

**AI for Good Workshop**

March 2019

Session 2

# **Artificial Intelligence for everyone**

**Strategy for Success**

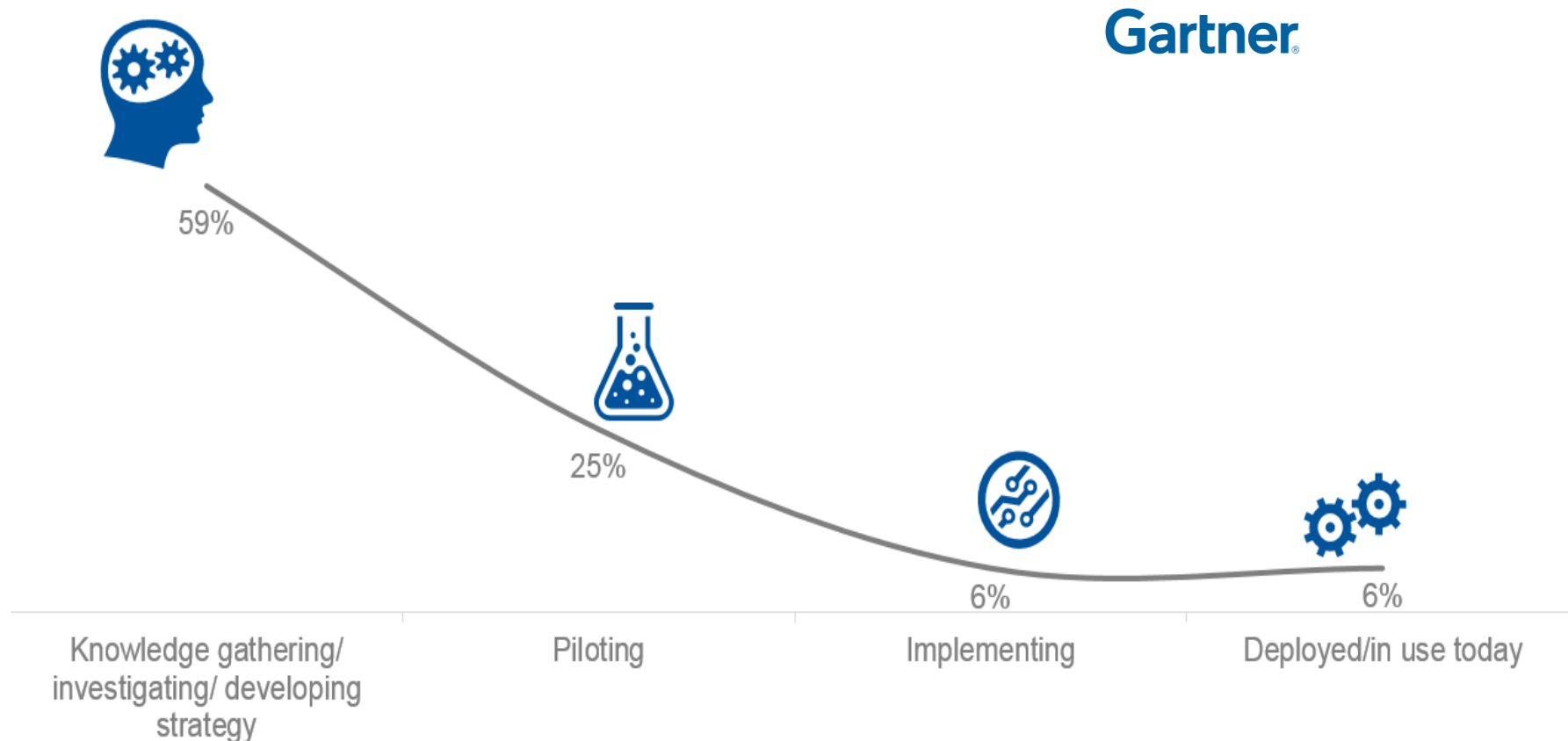
**How to succeed in AI journey?**

<https://sites.google.com/view/AIforEveryone>

# Envisioning to deploy Deep Learning?

## What is your strategy to lead the AI wave ?

### Current Stage of Artificial Intelligence (AI) Solutions Adoption



**Google DeepMind To Use  
Machine Learning To Detect  
Degenerative  
Eye Diseases  
Early**



# What is your AI strategy?

## How to succeed in Applied AI ?

☐ **Do you have a Strategy to jump start your AI journey?**

☐ friendly framework ?

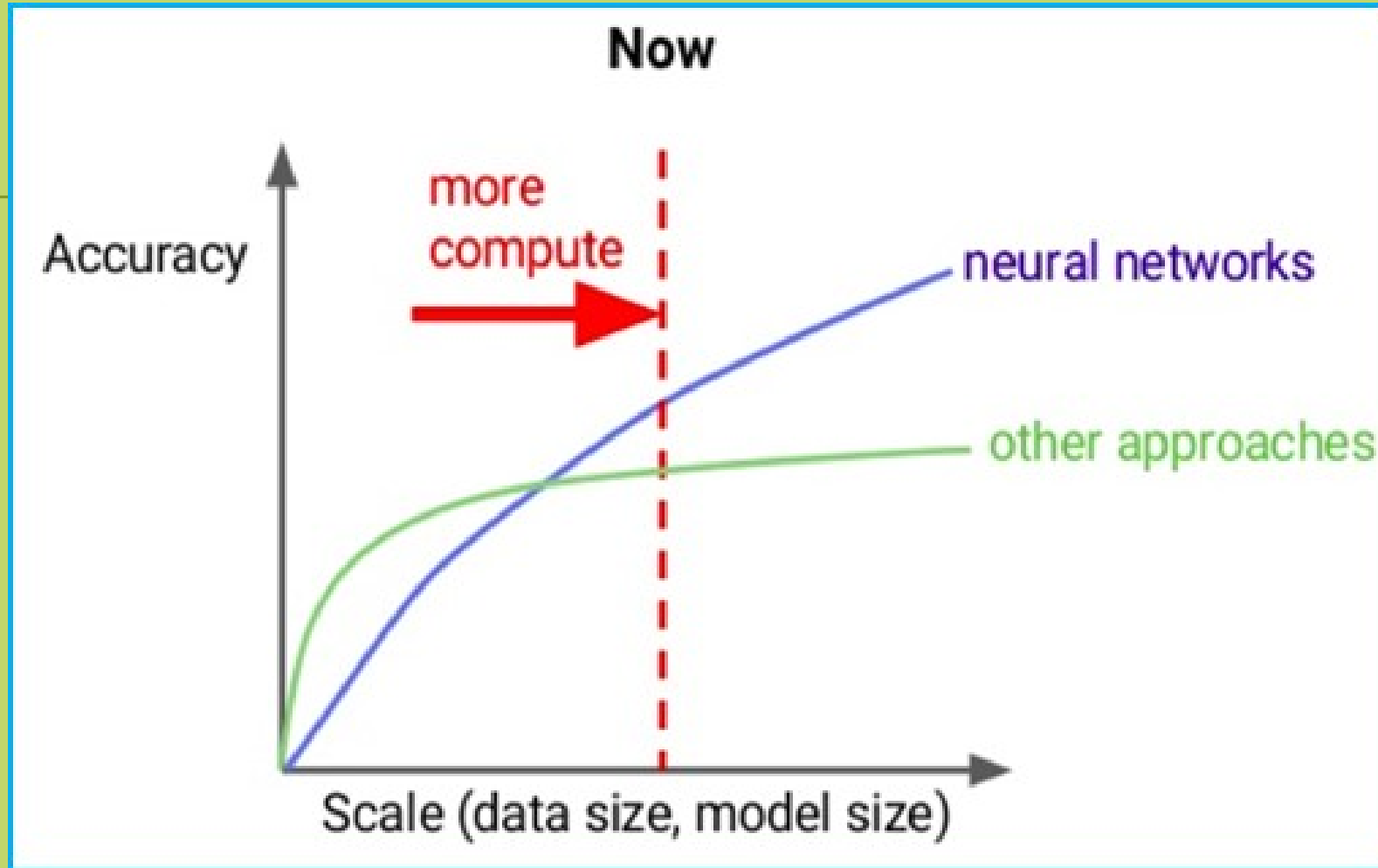
☐ instant setup?

☐ **Do you have a Strategy to develop successful AI Products?**

☐ deep distributed training?

☐ production grade inference?

# How to succeed in AI?

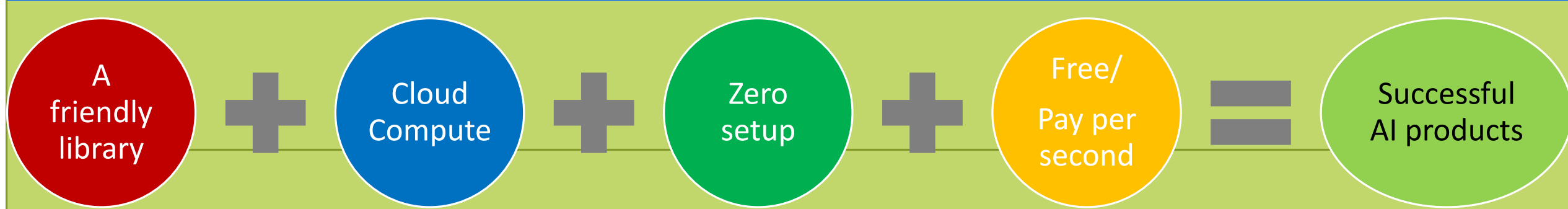


Credits: Jeff Dean at AI Frontiers:

Trends and Developments in Deep Learning Research, Google Brain

Acknowledgments & Credits are mentioned to inspirational resources presented in the end of Slide. For more like this, <https://sites.google.com/view/AIforEveryone>

# How to develop successful AI products ?



# Need the fastest path to success in AI ?

## Experimenting with Deep Learning

- ✓ Prioritize developer experience: API designed for human beings. Follows best practices !
- ✓ Rapidly prototype: An API focus on enabling fast experimentation
- ✓ Get State of art results in Deep Learning: Winners at Kaggle competitions often use this API
- ✓ Easily turn idea into products: Deploy on Google Cloud, AWS, Azure, iOS, Android, browser Raspberry
- ✓ Avoid lock you into one ecosystem: Keras development is backed by Google, AWS, Microsoft, Nvidia

“Making  
deep learning  
accessible to everyone”



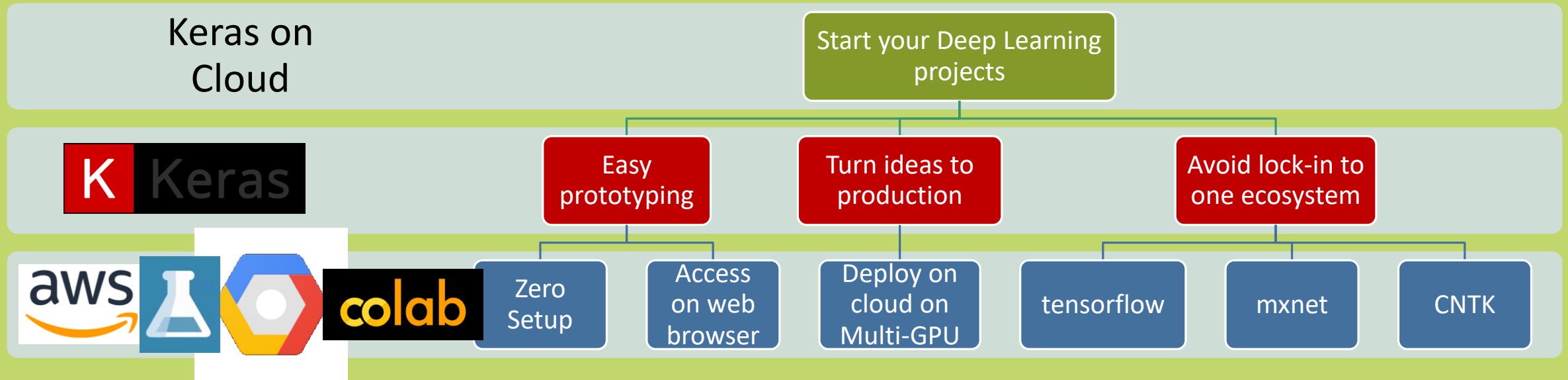
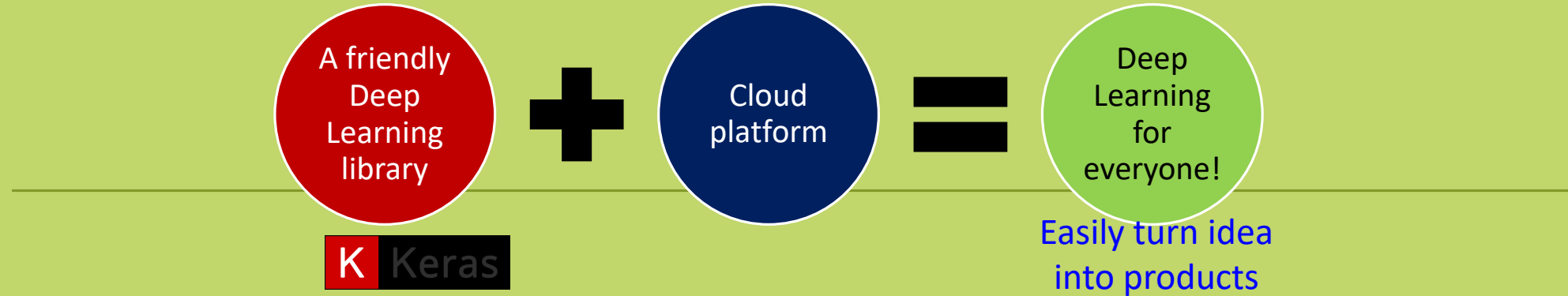
<http://keras.io>



Deep Learning with Python  
by François Chollet  
ISBN 9781617294433

# Need a Scalable AI Product Strategy ?

## Keras on Cloud

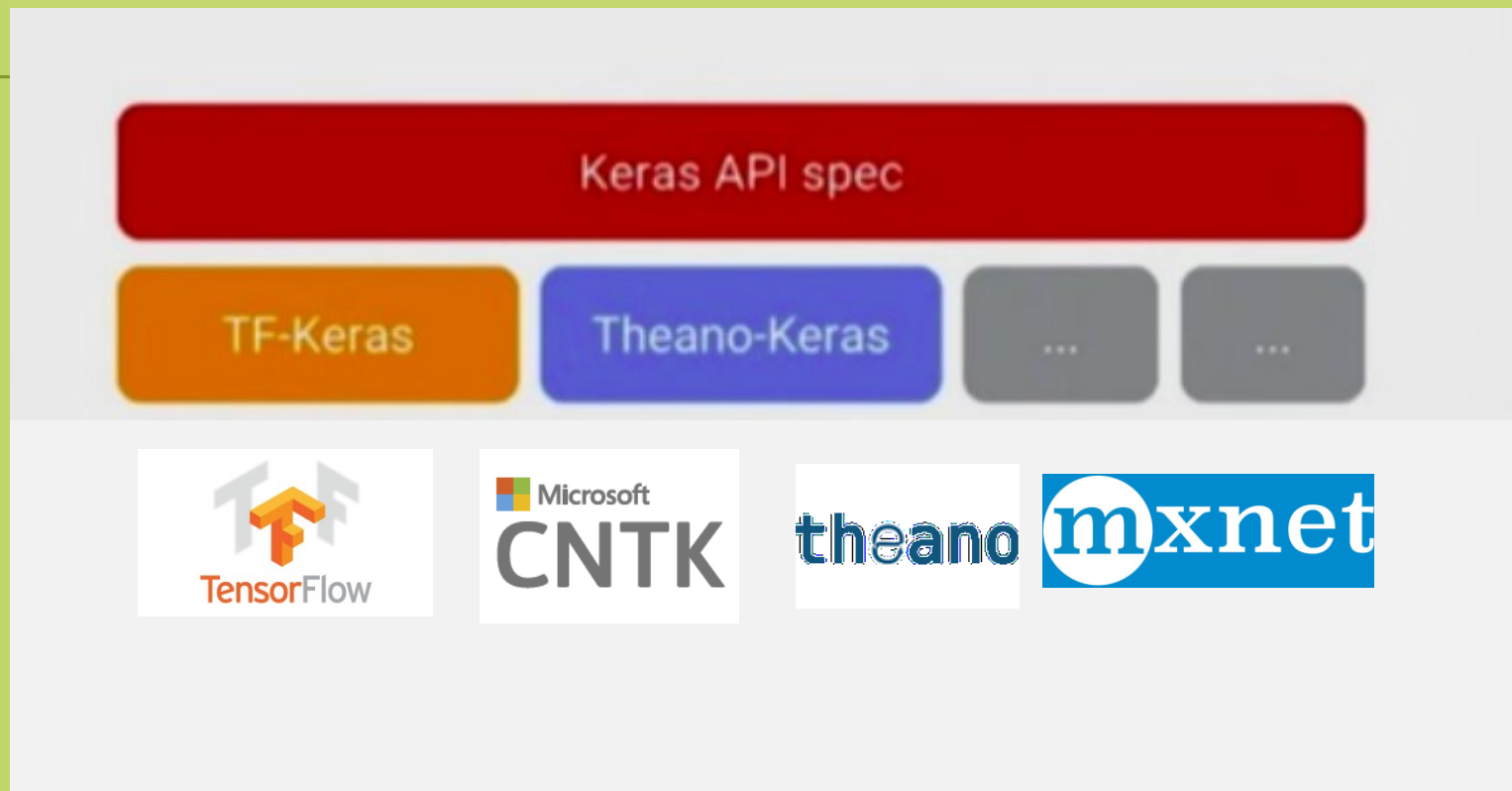


# Avoid lock-in into one ecosystem

## ✓ Avoid lock-in into one ecosystem

### ✓ Keras supports multiple backend engines

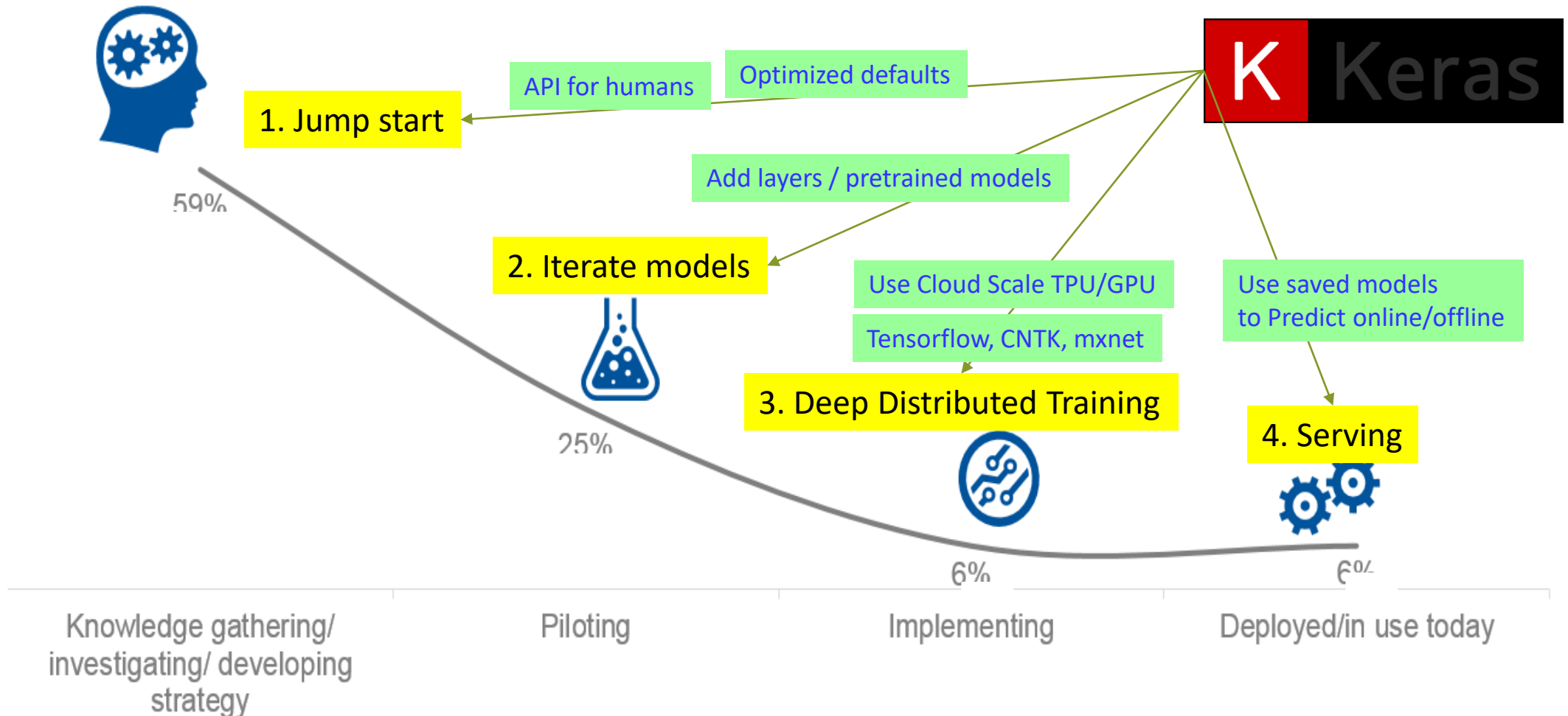
- ✓ The TensorFlow backend (from Google)
- ✓ The CNTK backend (from Microsoft)
- ✓ The Theano backend
- ✓ MXNet (from Amazon)





# Summary: Success Strategy for AI journey

## Keras Deep Learning on Cloud for success in AI



# Want to explore if Keras is a good choice?

- TensorFlow Dev Summit 2019 Keynote
  - <https://youtu.be/b5Rs1ToD9aI?t=450>

# Other good Frameworks to learn

www.Fast.ai  
PYTORCH

Deep Learning with Fast.AI



# Acknowledgments

## 1) KERAS.io

François Chollet's  
Book on "Deep Learning with Python"

---

## 2) TensorFlow Dev Summit

<https://www.tensorflow.org/dev-summit>

## 3) Gartner

[www.gartner.com](http://www.gartner.com)

## 4) [www.fast.ai](http://www.fast.ai)