

Research ideas
AI, ML, ...

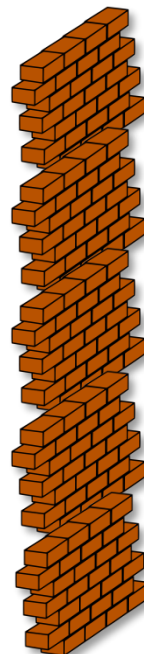
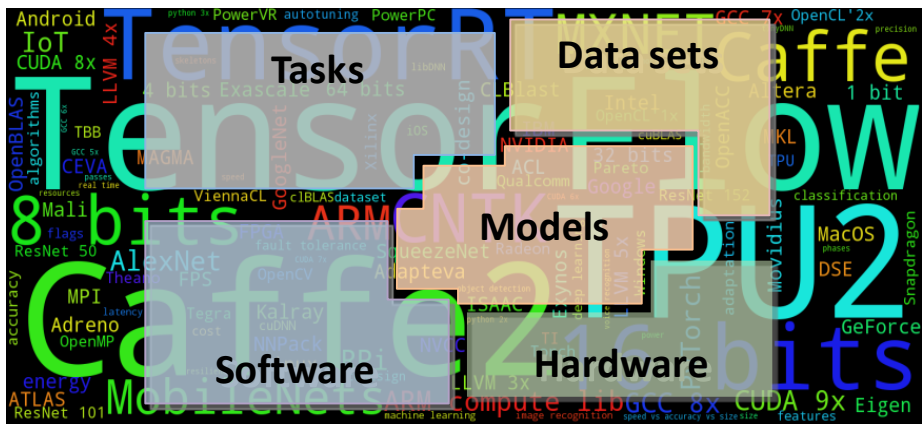
Ideas often get stuck in the prototyping stage, as the complex and ad-hoc software/hardware co-design process is a barrier to productization

Production use across diverse devices
(edge, IoT, mobile, cloud, supercomputers)



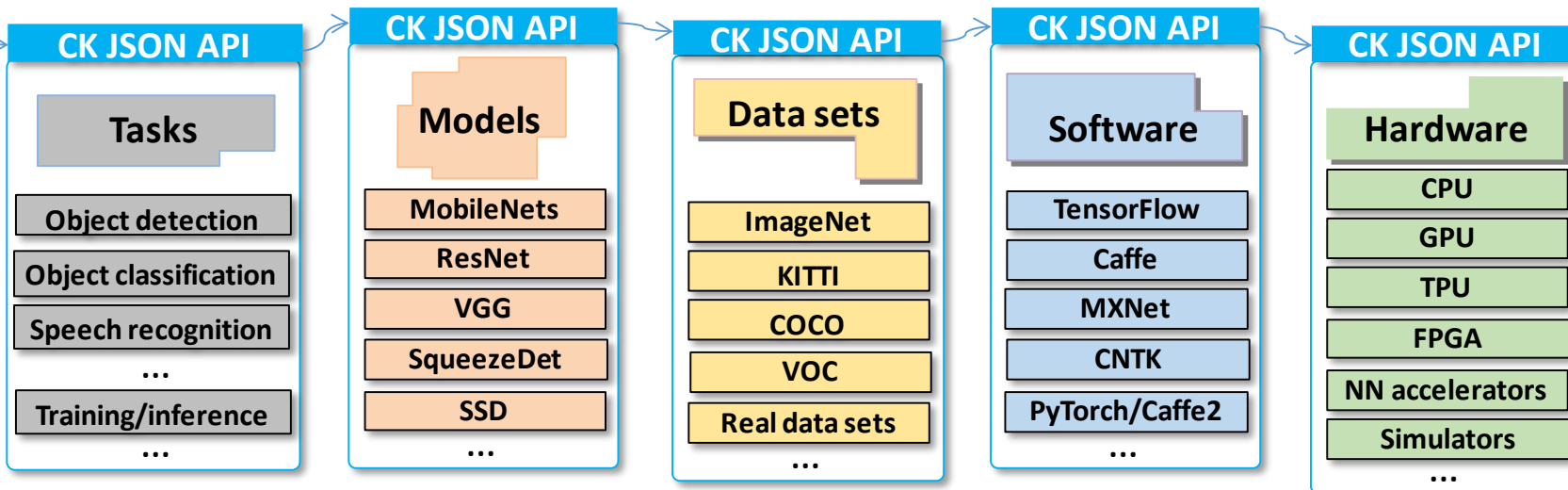
while trading off multiple constraints
(speed, accuracy, energy, size, costs ...)

Industry adopts best or novel reproducible workflows presented at associated conferences



The Collective Knowledge approach: decompose the complex process into portable, customizable and reusable workflows & components

CK multi-objective autotuning API



A live scoreboard allows to browse, compare and reproduce exploration results under different co-design categories

cknowledge.org/repo

Invite the ML/systems community to share components and search for Pareto-optimal solutions