

LET'S SEE
WHAT
DEVELOPS.

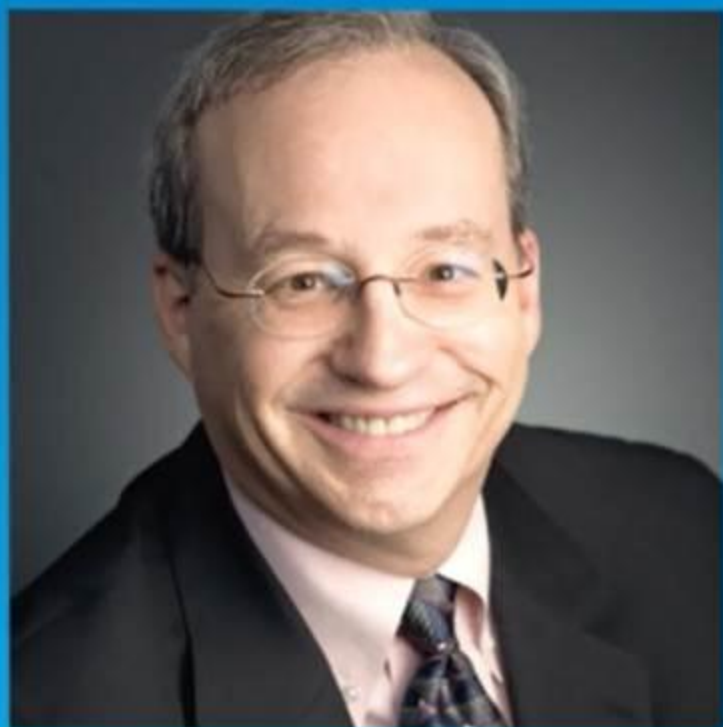
IDF2013

INTEL DEVELOPER FORUM



Sponsors of Tomorrow.™





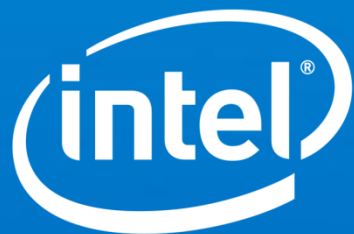
Justin Rattner

Chief Technology Officer
Intel Corporation



IDF2013
英特尔信息技术峰会

Architecting the Future of Computing



英特尔®与你共创明天™



Architecting the Future of Computing

Delivering a Whole New Class of User Experiences

Enabling Sustainable
& Connected Cities



Enhancing the
Mobile Experience



Exploring The
Data Society



Enabling Sustainable & Connected Cities



The Needs of the Sustainable City

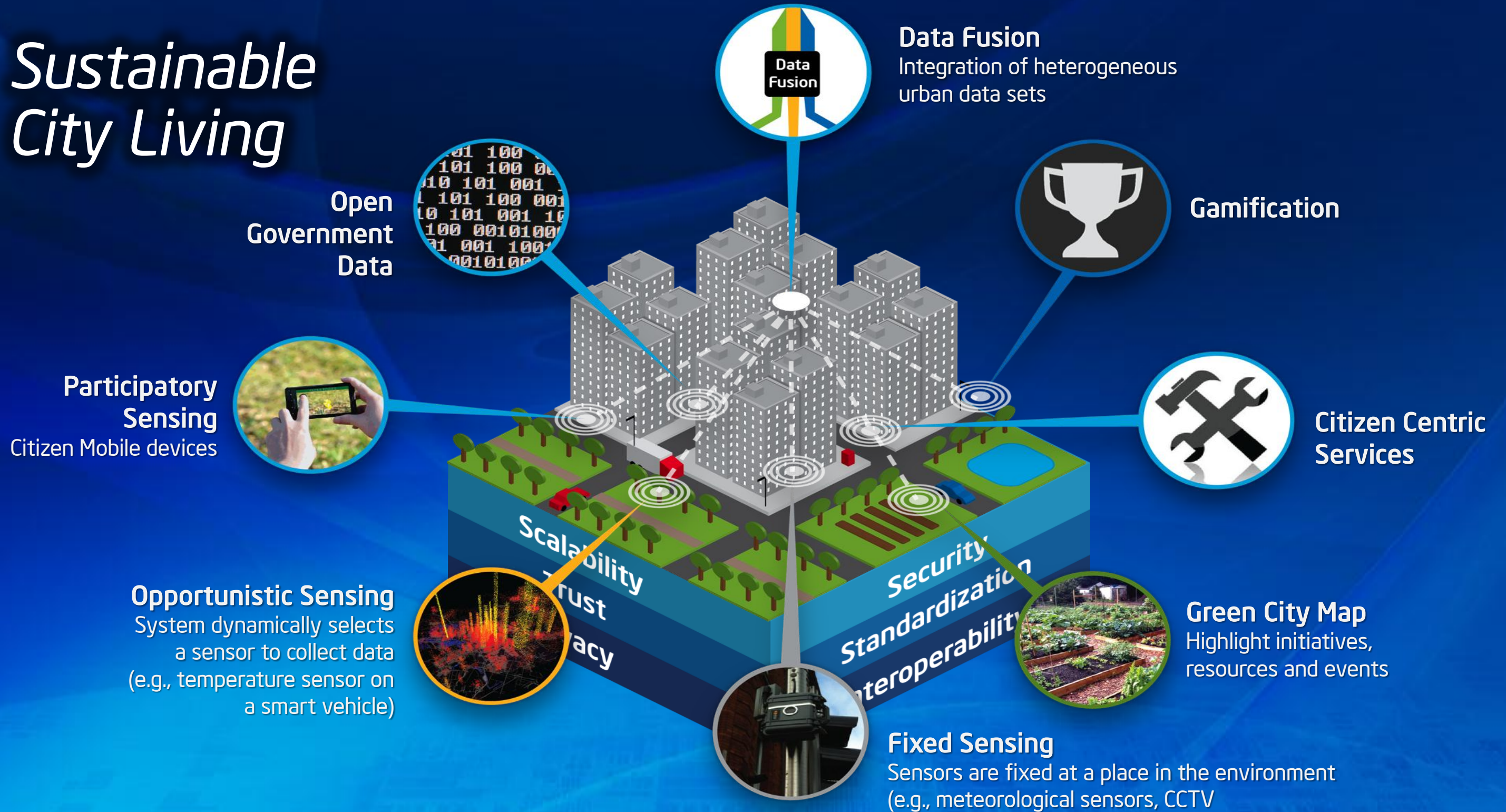
Research for a Better Life





Jessica McCarthy
Senior Research Scientist
Intel Labs Europe

Sustainable City Living



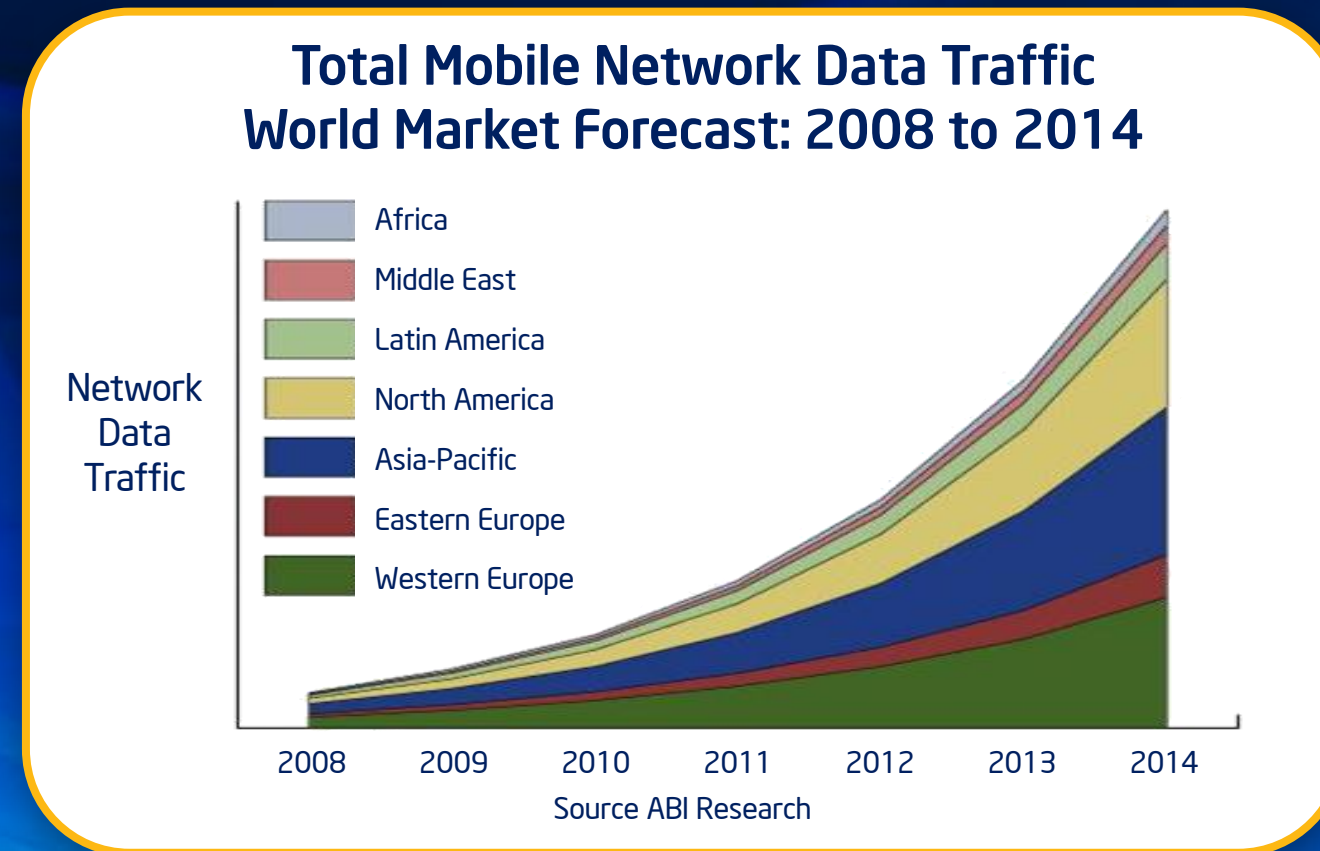
Enhancing the Mobile Experience



The Urban Experience is Mobile



Global Network Demands Outpacing Capacity



Software is Key to Redefining Broadband Capabilities



Jesse Fang
Vice President
Managing Director
Intel Labs China

Architecting the Future of Mobile Networks

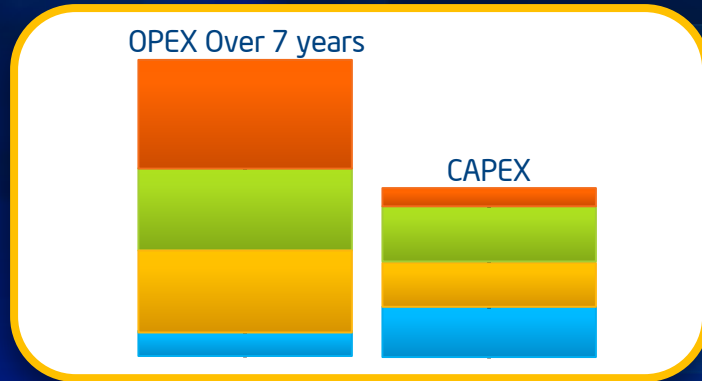


*Collaboration
with
China Mobile
Research Institute*



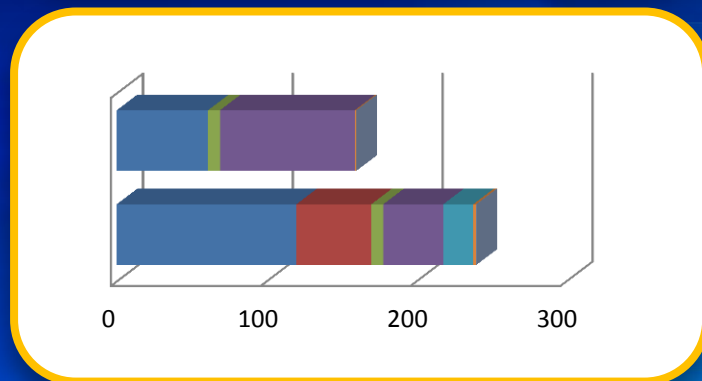
Forging Critical Partnerships in China

Benefits of C-RAN vs. Traditional RAN



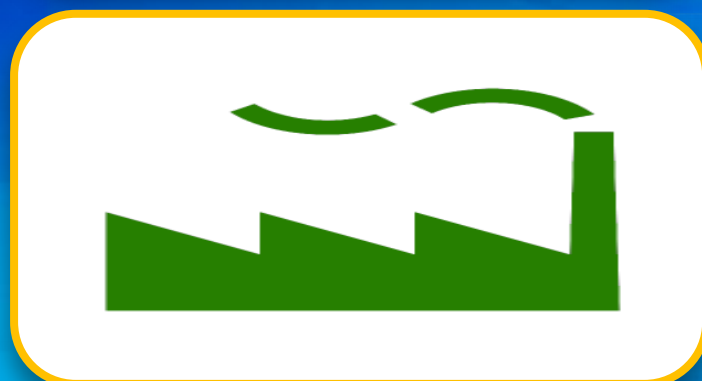
Lower CAPEX and OPEX

Save up to 15% CAPEX and 50% OPEX compared to distributed BTS 3G network*



Faster System Roll Out

Due to simpler remote radio site, system roll out can be done in one-third the time*

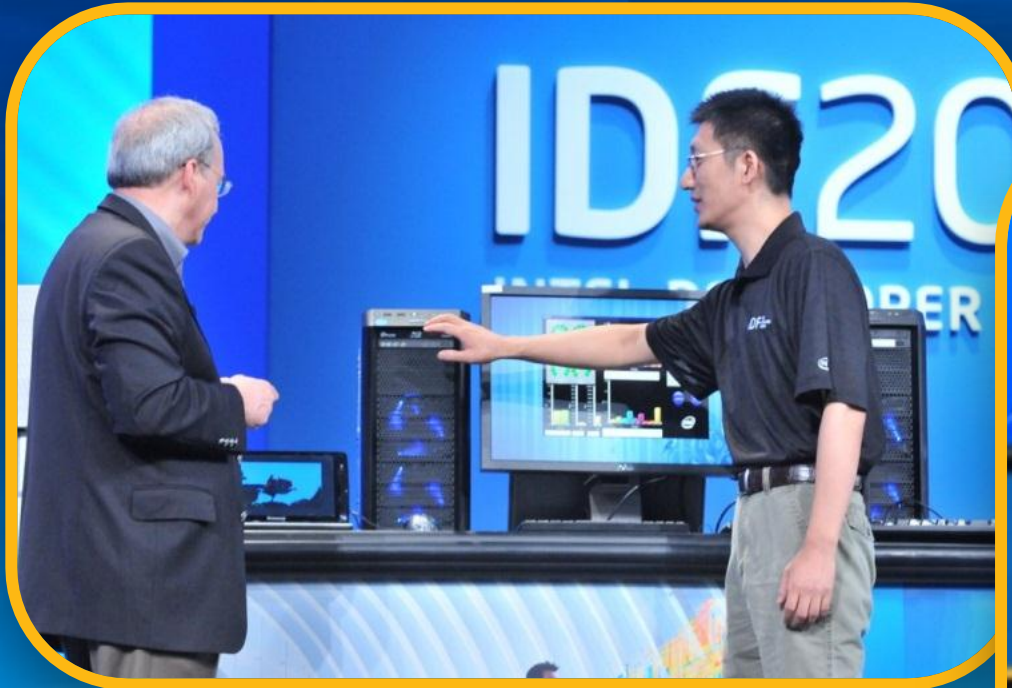


Lower Energy Consumption

Save up to 71% of power compared to traditional RAN system*

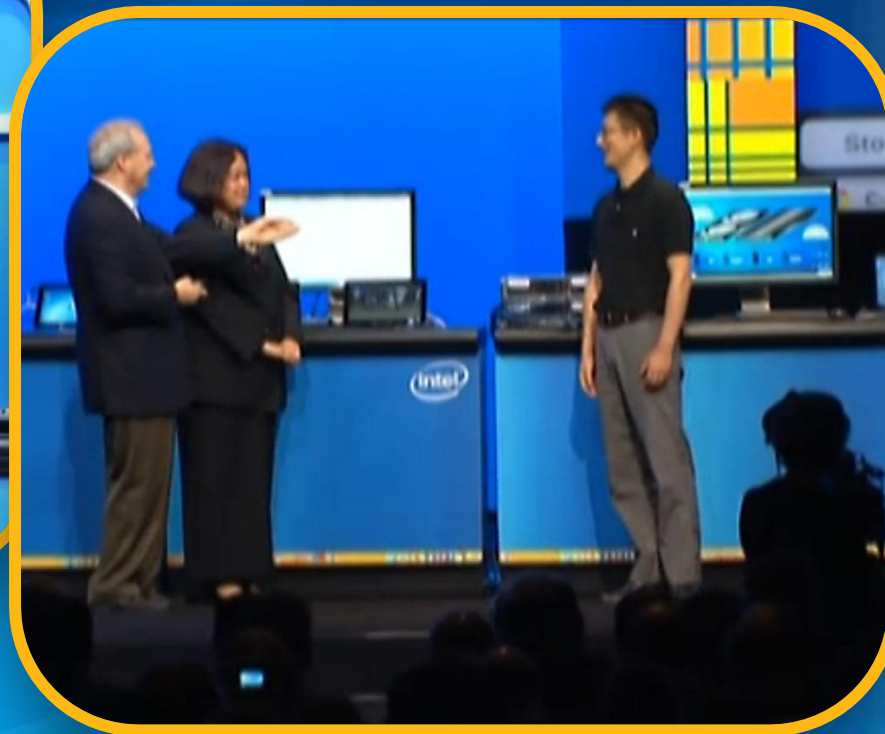
Recap From IDF San Francisco

2011



Implementing LTE Base Station with a PC

2012



C-RAN LTE Base Station Pool



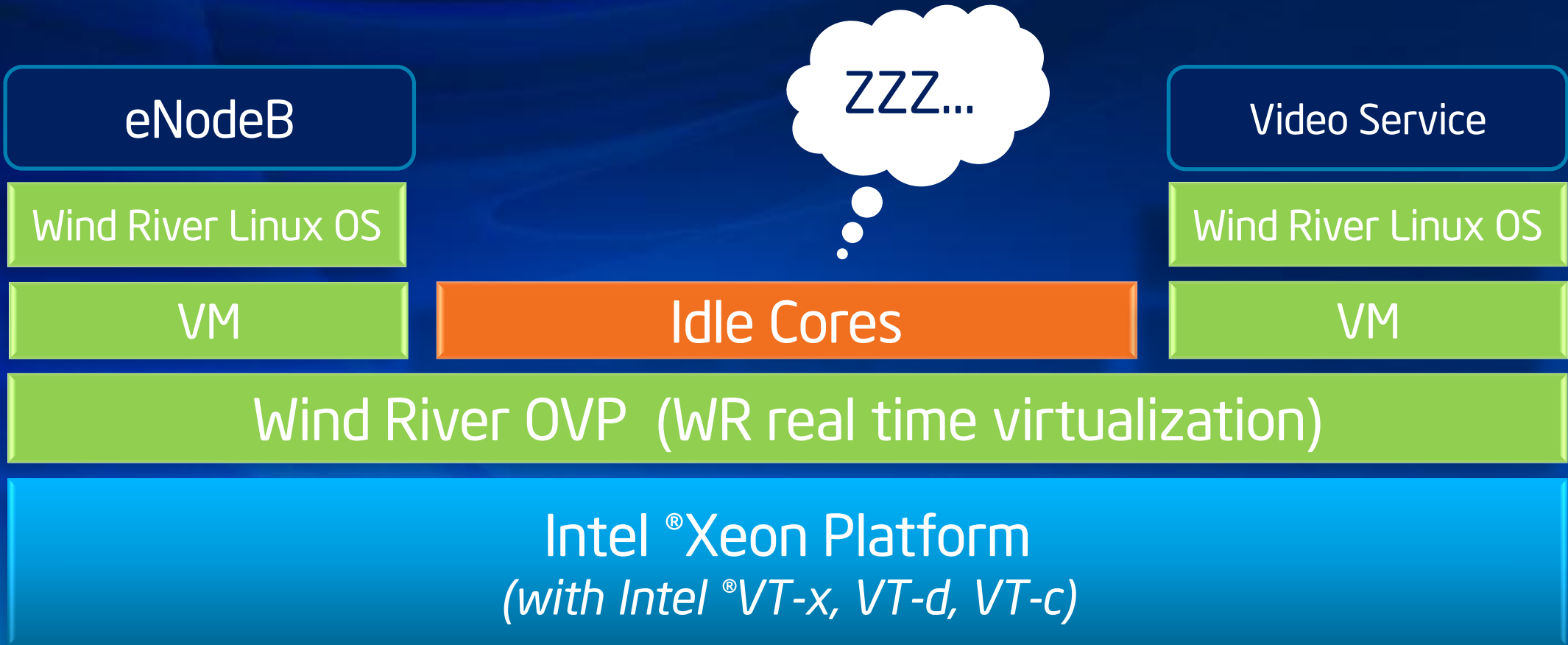


Jim Douglas
SVP Product and Marketing

WIND RIVER

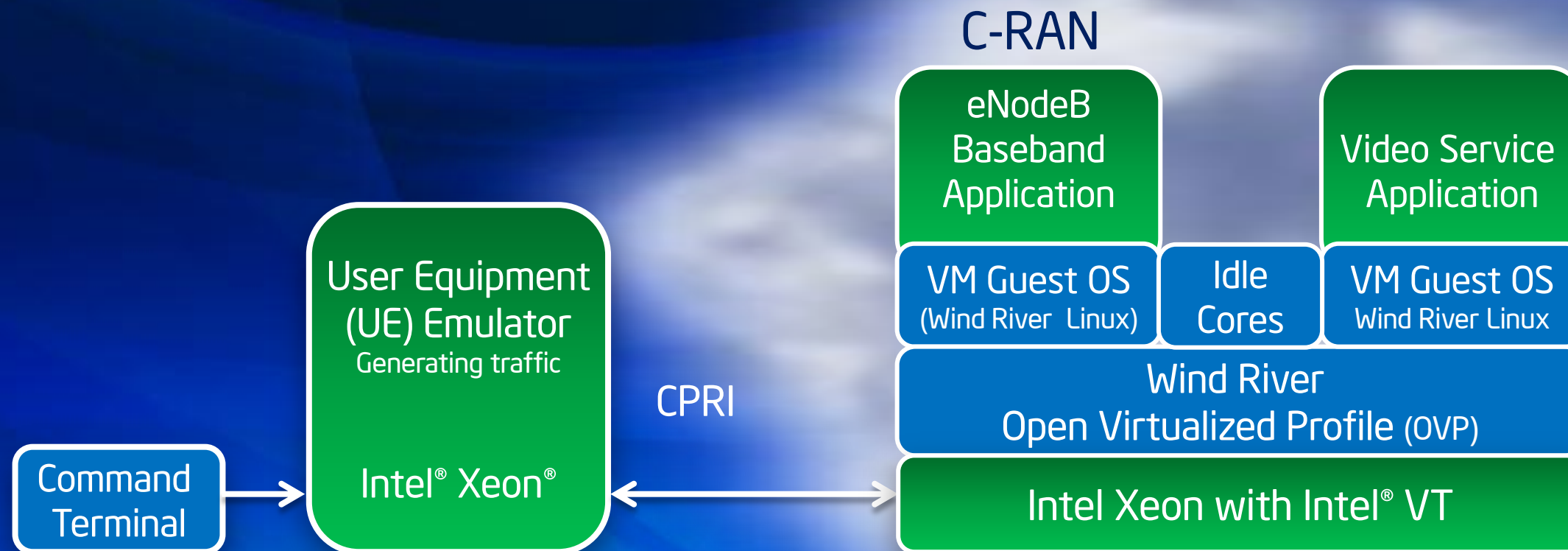
Wind River Real-Time Virtualization

*Workload balancing via-real time virtualization
for real and non real-time applications*



Enabling efficiency, flexibility, scalability through real-time virtualization

Virtualized C-RAN Demo



Wind River Linux with KVM & Intel® Xeon®
meets real time performance requirements

Launching the Intel Collaborative Research Institute on Mobile Networking and Computing



Prof. WEI Shaojun
Tsinghua
University



Prof. NIU Zhisheng
Tsinghua
University



Prof. WANG Jing
Tsinghua
University



Prof. YOU Xiaohu
SouthEast
University



Prof. LI Weiping
University of Science and
Technology of China



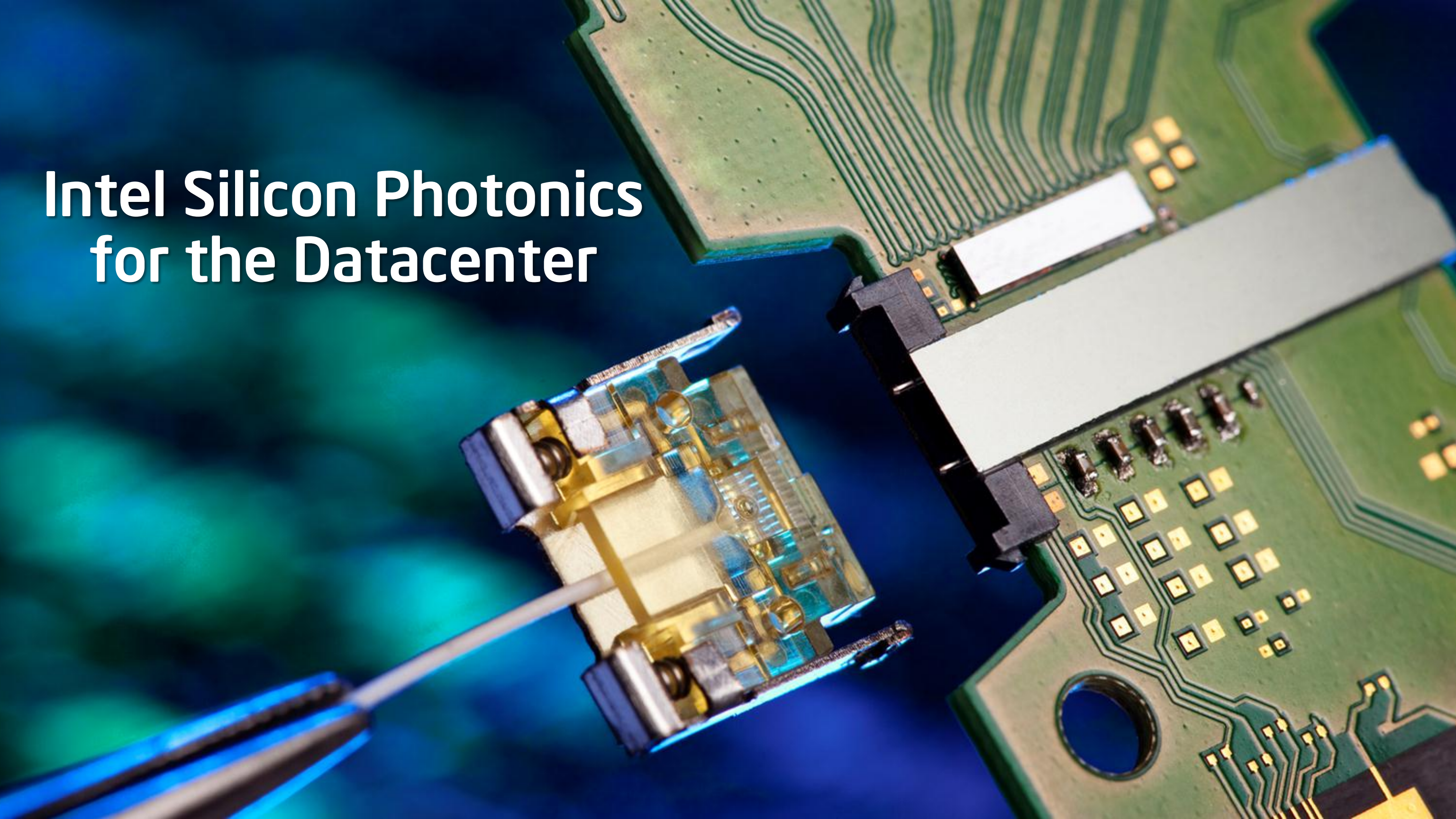
LI Gaungjie
Intel Labs China



Tin-Fook Ngai
Intel Labs China

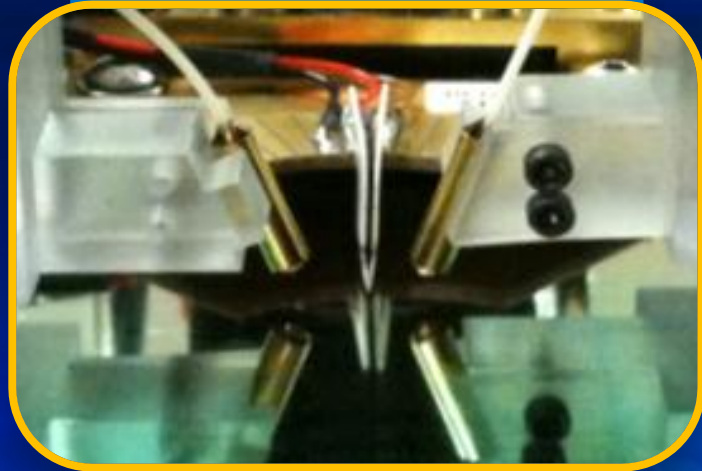


Intel Silicon Photonics for the Datacenter



A Breakthrough in Photonics Manufacturing

OPTICAL



ELECTRICAL



RF



*Intel is moving Silicon Photonics from research to development
Investing in our manufacturing and testing capabilities*

More Updates in the Coming Year

Exploring The Data Society



Quickly Evolving to the Data Society



socialmedia.net
Big Data Goes Social

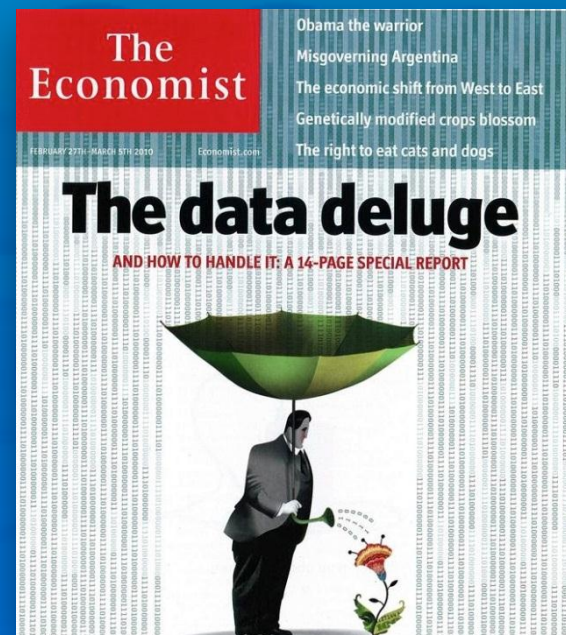


THE WALL STREET JOURNAL.
Meet the New Boss – Big Data

YAHOO!
Big Data Goes Hadoop



TED
Big Data Gets Personal



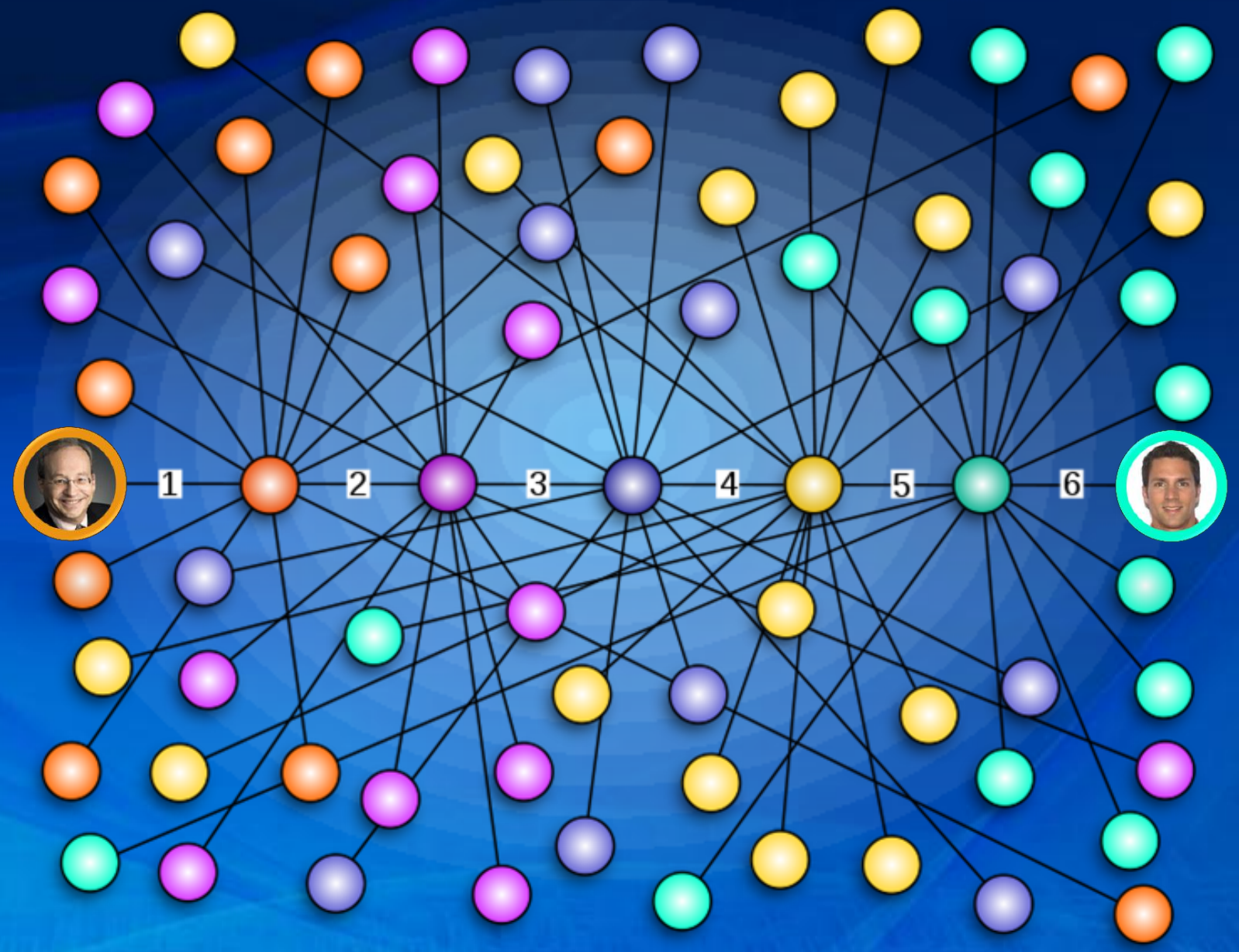
WIRED.CO.UK
Big Data is a Brave New World



Ted Wilke

Principal Engineer and GM
Graph Analytics Operation
Intel Labs

How Do We Analyze the
Relationships
That Matter?



Abundant in Nature and Science, Large Graphs Are Everywhere

Human Brain



Social Network



Internet



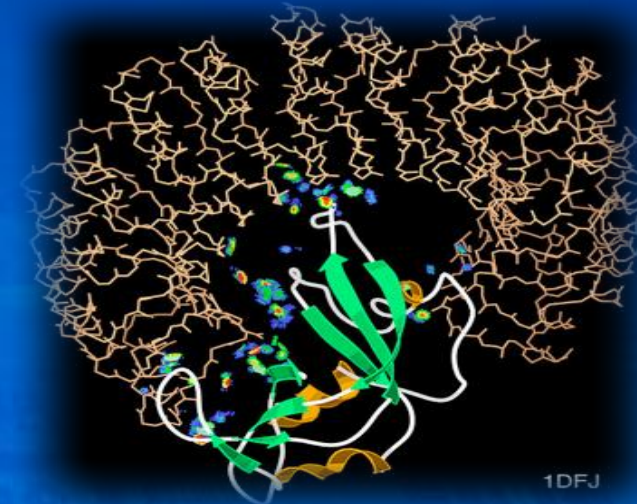
e-commerce



Online Services

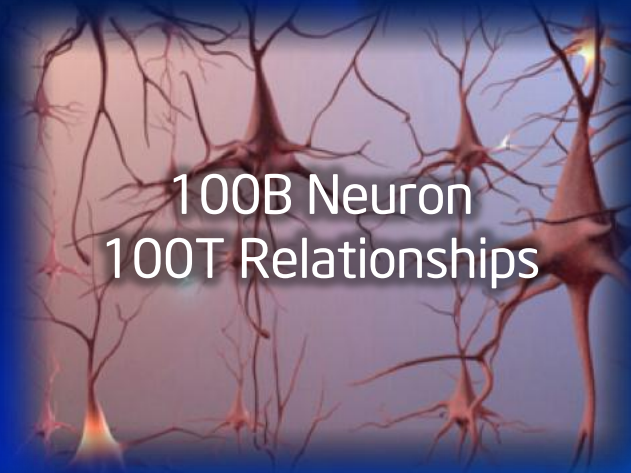
NETFLIX

Science



Abundant in Nature and Science, Large Graphs Are Everywhere

Human Brain



Social Network



Internet



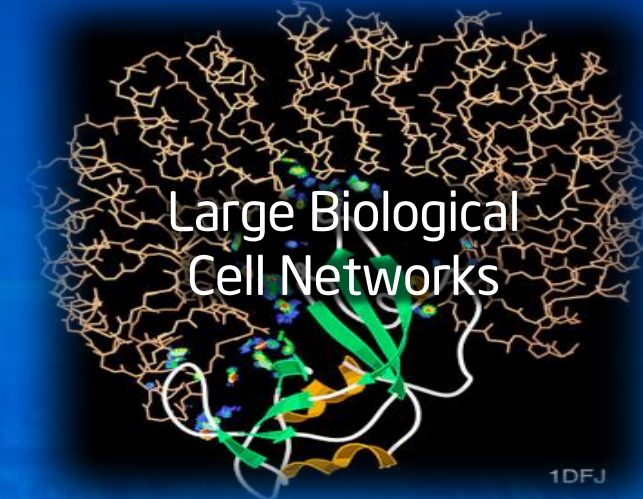
e-commerce



Online Services

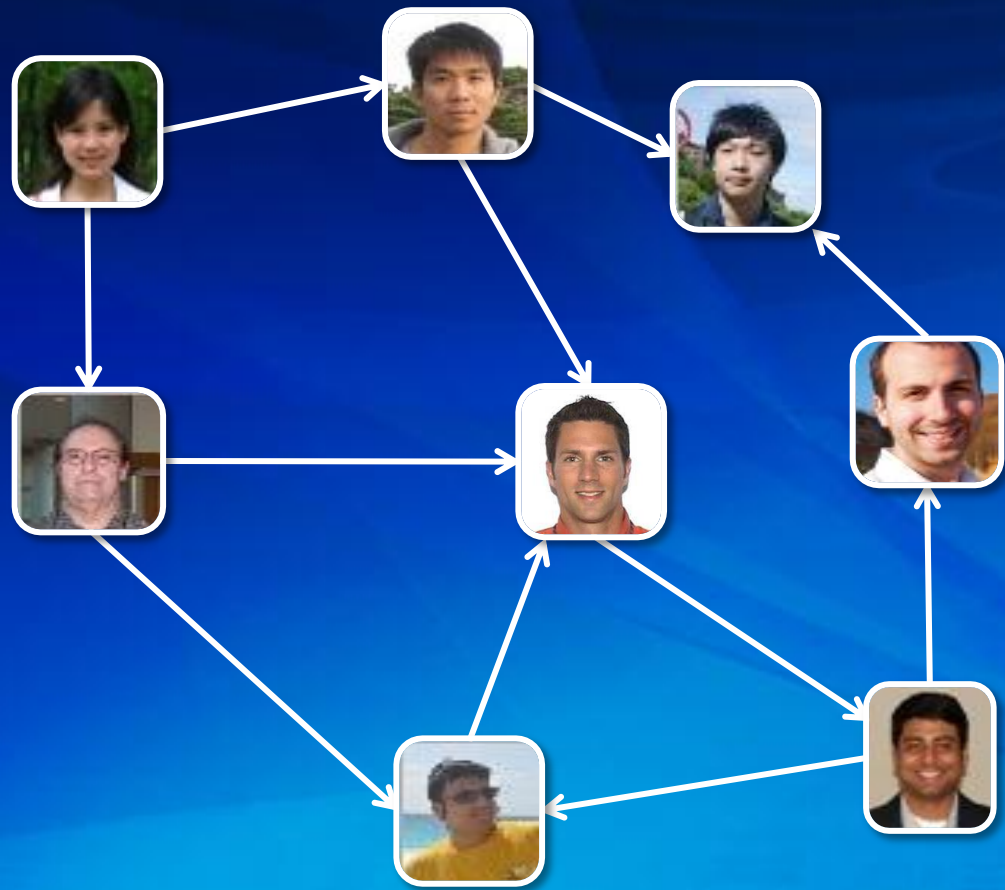


Science



Graphs Will Challenge Today's Programming Models

Example Graph



MapReduce Data Partitioning & Replication



Graphs Will Challenge Today's Programming Models

Example Graph

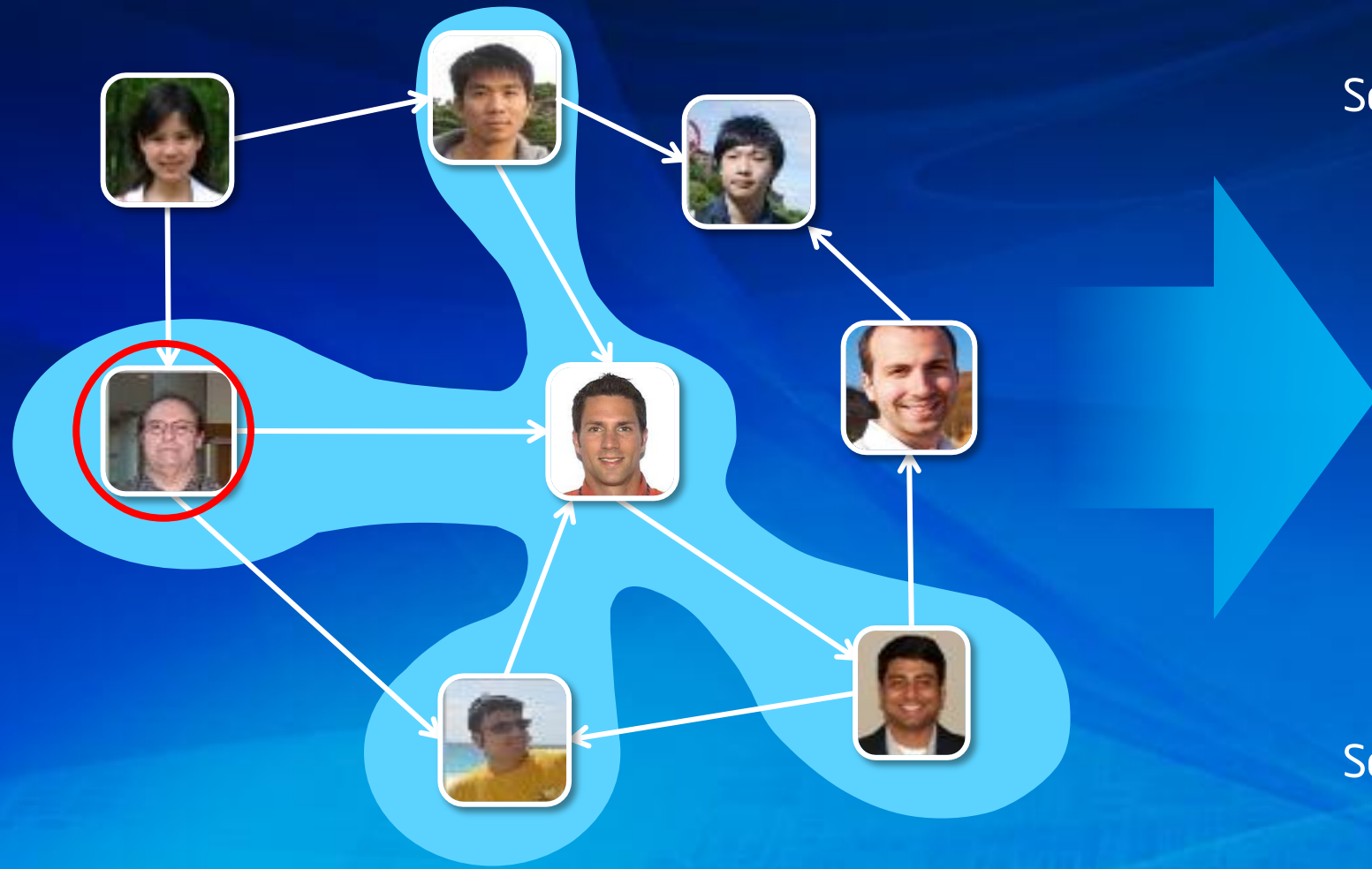


MapReduce Data Partitioning & Replication



Graphs Will Challenge Today's Programming Models

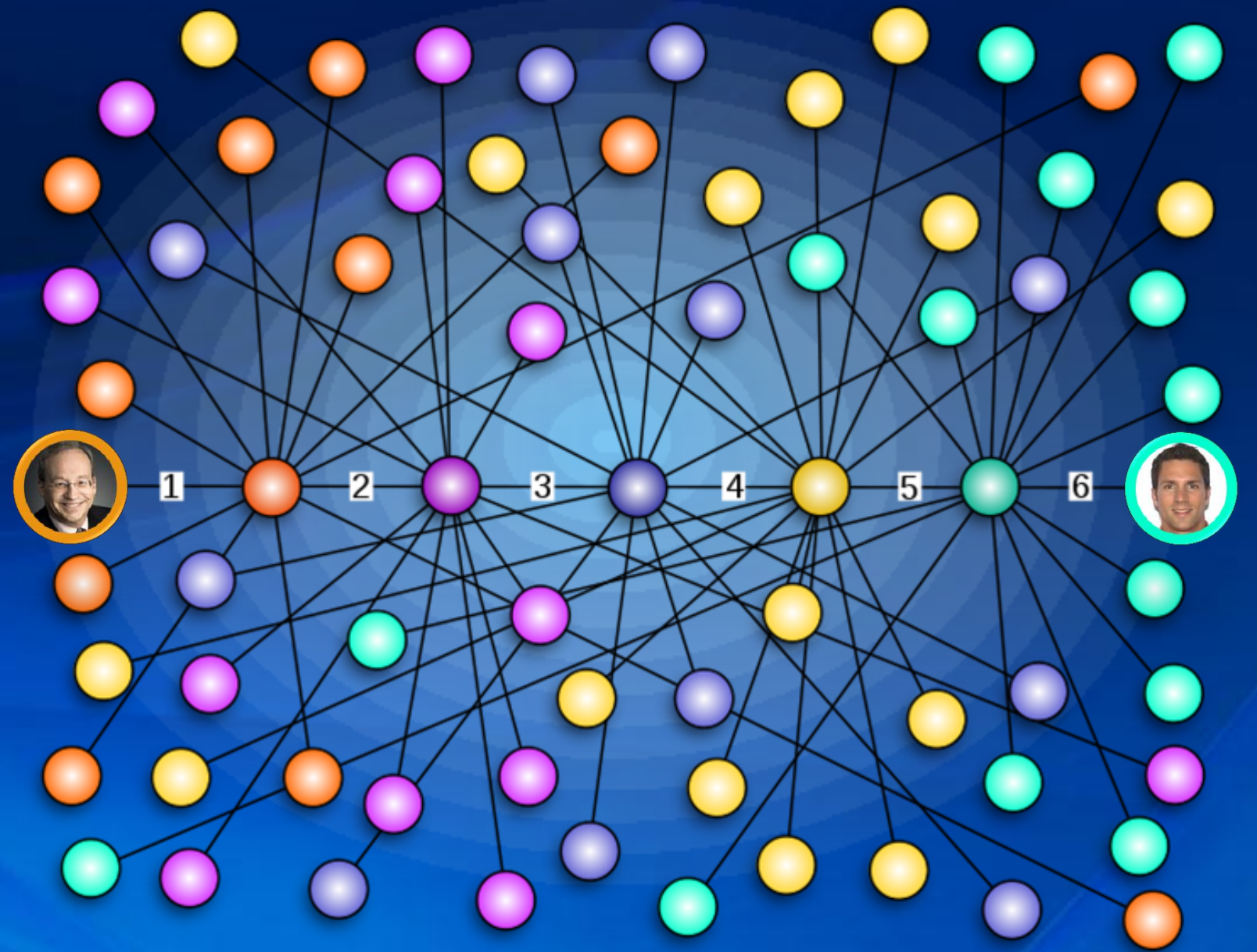
Example Graph



MapReduce Data Partitioning & Replication



How Do We Analyze the
**Relationships
That Matter?**



With Intel and Graph Analytics, Data Explorers everywhere
will discover the full potential of their relationships

Architecting the Future of Computing

Delivering a New Era of User Experiences

Enabling Sustainable
& Connected Cities



Enriching The
Mobile Experience

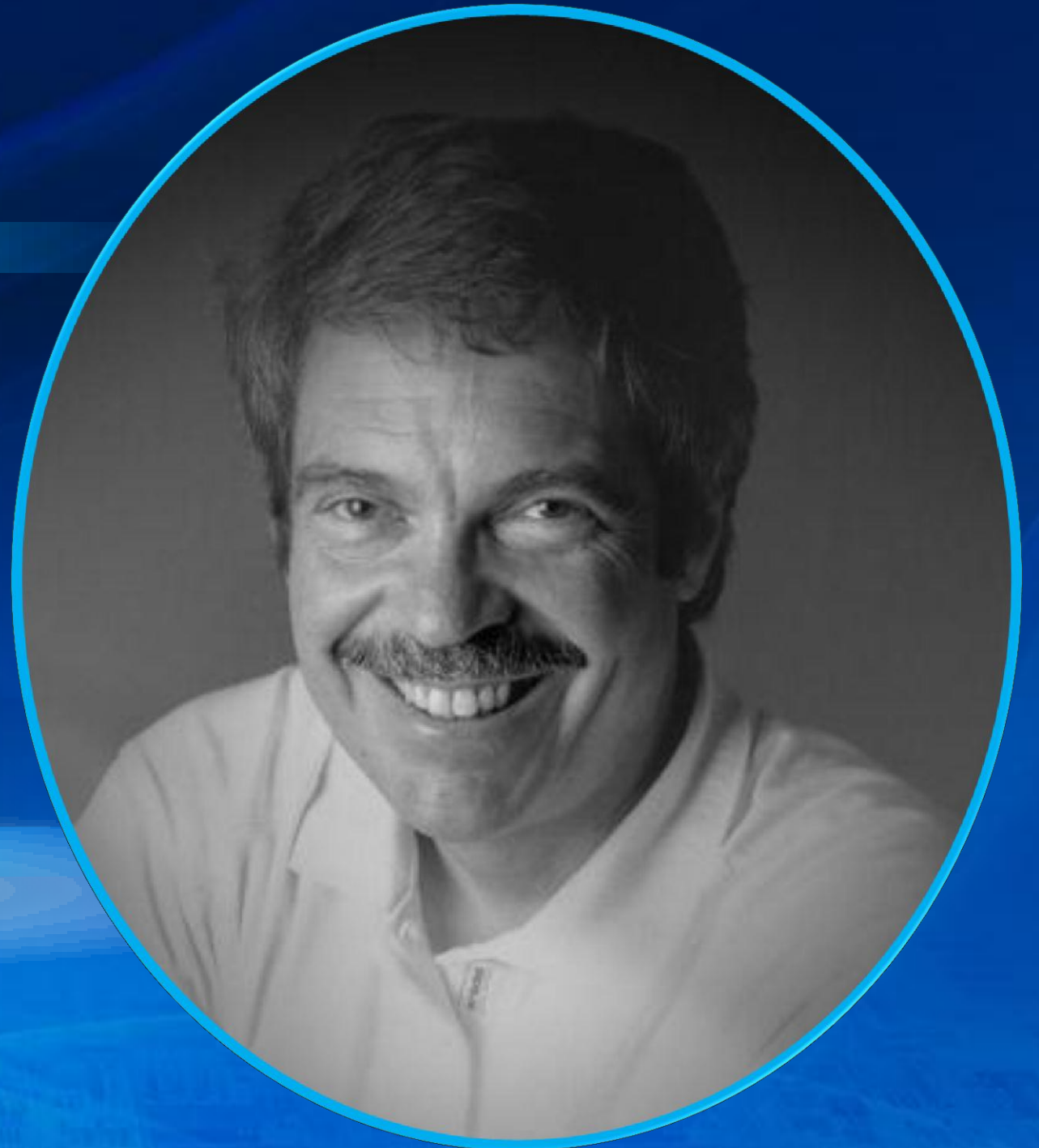


Exploring The
Data Society



“The best way to predict the
future is to invent it.”

Alan Kay



How Do We Architect the Future?




How Do We Architect the Future?

Change the story people tell themselves
about the future they will live in.



THE
TOMORROW
PROJECT

中国 

cn.tomorrow-projects.com

A New Collaboration



清華大學

Tsinghua University

Thank You

The background features a deep blue gradient with flowing, wavy lines. On the right side, there are intricate, colorful patterns in shades of yellow, green, and blue, resembling a complex geometric or digital design. The overall aesthetic is modern and dynamic.

LET'S SEE
WHAT
DEVELOPS.

IDF2013

INTEL DEVELOPER FORUM



Sponsors of Tomorrow.™

