



# AI

## AI For Economics

Group 5: Mike Mao, Xiangyu Ren

Xiangfeng Yuan, Sicong Zhao

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# 01

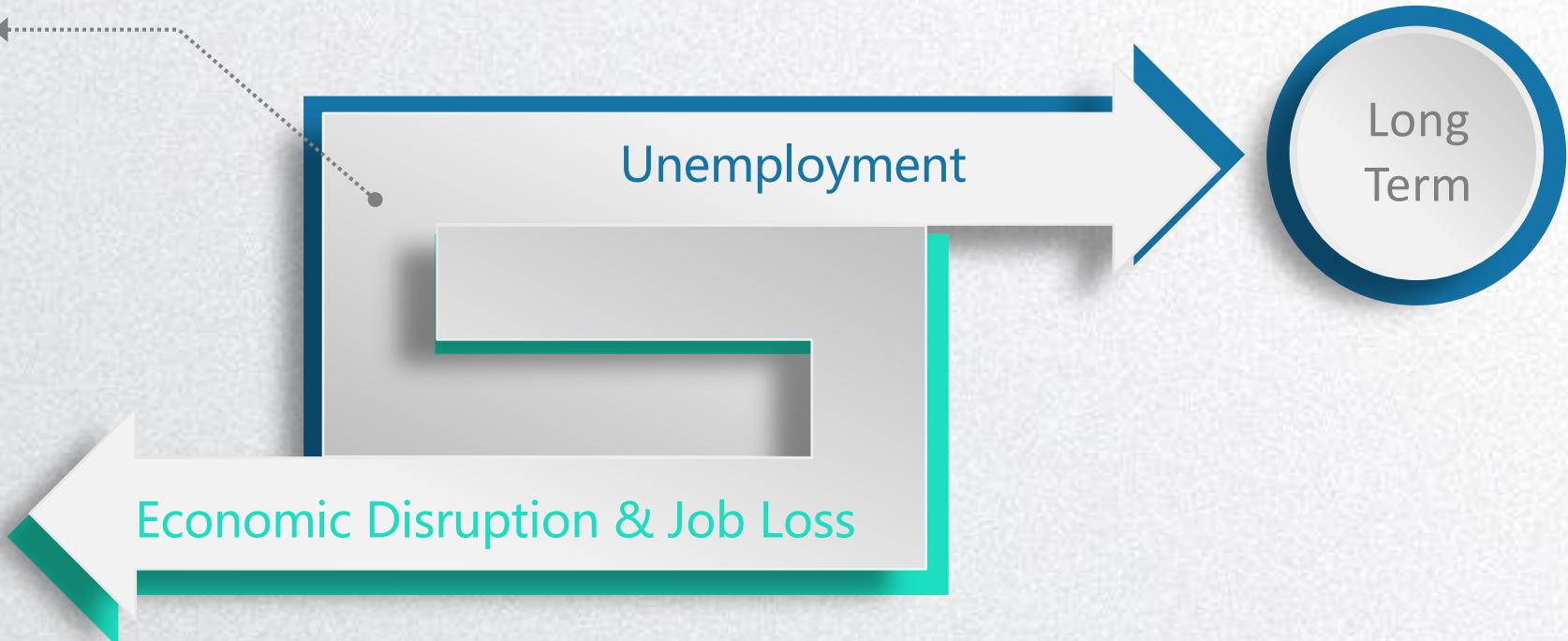
## Facing Challenge

**What are some challenges we are facing?**

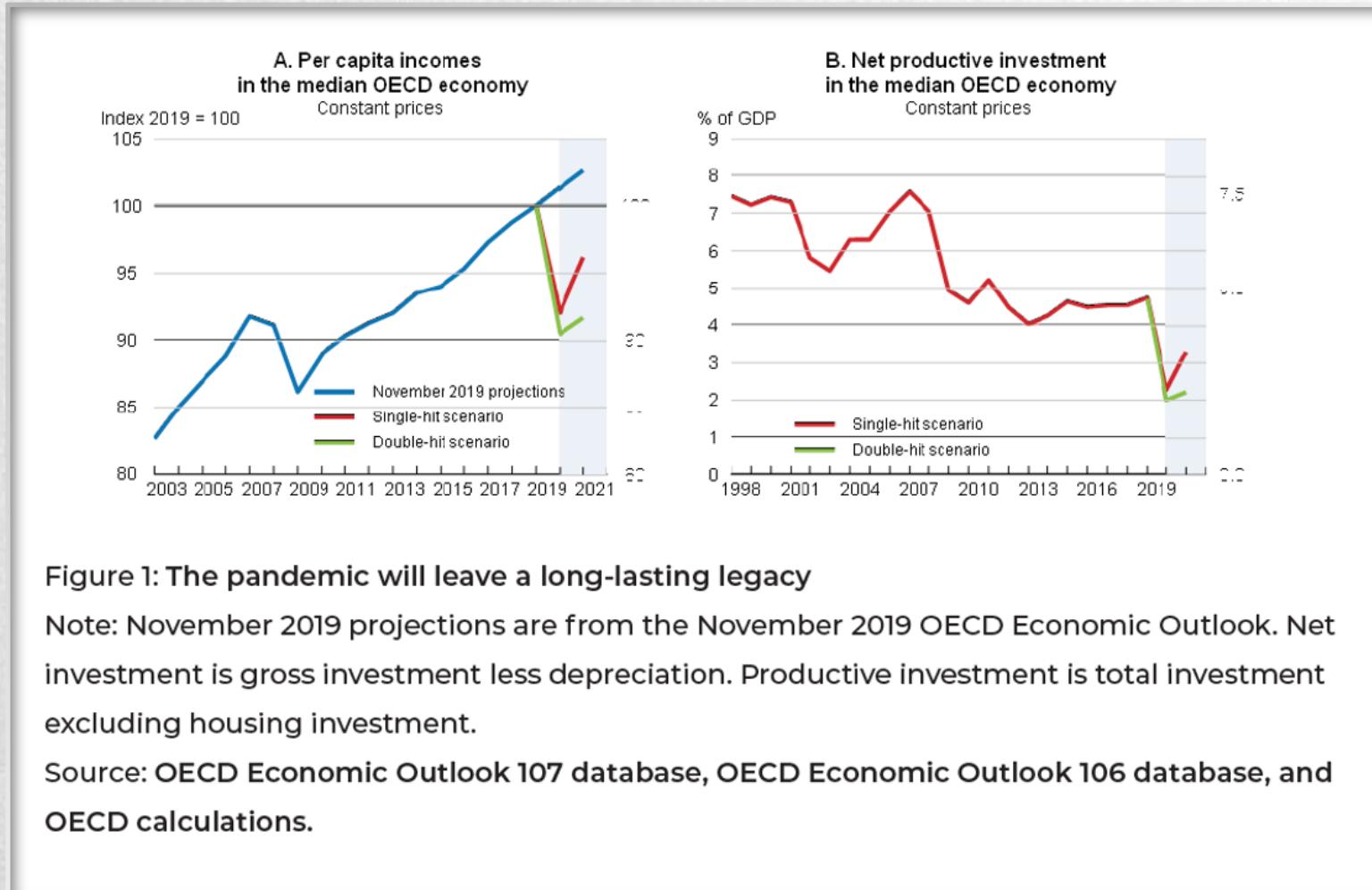
# Introduction

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The COVID-19 pandemic has spread with alarming speed, infecting millions and bringing economic activity to a near-standstill as countries imposed tight restrictions on movement to halt the spread of the virus.



The pandemic will leave a long-lasting legacy.



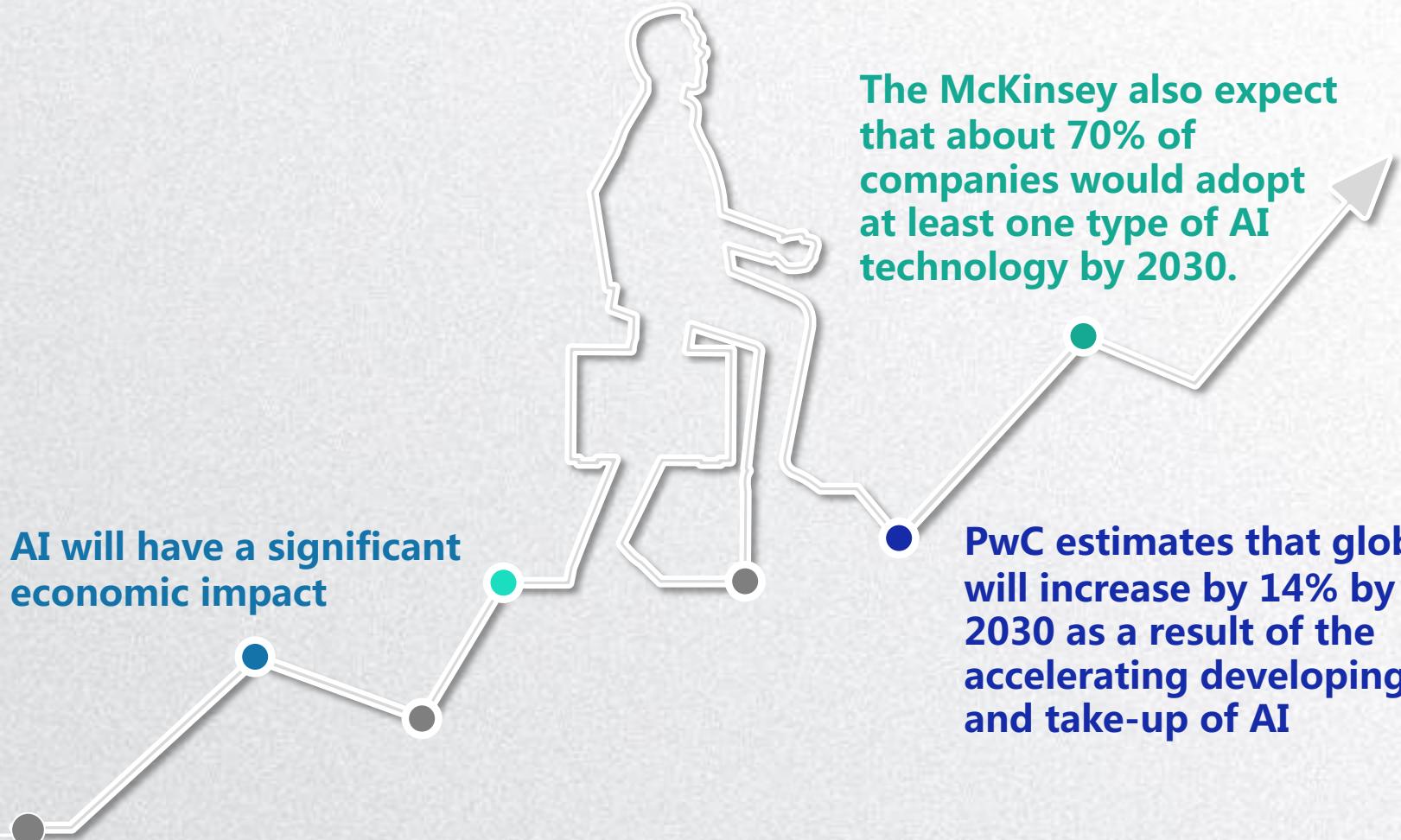


# How Can AI Help

**How can AI help us address those challenges?**



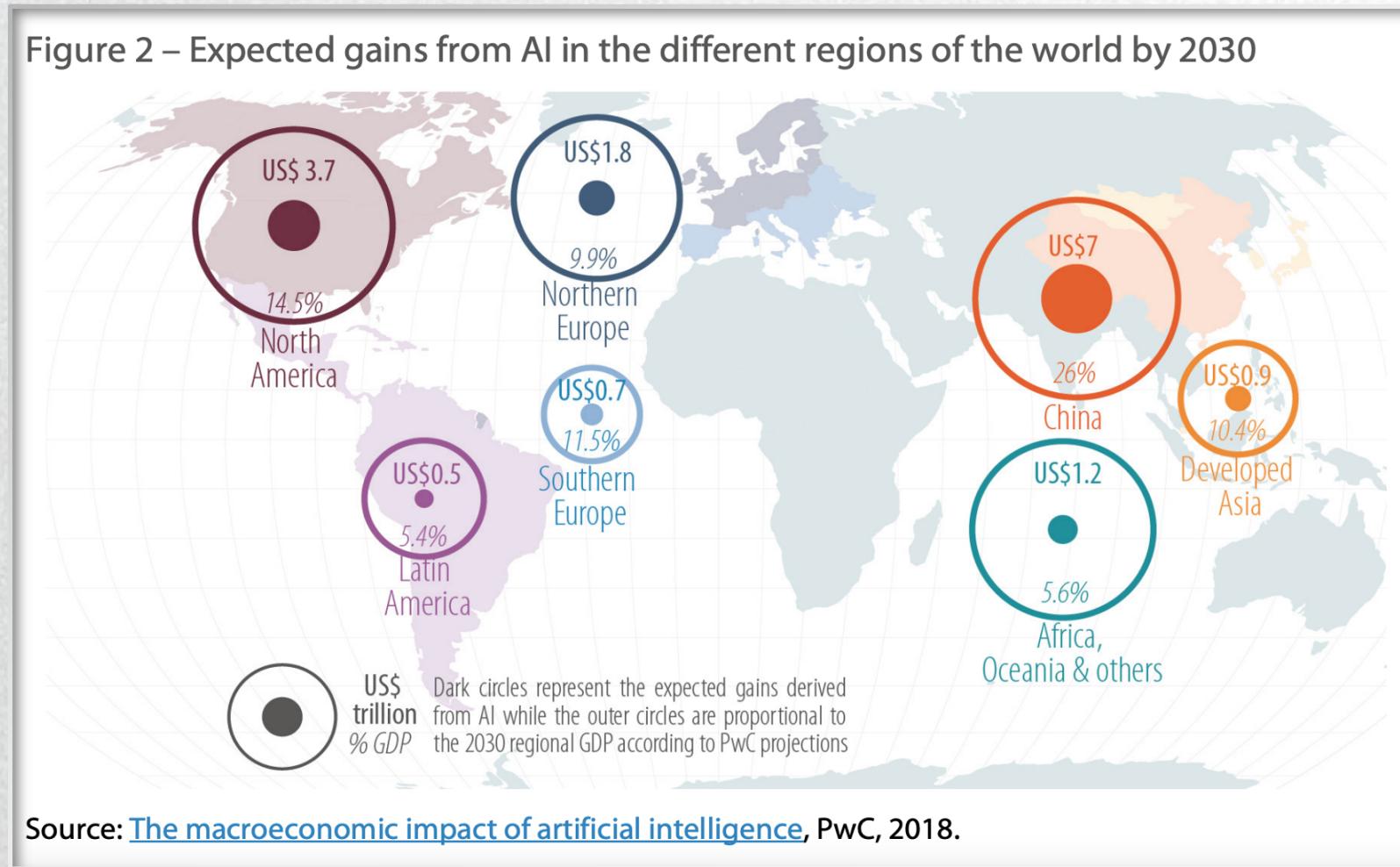
AI will have a significant economic impact



# Expectation

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Expected gains from AI in the different regions of the world by 2030.





## Used AI Tech

**What are some specific AI technologies being used?**



## ➤ Use of Artificial Intelligence

Across industries, artificial intelligence (AI) has become more than just a buzzword. Its premise has already been proven and the technology is well on its way to mainstream adoption.

While many companies have been slow to adopt the technology, due in part to steep implementation costs, AI and deep learning are rapidly appearing in the financial service industry.

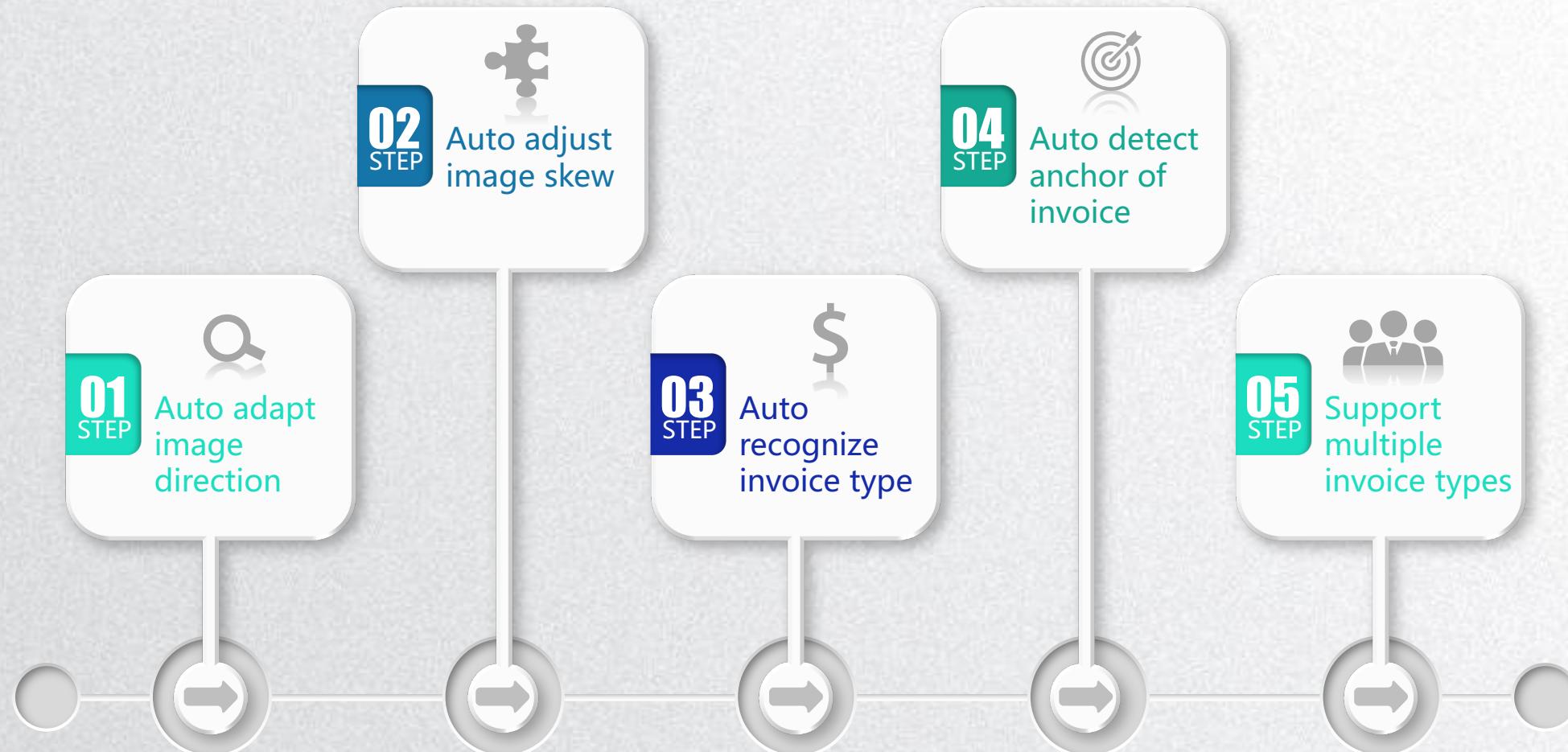
# Intelligent Supplier Invoice Processing PoC

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SAP

- Use with this application, customers can upload supplier invoice images in batch into SCP document repository with Security supports.



Use Computer vision technology to process scanned invoice image.

USE Combining traditional OCR technology with state of the art deep learning model to recognize text information from invoices. The Tesseract for Numbers and Alphabets works well with numbers and English characters but can not deal with Chinese characters. So customer can choose Deep Learning Model for Chinese Characters which state of the art CNN model and trained on millions of labeled images using TensorFlow.



Use with this app you can search for supplier invoices and use the search result as a supplier invoice work-list that allows you to display the detail data.



On detail page, you can view the invoice, make correction and delete invalid ones.



Also, in the App feature, there are two sections:

- Master Section
- Detail Section

# "Next Best Action"

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The technology works by evaluating communications with clients by emails, texts and other notes. It then applies machine learning to evaluate other ideas that can be suggested to the client.



Morgan Stanley formally launched its initiative, called Next Best Action, to its financial advisors earlier this year.



The tool could prompt your advisor to send a message when a stock you have a significant position in has been downgraded by the firm. Or if you live in the path of a coming storm, it can send you a note with a list of helpful resources

# 6 Startups: AI Trading Strategies

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01

## Sentient Technologies

Applications with AI platform is that of algorithmic trading.

02

## Clone Algo

The company is based in Singapore

03

## Alpaca

Capitalico allows you to construct trading algorithms based on technical analysis.

04

## Binatix

Binatix is said to be working with hedge funds

05

## Aidyia

A Hong Kong-based hedge fund that uses “artificial general intelligence” (AIG)

06

## Walnut Algorithms

Use advanced machine learning techniques with financial expertise to generate absolute return investment strategies

The idea of automated trading has been around for a long time now.

Also known as algorithmic trading, the use of automation to trade takes the human bias out of the equation which is what oftentimes leads to losses.



# Using AI Result

What results have been achieved using AI?

## What makes Betterment better?



### Build your ultimate account.

Invest your way, with various portfolio options, adjustable risk levels, and savings features.



### Diversified investing.

Our portfolios are made of ETFs (rather than a few stocks) to help your money grow with less volatility.



### Transparent pricing.

Keep things simple with one low, annual fee of 0.25%.



### Invest with your values.

Our Socially Responsible Investing helps you make an impact without sacrificing your performance goals.



### Save on taxes.

Get automated and optimized tax strategies to help you take home more.



### Track your finances.

Connect all outside accounts and manage your financial life in one place.



It includes algorithms use the current data to advise the customers with how they should use the base they have to (possibly) maximize their outcome.



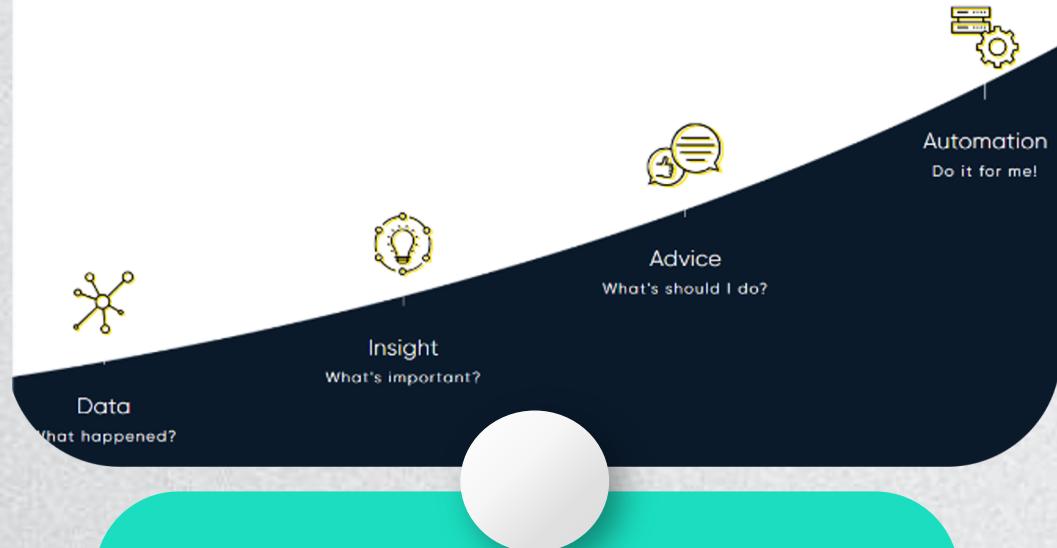
One way AI can help is reducing taxes on transactions where, according to the company, algorithms select the lots to sell based in part on the tax consequences of the transaction. This method, according to the website, is aimed at improving the tax impact for transactions.

# Customer Service

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## SELF-DRIVING FINANCE

Guide your customers through their financial journey with personalized insights, advice, and automated money management.



Personetics offers a chatbot called Assist, which they claim can help banks offer personalized self-service banking services using NLP and cognitive computing.

And according to their statistics data, they helped Royal Bank of Canada develop NOMI Find & Save, a personal banking chatbot on the bank's mobile app, the use of this bot resulted in Royal Bank of Canada's mobile app increasing by 20% within the first five months of deployment and \$2400 increase on Average New Savings per Customer per Year.

Advice & Recommendations taken

**17%**  
CTR (Industry AVG 3%)

Personetics Engage

Personetics Lifts Digital Engagement by

**35%**

UOB Success Story

Average New Savings per Customer per Year

**\$2400**

RBC Success Story

Number of Unique Transfers from Checking to Savings per Day

**72,000**

Personetics Act

Hyundai Card Custom Insight Creation Growth

**5x**  
From 15-90 new insights in 6 months

Hyundai Card Success Story

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THANK YOU