

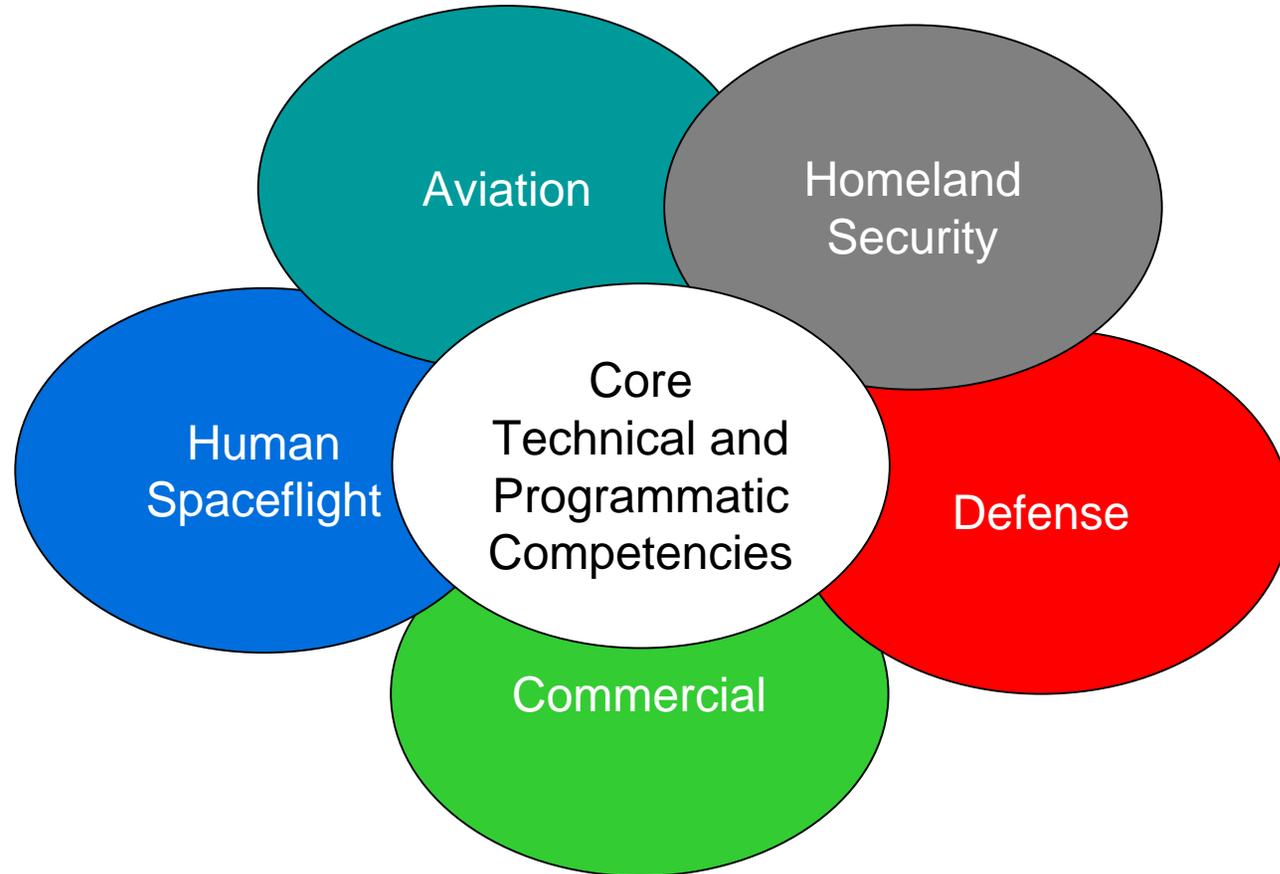
# *Securing US Space Infrastructure*

**SEC/CSIS Forum**  
**December 15, 2004**

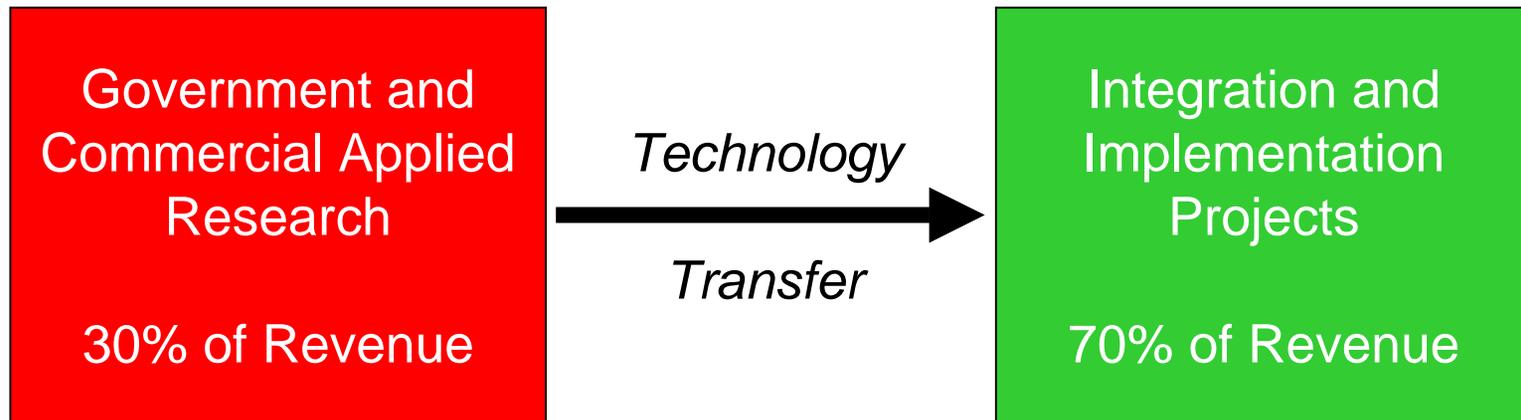
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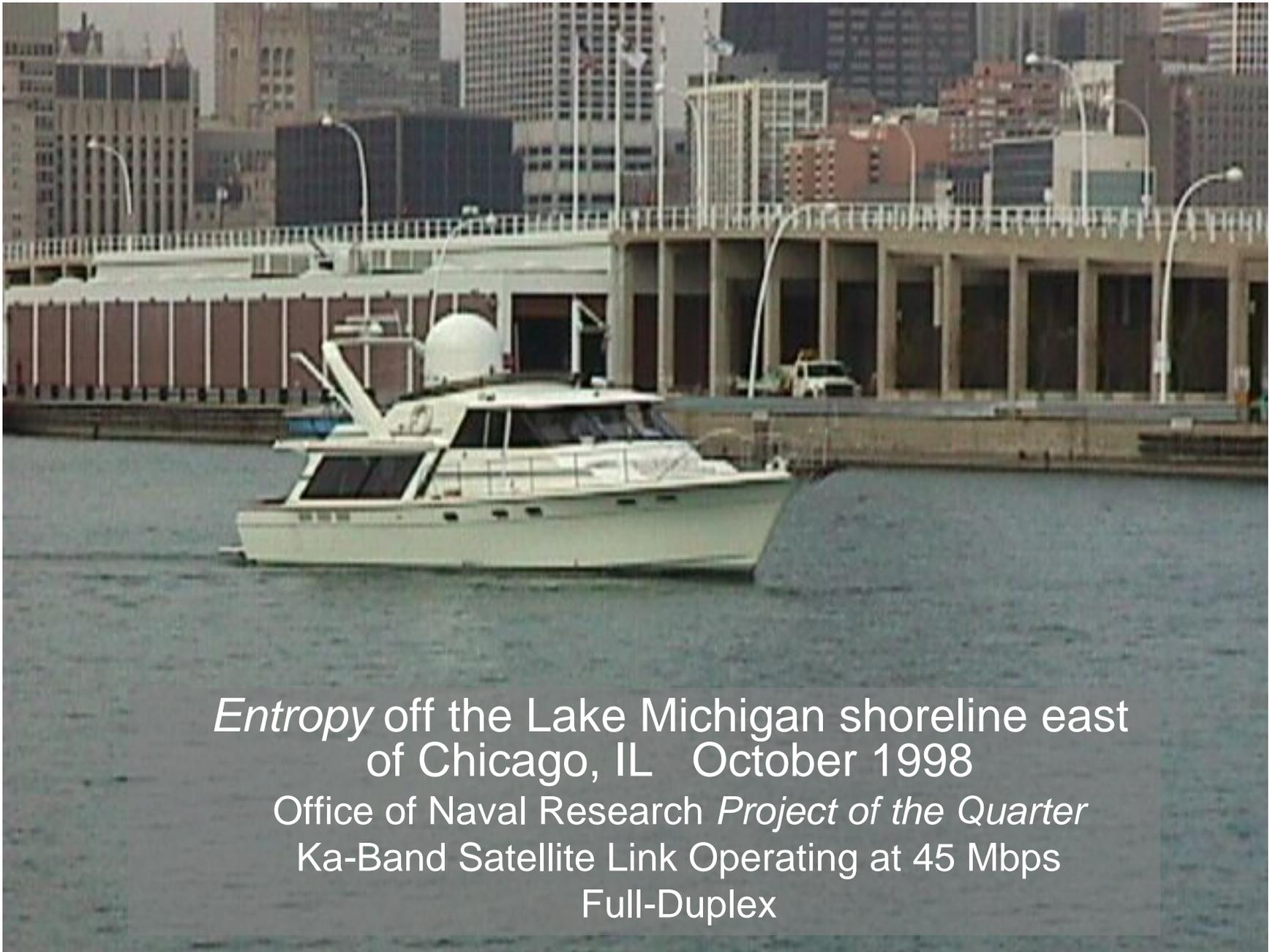
- Founded in 1997, IGI's is a Chicago-based small business with primary focus in design, integration, and implementation of large-scale, high-performance, high-reliability communications systems
  - High-speed satellite & terrestrial networks
  - Networks for mobility:
    - Land Mobile Vehicles
    - Ships
    - Aircraft
    - Spacecraft
  - Unusual network integration & design involving disparate interfaces and protocols
  - Rapid prototyping of communications systems and subsystems
  - High-speed data transfer
  - Video Broadcast, multi-cast and distribution
  - High-reliability and high-security networks
  - End-to-end networks utilizing multiple media
  - National- and Global-Scale systems

# Areas of Emphasis



## *The Engine Driving IGI's Insight and Innovation*





*Entropy* off the Lake Michigan shoreline east  
of Chicago, IL October 1998

Office of Naval Research *Project of the Quarter*  
Ka-Band Satellite Link Operating at 45 Mbps  
Full-Duplex



- Kwajalein Atoll's KMRSS *Worthy* at Midway Island
  - When IGI and NRL complete the ALL-IP communications retrofit of the vessel in late-2005, it will sport the most advanced communications system afloat

# Terrestrial Landings for Satellite Traffic



# Satellite Communications On The Move



# NRL's *InfraLynx* Vehicle



# The Future is Inflatable



2.5 Meter Inflatable Ku-Band Antenna (foreground)  
5.0 Meter Inflatable Ku-Band Antenna (background)

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