

New idea, model, algorithm, library, hardware



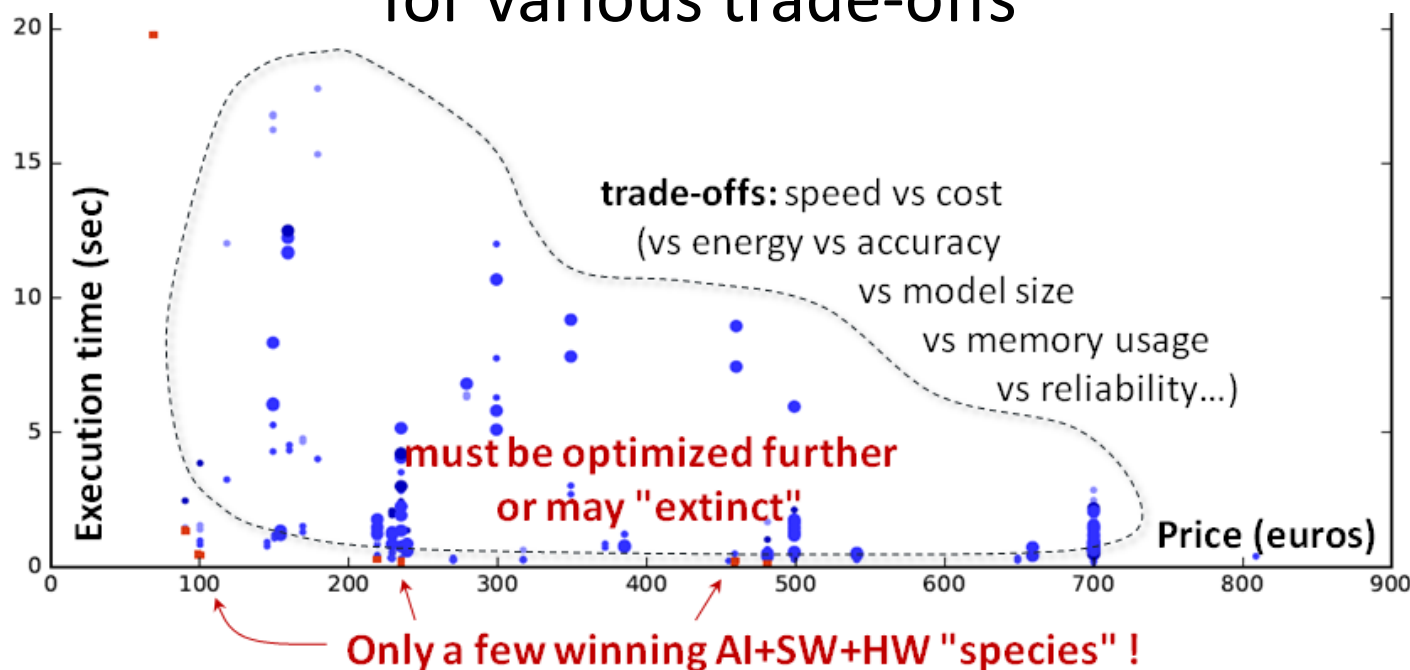
Assemble portable and customizable
Collective Knowledge workflows
targeting CPU,GPU,DSP,NN ...



Run and optimize across diverse models, data sets
and platforms with GPU,DSP,NN accelerators ...

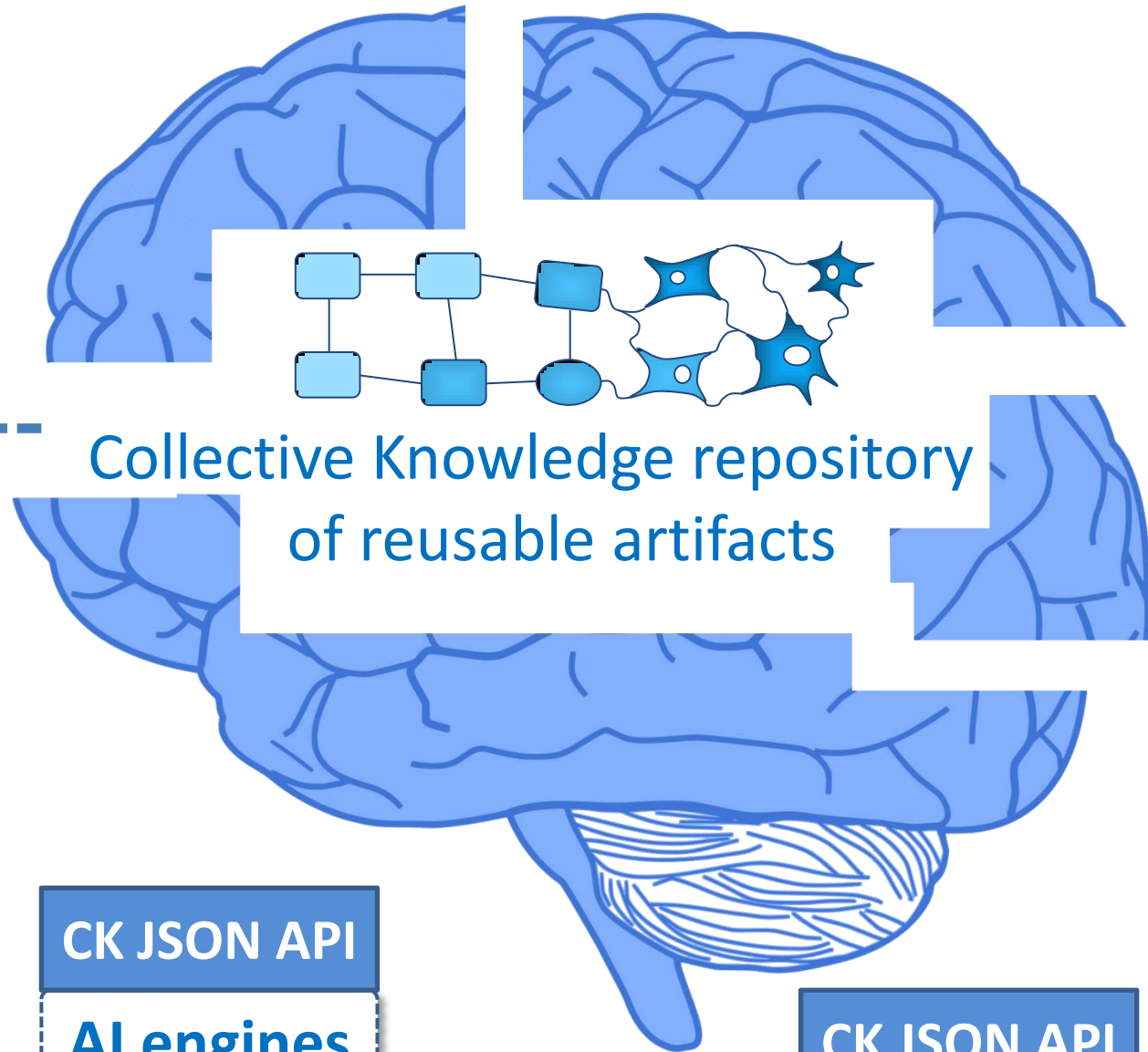
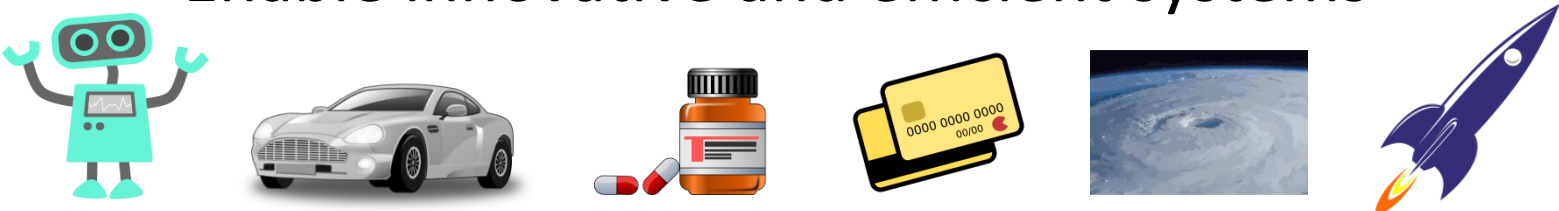


Select winning/surviving configurations (species)
for various trade-offs



Share winning artifacts and workflows

Reproduce, extend and build upon past research
Accelerate knowledge discovery, reduce R&D costs
Enable innovative and efficient systems



CK JSON API

AI engines

TensorFlow

Caffe

Caffe2

CNTK

Torch

MXNet

...

CK JSON API

Datasets

KITTI

COCO

VOC

ImageNet

Real data

...

CK JSON API

Models

AlexNet

GoogleNet

VGG

ResNet

SqueezeNet

SqueezeDet

SSD

MobileNets

...

CK JSON API

Libraries

OpenBLAS

ViennaCL

clBLAS

CLBlast

cuBLAS

cuDNN

Eigen

gemmlowp

ARMCL

...

CK JSON API

Targets

Linux

Windows

MacOS

Android

...