# Introduction to Intel® Distribution of OpenVINO™ toolkit for Computer Vision Applications

100: Beginner-level Lesson 09

#### Introduction to Intel® Distribution of OpenVINO™ toolkit for Computer Vision Application

#### OpenVINO 100 - Course agenda

**Lesson 1:** Introduction, why do we need Artificial Intelligence (AI).

**Lesson 2:** What is Video, what is computer vision, how do we accelerate it on modern computers.

**Lesson 3:** How to accelerate Video processing

**Lesson 4:** How to accelerate Neural Network for vision applications

**Lesson 5:** Video Analytics pipeline

Lesson 6: Demos, OpenVINO at work

**Lesson 7:** The full flow, from Data to a product using Intel tools-Part 1.

**Lesson 8:** The full flow, from Data to a product using Intel tools-Part 2.

Lesson 9: Summary, intro to next course (200)

# Visual analytics Opportunities









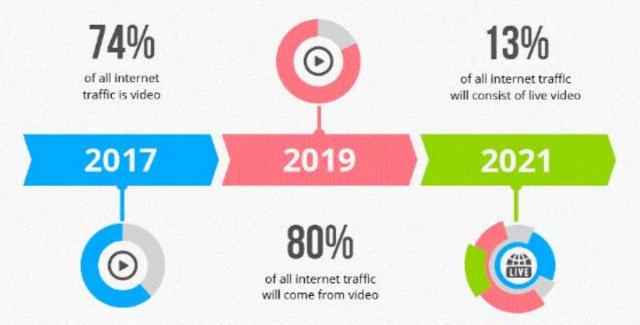


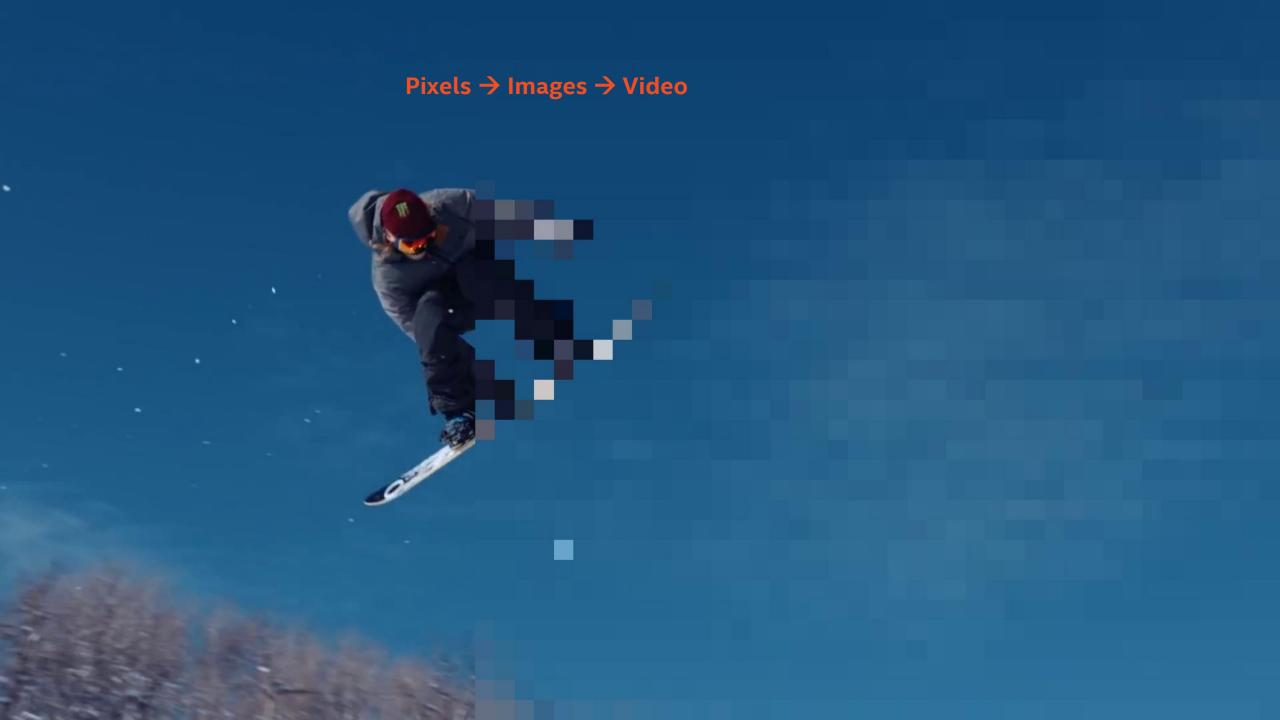


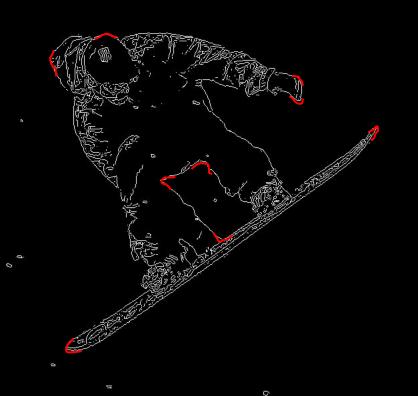
## 500 000 000

people watch Facebook videos every day.

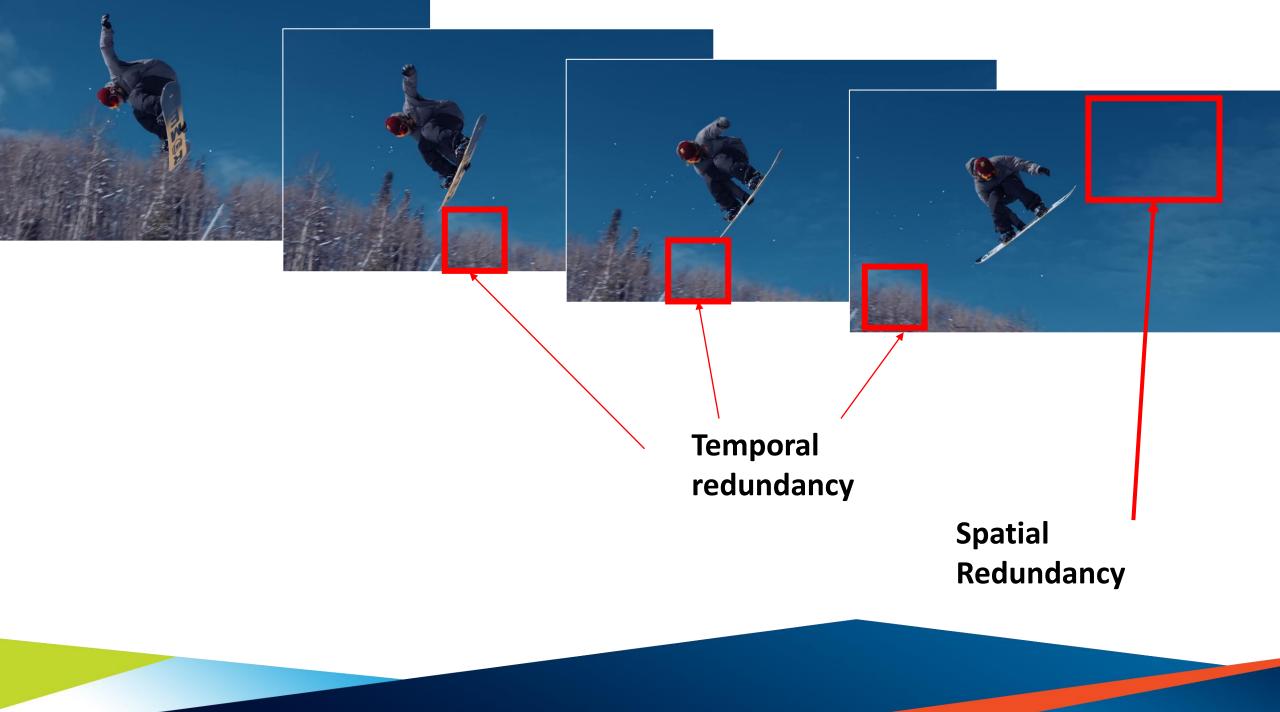
1/3 of the time people spend online is devoted to watching videos.



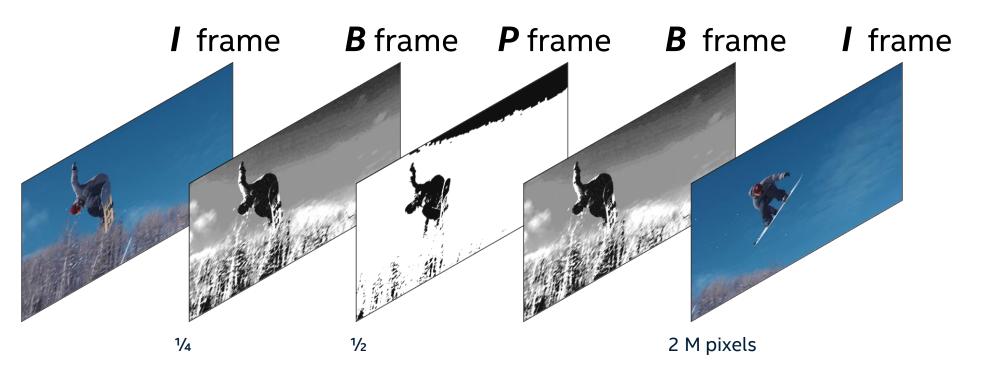




#### features

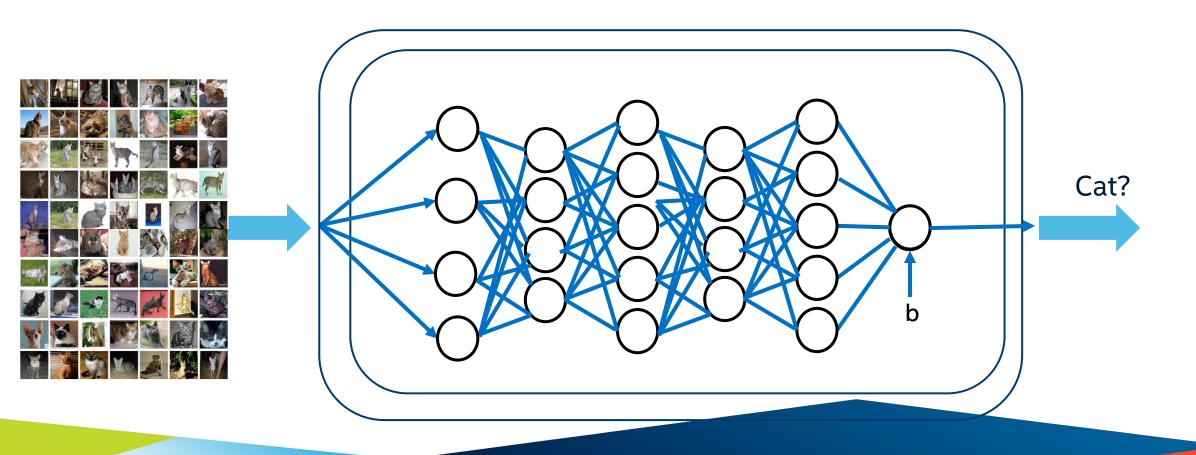






### Forward. Classify/Infer → Define Error

#### **INFERENCE**



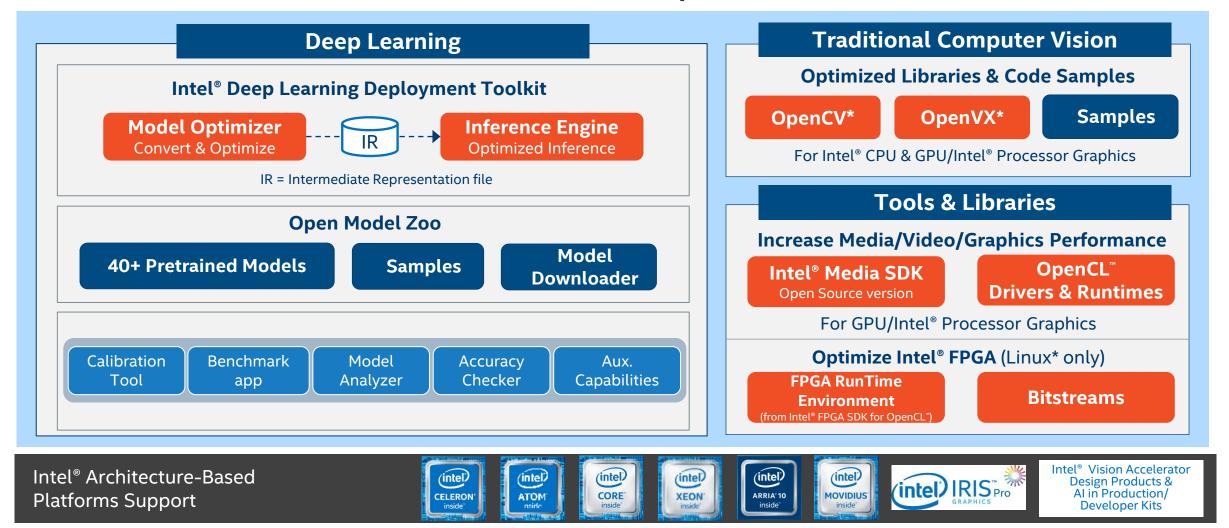


#### **Inference**

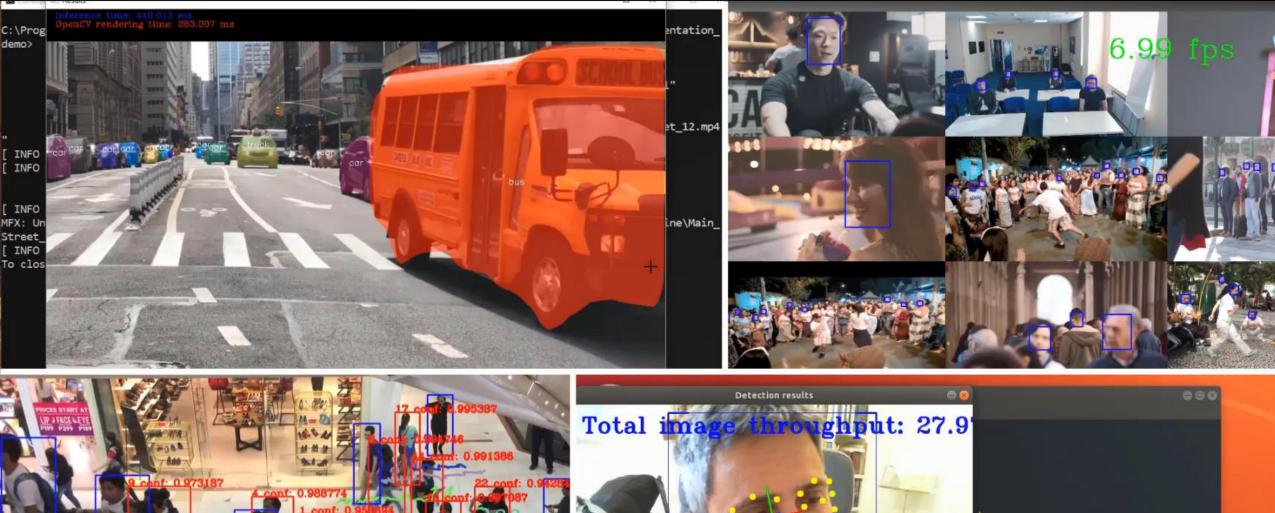
- Use a deep-learning based model to inference
- Could be multiple models



## Intel® Distribution of OpenVINO™ toolkit



OS Support: CentOS\* 7.4 (64 bit), Ubuntu\* 16.04.3 LTS (64 bit), Microsoft Windows\* 10 (64 bit), Yocto Project\* version Poky Jethro v2.0.3 (64 bit), macOS\* 10.13 & 10.14 (64 bit)

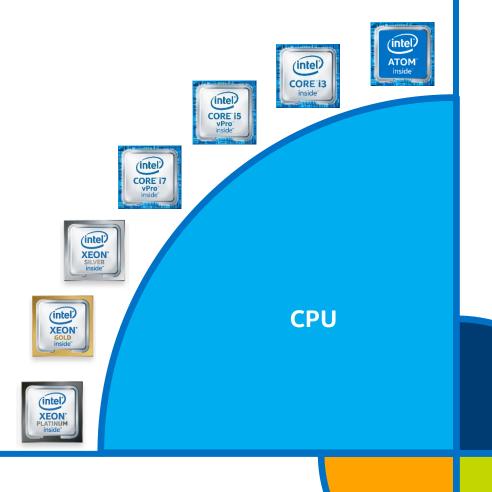






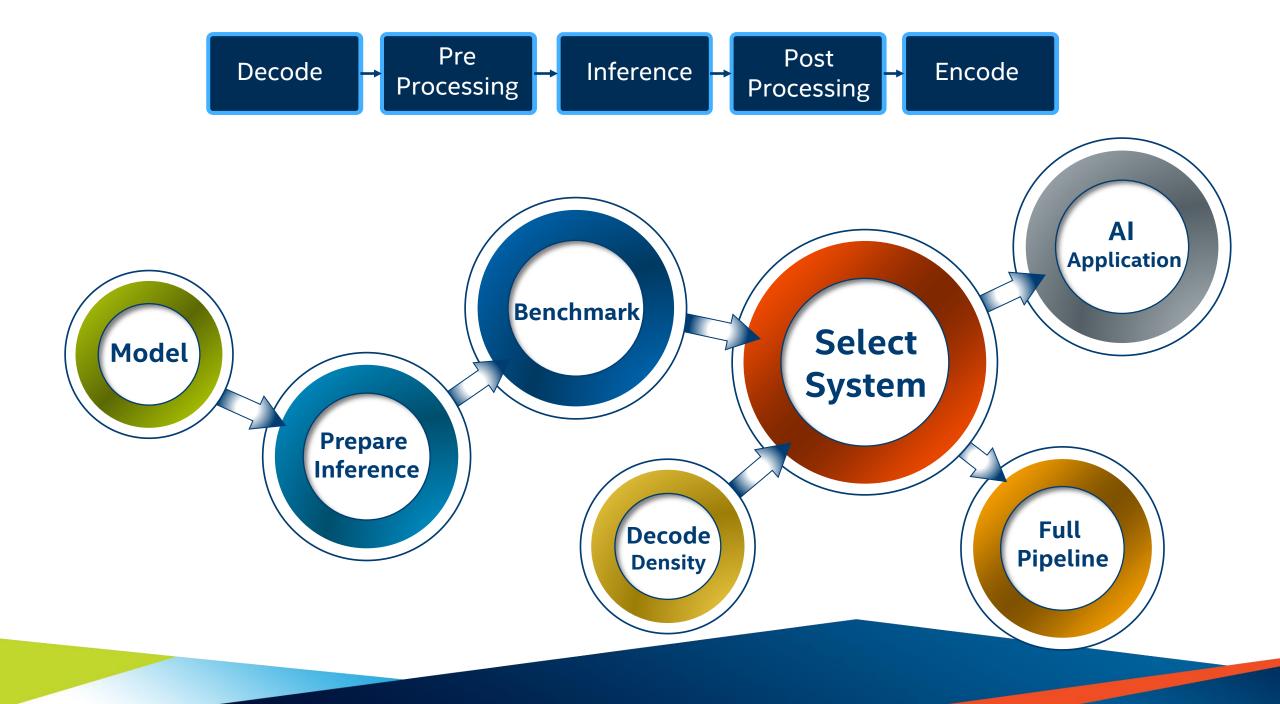
indow and press any key

	ResNet50 Infer/sec	MobileNet-SSD Infer/sec
Apollo-Lake	8	20
Coffee-Lake i3	80	170
Coffee-Lake i7	134	300
Cascade-Lake	1500	2500



ΑI

GPU FPGA



PLEASE FIND A BETTER, AND LEGAL IMAGE HERE!!! CONGRATULATIONS!

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# Introduction to Intel® Distribution of OpenVINO™ toolkit for Computer Vision Application

300 – Expert level

200 – Intermediate level

100 – Beginner level



