

Computer Vision trends An Intel, hardware-centric perspective

Frank Ghenassia, Intel Israel March 2015

Intel

Computer vision becomes mainstream across industries





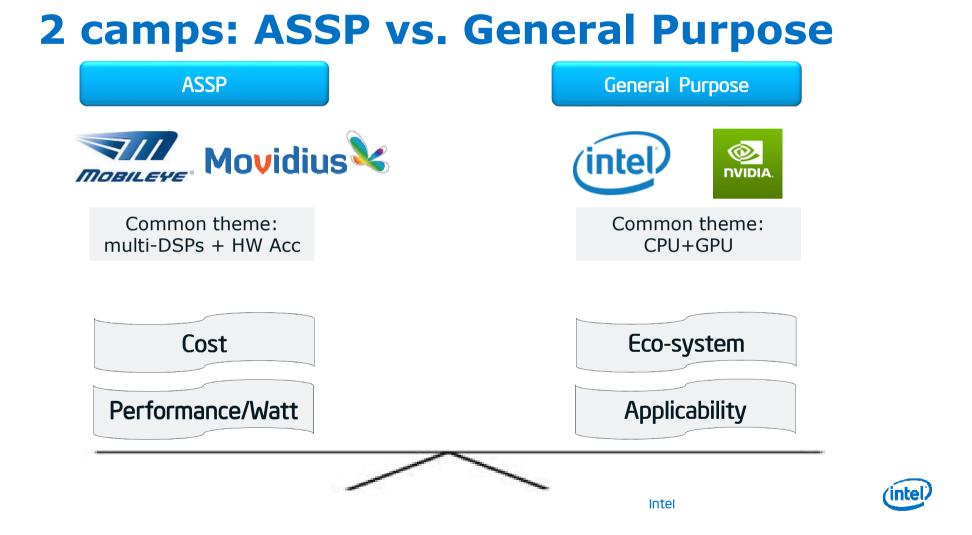
Intel

Plethora of emerging devices/apps









Intel CV middleware

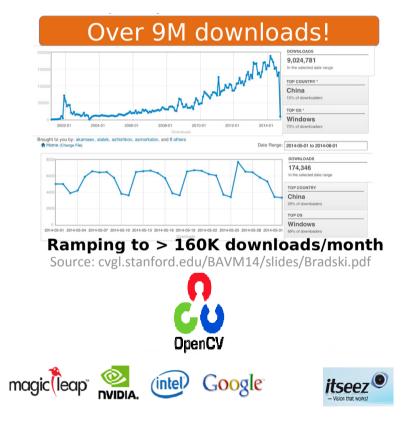
- Based on standards when available
- Contribute to openCV to enhance transition from prototyping to production

5



(intel)

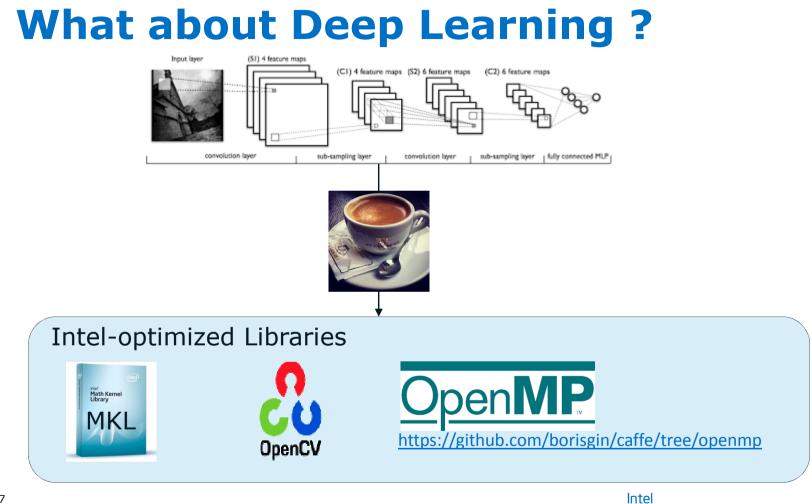
Eco-system around openCV and RealSense







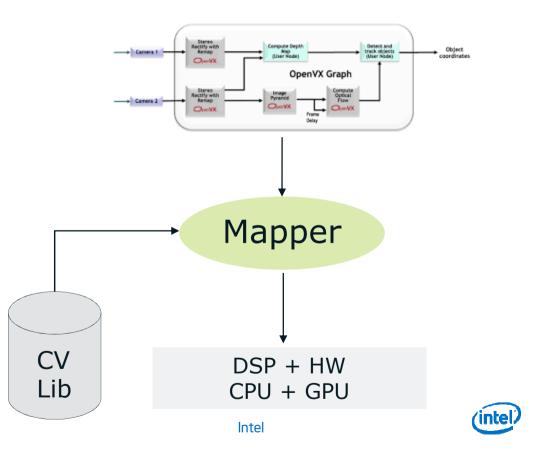
(intel)





A potential best-of-both worlds ?

- openVX: A standard for describing CV pipeline
- A mapper to translate an abstract pipeline into HW "commands"
 - ASSP performance withAdvantages of a GeneralPurpose machine



Take-aways

- Computer vision: getting ready for primetime, but still in its infancy !
- Program on Intel platforms today using openCV, RealSense and underlying libraries <u>intel.com/realsense</u> <u>software.intel.com/en-us/intel-inde</u> <u>opencv.org</u>
- Performance of an ASSP with flexibility of General Purpose ?
- Want to know more ? Influence ? Participate ?

Come and discuss ! frank.ghenassia@intel.com

