1) Repositories of customizable, portable and "plug&play" AI/SW/HW components with exposed design and optimization choices **CK JSON API CK JSON API CK JSON API Models** Libraries Al frameworks cuDNN AlexNet TensorFlow **ArmCL** GoogleNet Caffe **OpenBLAS** VGG Caffe2 ResNet **ViennaCL CNTK** SqueezeNet **CLBlast** Torch **SqueezeDet cuBLAS MXNet SSD** TVM **MobileNets** gemmlowp **CK JSON API Targets** CK JSON AP **Data sets** KITTI Linux Windows coco **MacOS Android** VOC **Hardware ImageNet CK JSON API CPU GPU Real life objects** from the **NN** accelerators **DSP**

2) Customizable workflow framework for automatic, full stack AI/SW/HW co-design Assemble scenarios such as image classification as LEGO™ **CK JSON API CK JSON API CK JSON API CK JSON API** Models **Data sets** Software Hardware

FPGA

Simulators

community

3) Open ACM ReQuEST tournaments to share, run and optimize emerging workloads such as deep learning across diverse models, data sets and platforms with GPU, DSP, NN accelerators ...

cKnowledge.org/request

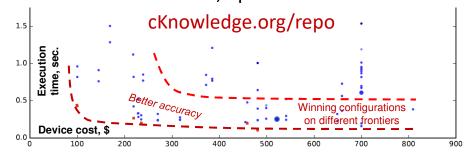








4) Live scoreboard to detect winning AI/SW/HW configurations and workflows – they become available for further customization, optimization and reuse via CK



Winners in different co-design categories

