

Innovative Optical and Wireless Network

Vision 2030: A Smarter, Better World For All



IOWN Global Forum (IOWN GF) aims to bring together like-minded companies to create a smarter world experienced in the daily lives of billions of people. Its vision by 2030 is to create an innate and pervasive next generation communication infrastructure addressing critical societal challenges that has ambient intelligence tuned to people's immediate environment, enriching end-user experience.

Collaborating among best-in-class partners across industries, IOWN GF will focus on a number of challenges facing society including our ever-increasing power consumption and the demands of data transfer, storing and processing.

IOWN GF's Vision 2030 seeks to remove barriers to achieve a smarter world by looking beyond the current technologies to build a new communications infrastructure capable of offering new services and fostering sustainability. True success will be achieved when people use and benefit from the IOWN technology without even realizing it.

Our Mission

Collaboration

for looking beyond Internet technologies to build the tomorrow's communications infrastructure



Commit

to delivering on the promise of a better world for humanity



True success comes when people use IOWN technology without even realizing it.

Shift

how we interact with technology to ensure it becomes a natural and pervasive part of everyday life



Accelerate

the development of new technologies, frameworks, specifications & reference designs



IOWN 2030 Objectives

In order to solve various social issues and realize a smarter world, by 2030, IOWN GF will achieve:

IOWN GF

100 Industry leaders joined IOWN GF



75 Core technical specs published



50 Proof of concepts delivered based on IOWN Technical Specs



IOWN Technology



Lower power consumption by

100x



Higher transmission capacity by

125x



Lower end-to-end latency by

200x

IOWN Enabling Technologies



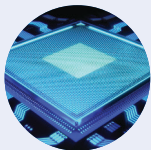
Transmission per wavelength



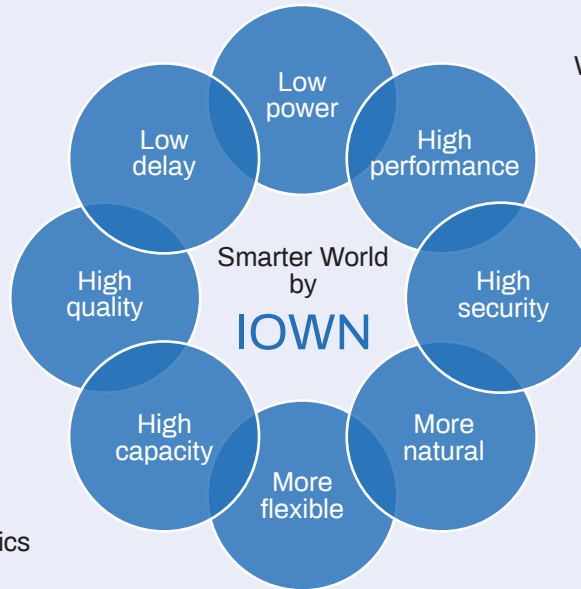
High-capacity transmission per fiber



Without electrical conversion



Processors using Photonics-Electronics Convergence Technologies



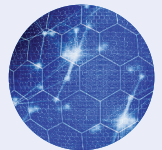
Groundbreaking Wireless Technologies



Enormous computing resources with Distributed Computing



Enabling next generation of computer with Quantum Computing



Connecting real to virtual through UI/UX Technologies



Roadmap and Milestones

Start with a few working groups including use case WG

Publish documents such as an IOWN concept paper, WG roadmaps and use cases

2020

Establish IOWN GF

2022

Engage collaborations with external standard bodies

Publish core technical documents such as minimum performance requirements and technical reports

Release standard documents approved by external standard bodies

Publish core set of technical specifications and use cases

2024

2030

Launch IOWN compliant services by the Forum members