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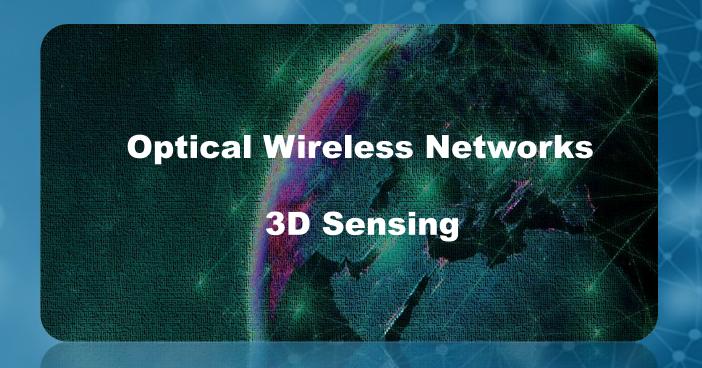
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Building 5G Optical Wireless Networks

for Backhaul, "Smart Cities," LiDAR, IoT, and more . . .

via our VCSEL "LightGrid" Platform Technology

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John Joseph
President
Founder
Inventor
Chairman of the Board



CEO
Co-Founder
Investor
Board Director



Jim Lott
CTO (acting)
Co-Founder

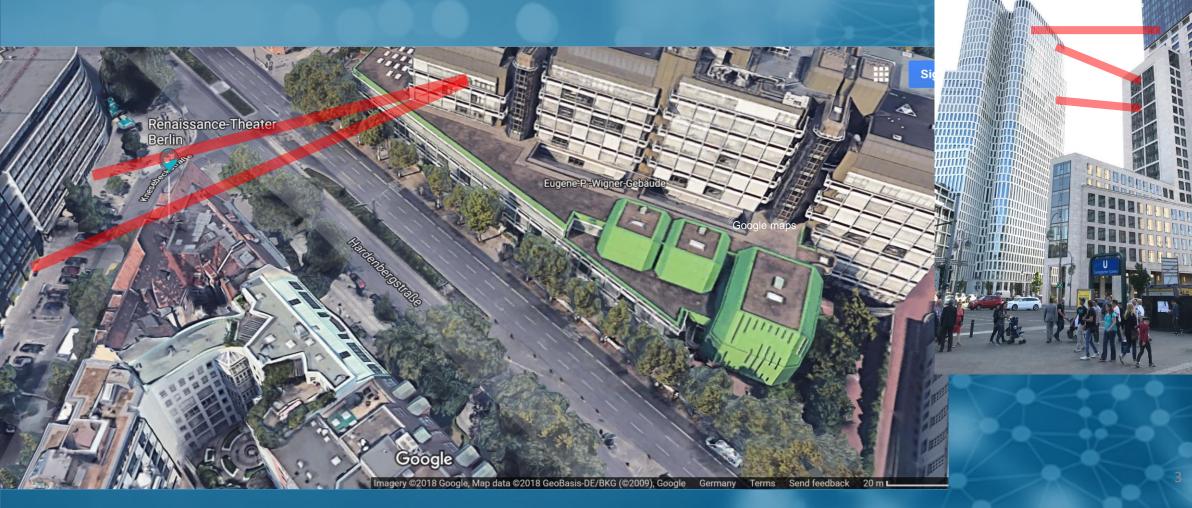
15 VCSEL and VCSEL Extensive C-level array patents, 30 experience, finance, years in VCSEL start-ups, strategic processing, quality partnerships control, and facilities

Professor, photonics technology, solidstate physics, VCSEL and device R&D



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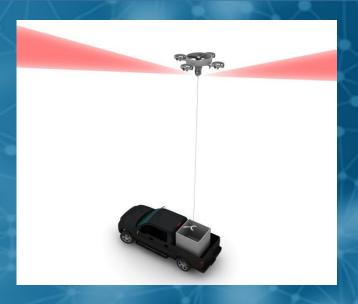




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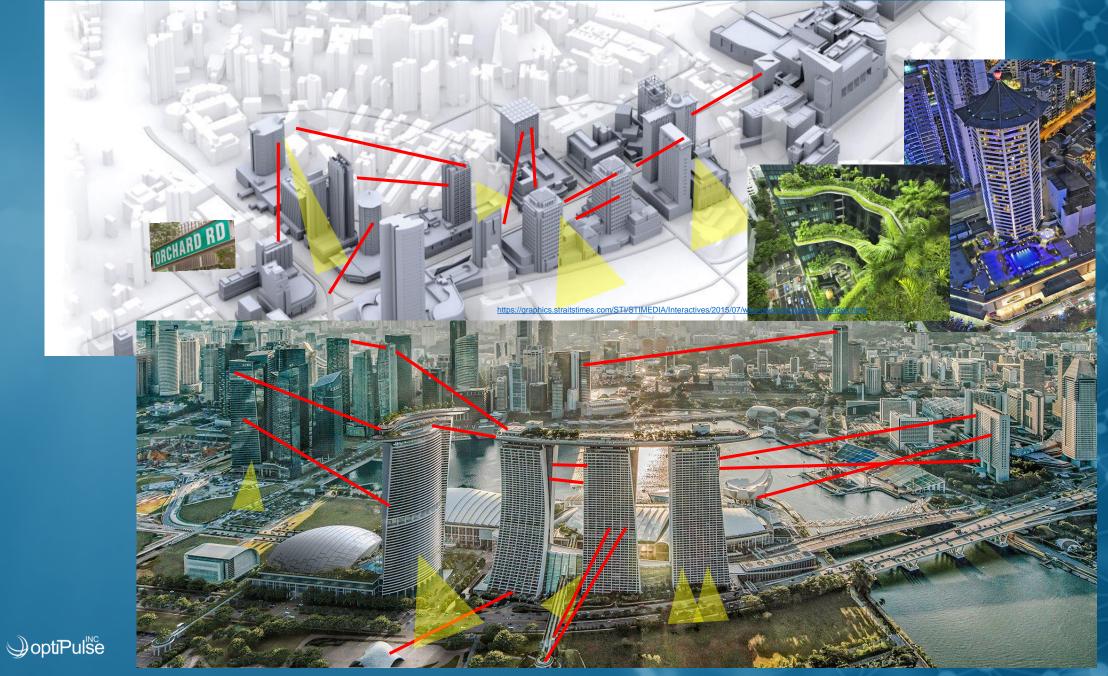














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Optical Wireless - 5G Backhaul and Beyond

- Provides low or no Backhaul interruption
- Serve as communication arteries within a city
- Provides control and distribution of Internet traffic with an IP address and may serve as a micro- data center at each node
 - Fast Backhaul
 - Easy to install (no digging)
 - Lower cost per Gbit
 - Redundant connections
 - Security
 - Fast enough for 5G
 - Big data collection and distribution point a mini edge data center



> 10 Gbps optical wireless 5G capable broadband

On-site controller adds security to mesh network Infrastructure

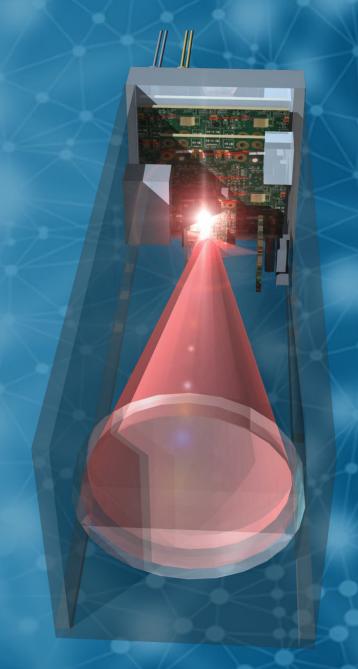
Enables reliable connectivity for all





First Product Focus

- Largest Market ~300m Metro Market (building to building or smart nodes)
- Wireless makes deployment relatively simple
- Auto-alignment and self healing power increase simplicity of deployment
- May prove valuable as well for the control of peripheral system components such as cell radios, WiFi, curb to home, cameras

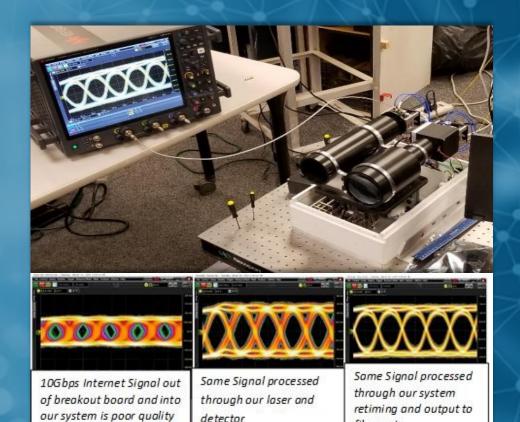


System Performance and Development

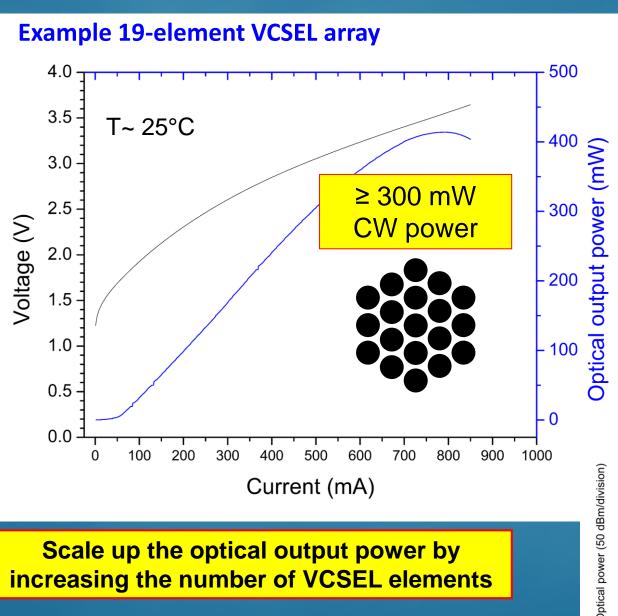


10G Demonstration system

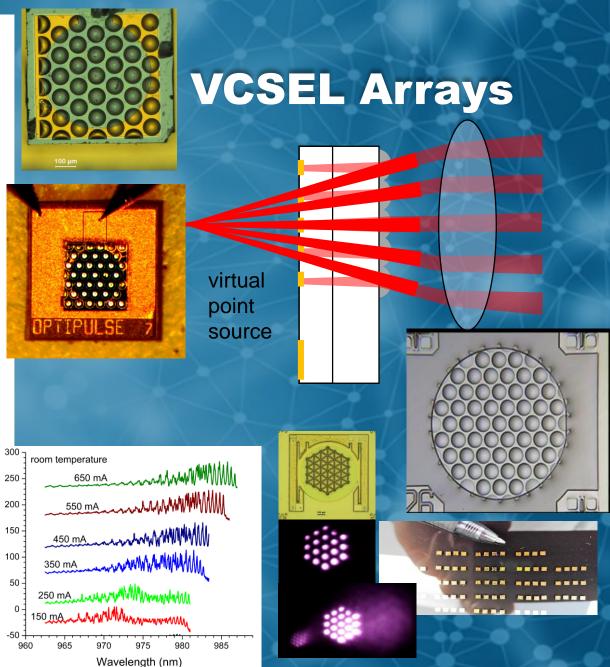
- System Operating at 10 Gbps single channel, full duplex
 - Linking college buildings at 105 m
- In progress developing and deploying a "Smart City" Mesh Network demonstration system in ABQ



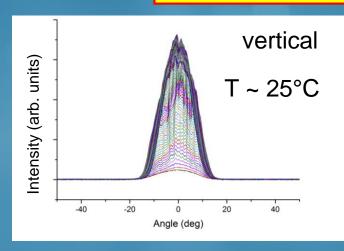
fiber out

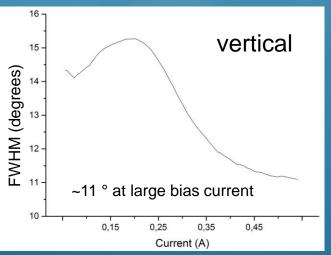


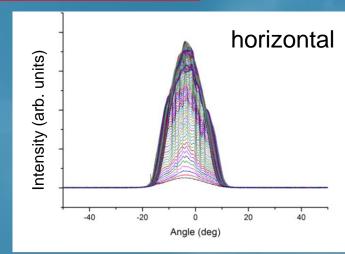


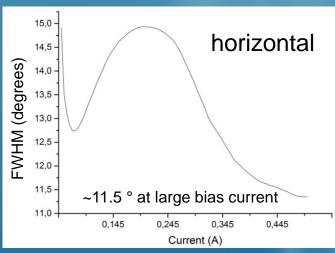


11 degrees beam via a patented surface lensing scheme

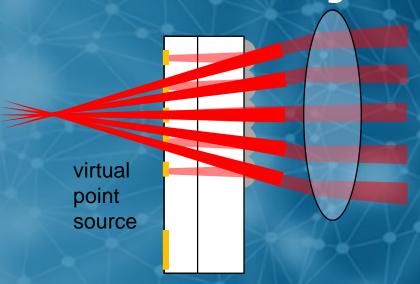






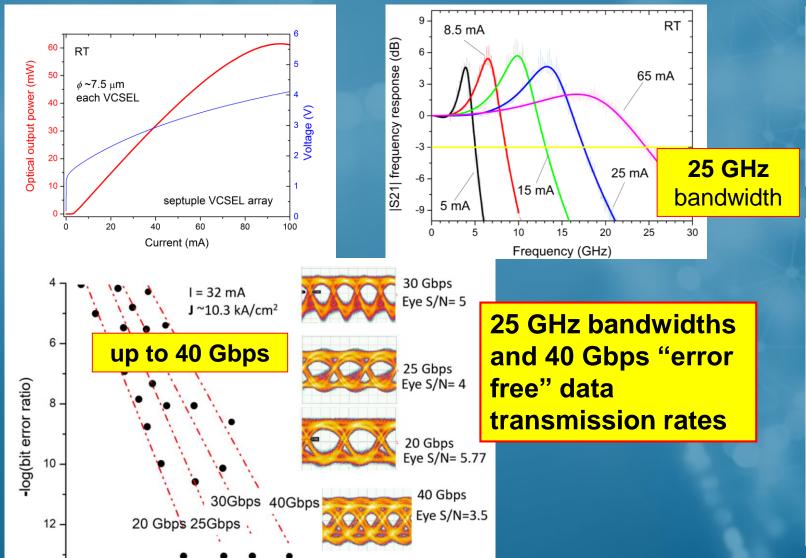


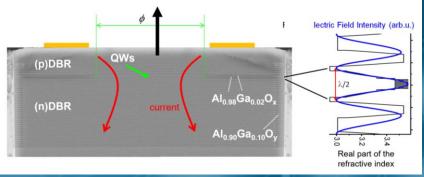
VCSEL Arrays

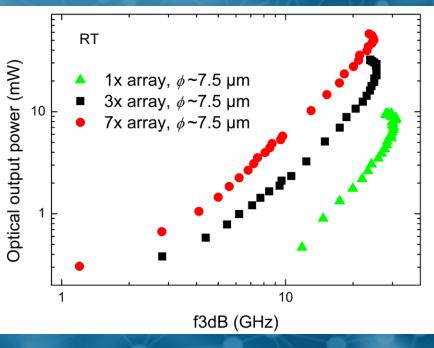




Next generation VCSEL Arrays







Sensing and data transfer











http://www.car-it.com/neue-verkehrstechnologien-fuer-die-stadt/id-0044305



https://leddartech.com/

Operations, partnerships



- We perform epitaxial design, packaging design, and systems design
- Foundry epitaxial growth, wafer processing, and assembly
- Our core array technology may be applied in a plethora of applications
- Any and all optical communication and sensing applications are in play







John Joseph | Chairman & COO | M 480-652-0717 | jjoseph@optiPulse.com

Mathis Shinnick | CEO | M 646-710-0939 | mshinnick@optiPulse.com

Dr. Jim Lott | CTO (acting)

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