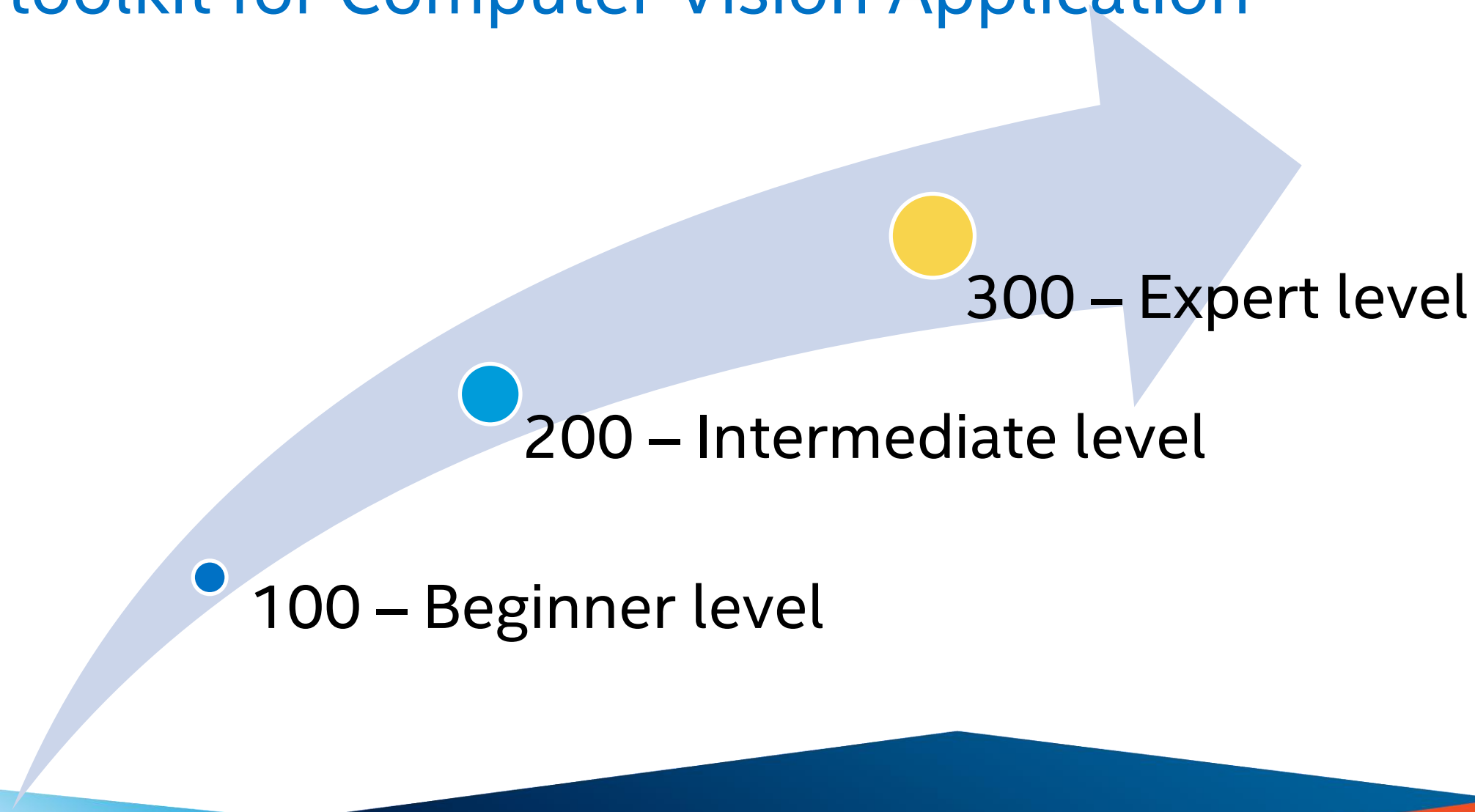
Introduction to Intel® Distribution of OpenVINO™ toolkit for Computer Vision Applications

100: Beginner-level
Lesson 01

wholeHome

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



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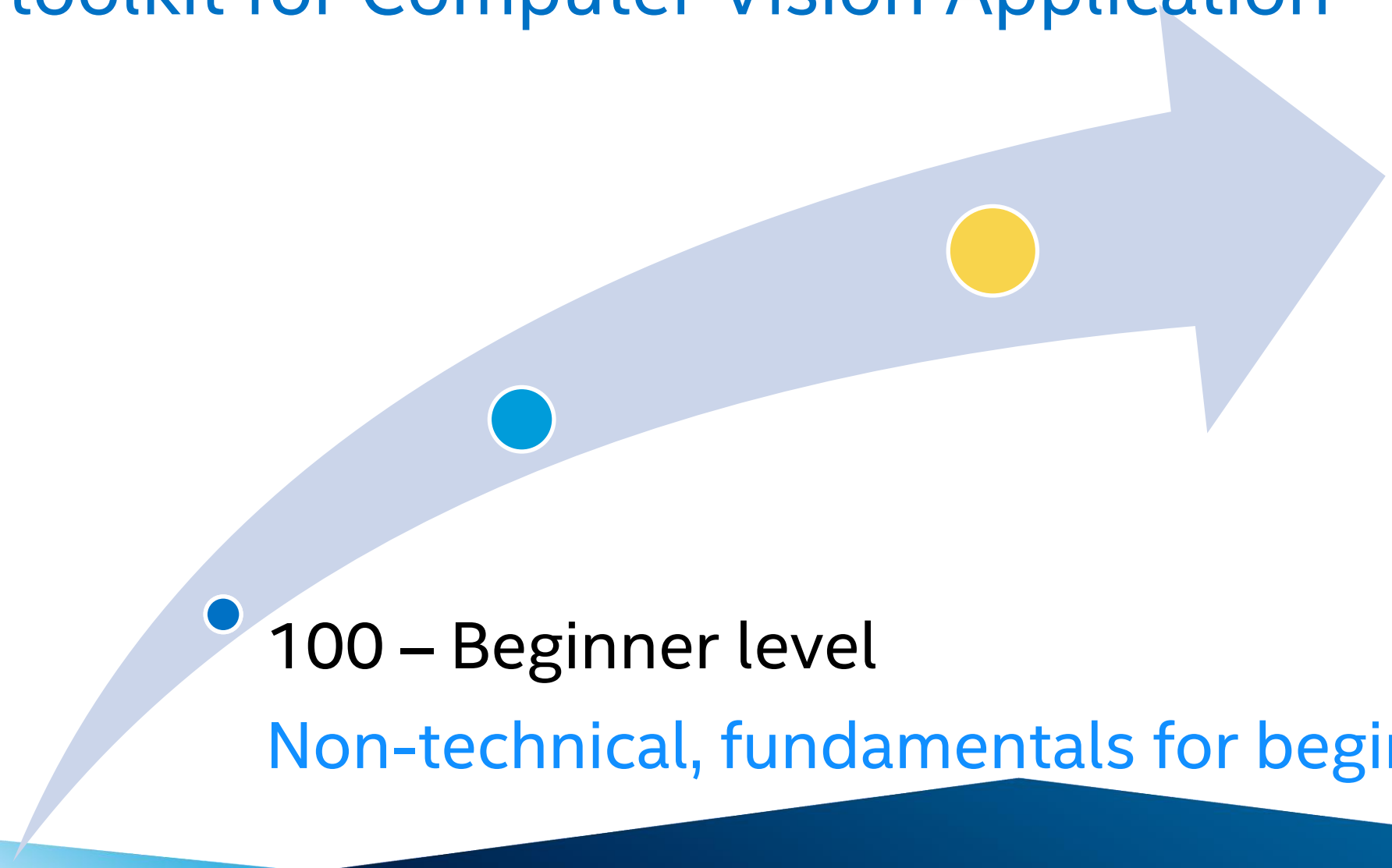

100 – Beginner level

Non-technical, fundamentals for beginners

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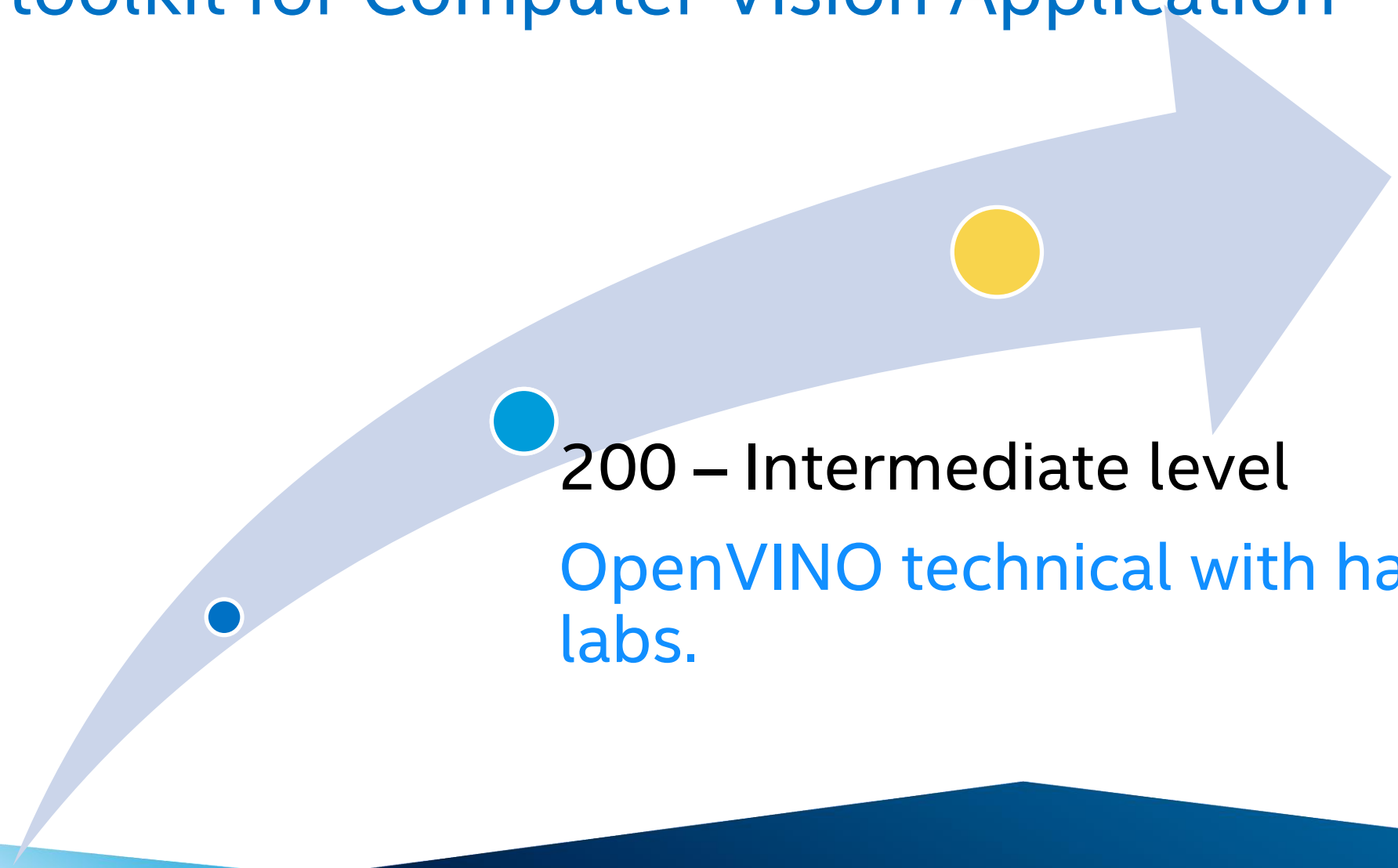

200 – Intermediate level

OpenVINO technical with hands-on labs.

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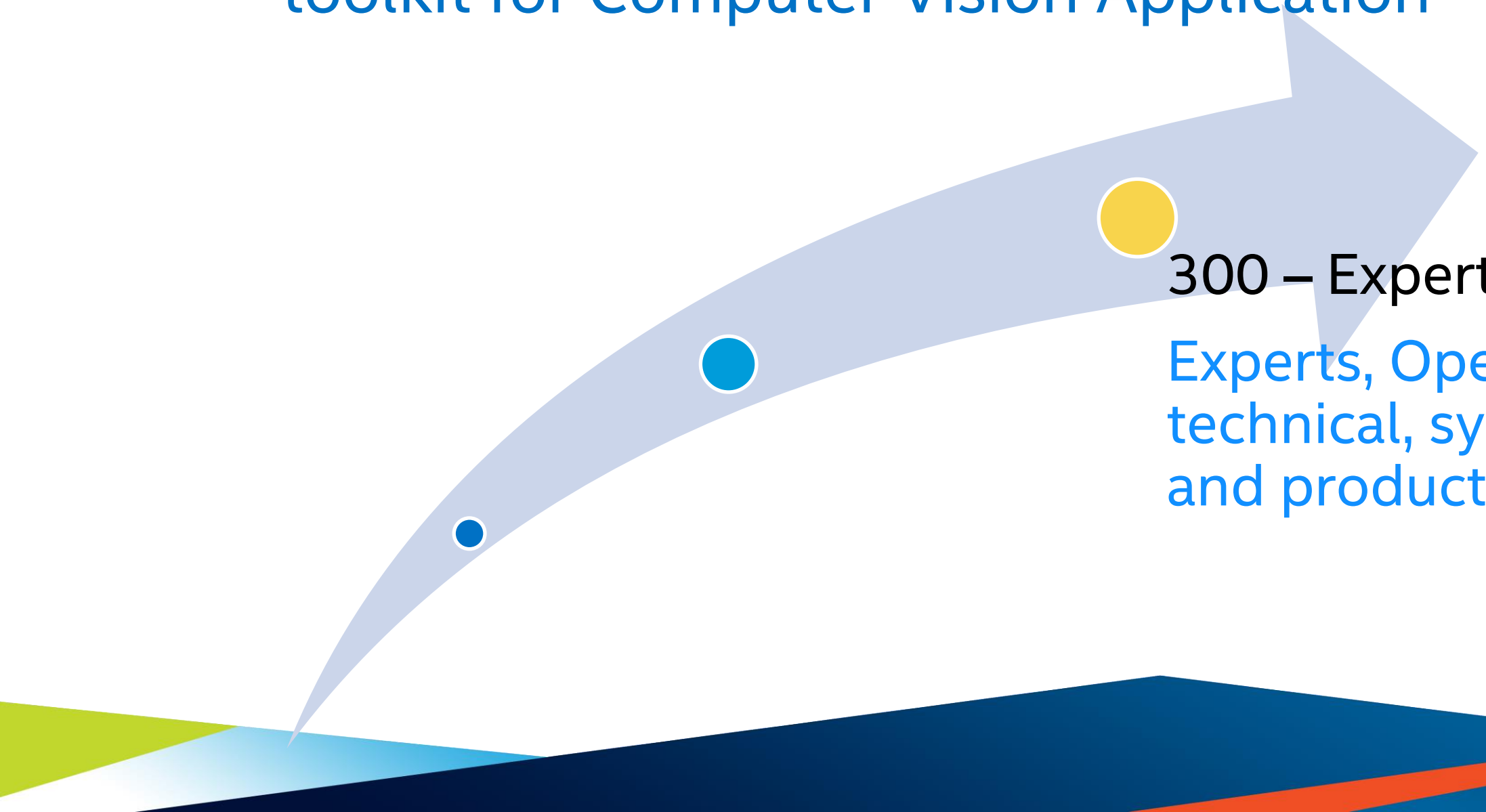


Introduction to Intel® Distribution of **OpenVINO™** toolkit for Computer Vision Application

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.

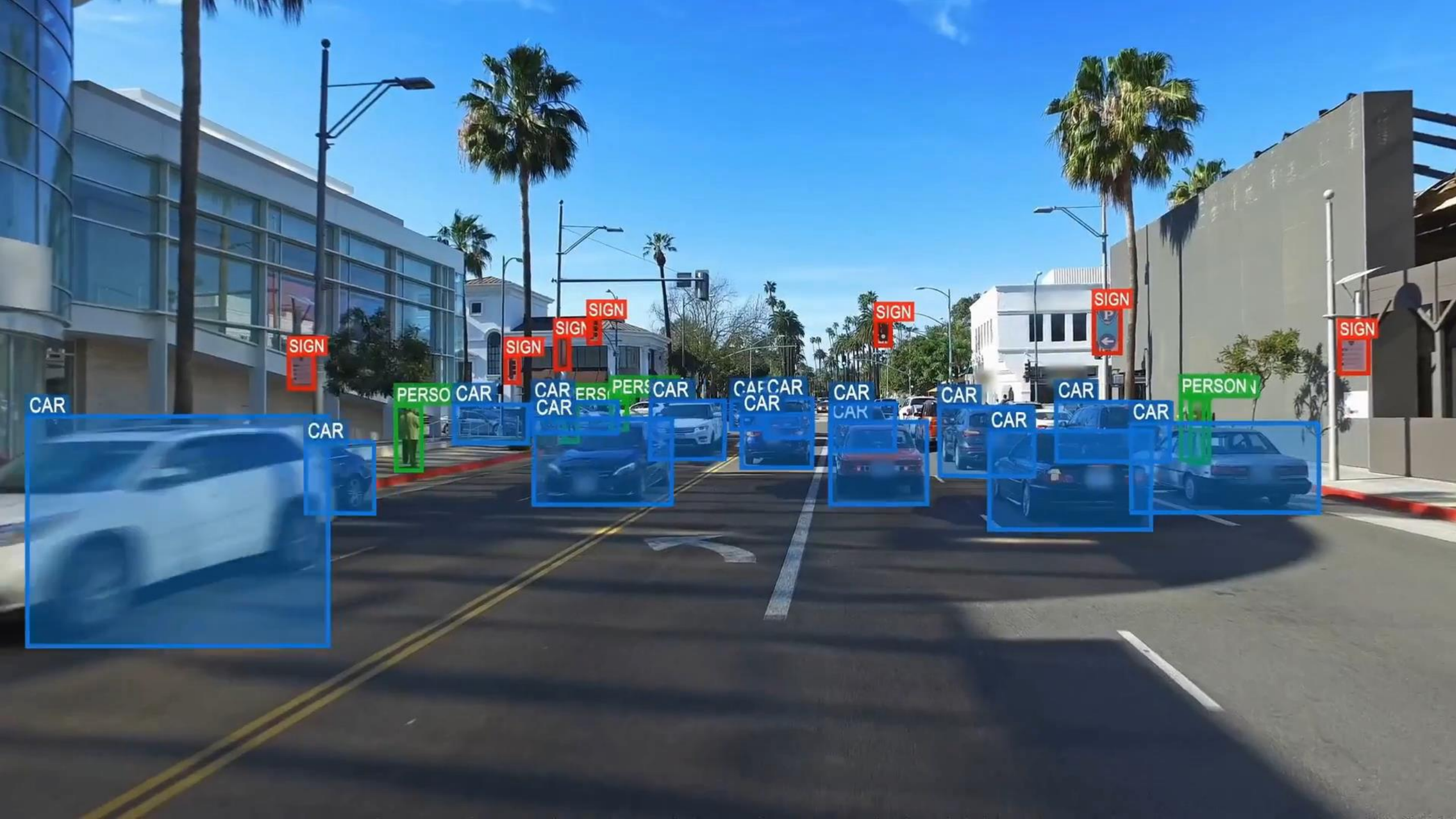
Lesson 8: The full flow, from Data to a product using Intel tools-Part 2.

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

The “Internet of things”

Data is exploding, small portion is used

AI is changing everything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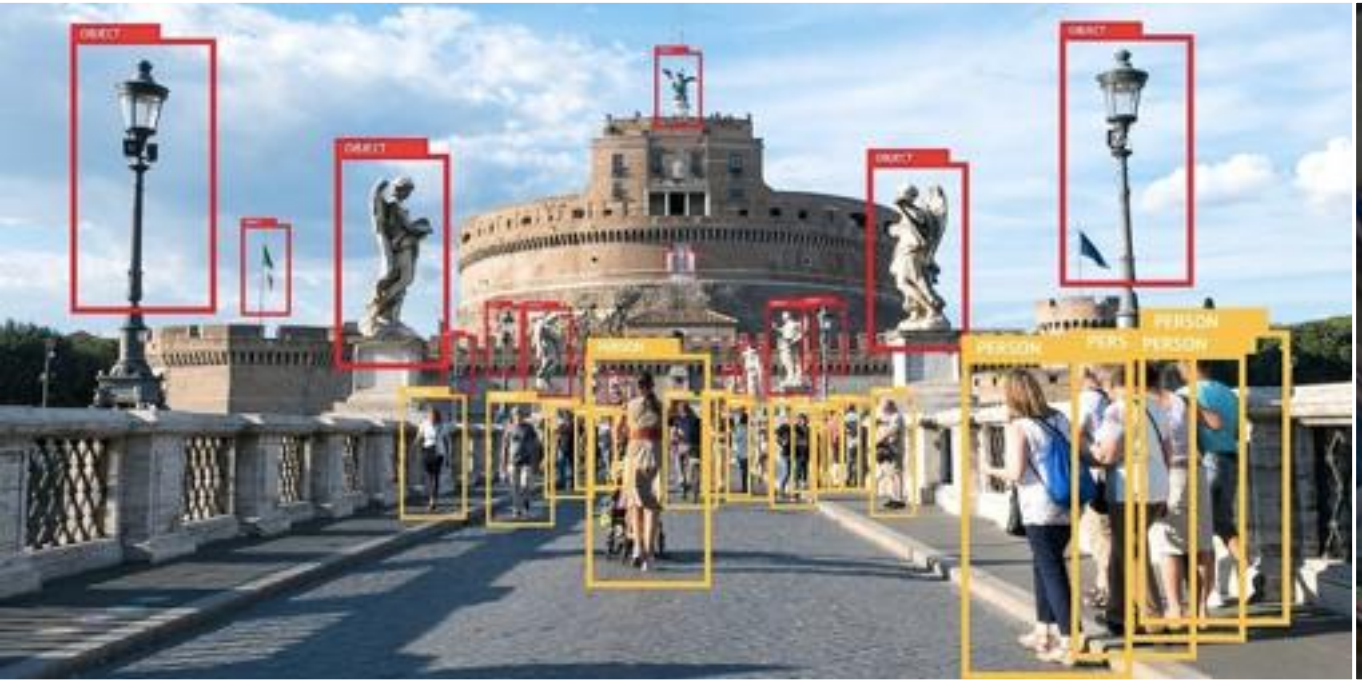
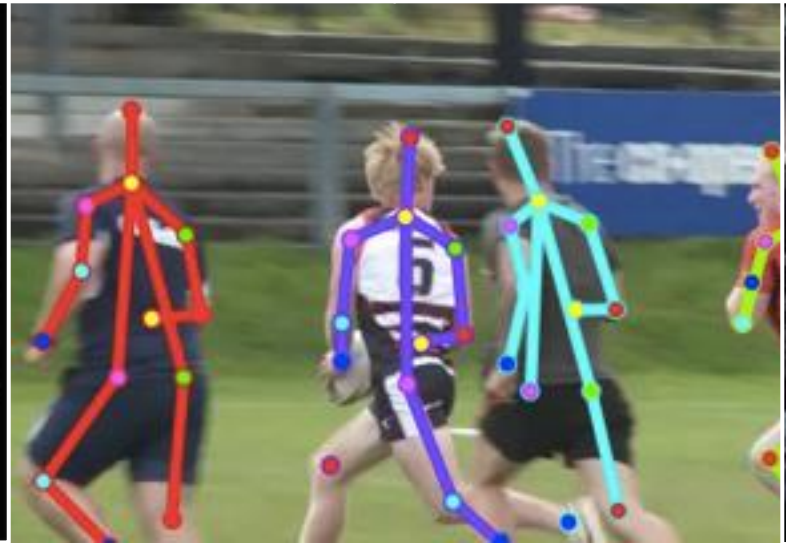
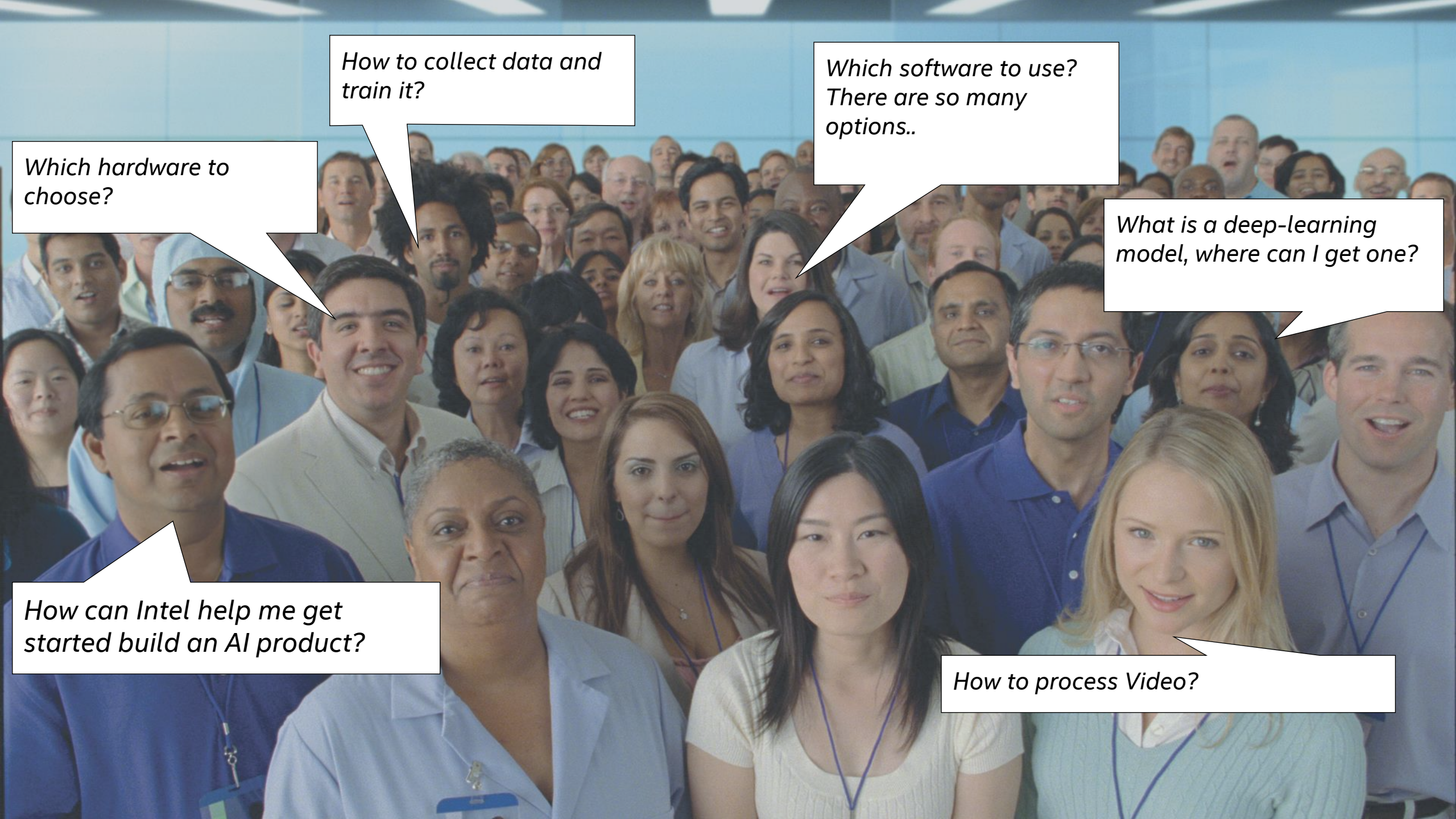
Visual analytics Opportunities






How to collect data and train it?
Which software to use? There are so many options..
Which hardware to choose?
What is a deep-learning model, where can I get one?
How can Intel help me get started build an AI product?
How to process Video?

Intel® Distribution of OpenVINO™ toolkit

Open visual inference and neural network optimization

A comprehensive software solution for AI SW designers

A summary

- **AI** is our only way to manage the huge amount of data that will be gathered by the “internet of things”
- **AI** will change everything we do in the future and it’s probably the best way to building a smart system
- **AI** is a wide range of capabilities – we will focus on **Vision applications**
- There are **many challenges to** building an AI application
- **OpenVINO** is Intel toolkit for building AI applications
    - It’s free, has open-source version, easy to use
    - And has many resources that can help you get started