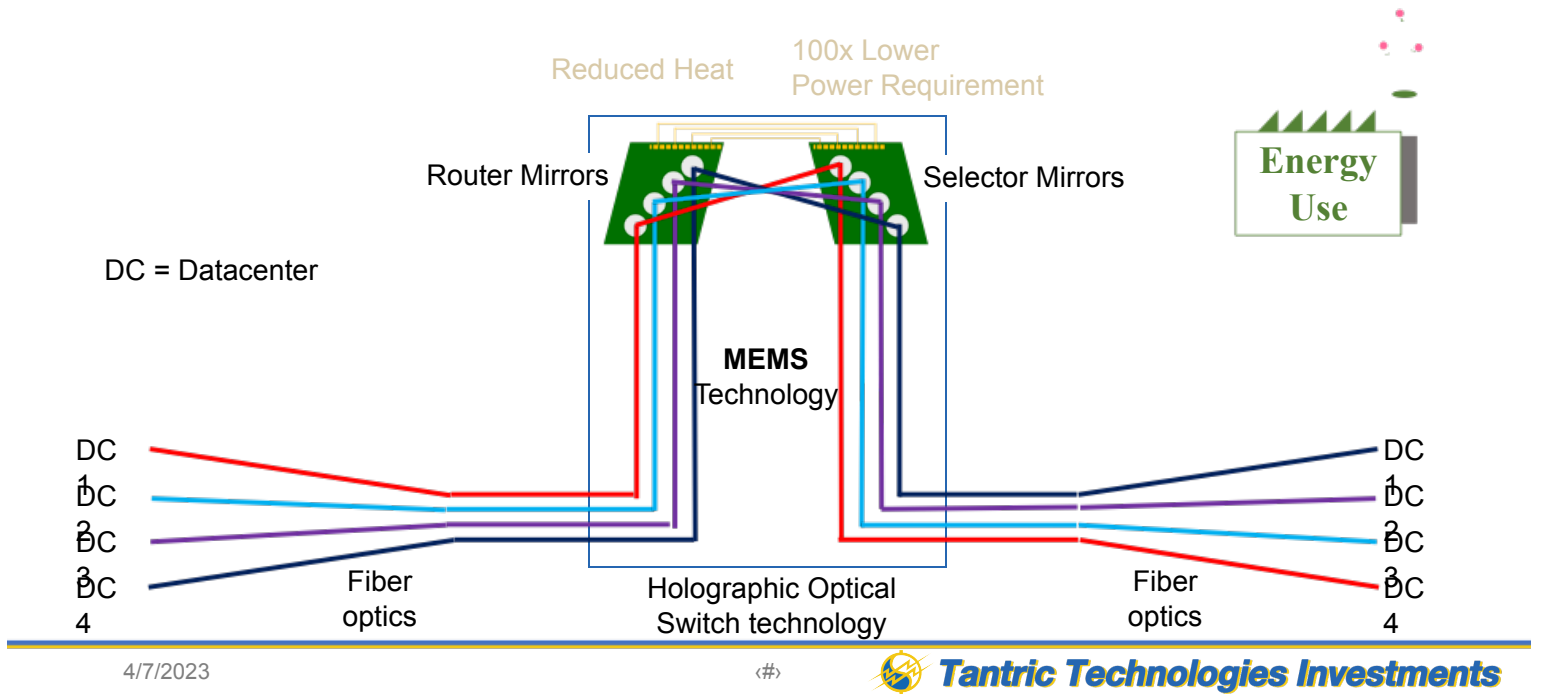
- 🌟 The University of Arizona holographic optical switch technology reduces energy consumption by **100 times** compared to existing electrical switches.
- 🌟 Current switching technology has a throughput of 100Gbs. Our holographic optical switch can increase throughput to 1Tbs and decrease energy consumption from 20pJ/bit to 1pJ/bit.
- 🌟 Our holographic optical switch is faster and more efficient, resulting in a significant savings in energy and attendant costs.

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How the Holographic Switch Works



Obstacles

- 🌐 The biggest challenge is that the technology behind MEMS (micro-electrical mechanical systems that generate the holograms) is evolving rapidly. Since data center operators build data centers on a 20-year horizon, they can not afford to design data centers for each new MEMS technology.

The technology needs to be tested in a parallel data center implementation

- 🌐 that simulates real time data requirements

Solution

We will seek to partner with Internet 2 and the Electronic Proving Ground at Fort Huachuca to build and test a prototype.

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Ask

TTI needs \$50,000 for 3 months which we believe is sufficient for getting a DOE grant. We are prepared to give 10% of the stock in TTI, a Delaware registered C-Corp, for a \$50,000 investment.

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For more information

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TTI

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FosterBrahm@gmail.com

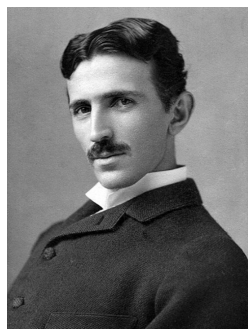
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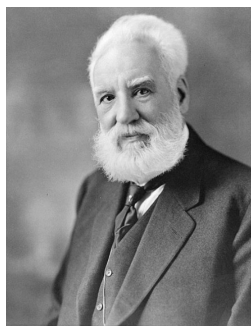
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Influencers...with us in spirit!



**Nikola
Tesla**

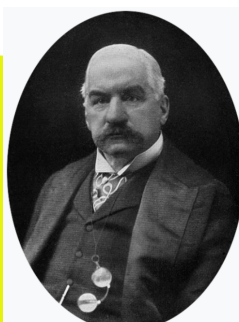
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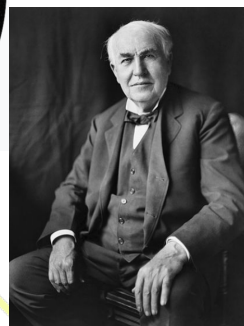
**Alexander Graham
Bell**



Samuel Morse



**J.P.
Morgan**



**Thomas
Edison**



**Steven
Jobs**

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Thank You!

Questions