

CREATING THE LIVING NETWORK™ TOGETHER.

Investor Day 2018
December 10, 2018
NYU Wireless Lab – Brooklyn, NY

INTERDIGITAL®

Forward-Looking Statements

This presentation contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, regarding InterDigital, Inc.'s current beliefs, plans and expectations, as to: (i) future results, projections and trends; (ii) its strategy and business plan; (iii) the company's future revenues and expenses, including its expectations with respect to full year and fourth quarter 2018 revenues and fourth quarter 2018 and first quarter 2019 operating expenses and capitalization costs; (iv) future recurring cost and recurring revenue levels and the timelines for achieving such levels; (v) investments; (vi) partnerships, commercial initiatives and other potential business and revenue opportunities, including through new markets; (vii) technology development timelines; (viii) future global mobile, IoT and consumer electronics device shipments and market opportunities, and; (ix) the company's plans to expand its footprint and engagement strategy. Such statements are subject to the safe harbor created by those sections.

Words such as “anticipate,” “believe,” “estimate,” “expect,” “project,” “intend,” “plan,” “forecast,” “will,” variations of any such words or similar expressions, and graphical timelines representing future estimates or events are intended to identify such forward-looking statements. Forward-looking statements are subject to risks and uncertainties. Actual outcomes could differ materially from those expressed in or anticipated by such forward-looking statements due to a variety of factors, including, without limitation: (i) the market relevance of our technologies; (ii) changes in the needs, availability, pricing and features of competitive technologies as well as those of strategic partners or consumers; (iii) unanticipated technical or resource difficulties or delays related to further development of our technologies; (iv) the entry into additional patent license, patent sales or technology solutions agreements; (v) our ability to successfully identify and launch new commercial businesses; (vi) our ability to successfully identify and expand into new markets; (vii) our ability to enter into partnerships, strategic relationships or complementary investment opportunities on acceptable terms; (viii) the accuracy of market sales projections of the company's licensees, changes in our estimates of fourth quarter 2018 sales by our per-unit licensees, delays in payments from our licensees and related matters; (ix) amounts of royalties payable following routine audits, if any, and the timely receipt of such amounts during fourth quarter 2018; (x) the resolution of current legal proceedings, including any awards or judgments relating to such proceedings, additional legal proceedings, changes in the schedules or costs associated with legal proceedings or adverse rulings in such legal proceedings; (xi) unanticipated costs or expenses; (xii) changes in the company's strategy going forward; and (xiii) changes or inaccuracies in market projections or technology development timelines, as well as other risks and uncertainties, including those detailed in our Annual Report on Form 10-K for the year ended December 31, 2017, our 2018 Quarterly Reports on Form 10-Q, and from time to time in our other Securities and Exchange Commission filings. We undertake no duty to update publicly any forward-looking statement, whether as a result of new information, future events or otherwise, except as may be required by applicable law, regulation or other competent legal authority.

CREATING THE LIVING NETWORK™ TOGETHER.

Investor Day 2018

December 10, 2018

... a brief introduction and a few demos

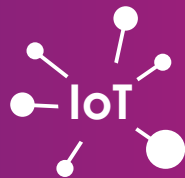
INTERDIGITAL®

InterDigital Labs

**A world-class R&D lab
that drives InterDigital's
technology development
and is a respected
participant in international
standards & industry activities**

5G

**Video
Coding**



**Consumer
Electronics**

In Our Labs

- 5G & Beyond Cellular Standards
- Wi-Fi Standards
- IoT Standards & Platforms
- mmW Access and Transport Systems
- Spectrum Sharing & Unlicensed Spectrum
- Artificial Intelligence / Machine Learning
- Advanced Video Standards & Platforms
- Mobile Edge Computing
- Service-based Architectures
- Navigation and Localization
- Intelligent & Autonomous Vehicles
- Drones / UAVs / Robotics

Edge Computing

5G promises ultra broadband connectivity and extremely low latency.
To achieve this without extreme network bottlenecks and huge network infrastructure **you simply need to be close to the users...**
...and running a service-based architecture on **low-cost IT-like hardware.**



**High Quality
Video Delivery**



Real Time Analytics



**Autonomous &
Assisted Driving**



Interactive Gaming



Industrial IoT



**Bulk Device
Maintenance & Upgrades**



Virtual Reality



**Real Time Control
Systems**

EdgeLink™ – Millimeter Wave Mesh Networking

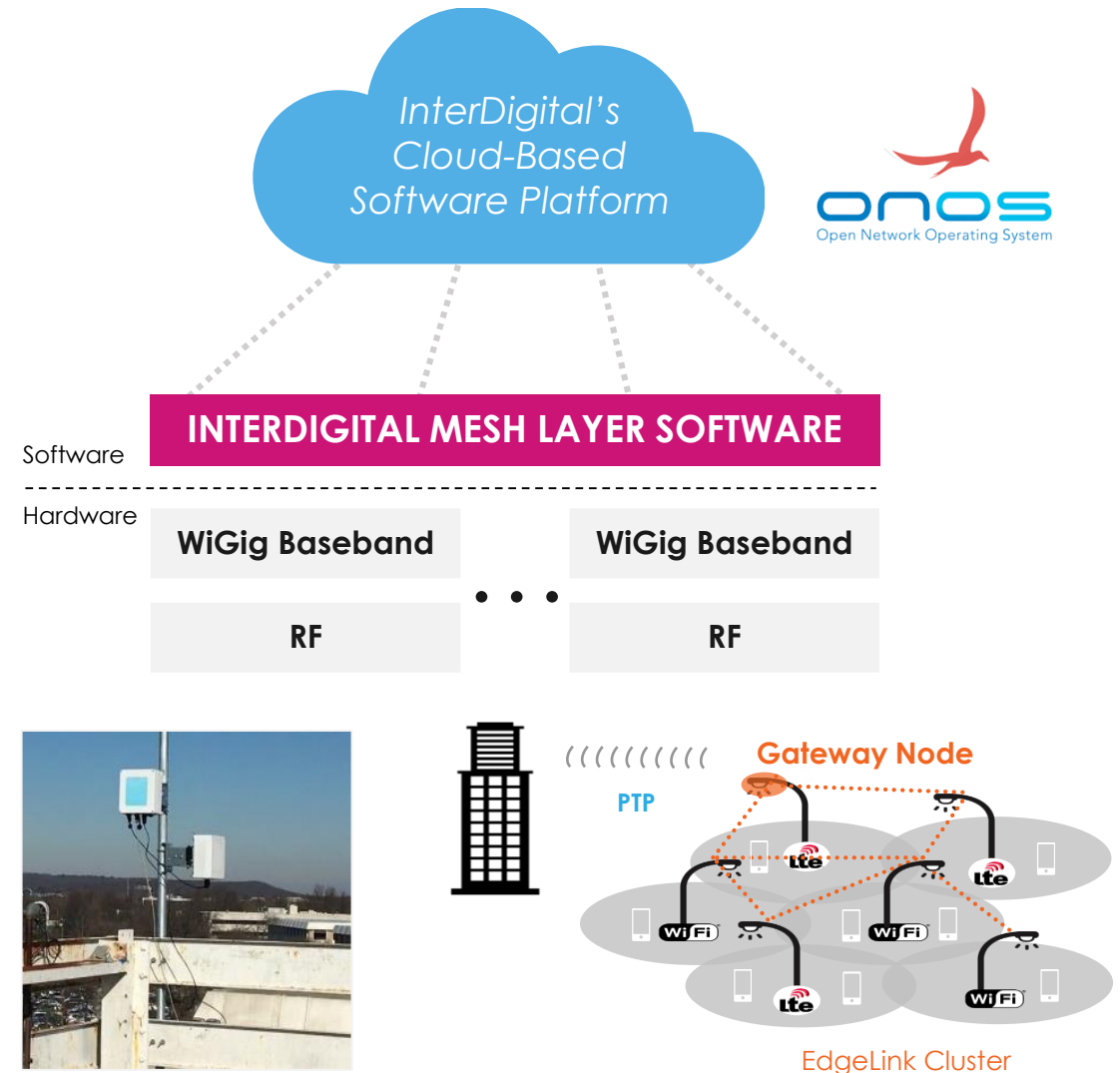
ID

SDN-based Multi-Hop Mesh Network Composed of Gigabit, Low-Latency Millimeter Wave Links

- 60GHz Spectrum with high-gain antennas
- Multi-tenant, multi-service level transport slice management
- Mesh topology for fault tolerance and availability

Key System Components:

- [Multi-Sector Mesh Node](#) using WiGig physical layer
- [Mesh Software Agent](#) provides local node control
- [Mesh Controller](#) provides control and management function to mesh network to maintain Transport Slice Service Level requirements

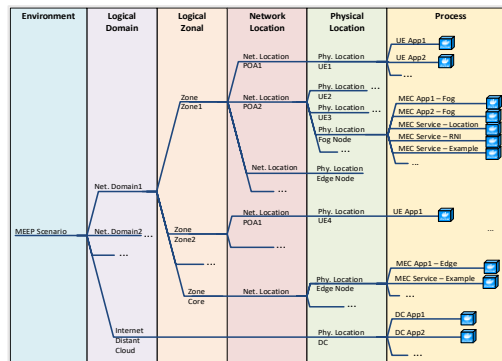
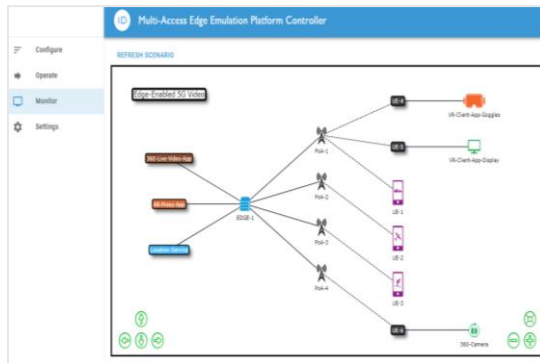


5G Edge – Mission Critical Automation Demonstration

InterDigital AdvantEDGE™

Mobile Edge Emulation Platform

- Agile **experimentation and validation environment** for Edge applications and services
- Ideal platform for use by Edge application developers, system architects, and researchers



InterDigital UTM System

UAV (Drone) Traffic Management (UTM) deployed in AdvantEDGE™

- A drone revolution has begun, and 5G Edge technology enables **safer, untethered, autonomous** operation
- Mobile Edge Computing with 5G Wireless is an ideal solution for mission critical applications, such as UTM and collision avoidance



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INTERDIGITAL®



Agenda

- InterDigital Transformed – Bill Merritt
 - Broader Technology Platform
 - Large New Markets
 - Strengthened Management Team
 - Same DNA
- Driving Deals, Driving Value – Kai Öistämö
 - Innovation Excellence
 - Closer Customer Engagement
- Financial Discipline – Rich Brezski
 - Revenue Strength
 - Cost Discipline

Why InterDigital, *More than Ever*

Invention, Collaboration & Contribution



Over four decades of pioneering wireless innovation



Now combined with a portfolio reflecting decades of fundamental video expertise



Brought to market through substantial contributions to global standards

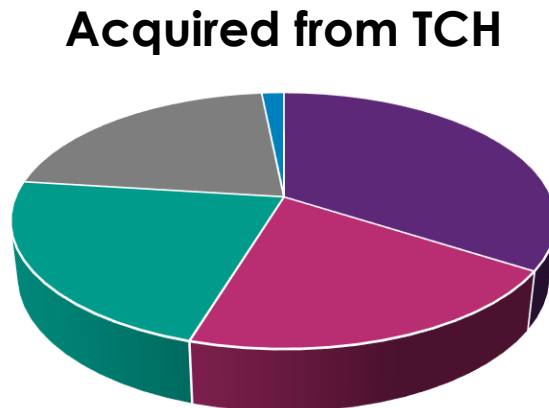
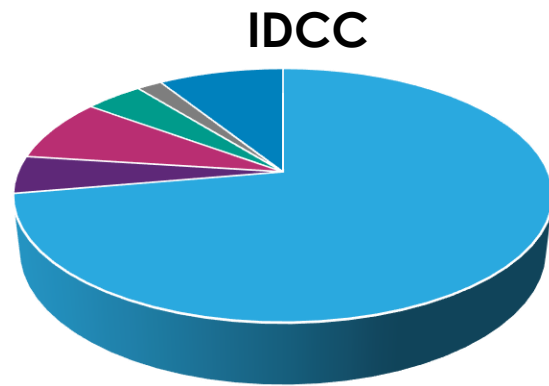


That drive a more powerful consumer experience



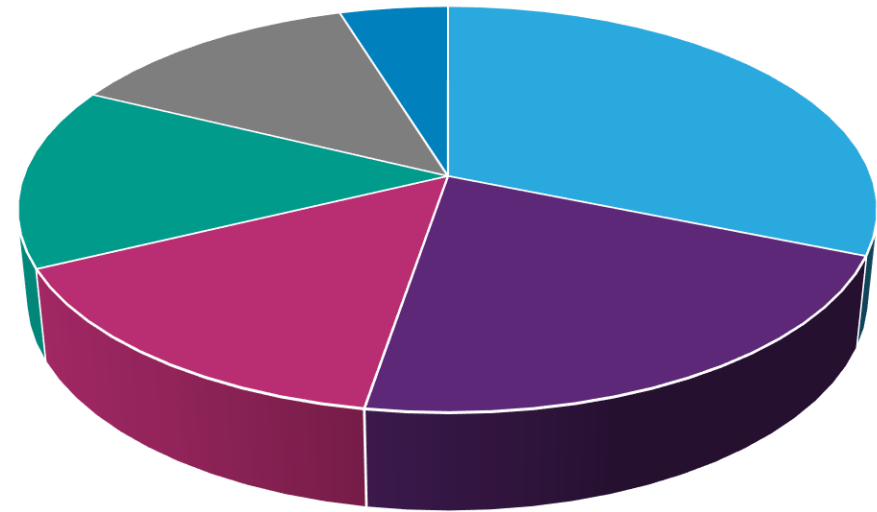
With our contributions protected by one of largest patent portfolios in the world related to wireless and video technologies

A Portfolio that Combines Depth and Breadth Across Technologies



The InterDigital portfolio now brings together **>36,000 patent assets** that show enormous strength in key wireless and video technologies but also broad diversity across the entire gamut of technology needs.

- Cellular (incl. 3G, 4G, and 5G)
- Video
- Apps & Services
- Device Hardware/Software
- Networking
- WiFi



Contributing Technology Worldwide on Two Major Fronts

Deep wireless
engagement...

1,000+
contributions
to 3GPP



\$1B+
invested in
R&D since
2000

~100

technical papers
& presentations
submitted to
peer-reviewed
conferences &
publications in
2017 alone



In the last decade,
our engineers
attended hundreds
of global industry
conferences

+ a video portfolio
that reflects:

>50/yr

journal and
conference
papers published

>100/yr

contributions to
standards bodies

25+ years

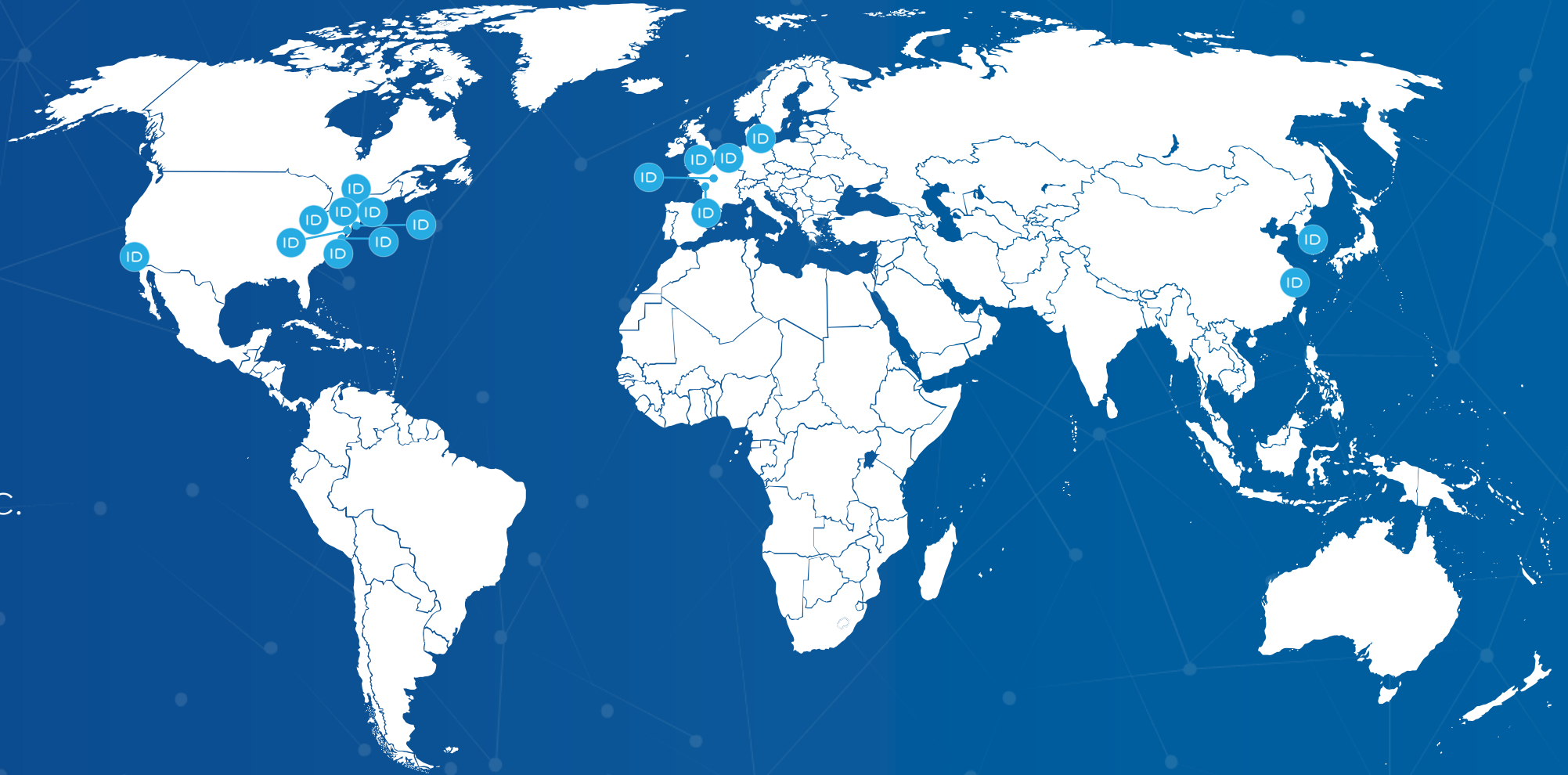
of experience in
video compression
solutions

2018: A Global Footprint

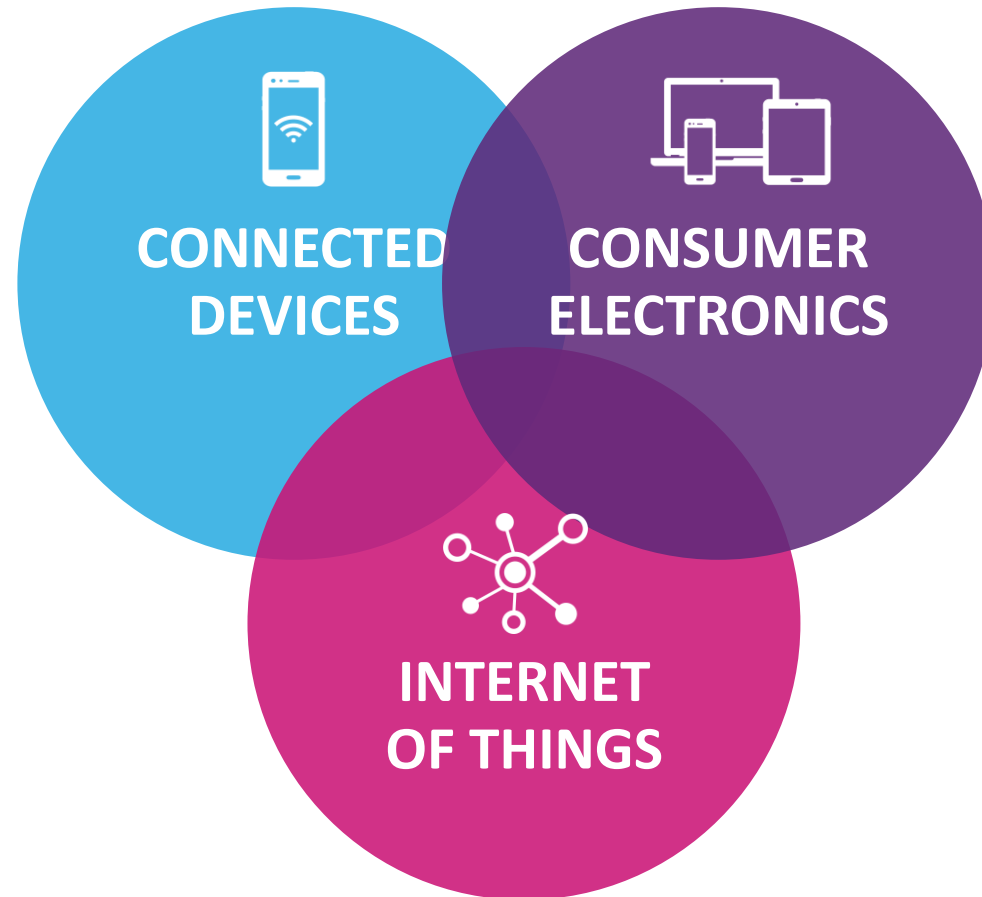
ID



- California
- New York
- Pennsylvania
- Montreal
- Berlin
- Brussels
- Delaware
- Maryland
- Washington, D.C.
- London
- Shanghai
- New Jersey
- Paris
- Indiana
- Rennes
- Seoul



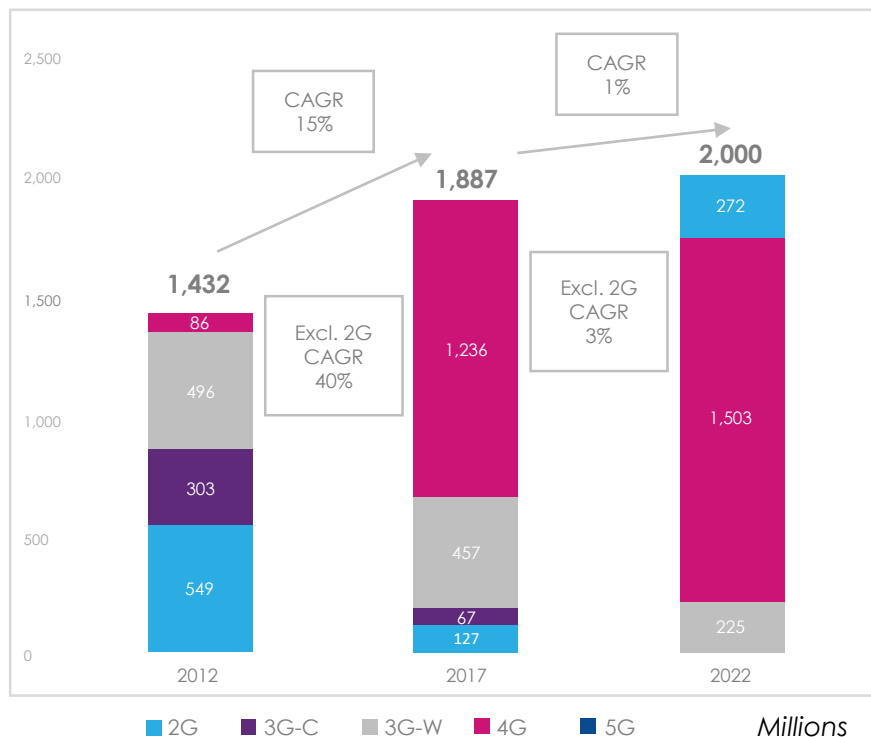
Two Tech Footprints, Driving Three Interconnected Licensing Opportunities



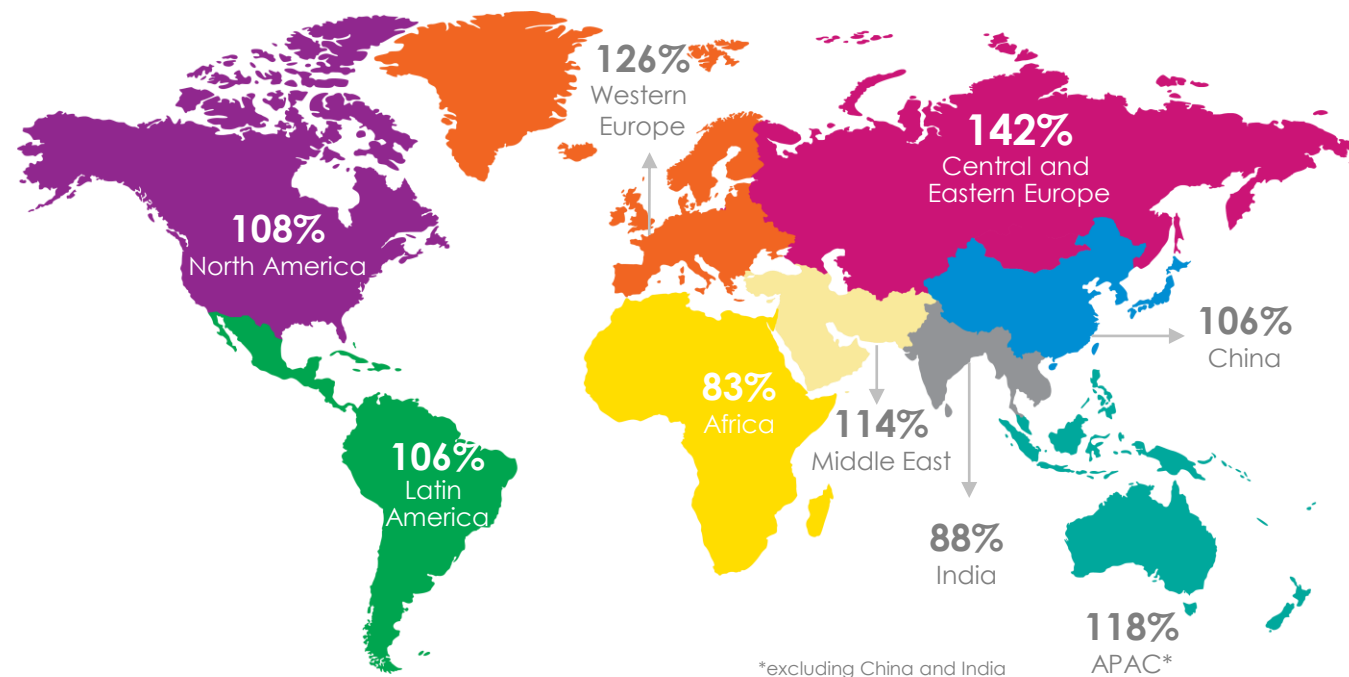
Handset Shipments – Slowing Growth But at Significant Altitude



Worldwide Handset Shipments

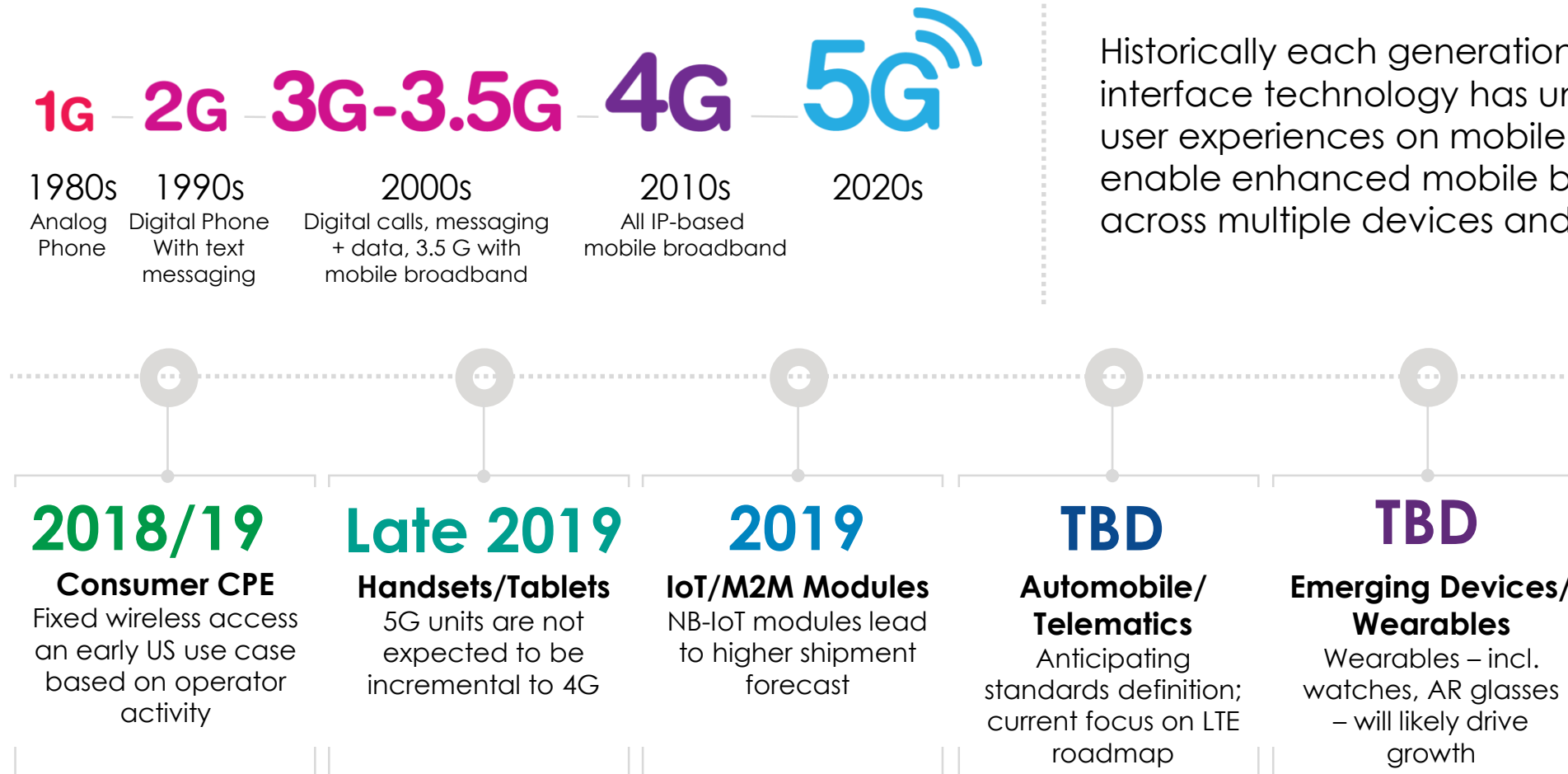


Subscription Penetration - Q1 18 (% of population)



Source: IHS (Q1 18) and Ericsson Mobility Report (Q2 18)

Wearables and 5G Penetration Drive New Volume



Historically each generation of air interface technology has unlocked new user experiences on mobile. 5G will enable enhanced mobile broadband across multiple devices and platforms

Source: ABI Research, IHS Markit

5G – More Opportunity than Previous Generations



“**Private 5G networks** could also create a huge market for technology companies that manage these networks or sell related devices... Harbor Research, a US-based research and consulting firm that specializes in IoT analysis, estimates that the market will grow approximately **30% a year through 2028**, when it will generate **\$356 billion**.”

- **MIT Technology Review (Nov. 28, 2018)**

“5G fixed broadband access is expected to enable robust services with a reliable capacity to meet the need of residential broadband users. 5G technology can support a theoretical speed up to 20 Gbps with latency [of] 1 ms, enabling operators to **provide superior broadband access without installing fiber-optic cables** to every single household.”

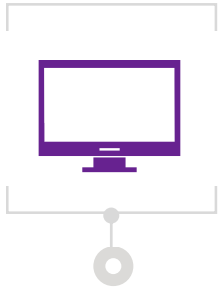
- **ABI Research analyst Khin Sandi Lynn (Apr. 25, 2018)**

“We know that 5G will bring with it a massive increase in mobile network speed, capacity, and reliability. There will be many use cases for this, but VR and AR in particular are set to evolve to the next level... ABI Research estimates the total AR market will reach **\$114 billion by 2021**, while the total VR market will reach **\$65 billion** within the same timeframe.”

- **Jon Mundy, 5GUK**

Consumer Electronics:

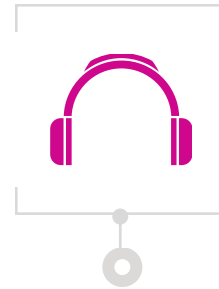
With New Scale Comes New Opportunity



Vision

- TV Displays and Computer Display Monitors
- Set Top Boxes, Media Adaptors, Streamers
- Game Consoles
- Consumer PCs

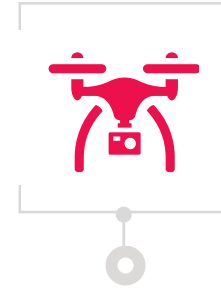
~850M Device Shipments



Audio

- Wireless Speakers / Smart Assistants
- Soundbars
- Hi-Fi, AV Receivers, Loudspeakers
- Wireless headphones

~500M Device Shipments



IoT / Other

- Wearable Devices
- Imaging
 - Cameras / Camcorders
 - Drones
- Smart Home

~750M+ Device Shipments

Markets totaling **\$400B** with a history of licensing, that represent greenfield opportunities for InterDigital

2017 shipment data: ABI Research – Device Forecasts; Futuresource Worldwide Consumer Electronics Update, October 2018

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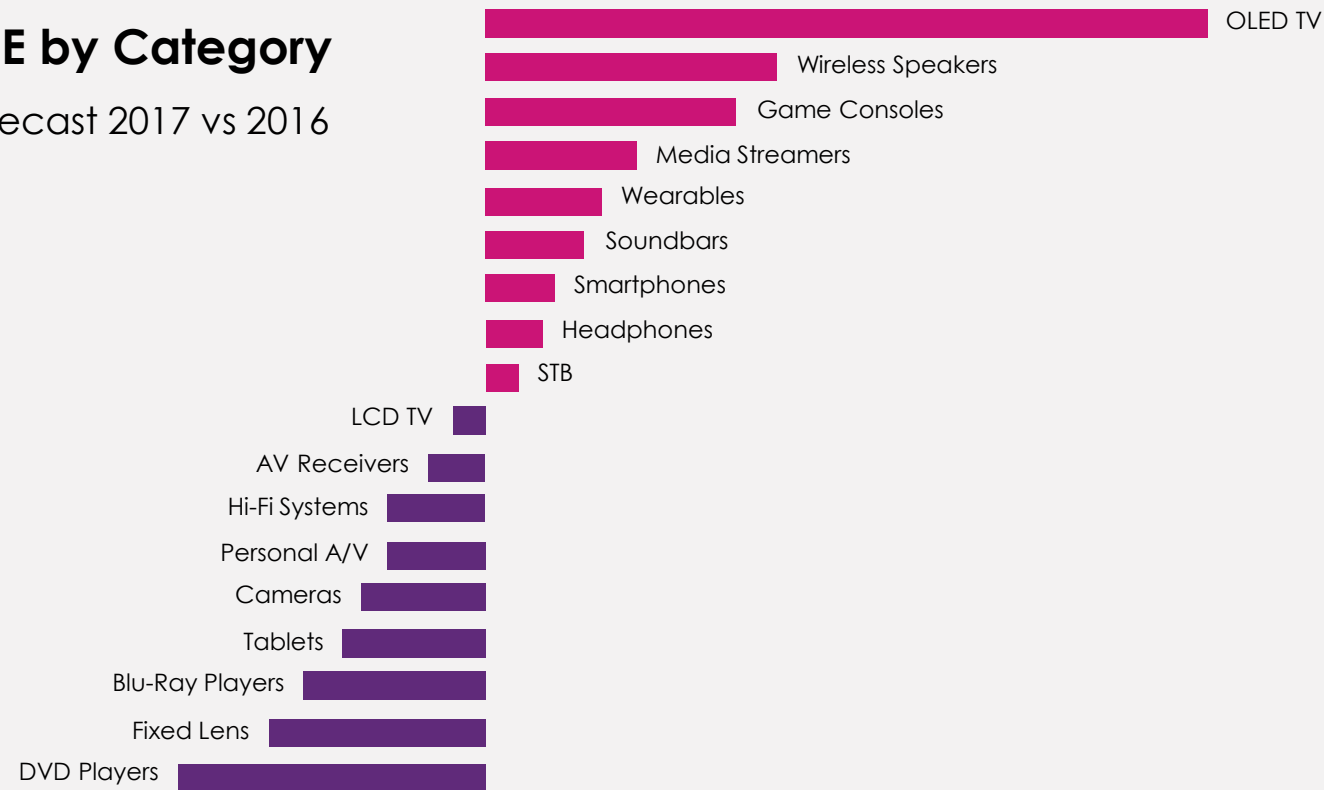
With License to Play Based on Position in Key Technologies

	TVs	STBs	Gateway / Router	OTT Devices	Game Consoles	Cameras	Drones	Wearables	Smart Assistant	Smart Home
Cellular		✓	✓				✓	✓		✓
WiFi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Audio	✓	✓	✓	✓	✓	✓		✓	✓	✓
Video	✓	✓	✓	✓	✓	✓			✓	✓
Display	✓					✓		✓	✓	✓
Battery					✓	✓	✓	✓		✓
Speech	✓	✓		✓	✓			✓	✓	✓
AI/ML	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Imaging	✓				✓	✓	✓	✓	✓	✓

Video and Wireless – the Keys to the Growing Segments of the CE Space

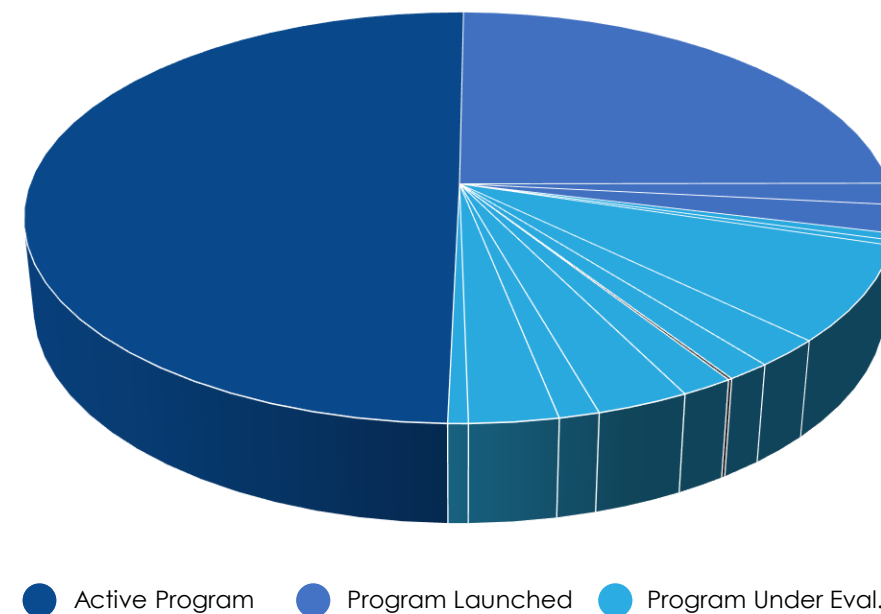
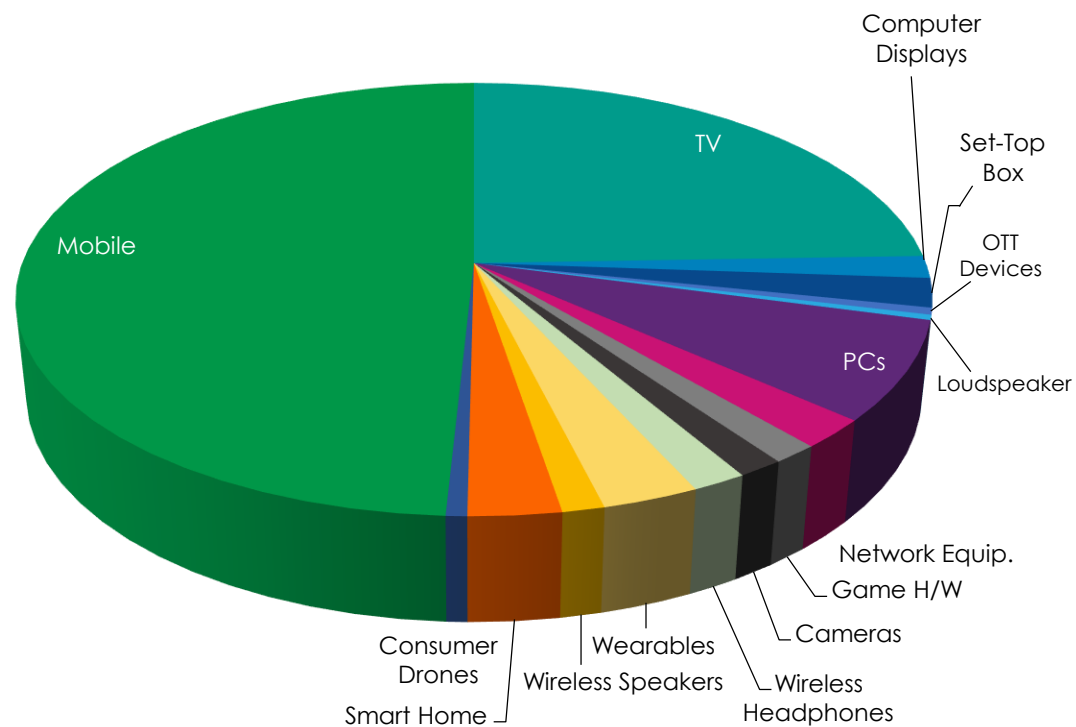
Winners & Losers in CE by Category

Worldwide Unit Growth Forecast 2017 vs 2016



Data: Futuresource Worldwide Consumer Electronics Update, October 2018

An ~\$800B Market That We've Already Begun to License



Source: Futuresource Worldwide Consumer Electronics Update, October 2018

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IoT Connectivity – An Expanding Market



Despite slower-than-expected start, IoT market expected to reach installed base of **>62B devices by 2022...**

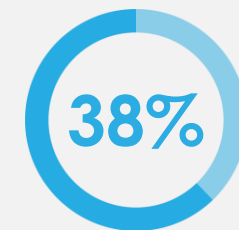


with cellular technologies topping **7B devices** including:

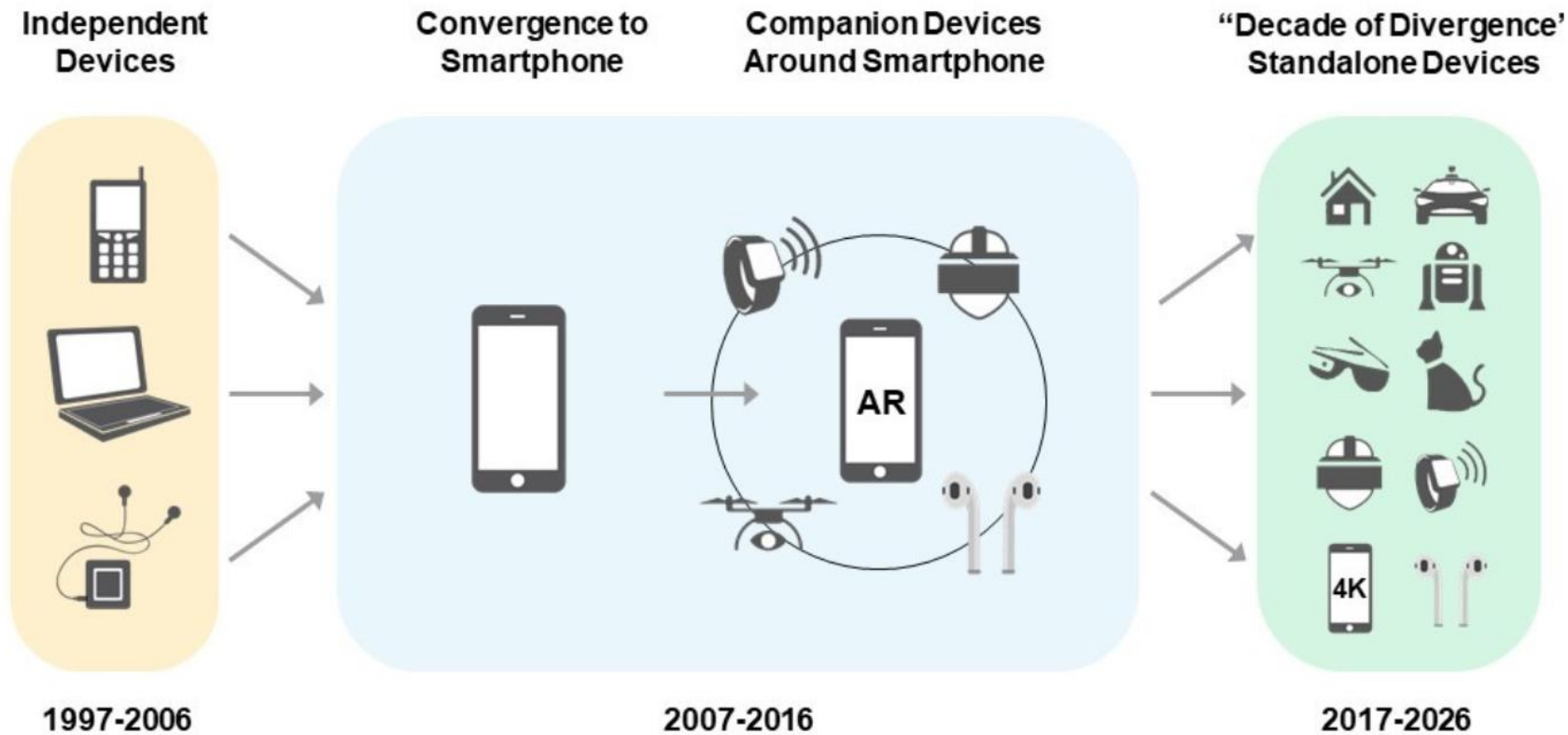
- **585M** connected cars, **22% CAGR** (2017-2022)
- **345M** retail/supply chain devices, **44% CAGR** (2017-2022)
- **26M** smart buildings, **34% CAGR** (2017-2022)
- **>100M** smart home devices, **31% CAGR** (2017-2022)
- **>300M** devices in utilities/industrial IoT, **27% CAGR** (2017-2022)



Average
2017-2022 CAGR
of all cellular IoT
markets outside
mobile devices:



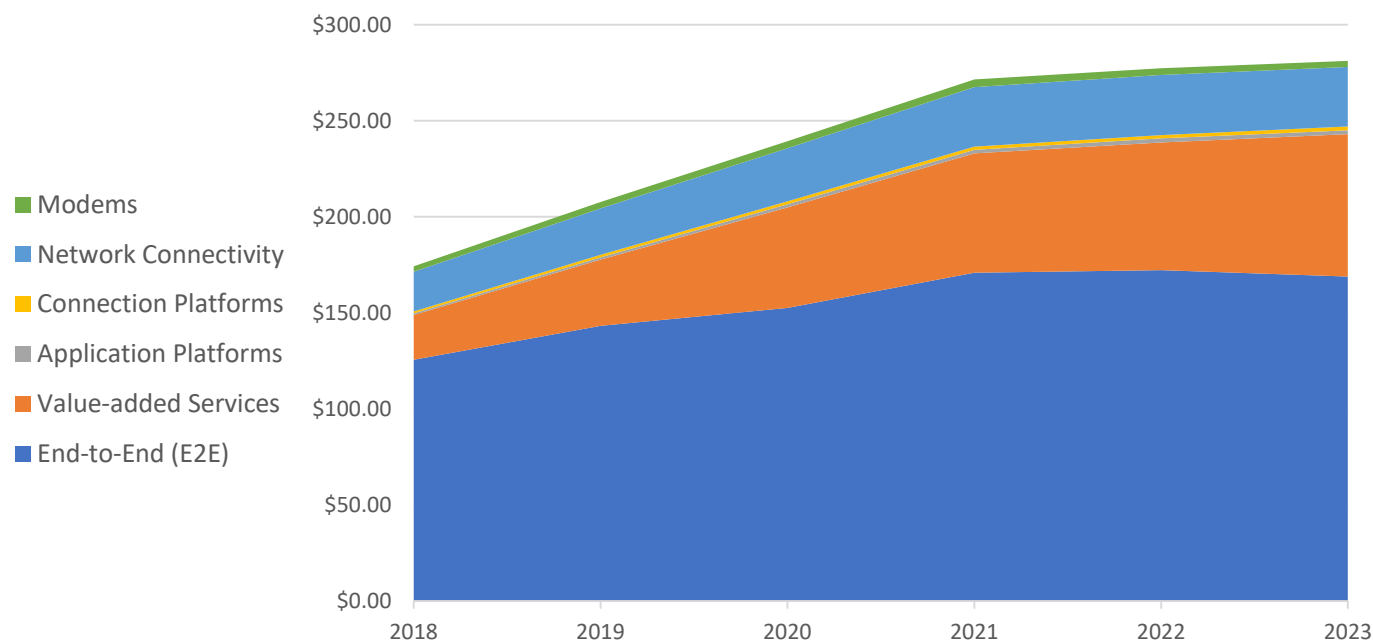
The Rise of the Synchronized Device Landscape Extends Wireless Opportunity



Source: Jefferson Wang, IBB Consulting, 9/18/17

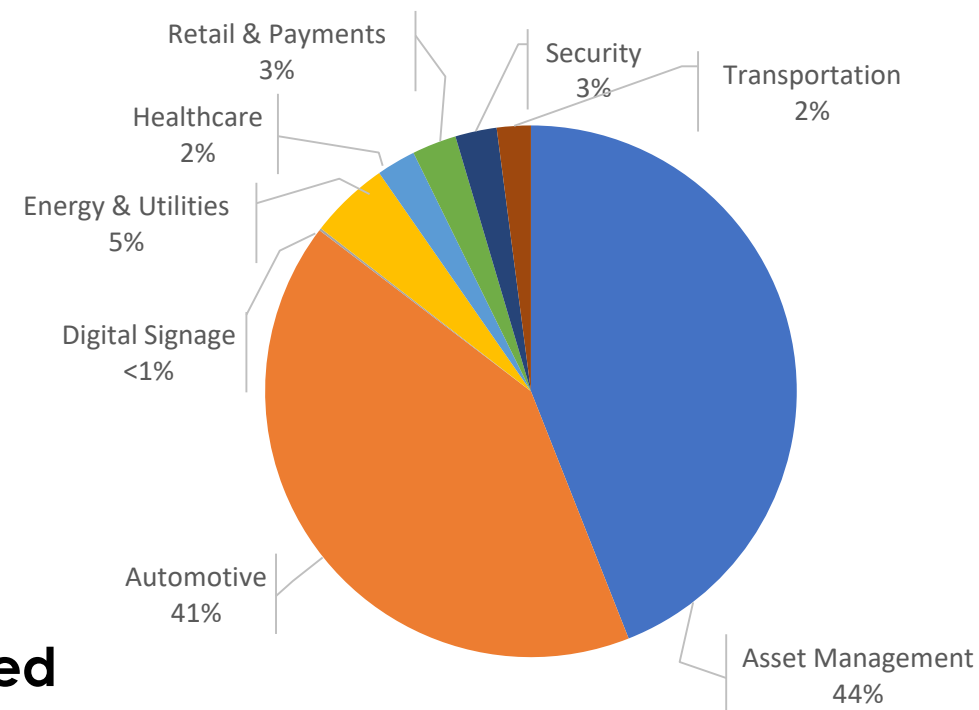
Massive New Services Opportunity Breaks the Connectivity-Only Revenue Model

Operator IoT TAM by Value Chain (B)



10% CAGR, with 26% CAGR in Value-Added Services, to a \$281.3B market in 2023

2023 Operator IoT TAM by Vertical (B)



Data: IHS Markit Cellular IoT Market Tracker, Q1 2018

Growth Drivers that Build Logically Over Several Years

ID

Expected
2018
Revenue
of **\$302-
308M***



*As of fourth quarter guidance
press release issued Dec. 10, 2018

Drive recurring
annual
revenue base
to **\$500M**



Build licensing
base in **\$400B**
market



An installed base of
>62B devices by
2022, of which
>10% will be high-
value devices using
cellular, as well as
IoT middleware

5G

**A new market
paradigm**, that
expands cellular
wireless into a broad
variety of areas and
use cases

A C-Suite and Board... Transformed



Bill Merritt
CEO



Kai Öistämö
COO
23-year career at Nokia,
including leading
Devices/Handsets business



Eric Cohen
Chief Development Off.
Former SVP of Corporate
Development, Dolby Labs



Dr. Henry Tirri
CTO
Former CTO at Nokia,
Harman



Jeffrey Belk
EVP, Bus. Dev.
Former SVP, Strategy at
Qualcomm



Rich Brezski
CFO
Ex. PWC, 15 years
at InterDigital



Jannie Lau
Chief Legal Off.
10 years at Inter-
Digital, ex. IKON



Tim Berghuis
Chief Licensing Off.
30 yrs in wireless,
ex-Motorola



Nicole Kahny
CHRO
Ex-AirGas, Viacom
Lockheed Martin



Jim Nolan
EVP, Products
22 yrs at IDCC.
Former head of
Labs



Dr. R. DiFazio
VP, Labs
30+ yrs in mobile,
IDCC since '01,
ex-BAE



Patrick Van de Wille
CCO
30+ yrs in comms.,
former SVP, FTI
Consulting

...and a Board of Tech and Industry Leaders

- **Doug Hutcheson**
(ex. Leap Wireless)
- **Joan Gillman**
(ex. Time Warner Cable)
- **John Kritzmacher**
(John Wiley & Sons)
- **Jay Markley**
(Director, Charter Communications)
- **Jean Rankin**
(ex. LSI Corporation)
- **Phil Trahanas**
(ex. General Atlantic, Morgan Stanley, GE)

The Living Network™

Continuing to Guide R&D and Investments



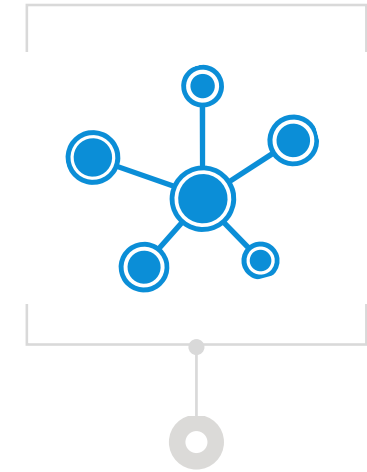
CONTENT

What type of data, for what purpose and with what security & quality requirements?



CONTEXT

What is the situation and need, and how does that impact connectivity and content delivery?



CONNECTIVITY

What network, devices and assets can be deployed to ensure a constant flow of meaningful data?



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 - Large New Markets
 - Strengthened Management Team
 - Same DNA
- Driving Deals, Driving Value – Kai Öistämö
 - Innovation Excellence
 - Closer Customer Engagement
- Financial Discipline – Rich Brezski
 - Revenue Strength
 - Cost Discipline

Consistent Leadership in Major Cellular Standards

In studies by third-party analysts we're aware of since 2012 that have evaluated the share of patents and applications that are likely essential to **3G** and/or **4G** standards...



InterDigital appeared in the **top 3** among patent holders **more than 70%** of the time – tied for the **highest percentage** of any company



InterDigital's share of likely LTE SEPs **ranges from 7% – 10%**,

and averages **more than 8%** across these studies,



with InterDigital's LTE portfolio ranked between the **second and fifth strongest** in the industry.

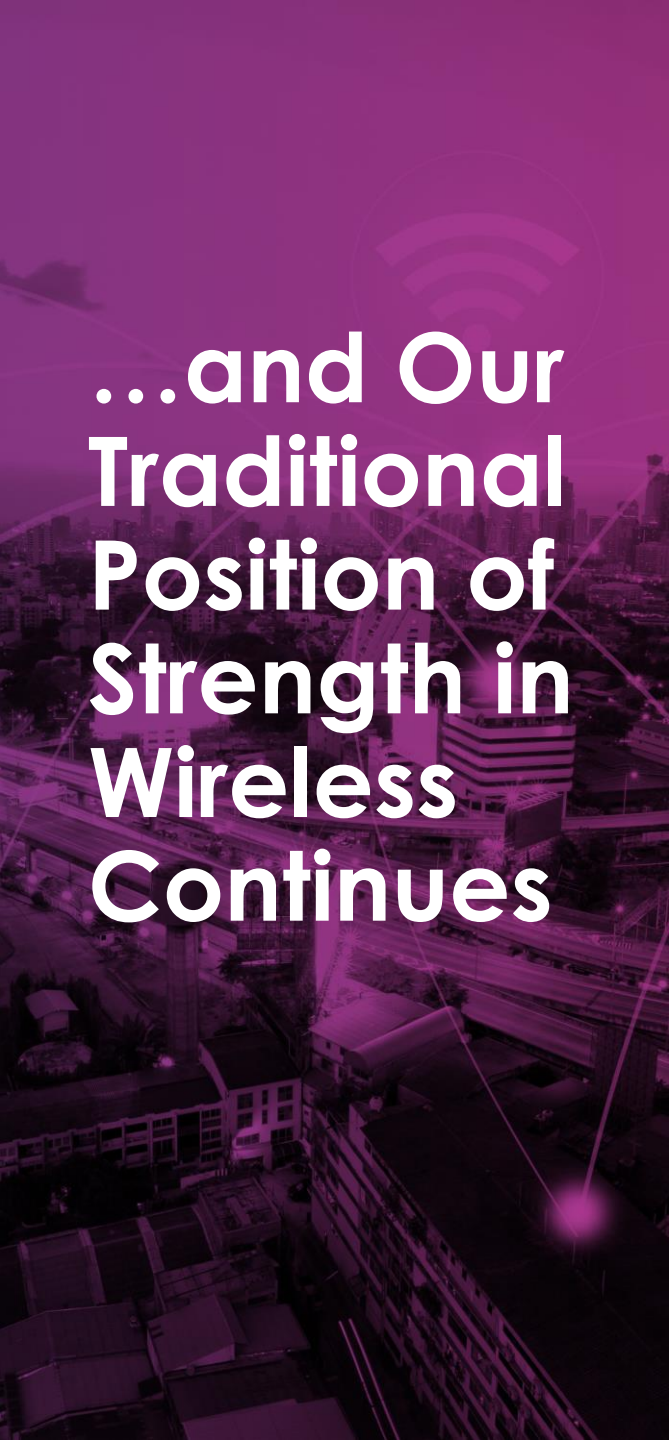


InterDigital's share of likely 3G SEPs **averages close to 10%**,



and our 3G SEP portfolio was ranked as either the **second or third strongest among all industry participants.**

InterDigital did not fund any of these studies. InterDigital does not endorse any particular study or the methodology used by any of these studies, nor does InterDigital endorse a patent counting approach to determining the value of its portfolio and does not subscribe to the idea that all SEPs have an equal value.



...and Our Traditional Position of Strength in Wireless Continues

- One of the strongest portfolios in the industry, with >10,000 assets related to 3GPP cellular technologies alone
- 3G covers all major deployed standards including WCDMA high speed downlink and uplink packet access, HSPA(+)
- 4G covers all currently deployed standards including LTE and LTE-Advanced plus LTE-A Pro (future standards)
 - Dynamic scheduling
 - MIMO
 - Carrier Aggregation
 - LTE-U (unlicensed spectrum)
 - Vehicle to Vehicle communications
- 5G includes R15 (first release) for both NR (New Radio) and LTE and newer filings directed to R16
- WiFi includes coverage of 802.11n, 802.11ac and future standards such as 802.11ax/ay

A Recent History of 5G Innovation

2014

World's 1st
WiGig-based
mesh backhaul
technology
unveiled

2016

World's 1st
long-term demo
of integrated
fronthaul/
backhaul

2016

World's 1st
successful trial of
IP-over-ICN-over-
SDN demo

2017

Invited by GSMA
to present on
mainstage at
MWC, alongside
Intel and Ericsson

2017

World's 1st
successful mobile
edge computing
5G network
architecture trial

2018

World's 1st
demonstration of
service-based 5G
control plane

Demonstration of
new service
framework that will
enable operators
to move to a
cloud-native
deployment of
mobile networks



TCH Portfolio Makes InterDigital Instant Player in Video

ID

Combined ~8,000 assets, with approximately 1/3 covering standards-based technologies

Covers various video standards technologies including:

- H.265 (High Efficiency Video Coding) and H.264
- Main profiles, Scalable (SHVC), Multi-view (MV-HEVC), 3D



Digital TV (ATSC, DTV, DVB)



Real-time video streaming



Broadcast



HDR (High Dynamic Range)

Rapid Expansion of Avenues for Engagement with Customers



Restructuring our approach, and expanding our footprint and engagement strategy where our customers are

- All customer engagement – Labs, licensing, partnerships, etc. – now key area under new COO with customer-side experience
- Launch of business development and research office in Shanghai and planned expansion to Beijing
- Engaging with Chinese universities for sponsored research
- Engaging with sophisticated and growing Chinese IP community
- Sony: a model for licensing and research partnership

Video Now Joins Wireless as an Avenue for Research Engagement



- Next-gen video coding
- H.266 and MPEG-Immersive, including Point cloud compression and Omnidirectional media format (OMAF), enabling user-directed video experiences
- Light fields and associated VR/AR/MR applications
- Image processing to preserve or enhance image quality
- Digital TV—streaming, communications & new user experiences
- High-dynamic range (HDR)
- State-of-the-art video platform development



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Revenue Base Built on a Broad Range of Customer Relationships

Currently license



of all smartphones shipped worldwide



Including the
TOP 3 VENDORS

~\$660M

OF CONTRACTED CASH RECEIPTS THROUGH 2022
not including additional licenses or per-unit payments



of the 60+ licenses & amendments we've signed in the past 10 years were achieved through bilateral negotiation alone



SONY



Panasonic

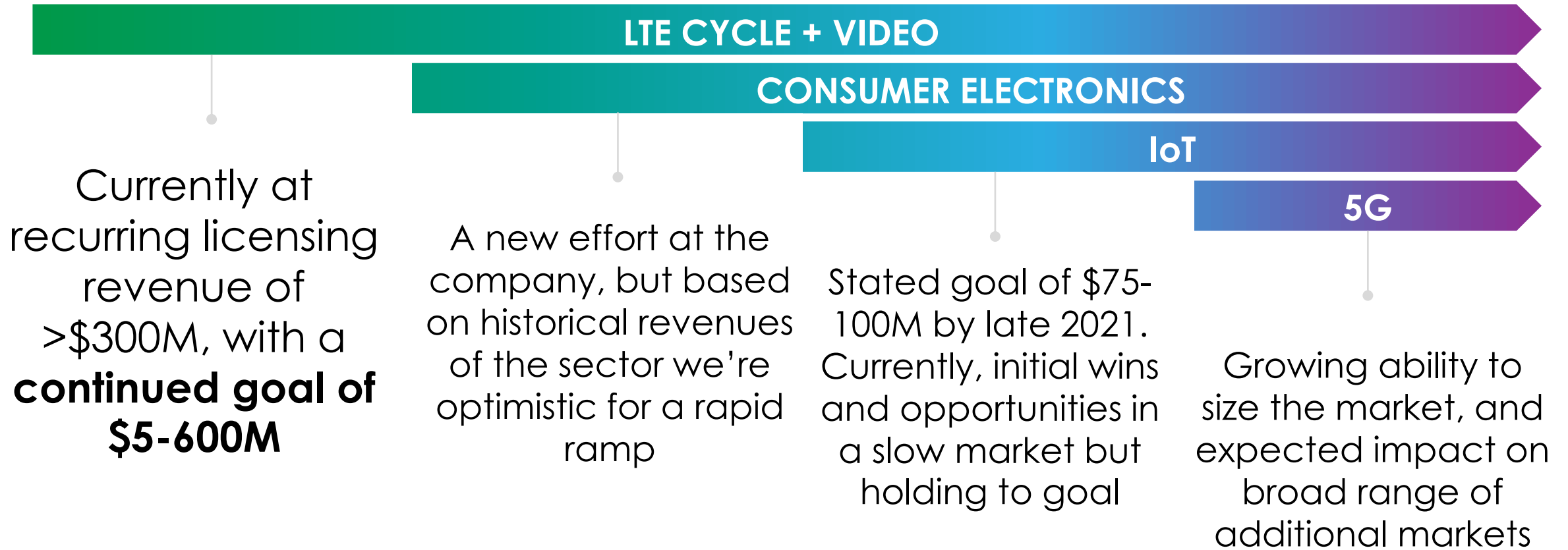
SHARP

FUJITSU



Diligent Goal-Tracking Across All Our Programs

ID



Post-Acquisition Recurring Costs



Our Q3 '18 recurring costs were **<\$1 million** above our 2017 run rate.

Q3 reflected only two months of the acquired Technicolor Patent Licensing Business

	2017	Q3 '18
Operating Expense	\$ 231.4	62.2
Capitalized Prosecution	34.9	9.3
Less Depreciation & Amortization	-56.8	-17.5
Less Litigation	-15.7	-4.6
	<u>\$193.8</u>	<u>\$49.4</u>
Quarterly Run Rate	\$48.5	\$0.9

millions

The Transition



We expect to incur an additional **\$5 - \$10 million** of operating expenses and capitalized prosecution costs above Q3 levels in Q4 '18 and Q1 '19.



By **April 2019**, we expect to see our recurring cost levels begin to come back down, and we remain committed to returning to the 2017 level.



We currently expect to do so within the original timeline of no more than **18 months** post close, though exact timing is a little less certain.

A Straightforward Path to Get There



Portfolio pruning will result in a less expensive portfolio that is bigger than either, better than both



Funding internal and external video research by redirecting research dollars that we already focused on non-wireless technologies



Some redundancy in G&A

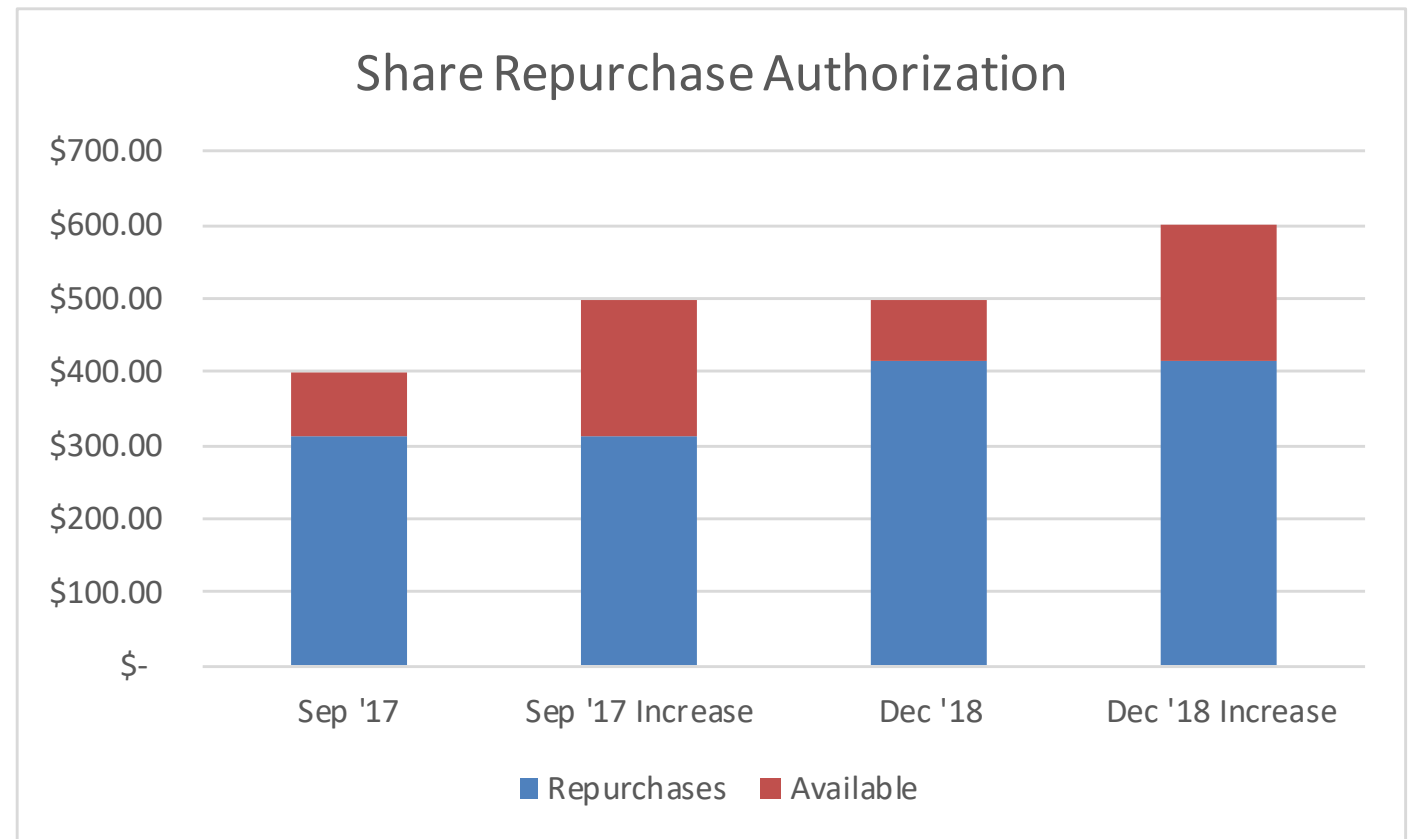


Our partners will share some responsibility for our costs



Continuing Our Practice of Returning Value to Shareholders

- Since July 1, 2018, we have invested approximately \$80 million to repurchase more than one million shares
- We have announced another \$100 million increase to the authorization increasing the available amount to \$187 million



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