

## CAT&I PROPOSAL

### Light can circle the Globe seven times a Second. Why can't Money?

Think of Money as an electro-optic plasma with the circadian rhythm of global finance. Fiber data is constrained in a vascular system while our neural network with human motivation signals across time and space to any and all points of the compass.

Our Unique Value Proposition is 2/3 to 1/10 time savings point-to-point over distances up to 6000 kilometers, even without including our femtosecond modulation.

Cyber-security has become an anachronism. Fiber and electro-magnetic networks are ever more subject to skillful intrusion, corporate espionage, trawls, backhoes, seismicity, and outright piracy. All threaten the global exposé of financial transactions to prying eyes.

Free Space Optics (**FSO**) protects against all levels of intrusion. The carrier beam cannot be intercepted with “splitters” or electro-magnetic “cuffs”. The beam is a wide-bandwidth laser light signal only to be received at the intended station in your closed network.

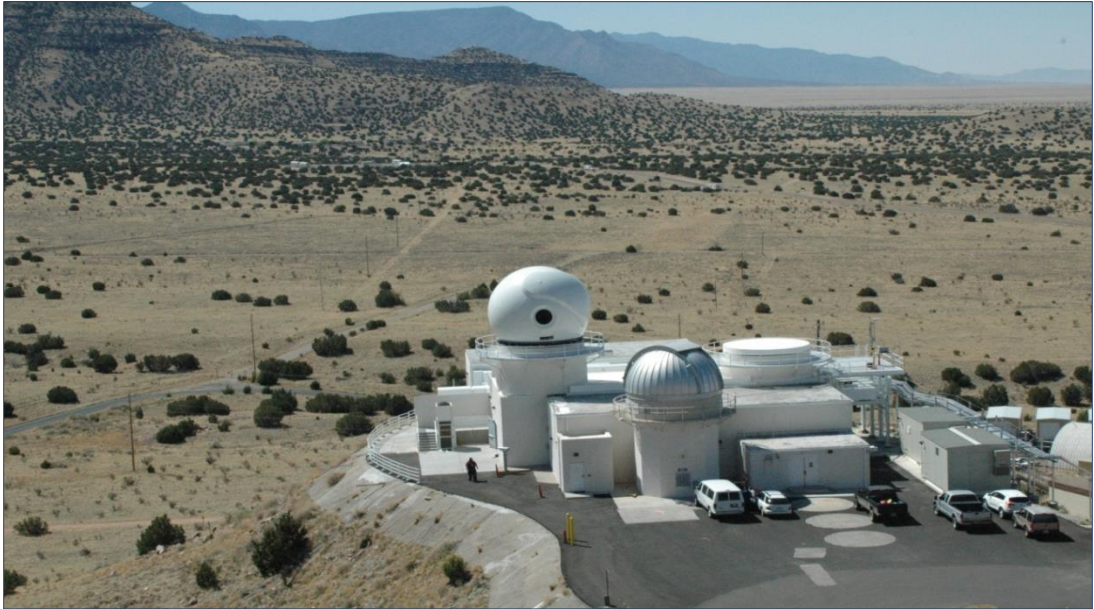
Just as undersea cable is limited by fiber-light speed and repeaters, **FSO** has its own limitations. The carrier beam must travel “line-of-sight”. This means that an over-the-horizon **FSO** network must achieve line-of-sight through satellites. Weather and smog can affect the optical signal, requiring multiple wavelengths to penetrate the atmosphere. In hail or haboob the transceiver (transmitter and receiver) must close for lens protection, interrupting transmission.

**MONOPTEC** will house each **FSO** transceiver in its patented Fixed Shutter Dome (**FSD**). The **FSO** equipment is protected from weather, dust, and corrosive atmospheres such as are found in cities and ports in all latitudes.

Data bundles are addressed to the intended **FSD**. The transmitting **FSD** signals the receiving **FSD** to point and accept the bundle. With multiple stations in a closed network each **FSD** can turn to another **FSD** and continue data transfer over the breadth of the globe. By this mechanism money moves with complete confidence and femtosecond speed at any time in any direction without thought of interception or need for time-consuming and always vulnerable encryption.

**MONOPTEC** has the breadth of view to amass a team which can transform this proposal into practical reality within a six-year twelve-billion dollar window.





The **FSD** is particularly well-suited to the protection of Free Space Optics for *secure commercial communications*. Quantitative trading with extremely low latency, zero backscatter, and femtosecond modulation is the latest financial strategy to require security, repeatability, and *global* access.

The **FSD** provides a weather and pollution-proof enclosure for sensitive laser instruments. Whether in the *acid smog* of industrial cities, *salt air* of ports, or *harsh weather and dust* of rugged and remote regions of Africa and Asia, the **FSD** encloses delicate optical and electronic equipment in a *clean-room* environment.

The **FSD** is *scalable* to any size relative to the instrument enclosed. Whether housing a 100-millimeter laser or 30-meter telescope, the **FSD** functions with only *two moving parts* for greater speed and endurance.



*A Singular Vision of Technology*

*To discuss specifics of your unique project,  
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