

Safe Harbor

This presentation contains "forward-looking" statements that involve risks, uncertainties and assumptions. If the risks or uncertainties ever materialize or the assumptions prove incorrect, our results may differ materially from those expressed or implied by such forward-looking statements. All statements other than statements of historical fact could be deemed forward-looking, including, but not limited to, any statements about future market and financial performance and similar statements; statement regarding future products or technology as well as the timing to market of any such products or technology; any statements about historical results that may suggest trends for our business; any statements of the plans, strategies, and objectives of management for future operations; any statements of expectation or belief regarding future events, future growth, potential markets or market size, technology and product developments, or enforceability of our intellectual property rights; statements regarding our financial outlook and any other statements regarding future financial performance; and any statements of assumptions underlying any of the items mentioned.

These statements are based on estimates and information available to us at the time of this presentation and are not guarantees of future performance. These risks and uncertainties include, but are not limited to, delays in the release of new products or updates to existing products and market acceptance of these products; fluctuations in customer demand, changes in industry trends, and changes in the macroeconomic market; customer consolidation; the risks of competitive responses and shifts in the market; the effect that changes in product pricing or mix, and/or increases in component costs could have on our gross margin; our ability to respond to rapid technological changes; aggressive business tactics by our competitors; our reliance on single and limited source suppliers; our ability to protect our intellectual property; claims by others that we infringe their intellectual property; war, terrorism, public health issues, natural disasters and other circumstances that could disrupt the supply, delivery or demand of our products; and other risks and uncertainties detailed in our SEC fillings from time to time. More information on potential factors that may impact our business are set forth in our Annual Report on Form 10-K for the fiscal year ended on December 30, 2017 as filed with the SEC on February 28, 2018, as well as subsequent reports filed with or furnished to the SEC from time to time. Our SEC fillings are available on our website at www.infinera.com and the SEC's website at www.sec.gov. Forward-looking statements are subject to change, and we may not inform you when changes occur. We assume no obligation to, and do not currently intend to, update any such forward-looking statements.

This presentation includes certain non-GAAP financial measures. Pursuant to Regulation G, we have provided a reconciliation of these non-GAAP financial measures to the most directly-comparable GAAP financial measures in its fourth quarter earnings release and CFO Commentary, which are available on the Investor Relations section of our website. Revenue guidance is provided using ASC 605. We will adopt ASC 606 for Q1 2018, and intend to provide an ASC 606 to ASC 605 reconciliation when we report first quarter results.



Infinera – Value in Differentiation



SUPERIOR PRODUCTS

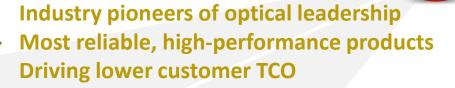
& SERVICE



AGILE BUSINESS MODELS



VERTICAL INTEGRATION
LEADERS



Customer-friendly usage-based billing unique to Infinera's technologies (e.g. Instant Network)

Defining our innovation destiny

Driving lower cost structure for Infinera

Technology Leadership

=

Differentiated Operating Model

Financial Leverage



Syncing with Optical Market Trends

OPTICAL IN SYSTEMS, APPLIANCES, **MODULES**

AUTOMATION & SDN

TECHNOLOGY INTENSIFIED

CLOUD DRIVEN ARCHITECTURE **DENSIFICATION OF METRO**







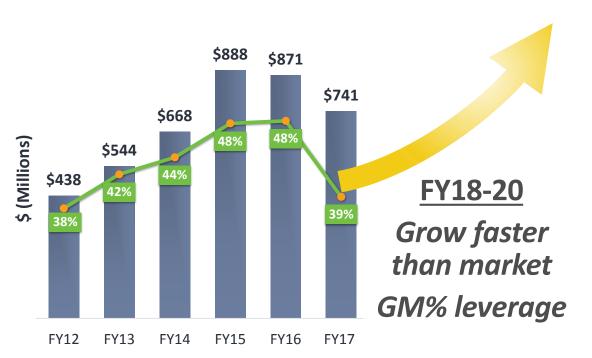


Expanding Infinera's Addressable Market





Positioned to Repeat Past Success



Next 3 years

NEAR TERM TRACTION

ICE4 20% revenue in Q4-17 Recovery from customer M&A

MARKET EXPANSION POTENTIAL

New products drive new customer wins Enhanced GTM and operational efficiency

FASTER OPTICAL ENGINE CADENCE

Drives sustainable financial performance Each new engine has lower cost structure





Syncing Cadence with Customer Adoption

New Optical Engine Development Timeline

- Smoother product delivery
- Matches customer pace
- Sustainable revenue/margins

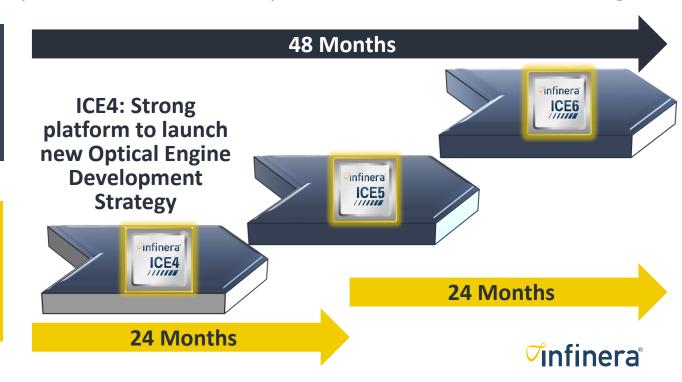
TELECOM (CSP)

Gradual adoption with comprehensive build-outs

WEB SCALE

ICPs, Cable, Wholesale

Faster adoption with with purpose-built tech

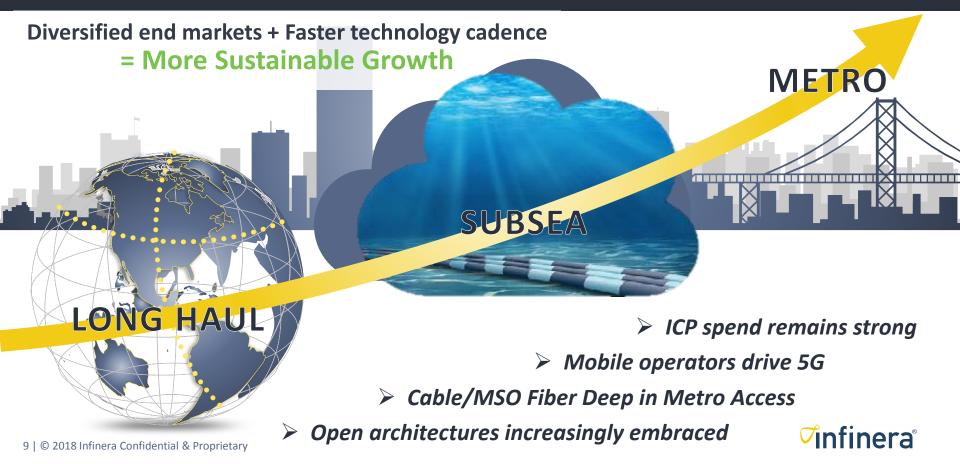


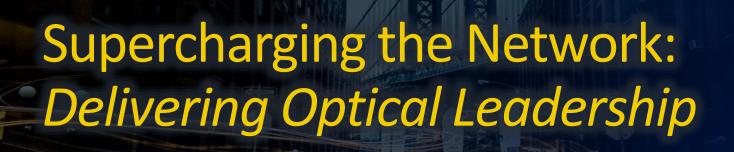
Strengthening the Business Model





Sustainable Growth Trajectory





OFC – March 13, 2018 Dave Welch



vinfinera ≀

Optical Leadership in Perspective

What matters to customers

How we deliver

Infinera helps its customers win in their markets

Lower total cost of ownership (TCO)

Maximize fiber capacity

Accelerate time to revenue (TTR), speed to service

Optical Performance Capacity TCO

Photonic Integration (PIC), Advanced Coherent (DSP)

Drive cost & power per bit, capacity-reach

Cloud Scale

Instant Bandwidth, Instant Network
Sliceable super-channels, Open ICE, Automation

The Infinera Experience

Time as a Weapon, World-class quality Customer-centric focus, Simplicity & ease of use



TTR TCO

ICE Optical Leadership That Counts With Customers

Promise





ICE4 differentiated performance and value

- Record-setting performance
- Broad adoption, short haul to subsea
- Growing faster than the market



ICE5 and ICE6 on new cadence, rapidly advancing capacity per wave and capacity-reach

- ICE5 engine already running live demo at OFC
- First to 64QAM/66Gbaud
- ICE6 tech demonstrations ahead of industry
- Unique advantages to get to higher baud rate

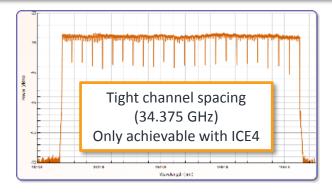


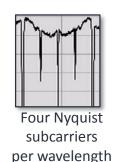
ICE4 Leading Performance Across Segments



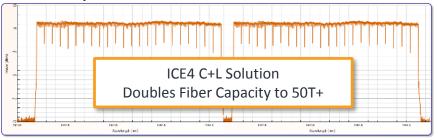
Record 16QAM Fiber Capacity

27.6 Tb/s





Next Step: C+L



Record Spectral Efficiency

18.2 Tb/s over 10,000 km





- 50% more capacity than others
- Showcases the whole ICE4 PIC + DSP toolkit

PIC Tx Performance

High Dispersion Comp

PIC Rx Performance

Nyquist Subcarriers

Tight Channel Spacing

Nonlinear Comp

Flexible Mod & Baud

FEC Gain Sharing



ICE4 Leading Performance Across Segments



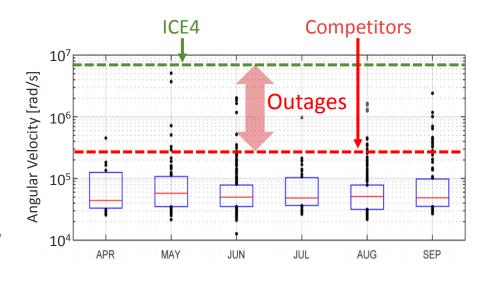
Record Lightning Tolerance

100% protection





- Thousands of outages/year
- Impacts all types of operators
- Worse at higher QAM
- Infinera unique 100% protection, based on Nyquist subcarriers





Open ICE Opens New Opportunities

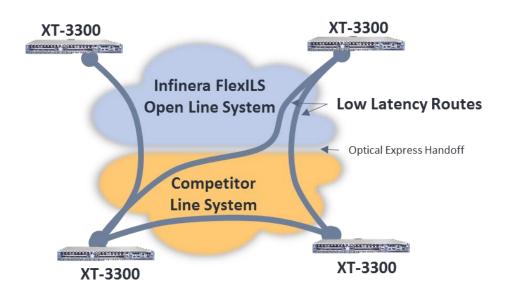


Open ICE

ICE4 over Any Network

European wholesaler, low latency service

- ICE4 won on reach, latency performance
- Open ICE allows deployment anywhere, optimizes cost





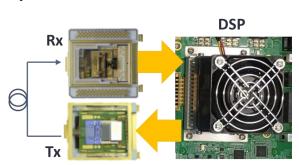
ICE5: World's First Integrated 2.4T Engine

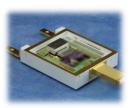


- ▶ 600G/wave in integrated 2.4T engine
 - 5th Generation Optical Engine (PIC + DSP)
- Fine-grained 100G-600G/wave
 - 600G metro reach with 64QAM, 66Gbaud
 - 400G over 1500 km
- Built-in support for 400 GbE, encryption
- Targeted for scale-optimized networks

Live at OFC

Fully integrated ICE5 optical engine using *go-to-market*PIC modules and DSP









Rx PIC Module



FlexCoherent DSP



ICE5 Optimized for Cloud Scale & Fiber-deep Networks







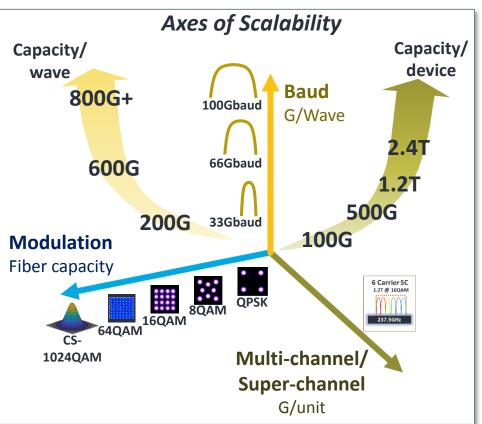
ICPs Scale- optimized	Metro DCI	Long Haul DCI	Subsea DCI
CSPs Scale- optimized	Fiber-deep, high capacity	L0 overlay	Subsea multi-service
CSPs Service- optimized	L2-L3 aggregation	L1-L2 bandwidth management	Subsea bandwidth management



Shifting Focus to High Baud Rate, Integration

Fiber capacity near Shannon limit: diminishing returns from modulation

Constellation shaping (CS) for extended reach effective CS requires next Si node



Unique Infinera optical engine integration

- PIC+DSP tightly integrated
- co-design/co-packaging

Unique Infinera advantages:

- photonic integration
- super-channels



ICE6: 800G/wave Leadership



Highly Integrated Optical Engine

DSP

- New FlexCoherent DSP
- Built on existing coherent toolkit
- Advanced modulation, constellation shaping

PIC

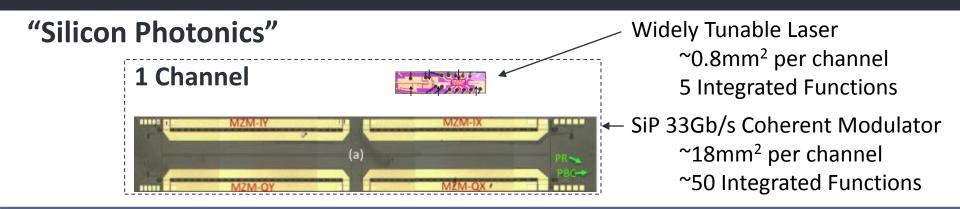
- 6th Generation PIC
- Built on 5th generation
- Prototype devices already in test

Advanced integration and packaging

- Leading the push to 88-100 Gbaud through superior integration
- ▶ 800G+/wave for metro DCI, 2X industry standard target



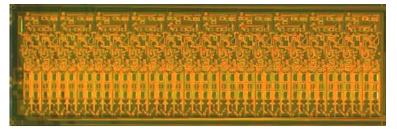
Photonic Integration: Size, Cost & Materials Matter



Infinera PIC

1 Channel

10 Channels



500 Gb/s Transmit PIC
~3mm² per channel
~440 Integrated Functions



Full Vertical Integration Required at High Speed

Requirements at 100Gbaud+

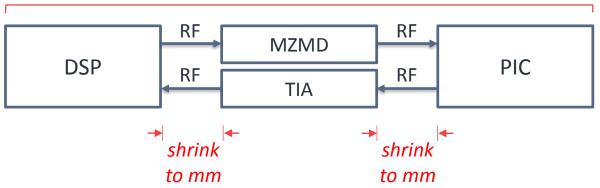
RF signal integrity exponentially hard. Requires:

- Femtosecond timing: Tolerance must be <100 fs (10⁻¹³ sec)
- Millimeter interconnects: Inter-device interconnects must be more robust, shrink to few mm

Conclusion

- DSP & PIC must be co-developed with copackaging in mind
- Full vertical integration is required
- Infinera is best positioned to succeed

Integrate all optical engine components





Integration & Packaging for High Speed

Optical Engine





wirebonding

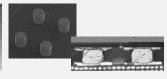




Interposer, >1000 interconnects
First commercial
III-V (InP) IC flip-chip









88+ Gbaud

DSP + PIC

Co-designed, co-packaged, tightly integrated module

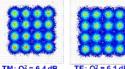


ICE6 & Beyond: Progress & Proof Points (2017)

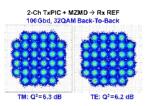


Leading 100 Gbaud Milestones





100 Gbaud 16QAM link 600G over 1400 km

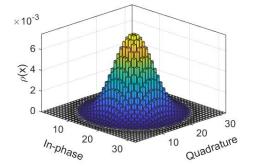


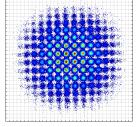
100GBaud 32QAM 800G with path to 1T



Leading-edge Constellation Shaping: CS-1024QAM

- 1.32Tb/s: highest coded bit rate ever reported
- Moving ever closer to Shannon limit
- Effective CS requires next Si node (ICE6 target)









High Speed Checklist: Ad	vantage II	ntinera
	Module	

High Spe	eed Ched	cklist: Ad	vantage	Infinera

vinfinera

Building Blocks In House

Advanced Coherent DSP

Optical engine module

InP photonic integration

24 | © 2018 Infinera Confidential & Proprietary

packaging

InP optics

III-IV IC flip chip

High Speed	Checklist:	Advantage	e Infinera

High Speed Checklist: A	Advantage II	ntinera

Suppliers

X

*

*

X

System Vendors

vinfinera

ligh Speed Checklist: Advantage Infinera
--

High Speed Checklist: Advantage Infinera	
--	--

ligh Speed Checklist: Advantage Infir	nera
---------------------------------------	------

High	ı Speed	d Check	klist: <i>F</i>	Advar	ntage l	Infinera	

High Speed	Checklist:	Advantage	Infinera	
igii speca		ravantabe	era	

Infinera Optical Leadership: Customers Win

Leading Optical Performance

- ICE4 proven performance in the field
- ICE5 leading 600G, world's only 2.4T engine
- ICE6 on track, Infinera positioned to lead



Cloud Scale

Instant Bandwidth, Instant Network Sliceable super-channels, Open ICE, Automation,



The Infinera Experience

Time as a Weapon, World-class quality Customer-centric focus, Simplicity & ease of use





