EMPOWERING GOVERNMENTS WITH MODERN TECHNOLOGY

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AT INTEL

WE’RE POWERING THE FUTURE OF COMPUTING AND COMMUNICATIONS, DELIVERING EXPERIENCES ONCE THOUGHT TO BE IMPOSSIBLE.
Silicon brought us the third Industrial Revolution. It is now ushering in the fourth revolution: Information Age to Data Age.

Biological, physical, and digital 100B connection points. The ecosystem reshaped.
We’re moving into a world where machines and software can analyze (see patterns that were always hidden before); optimize (tell a plane which altitude to fly each mile to get the best fuel efficiency); prophesize (tell you when the elevator will break and fix it before it does); customize (tailor any product for you alone); and digitize and automate just about any job. This is transforming every industry.
<table>
<thead>
<tr>
<th>Category</th>
<th>Data Volume</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVG. INTERNET USER</td>
<td>1.5 GB OF TRAFFIC / DAY</td>
</tr>
<tr>
<td>AUTONOMOUS VEHICLES</td>
<td>4 TB OF DATA / DAY *</td>
</tr>
<tr>
<td>CONNECTED AIRPLANE</td>
<td>5 TB OF DATA / DAY</td>
</tr>
<tr>
<td>SMART FACTORY</td>
<td>1 PB OF DATA / DAY</td>
</tr>
<tr>
<td>CLOUD VIDEO PROVIDERS</td>
<td>750 PB OF VIDEO / DAY</td>
</tr>
</tbody>
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*Estimate based on the average vehicle being operated 1-2 hours per day
Source: Amalgamation of analyst data and Intel analysis.
GOVERNMENTS’ CHALLENGES
In the first quarter of 2017, **new malware** emerged every 4.2 seconds.

GData, Malware Trends 2017, 2017
How is the Security Landscape Shifting?

1. Identity breach
2. Plant malware
3. Gather data
4. Steal data or lock it down

81% of breaches in 2017 started with stolen or weak credentials¹

90% of incidents result from exploits in software²

Software Based Attacks

Increasing Regulation

Worldwide Security Spending

2017: ~$102 Billion³
2018: ~$114 Billion³
2019: ~$124 Billion

15% CAGR

Sources: 1) Verizon 2018 Data Breach Investigation Report (DBIR)
2) McAfee Labs Threat Report, June 2018
3) Gartner Press Release, August 15, 2018
GOVERNMENT COMPUTING PRIORITIES

- HOW TO MANAGE
- HOW TO MINIMIZE
- HOW TO REDUCE RISK
- HOW TO LOWER TCO
THE PLATFORM BUILT FOR BUSINESS

Hardware, technologies and solutions for business computing endpoints

**BUILT FOR BUSINESS**
Features that enable, accelerate or complement Windows® 10 Pro/Enterprise

**BROAD MARKET SUPPORT**
Over 100 new systems every year from top manufacturers

**VERIFICATION PROGRAM**
Formal brand requirements and testing program to verify functionality

**PERFORMANCE**
Headroom for business workflows

**SECURITY**
Hardware-enhanced protection

**STABILITY**
Validated platforms

**MANAGEABILITY**
Advanced maintenance

MORE INFO at intel.com/vpro

• Other names and brands are property of their respective owners
SKILLS NEEDED FOR TODAY AND MORE IMPORTANTLY FOR FUTURE
Technology Rapidly Reshaping Businesses & Governments

- Industry 4.0
- Autonomous Robotics and Drones
- Simulation and Modeling
- Distributed Systems Integration
- Internet of Things (IoT)
- Information Security
- Big Data and Analytics
- Virtual (VR), Mixed and Augmented (AR) Reality
- Artificial Intelligence and Machine Learning
- Cloud and Mobility
Technology Continues to Rapidly Reshape the Workplace

50% of workers could be replaced today with current automation (McKinsey)

85% of customer interactions managed without a human by 2020 (Gartner)

Potential Jobs automated by 2030 (PwC)

- 38% in U.S.
- 35% in Germany
- 30% in U.K.
- 20% in Japan
Technology fosters **ACTIVE ENGAGEMENT** in skills development by the teacher and the student.

Industry 4.0 skills require more powerful devices to support higher-order thinking skills and abilities.

Technology enables **ACCESS** to resources that support personalized and adaptive learning of digital content.

**FUTURE-READY CLASSROOM**

**TODAY**

**TECHNOLOGY ADOPTION & COMPUTE POWER**

**BLOOM'S TAXONOMY**

- **CREATING**
  - design | build | construct | invent

- **EVALUATING**
  - critique | assess | judge

- **ANALYZING**
  - examine | compare | organize

- **APPLYING**
  - apply | solve | calculate

- **UNDERSTANDING**
  - interpret | explain | discuss

- **REMEMBERING**
  - describe | recall | define
Solutions for Skill Building

**SOLUTION GOALS**

**LEARNING & TEACHING ENVIRONMENT**

**SOLUTIONS TO ENSURE**
- Reliability & Scalability
- Security
- Collaboration

**STUDENTS**

**SOLUTIONS TO PRACTICE**
- Creativity & Modeling
- Design/Computation Thinking
- Coding/Programming

**EDUCATORS**

**SOLUTIONS TO EMPLOY**
- Immersive Content
- Personalized/Adaptive Learning
- Skills/Risks Assessment
INNOVATION TO ENABLE PUBLIC SECTOR MISSION OUTCOMES

CLIENT SOLUTIONS  IOT SOLUTIONS  DATA CENTER SOLUTIONS  NEW TECHNOLOGIES  MEMORY SOLUTIONS  PROGRAMMABLE SOLUTIONS

VIRTUAL REALITY  AUTONOMOUS DRIVING  5G CONNECTIVITY  ARTIFICIAL INTELLIGENCE
INTEL DELIVERS END TO END PLATFORMS

DEVICES/EDGE

NETWORK

CLOUD/DATA CENTER

MEMORY

4G/5G

SOFTWARE
THANK YOU!

COLLABORATION & PARTNERSHIP ARE CRITICAL TO OUR COLLECTIVE SUCCESS

IMAGINE WHAT’S POSSIBLE BOTH NOW... ...& IN THE FUTURE