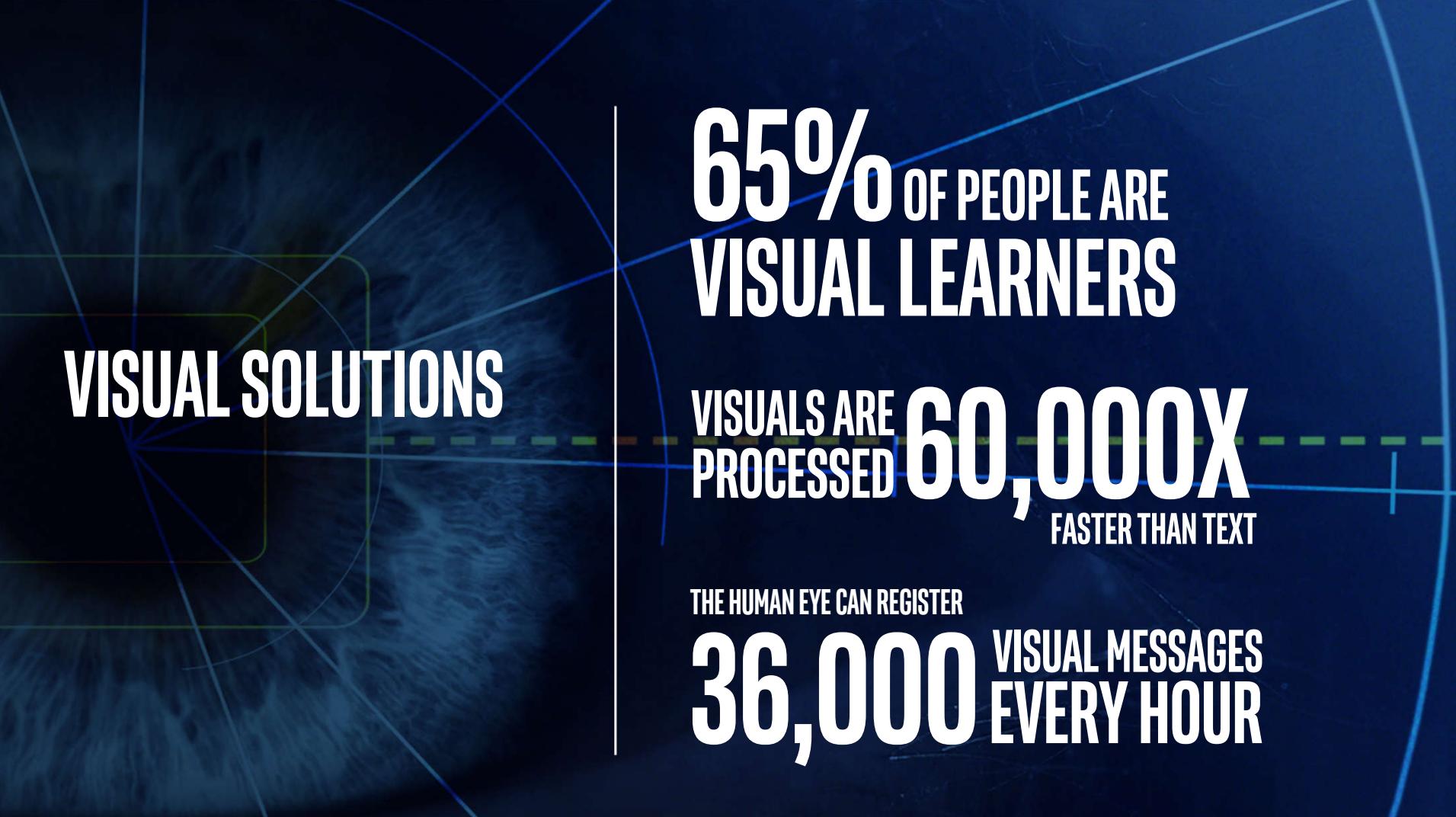


# COLLABORATION SOLUTIONS FOR ENTERPRISE & EDUCATION

Chris O'Malley



Intel Confidential – Do Not Forward

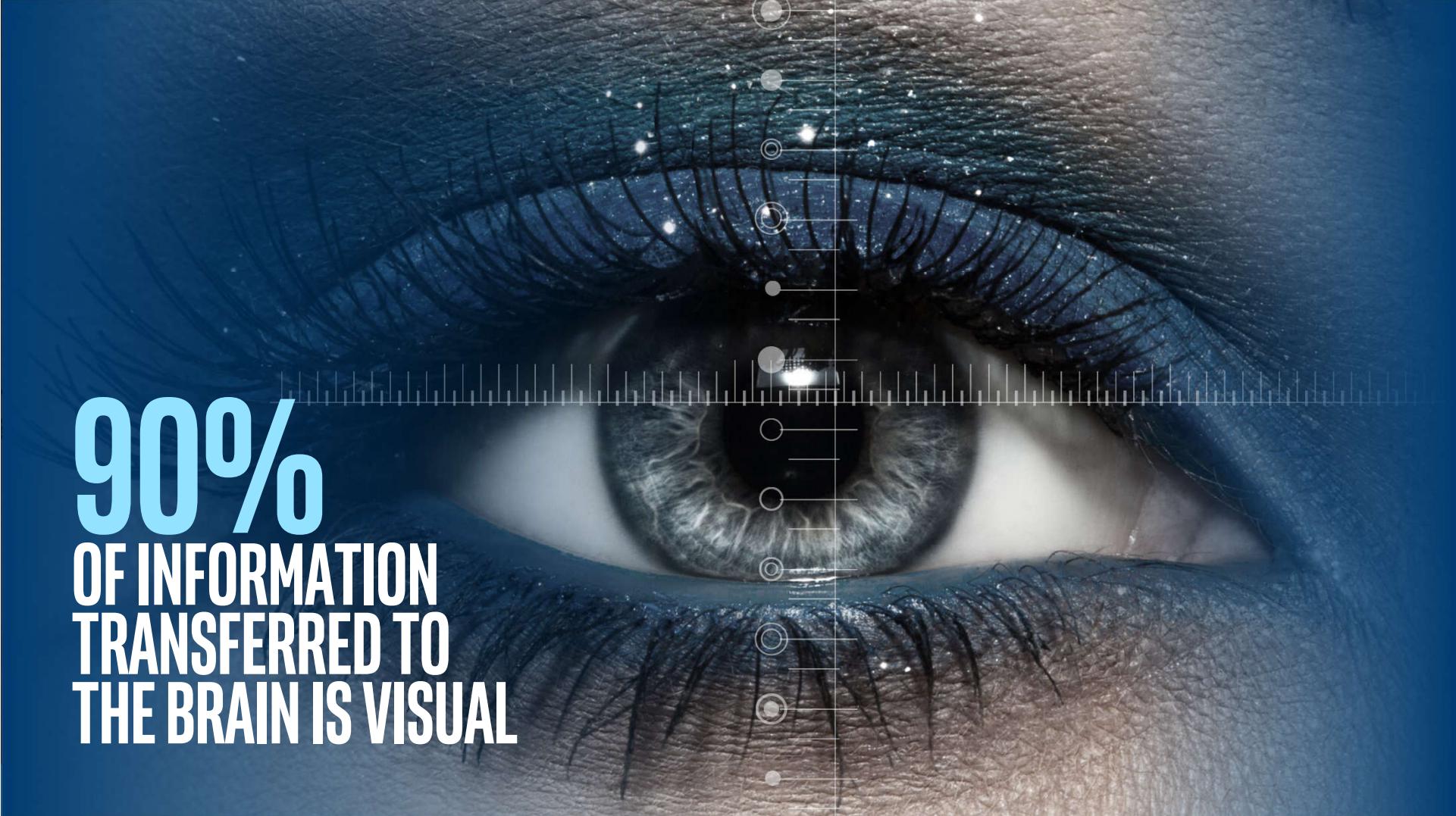


**VISUAL SOLUTIONS**

**65% OF PEOPLE ARE  
VISUAL LEARNERS**

**VISUALS ARE  
PROCESSED 60,000X  
FASTER THAN TEXT**

**THE HUMAN EYE CAN REGISTER  
36,000 VISUAL MESSAGES  
EVERY HOUR**



**90%**  
OF INFORMATION  
TRANSFERRED TO  
THE BRAIN IS VISUAL

# CORPORATE COLLABORATION SOLUTIONS

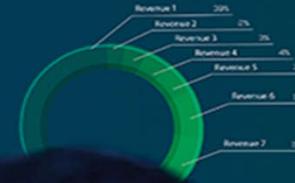


**THERE ARE MORE  
CORPORATE CONFERENCE  
ROOMS THAN  
CLASSROOMS**

### Innovations That Boost Your Bottom Line

A series of possibilities is available with our intelligent, programmable, and intuitive software-defined infrastructure that can transform your network end-to-end from data center to device.

Our robust portfolio of products and technologies that deliver solutions to help organizations like ours. We've transformed their networks, driving advanced performance and intelligence from the core of the data center to the network edge.



# The Workplace Collaboration Landscape is Changing



## FLEXIBLE WORK

Increasing need for instant, interactive collaboration



## MODERN WORKSPACES

More huddle and collaboration spaces



## SIMPLICITY

Demand for secure, turnkey collaboration solutions



## SMART TECH

AI & Analytics is increasingly becoming key in measuring workplace analytics, automation, and meeting effectiveness

# Employees are Still Facing Challenges with Meeting Effectiveness

## COMPLEXITY



Many devices supporting multiple OS platforms

>80% of Fortune 500 support BYOD

47% expected to shift to CYOD (2017)<sup>1</sup>

## NON-STANDARDIZATION



Fragmented connectivity options and technologies

Wired display standards: 8

Wireless display standards: 3<sup>2</sup>

## UNDERUTILIZED ROOM ASSETS



Conference room assets are often costly and underutilized

\$300,000 + annual maintenance contracts<sup>3</sup>

## STARTING MEETINGS ON TIME



How long does it take to start a meeting?

Average: 8+ minutes

Longest: 22+ minutes<sup>3</sup>

1. Source: unify.com, IDC (2015)

2. Source: Intel

3. Source: Microsoft, TechDays 2013

# Causing Disruption for the Industry to Create Better Solutions

The next generation is moving into the workforce...



**"BY 2020,  
MILLENNIALS  
WILL FORM 50% OF THE  
GLOBAL WORKFORCE."**

—PricewaterhouseCoopers, 2011

Bringing new attitudes and expectations...

**"MILLENNIALS IN PARTICULAR ARE MORE LIKELY TO  
QUIT A JOB WITH SUBSTANDARD TECHNOLOGY."**



—Dell & Intel Future Workforce Study Global Report, 2016

Is your organization positioned to succeed?



**"...THE VAST MAJORITY OF HUDDLE ROOMS HAVE  
LITTLE OR NO TECHNOLOGY IN PLACE TODAY."**

—Wainhouse Research, 2015

The world of work is increasingly mobile...

**50-60% OF THE TIME, EMPLOYEES OF FORTUNE  
1000 COMPANIES AROUND THE GLOBE  
ARE NOT AT THEIR DESKS**

—GlobalWorkplaceAnalytics.com, 2016

The world of work is increasingly mobile...

**"HALF OF GLOBAL EMPLOYEES  
CURRENTLY WORK REMOTELY AT  
LEAST A FEW TIMES A WEEK..."**



—Dell & Intel Future Workforce Study Global Report, 2016

But collaboration solutions can be challenging for meetings...

**"68% OF WORKERS  
EXPERIENCE THAT  
UP TO 95% OF MEETINGS START LATE...  
DELAYED BY AN AVERAGE OF  
10 MINUTES, 40 SECONDS"**



—OVUM Consulting, 2014

# What Do the Users Need?



## EMPLOYEE NEEDS:

- Access from anywhere to adhoc meetings with teams
- Simple and easy use
- Connect remotely with teams across the globe
- Share rich content, real-time co-creation (no dongles or cables needed)
- Ability to see everyone in the room with ease



## IT NEEDS:

- Seamless solution, easy to deploy and maintain
- Secure and remote access to any device
- Being able to capture data and generate insights to make decisions
- Responsive and proactive to the workers needs today and tomorrow

PROVIDE CONSISTENT USER EXPERIENCE ACROSS ALL MEETING ROOMS

# Corporate Collaboration - Requirements

## Screen / IFPD (OPS)



## Compute



## Controller



## Camera



## Speaker / Mics



"Smart Table Top"  
Compute + Controller+ Speaker + Mic  
Cable Input

"Smart Sound Bar"  
Compute + Camera+ Speaker + Mic  
Displaylink to Controller



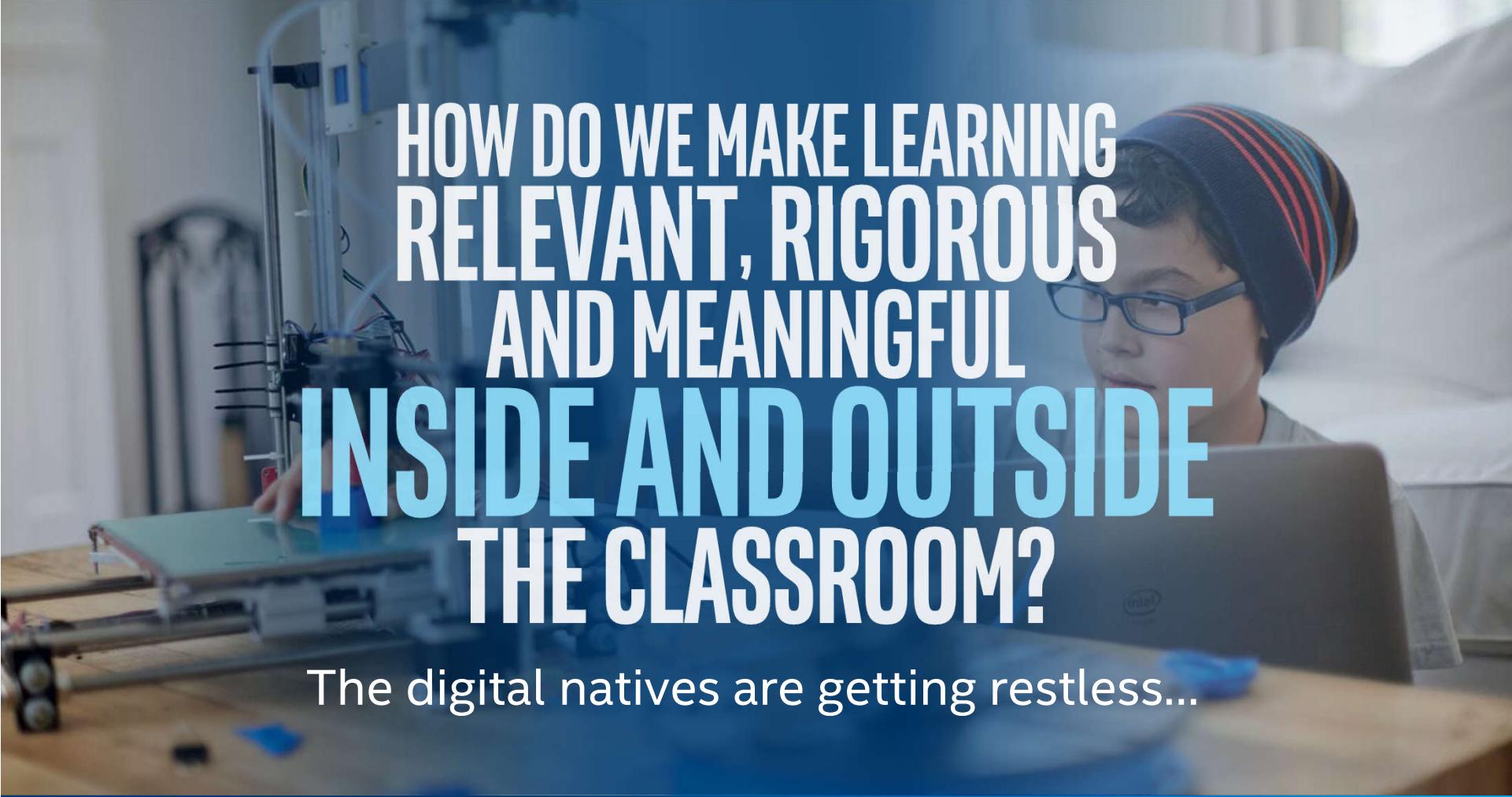
# A Solution Enabler Platform

that provides managed and secured unified collaboration experience



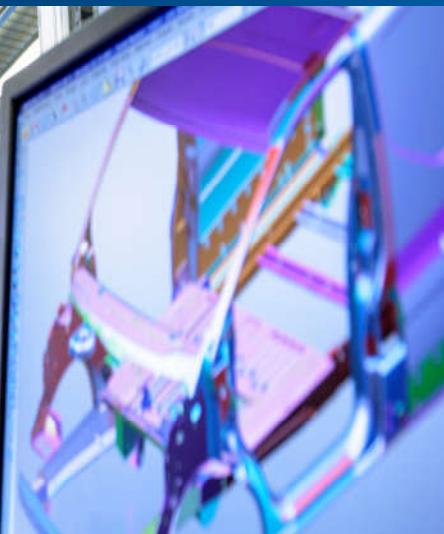
\* Other names and brands may be claimed as the property of others.

# COLLABORATION SOLUTIONS FOR EDUCATION

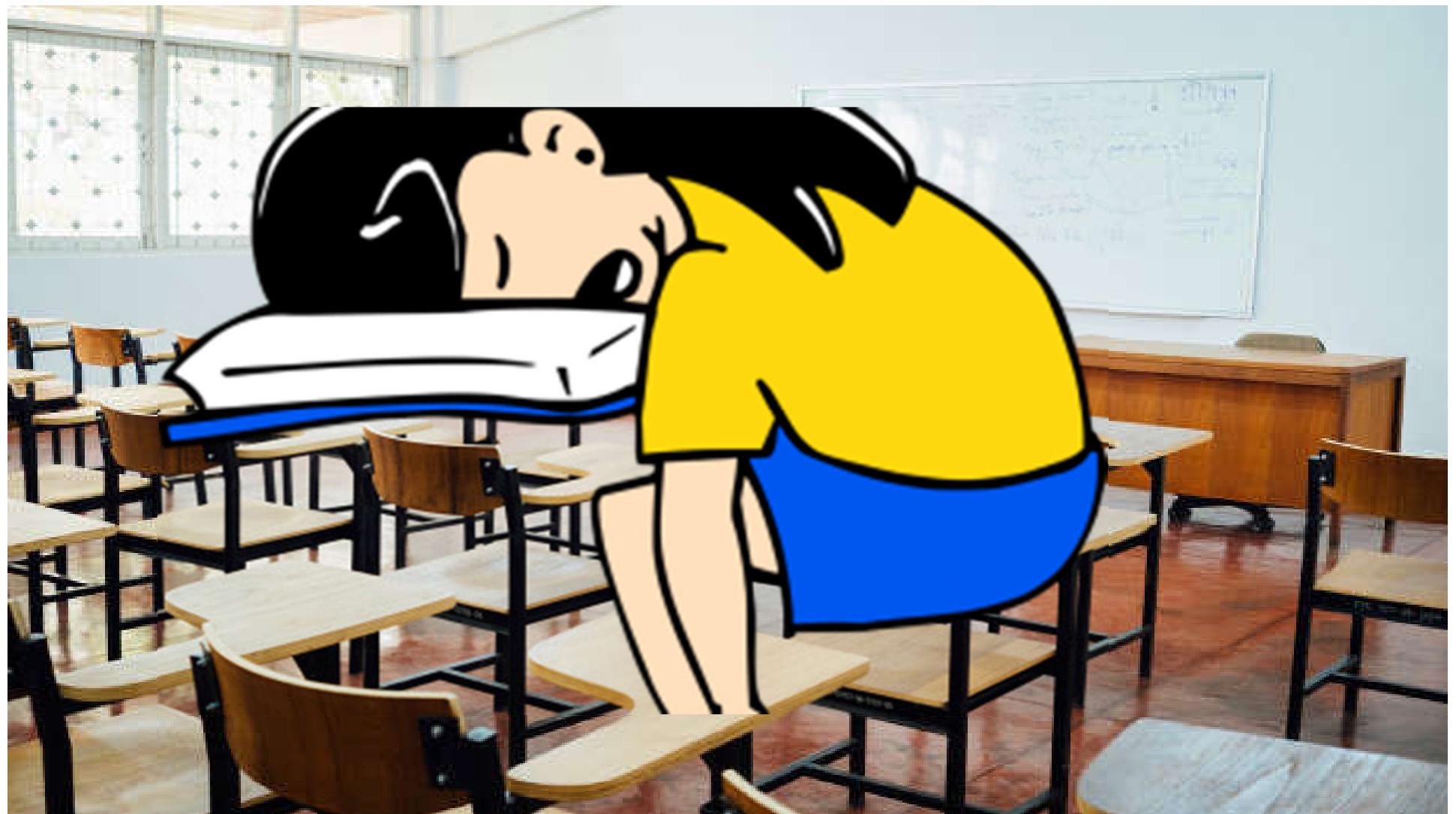


# HOW DO WE MAKE LEARNING RELEVANT, RIGOROUS AND MEANINGFUL **INSIDE AND OUTSIDE THE CLASSROOM?**

The digital natives are getting restless...



Intel Confidential – Do Not Forward



A classroom setting where students are seated at their desks, facing a teacher who is standing near the front of the room. A large projection screen is visible on the wall to the right. In the foreground, a student's hand is holding a tablet device, which displays a colorful educational application.

VISUAL AIDS IMPROVE  
CLASSROOM LEARNING  
**UP TO 400%**

# Evolution of Classroom Collaboration

## <1980's Chalkboard



- Manual
- Limited Choice

## 1990's Whiteboard



- Manual
- Color
- Easier Maintenance

## 2000's Digital Projectors



- Digital & Video Projection
- PC Connection
- Low Image Quality
- High Maintenance

## >2010 Interactive Flat Panel Displays (IFPD)



- Integrated Compute
- Multi-Touch
- High Quality Resolution
- No Replaceable Parts
- Shadow Free



## Changing the Learning Experience

True interactivity, small group collaboration & active learning

# An Evolving Learning Environment



## STUDENTS

Shift from information consumers to creative problem solvers

Collaborate and present their work

Become self-directed, lifelong learners

Leverage multiple digital mediums



## TEACHERS

Use technology to personalize learning

Drive collaboration and interaction to engage students and ensure digital inclusion

Centrally store, access and assess content

Meet higher expectations for student outcomes

# CHINA EDUCATION PROGRESSION



Projector Based IWB



Interactive Flat Panel Display



Student Terminals



Broadcasting and Recording



Camera Based Analytics



Student and Teacher  
Behavior Analytics



Virtual and Augmented  
Reality

Education

Edge Compute platform

# INTEL IS INVESTING IN TECHNOLOGIES THAT HELP MEET THESE CHALLENGES



SCHOOL SAFETY

PERSONALIZED LEARNING

ANALYTICS

PRIVACY AND TRUST

VIRTUAL REALITY

CLIENT



IOT



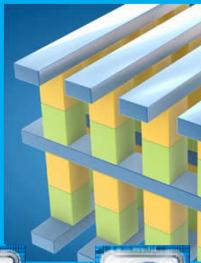
DATA CENTER



NEW TECHNOLOGIES



MEMORY



SECURITY



PROGRAMMABLE

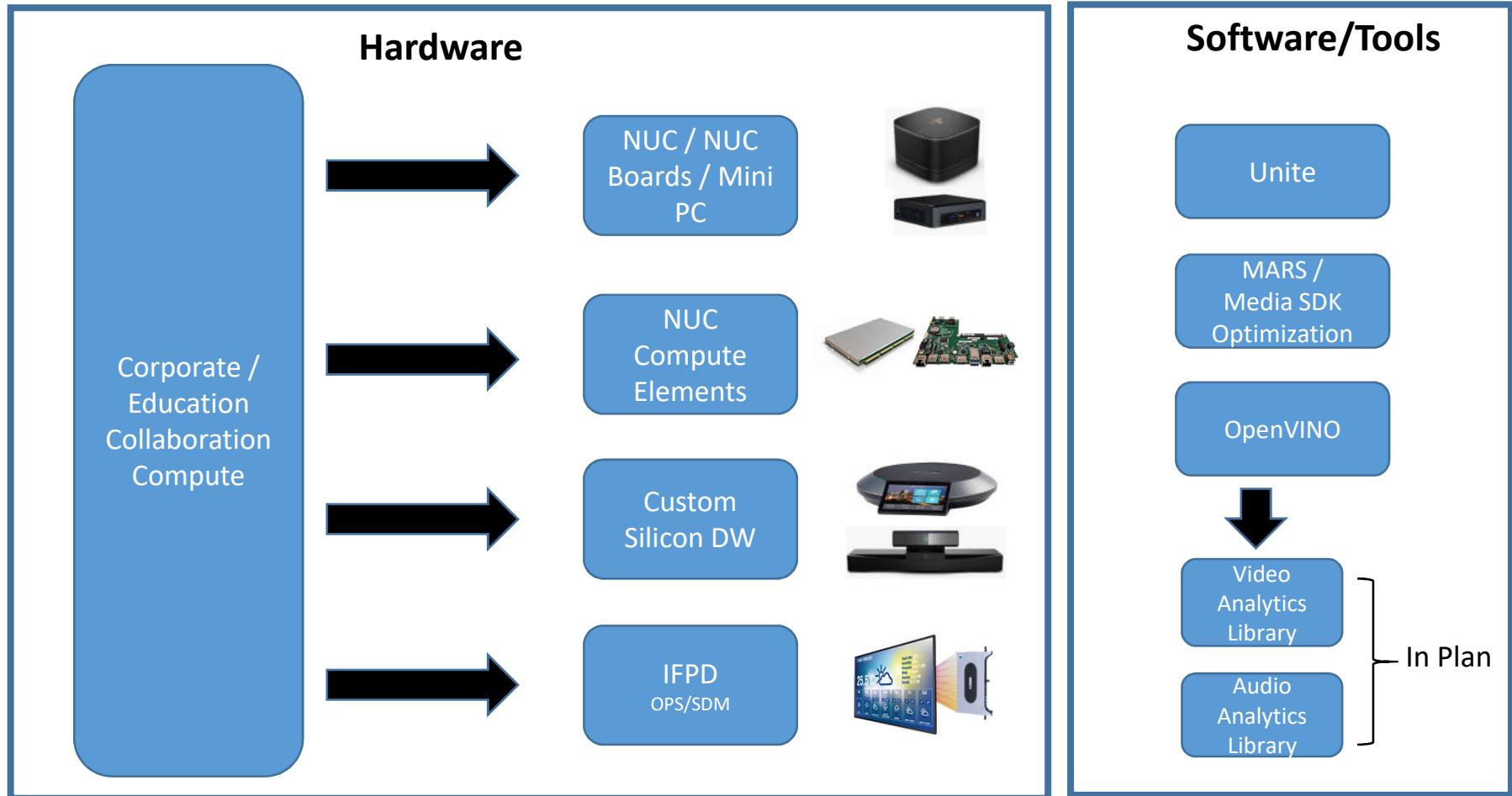


Movidius



ALTERA

## Collaboration Ecosystem – Compute Solutions



# Experience Advanced Capabilities with Your Intel-enabled Collaboration Solution

Performance/Rich Media



Standardization



Security



Collaboration/  
Intel Unite®  
Solution



Manageability



Analytics



Natural Intuitive  
Interaction

**OUR PARTNERSHIPS  
ARE CRITICAL  
THE FUTURE DOESN'T  
JUST HAPPEN...  
TOGETHER  
WE INVENT THE FUTURE!**



# BACK-UP

# INTEL® VPRO™ TECHNOLOGY

# Top 4 Reasons to Adopt Intel® vPro™ Technology for Collaboration Tools



## 1. MORE PRODUCTIVITY, LESS DOWNTIME

Remote management keeps operations running inside and outside of the office.



## 2. BUILT-IN SECURITY<sup>1</sup>

Better protect employees' identities with hardware-enhanced multifactor authentication. If a breach occurs, quickly isolate and fix it with remote out-of-band patching and recovery.



## 3. REDUCED TOTAL COST OF OWNERSHIP

Remote management allows IT to work on IWB devices without an on-site visit-helping you provide better support.



## 4. DYNAMIC SUPPORT

Get whatever help you need from a dedicated support team of Intel® vPro™ technology specialists-from setup to technical support for devices and software.

DELIVER TRUE INTERACTIVITY, SMALL GROUP COLLABORATION & ACTIVE ENGAGEMENT WHILE LOWERING YOUR COSTS

1 No computer system can be absolutely secure

# Intel® vPro™ Technology

Hardware-based solution that provides state-of-the-art Out-of-Band (OOB) remote management functions regardless of system's power and OS state



# THANK YOU FOR YOUR PARTNERSHIP

YESTERDAY | TODAY | TOMORROW

WE WIN TOGETHER

# 'e-classroom' Solutions to Support 21st Century Interactive Learning

## UNTETHER TEACHERS



Drives inclusion and improves student engagement through collaborative technology

## COLLABORATE ON THE FLY - ANYWHERE



Flexible collaboration with Intel Unite® for unmanaged and managed environments.

## EASY MAINTENANCE LOWER TCO



Reduced maintenance and support costs with Intel® vPro™ technology.

## STUNNING VISUALS FOR IMMERSIVE TEACHING



Amazing performance and stunning 4K visuals with Intel® technology.

## INTEL-ENABLED EDUCATION SOLUTIONS PROVIDE:



Performance/  
Rich Media



Standardization



Stunning Visuals



Collaboration  
Intel Unite®



Security



Manageability  
Intel® vPro™ AMT



Natural Intuitive  
Interaction



Analytics

# INTEL IS DRIVING THE CLASSROOM'S EVOLUTION



Intel delivers end-to-end Interactive Flat Panel Display solutions with greater compute, security, manageability, and content compatibility.

