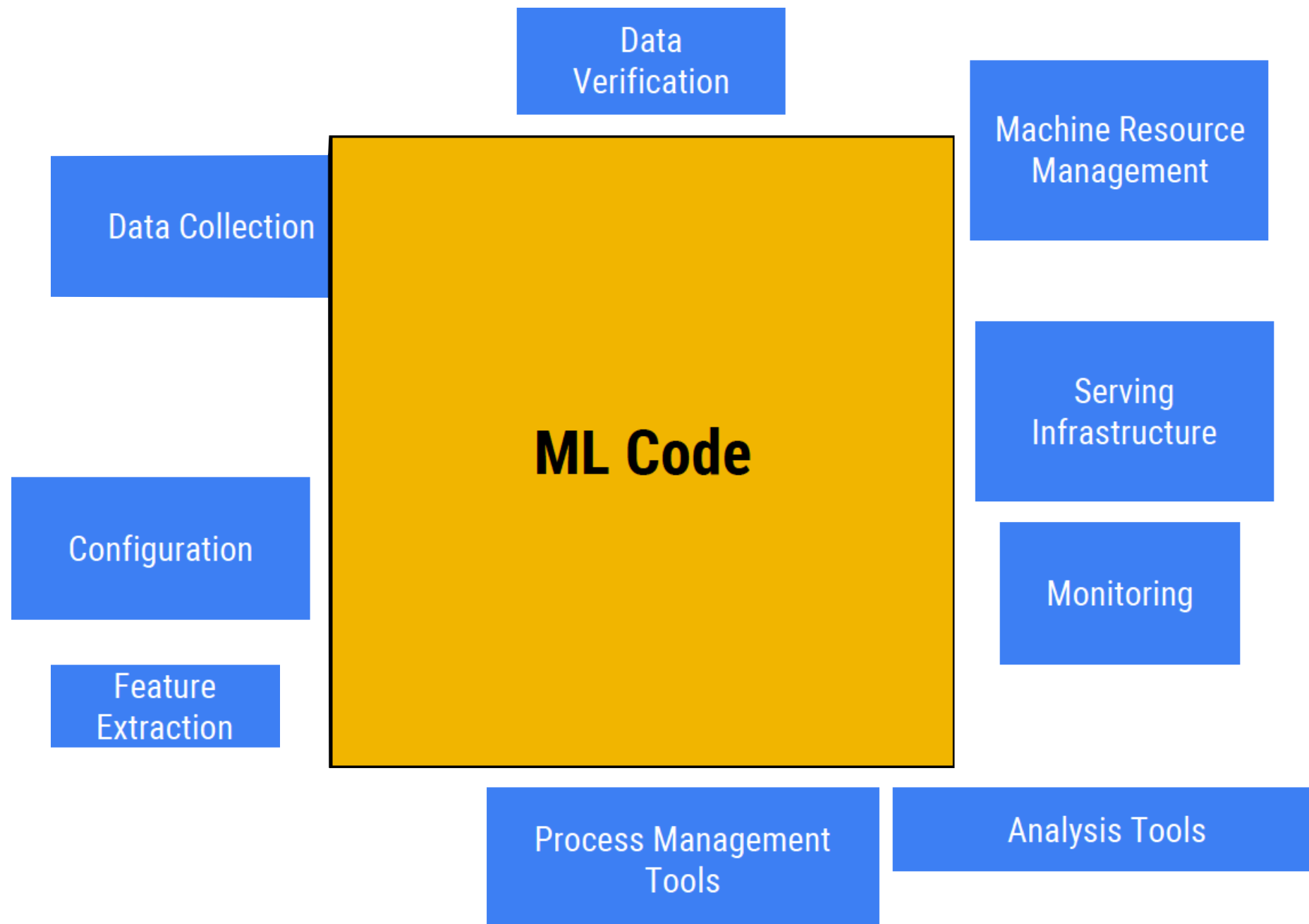


Introduction to Kubeflow

Amit Saha

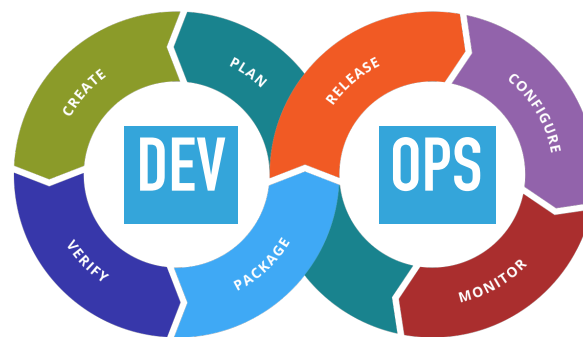
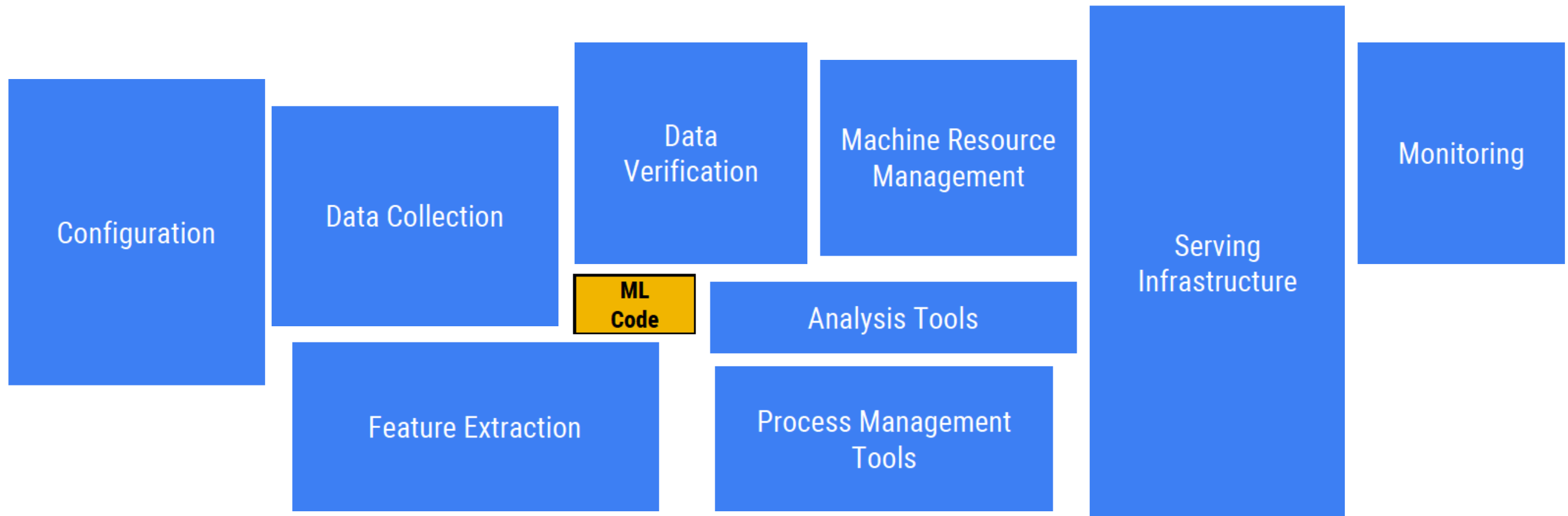
cpsg-ai @office of the cloud CTO

PERCEPTION



SOURCE : KUBECON 2018 (BUDAPEST) TALK: BUILDING ML PRODUCTS WITH KUBEFLOW

REALITY



SOURCE : KUBECON 2018 (BUDAPEST) TALK: BUILDING ML PRODUCTS WITH KUBEFLOW

THE BIG QUESTION

What should be a simple and consistent
AI strategy in the multi-cloud world?

EXPLOSION OF CHOICES!

DEVSECOPS TOOLS TO USE? KUBERNETES DOCKER OPENSIFT ...

WHAT TOOL CHAINS TO USE? TENSORFLOW PYTORCH CAFFE ...

HOW DO WE MANAGE THE METADATA? DIFFERENT MODELS COMPARISON OF MODELS



OUR BET

DEVSECOPS TOOLS TO USE? KUBERNETES

EXTREME SCALABILITY, WIDESPREAD ACCEPTANCE

WHAT ML TOOL CHAINS TO USE? TENSORFLOW PYTORCH CAFFE ...

NO VENDOR LOCK-IN, EXTENSIBLE

ML LIFECYCLE MANAGER KUBEFLOW

SEPARATES DEVELOPMENT FROM DEPLOYMENT OF ML MODELS

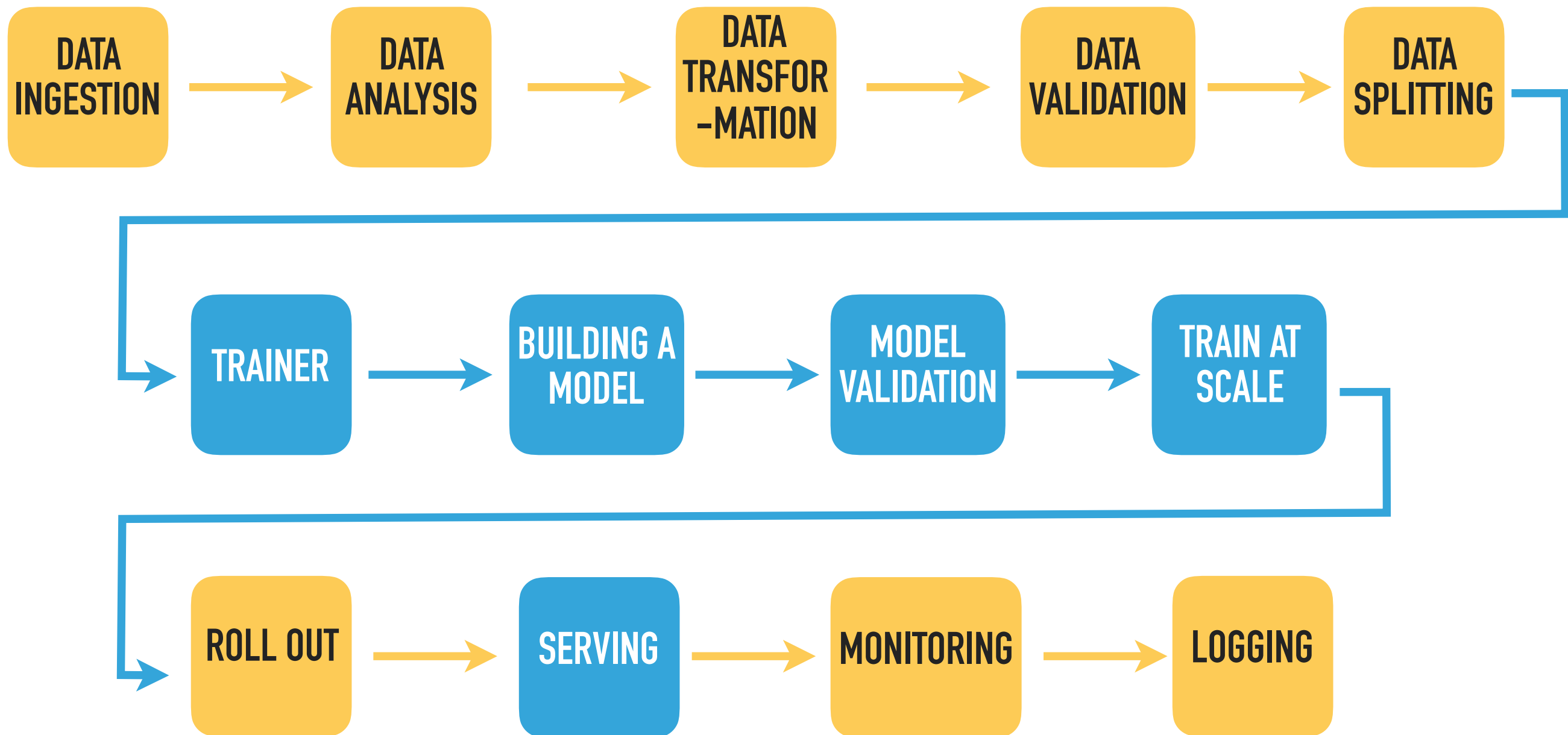
entirely open source



Kubeflow

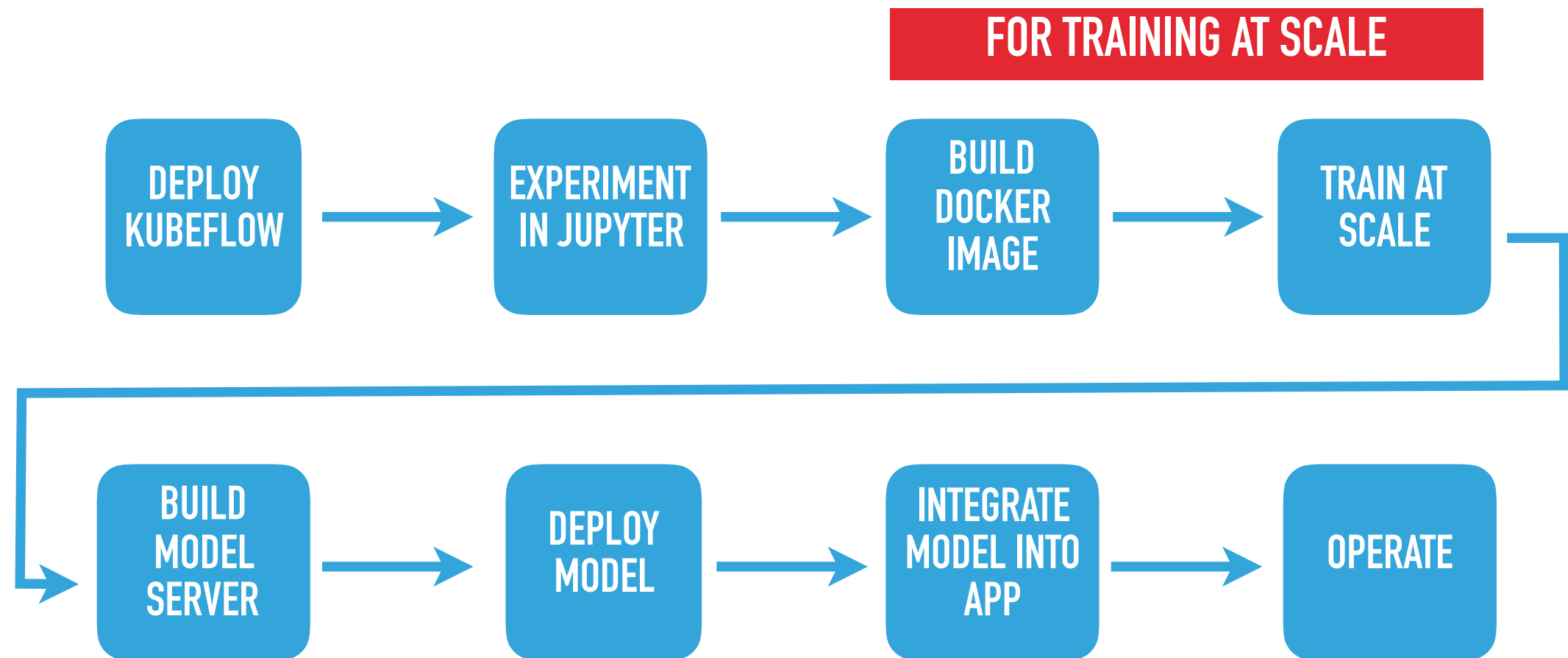
**The Kubeflow project is dedicated to making
deployments of machine learning (ML)
workflows on Kubernetes **simple, portable
and scalable.****

ML PLATFORM



SOURCE : KUBECON 2018 (BUDAPEST) TALK: KUBEFLOW DEEP DIVE

KUBEFLOW USER EXPERIENCE



SOURCE : KUBECON 2018 (BUDAPEST) TALK: KUBEFLOW DEEP DIVE

KUBEFLOW

SINCE FEB. 2018

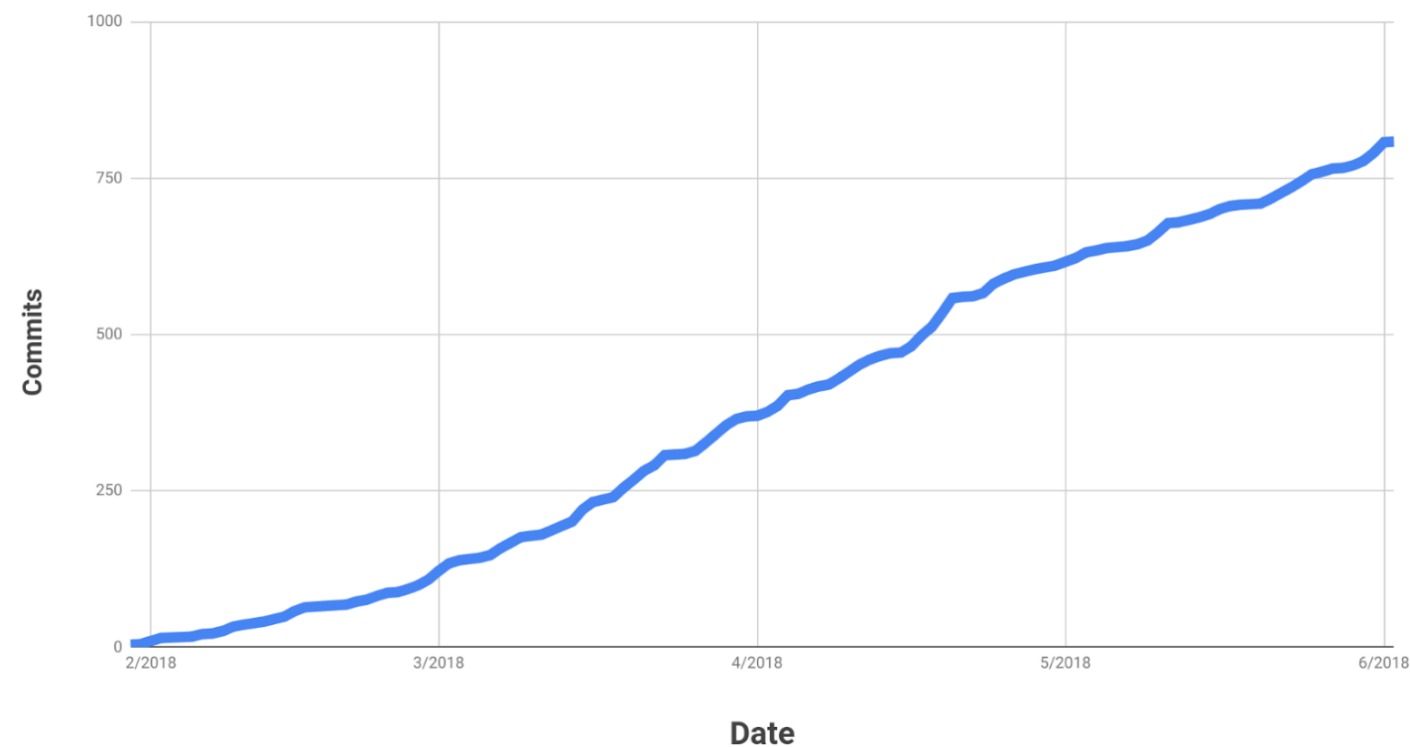
1000+ COMMITS

100+ COMMUNITY CONTRIBUTORS

20+ COMPANIES

Momentum!

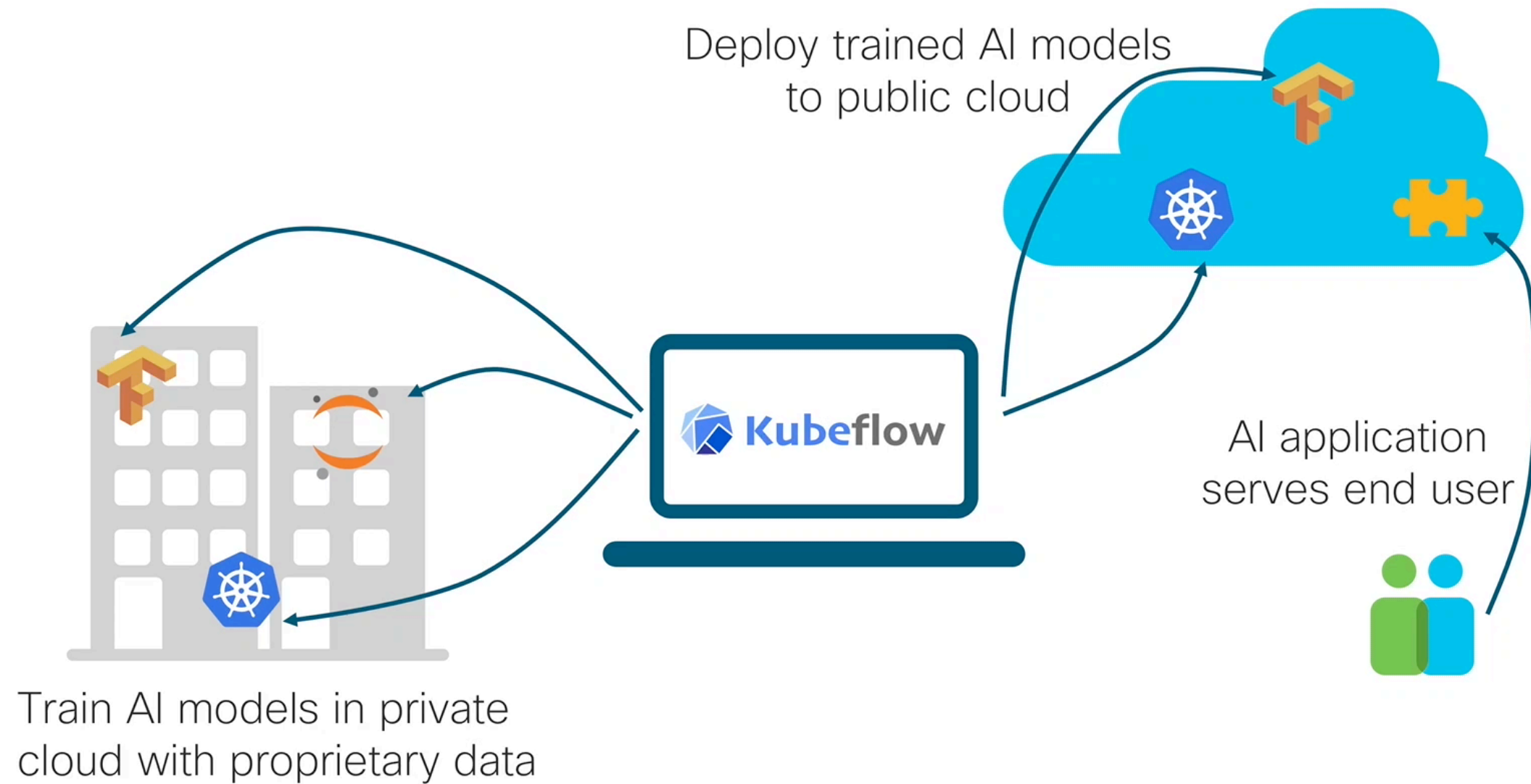
Commits Since Launch



- 1000+ commits
- 100+ Community contributors
- 20+ Companies contributing, including:



DEMO



RESOURCES

- ▶ **Source code:** <https://github.com/kubeflow/kubeflow>
- ▶ **CPSG Generated Workflow:** <https://github.com/CiscoAI/kubeflow-workflows>
- ▶ **KubeCon/CloudNativeCon Talks:** <https://kccnceu18.sched.com/?s=kubeflow>

Thanks!
