

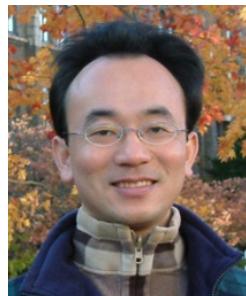
## FinTech: Financial Technology

# FinTech 金融科技課程介紹 (Course Orientation for Fintech: Financial Technology)

1052FinTech01

MIS EMBA (M2263) (8595)

Fri, 12,13,14 (19:20-22:10) (D409)



Min-Yuh Day

戴敏育

Assistant Professor

專任助理教授

Dept. of Information Management, Tamkang University

淡江大學 資訊管理學系

<http://mail.tku.edu.tw/myday/>

2017-02-17



金融科技

FinTech

Financial Technology

# 淡江大學105學年度第2學期 課程教學計畫表

Spring 2017 (2017.02 - 2017.06)

- 課程名稱：**金融科技**  
**(FinTech: Financial Technology)**
- 授課教師：戴敏育 (Min-Yuh Day)
- 開課系級：資管所碩專班 (TLMXJ1A)
- 開課資料：選修 單學期 3 學分 (3 Credits, Elective)
- 上課時間：週五 12,13,14 (Fri 19:20-22:10)
- 上課教室：D409 (淡江大學台北校園)

# 課程簡介

- 本課程介紹**Fintech**金融科技基本概念與研究議題。
- 課程內容包括
  - Fintech 金融科技的演進：貨幣與金融服務
  - Fintech 金融科技：金融服務科技創新
  - Fintech 金融科技與金融服務價值鏈
  - Fintech 金融科技商業模式創新
  - 金融服務消費者心理與行為
  - 區塊鏈技術
  - Python Pandas 財務大數據分析
  - 人工智能與深度學習金融科技
  - 金融科技財富管理：機器人理財顧問
  - 投資組合最佳化與程式交易
  - 金融科技智慧問答系統
  - Fintech 金融科技個案研究

# Course Introduction

- This course introduces the fundamental concepts and research issues of Financial Technology (Fintech).
- Topics include
  - Evolution of Fintech: Money and Financial Services
  - Fintech: Technology Innovation in Financial Services
  - Fintech and Financial Services Value Chain
  - Fintech Business Models Innovation
  - Consumer Psychology and Behavior on Financial Services
  - Blockchain Technology
  - Finance Big Data Analytics with Pandas in Python
  - Artificial Intelligence and Deep Learning for Fintech
  - Robo-Advisors for Wealth Management in Fintech
  - Portfolio Optimization and Algorithmic Trading
  - Intelligent Question Answering System for Fintech
  - Case Study on Fintech

# 課程目標 (Objective)

- 瞭解及應用 金融科技 Fintech 基本概念與研究議題。  
(Understand and apply the fundamental concepts and research issues of Financial Technology (Fintech).)
- 進行金融科技 Fintech 相關之資訊管理研究。  
(Conduct information systems research in the context of Financial Technology (Fintech).)

# 課程大綱 (Syllabus)

週次 (Week) 日期 (Date) 內容 (Subject/Topics)

- |   |            |   |
|---|------------|---|
| 1 | 2017/02/17 | Fintech 金融科技課程介紹<br>(Course Orientation for Fintech: Financial Technology)      |
| 2 | 2017/02/24 | Fintech 金融科技的演進：貨幣與金融服務<br>(Evolution of Fintech: Money and Financial Services) |
| 3 | 2017/03/03 | Fintech 金融科技：金融服務科技創新<br>(Fintech: Technology Innovation in Financial Services) |
| 4 | 2017/03/10 | Fintech 金融科技與金融服務價值鏈<br>(Fintech and Financial Services Value Chain)            |
| 5 | 2017/03/17 | Fintech 金融科技商業模式創新<br>(Fintech Business Models Innovation)                      |
| 6 | 2017/03/24 | Fintech 金融科技個案研究 I<br>(Case Study on Fintech I)                                 |

# 課程大綱 (Syllabus)

週次 (Week) 日期 (Date) 內容 (Subject/Topics)

- |    |            |  |
|----|------------|--|
| 7  | 2017/03/31 | 金融服務消費者心理與行為<br>(Consumer Psychology and Behavior on Financial Services)   |
| 8  | 2017/04/07 | 教學行政觀摩日 (Off-campus study)   |
| 9  | 2017/04/14 | 區塊鏈技術<br>(Blockchain Technology)   |
| 10 | 2017/04/21 | 期中報告 (Midterm Project Report)  |
| 11 | 2017/04/28 | Python Pandas財務大數據分析<br>(Finance Big Data Analytics with Pandas in Python) |
| 12 | 2017/05/05 | 人工智慧與深度學習金融科技<br>(Artificial Intelligence and Deep Learning for Fintech)   |

# 課程大綱 (Syllabus)

週次 (Week) 日期 (Date) 內容 (Subject/Topics)

13 2017/05/12 Fintech 金融科技個案研究 II  
(Case Study on Fintech II)

14 2017/05/19 金融科技財富管理：機器人理財顧問  
(Robo-Advisors for Wealth Management in Fintech)

15 2017/05/26 投資組合最佳化與程式交易  
(Portfolio Optimization and Algorithmic Trading)

16 2017/06/02 金融科技智慧問答系統  
(Intelligent Question Answering System for Fintech)

17 2017/06/09 期末報告 I (Final Project Presentation I)

18 2017/06/16 期末報告 II (Final Project Presentation II)

# 教學方法與評量方法

- 教學方法
  - 講述、討論、  
賞析、模擬、  
問題解決、實作
- 評量方法
  - 實作、報告、上課表現

# 教材課本

- 教材課本
  - 講義 (Slides)
  - Fintech 金融科技相關個案與論文  
(Cases and Papers related to Fintech Financial Technology)

# 參考書籍

1. Susanne Chishti and Janos Barberis, The FINTECH Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries, Wiley, 2016.
2. Paolo Sironi, FinTech Innovation: From Robo-Advisors to Goal Based Investing and Gamification, Wiley, 2016.
3. Michael Heydt , Mastering Pandas for Finance, Packt Publishing, 2015
4. Yves Hilpisch, Python for Finance: Analyze Big Financial Data, OReilly Media, 2014
5. James Ma Weiming, Mastering Python for Finance, Packt Publishing, 2015
6. Fabio Nelli, Python Data Analytics: Data Analysis and Science using PANDAs, matplotlib and the Python Programming Language, Apress, 2015

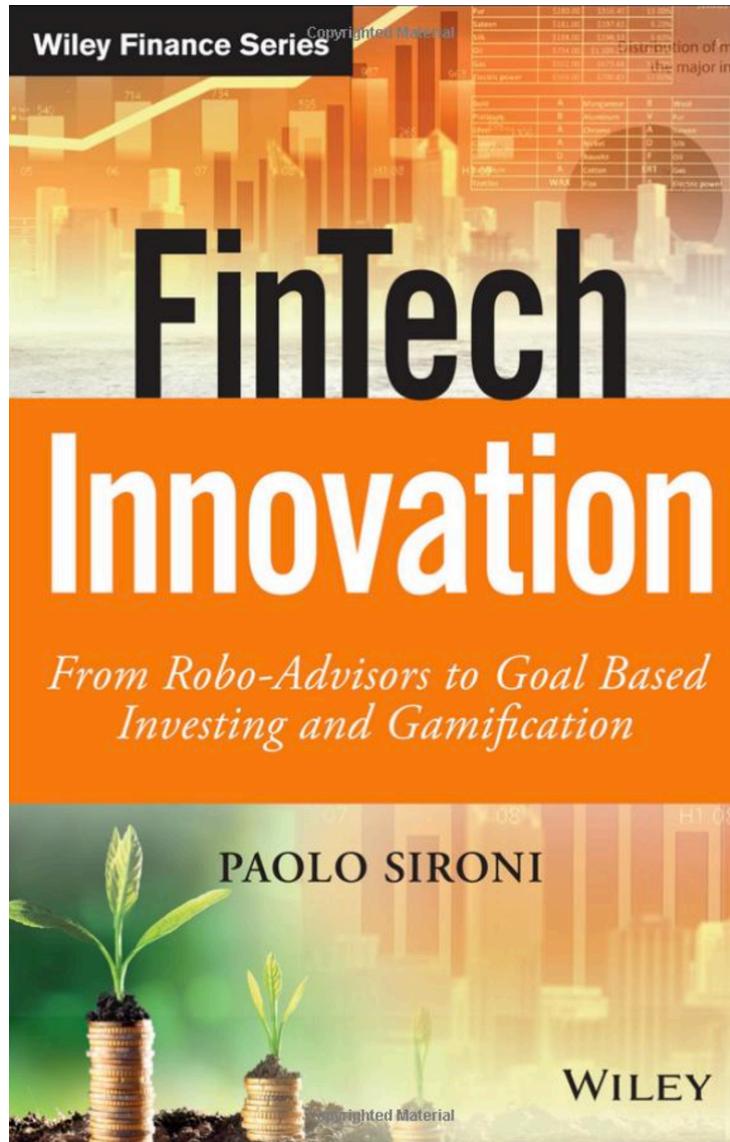
# 作業與學期成績計算方式

- 作業篇數
  - 3篇
- 學期成績計算方式
  - 期中評量：30 %
  - 期末評量：30 %
  - 其他（課堂參與及報告討論表現）：40 %

# The FINTECH Book: The Financial Technology Handbook for Investors, Entrepreneurs and Visionaries, Susanne Chishti and Janos Barberis, Wiley, 2016.



# FinTech Innovation: From Robo-Advisors to Goal Based Investing and Gamification, Paolo Sironi, Wiley, 2016



Source: <https://www.amazon.com/FinTech-Innovation-Robo-Advisors-Investing-Gamification/dp/1119226988>

# FinTech

# **Financial**

---

# **Technology**

---

# FinTech



# Financial Technology

## FinTech

“providing  
financial services  
by making use of  
software and  
modern technology”

# Financial Services

# Money

# Market

# Financial Services



# Financial Revolution with Fintech

## A financial services revolution

### Consumer Trends



1. Simplification



2. Transparency



3. Analytics



4. Reduced Friction

# FinTech: Financial Services Innovation

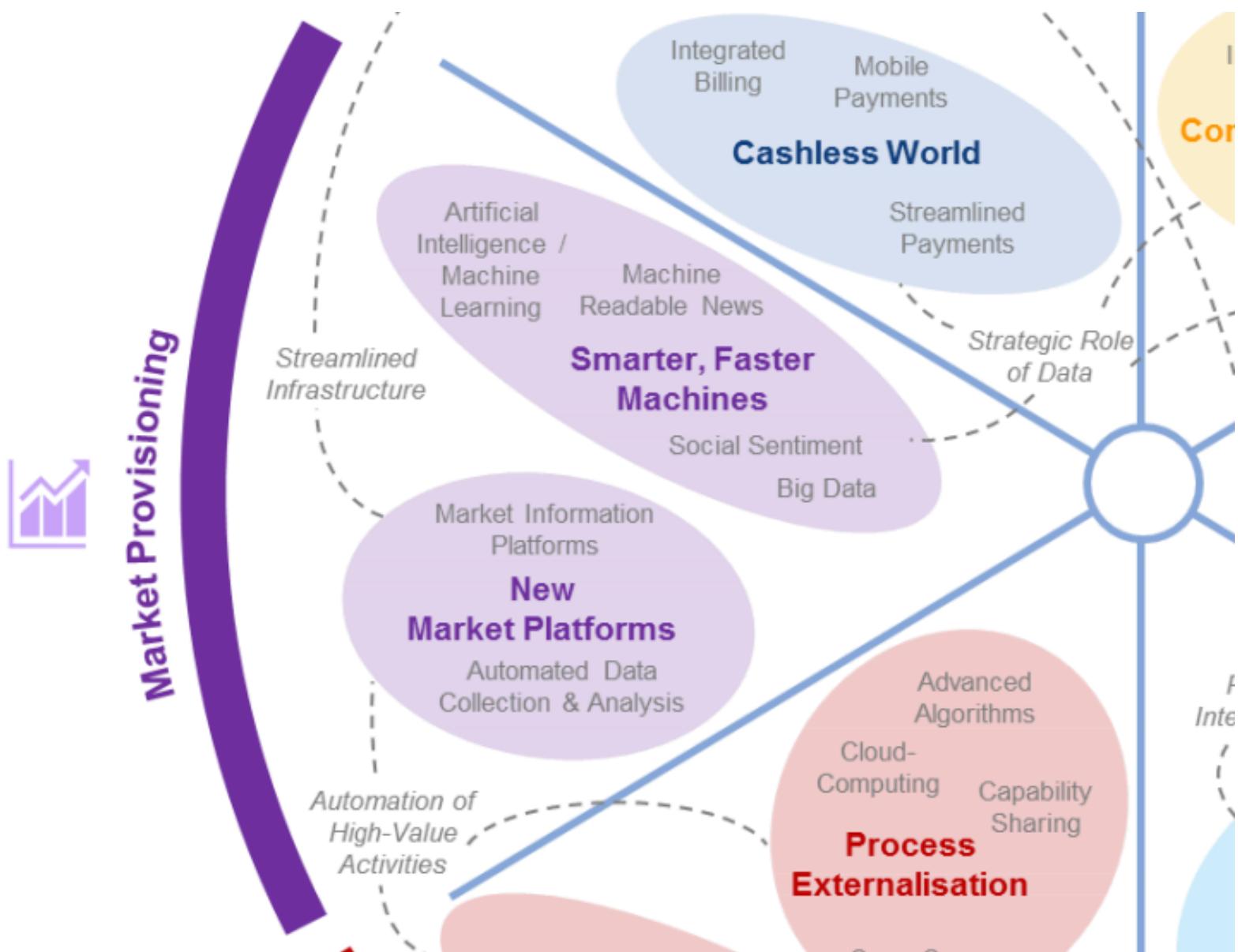


# FinTech:

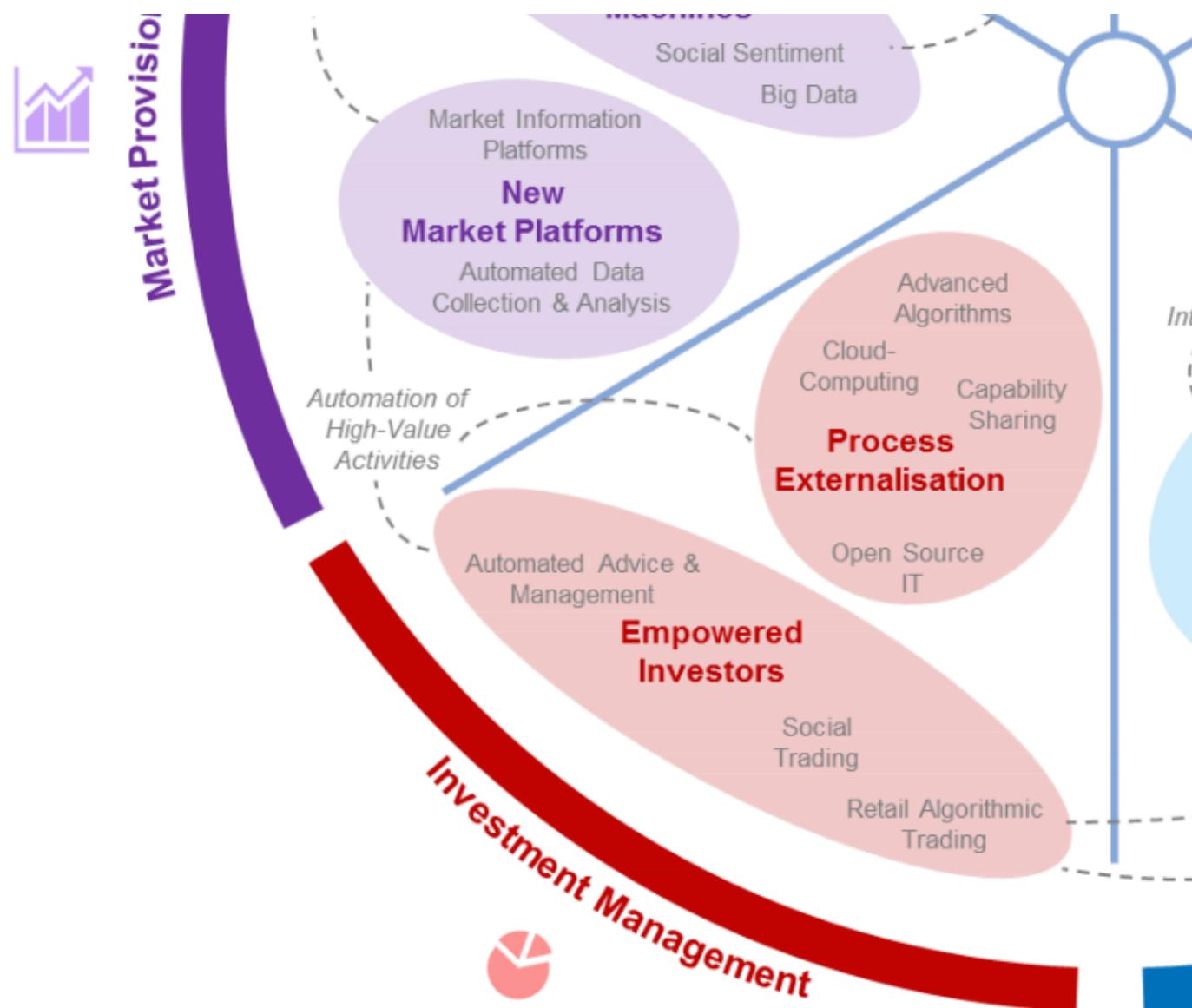
## Investment Management

## Market Provisioning

# FinTech: Market Provisioning



# FinTech: Investment Management





圖表來源：世界經濟論壇

# FinTech

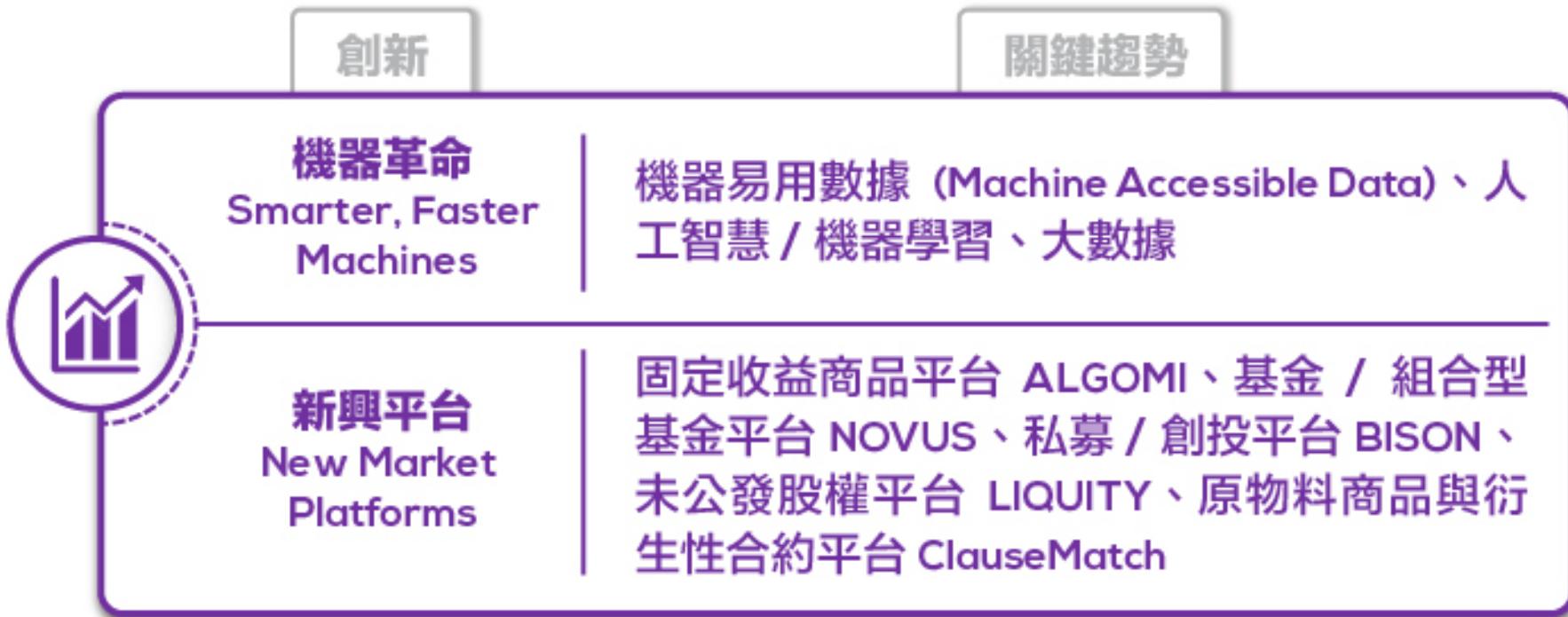
功能	創新項目
 支付 Payments	無現金世界 (Cashless World) 新興支付 (Emerging Payment Rails)
 保險 Insurance	價值鏈裂解 (Insurance Disaggregation) 保險串接裝置 (Connected Insurance)
 存貸 Deposit & Lending	替代管道 (Alternative Lending) 通路偏好移轉 (Shifting Customer Preferences)
 筹資 Capital Raising	群眾募資 (Crowdfunding)
 投資管理 Investment Management	賦權投資者 (Empowered Investors) 流程外部化 (Process Externalisation)
 市場資訊供應 Market Provisioning	機器革命 (Smarter, Faster Machines) 新興平台 (New Market Platforms)

圖表來源：Fugle團隊整理

# FinTech: Market Provisioning

## Smarter, Faster Machines

市場資訊供應



圖表來源：Fugle團隊整理

# FinTech: Investment Management

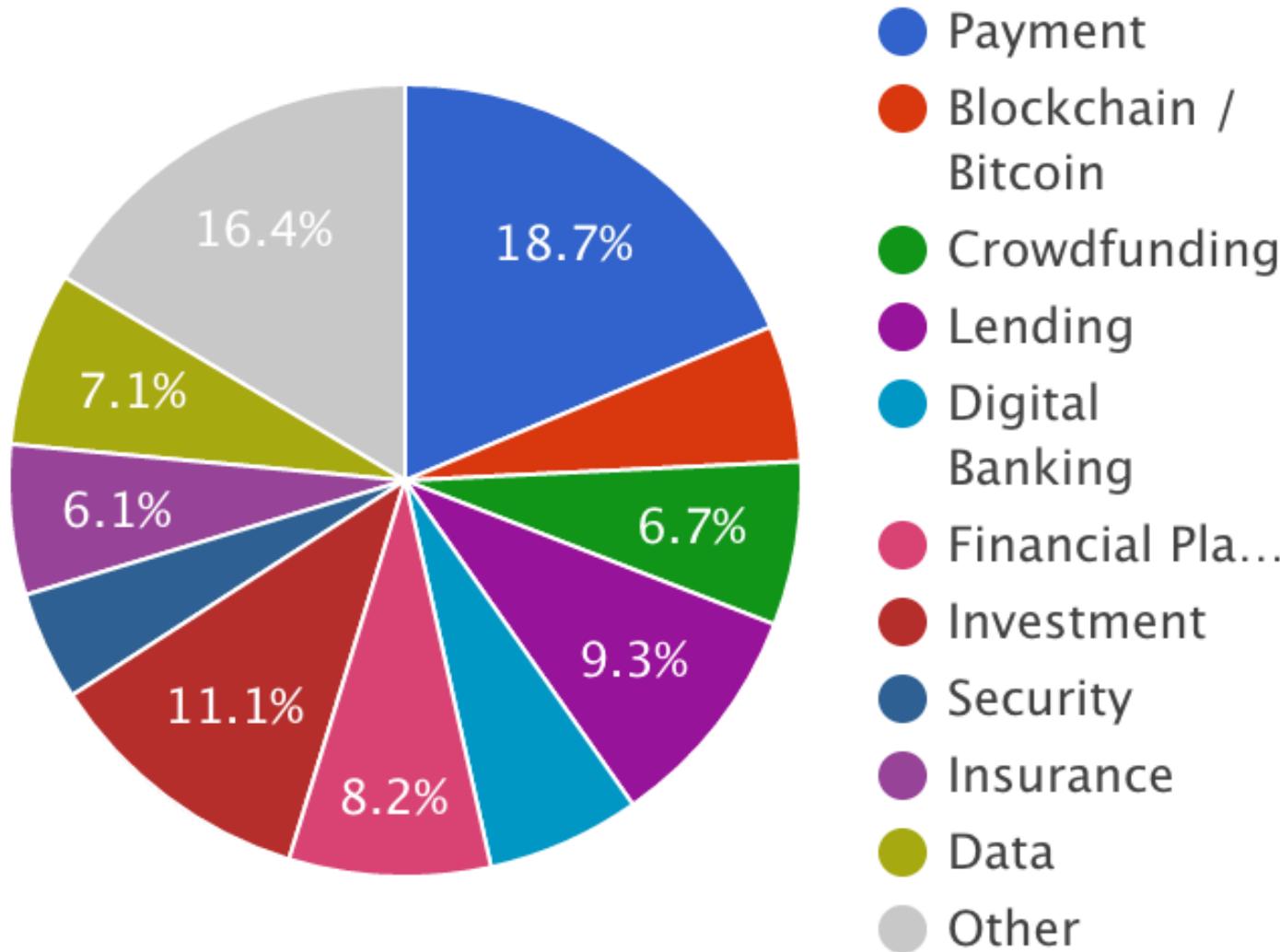


圖表來源：Fugle團隊整理

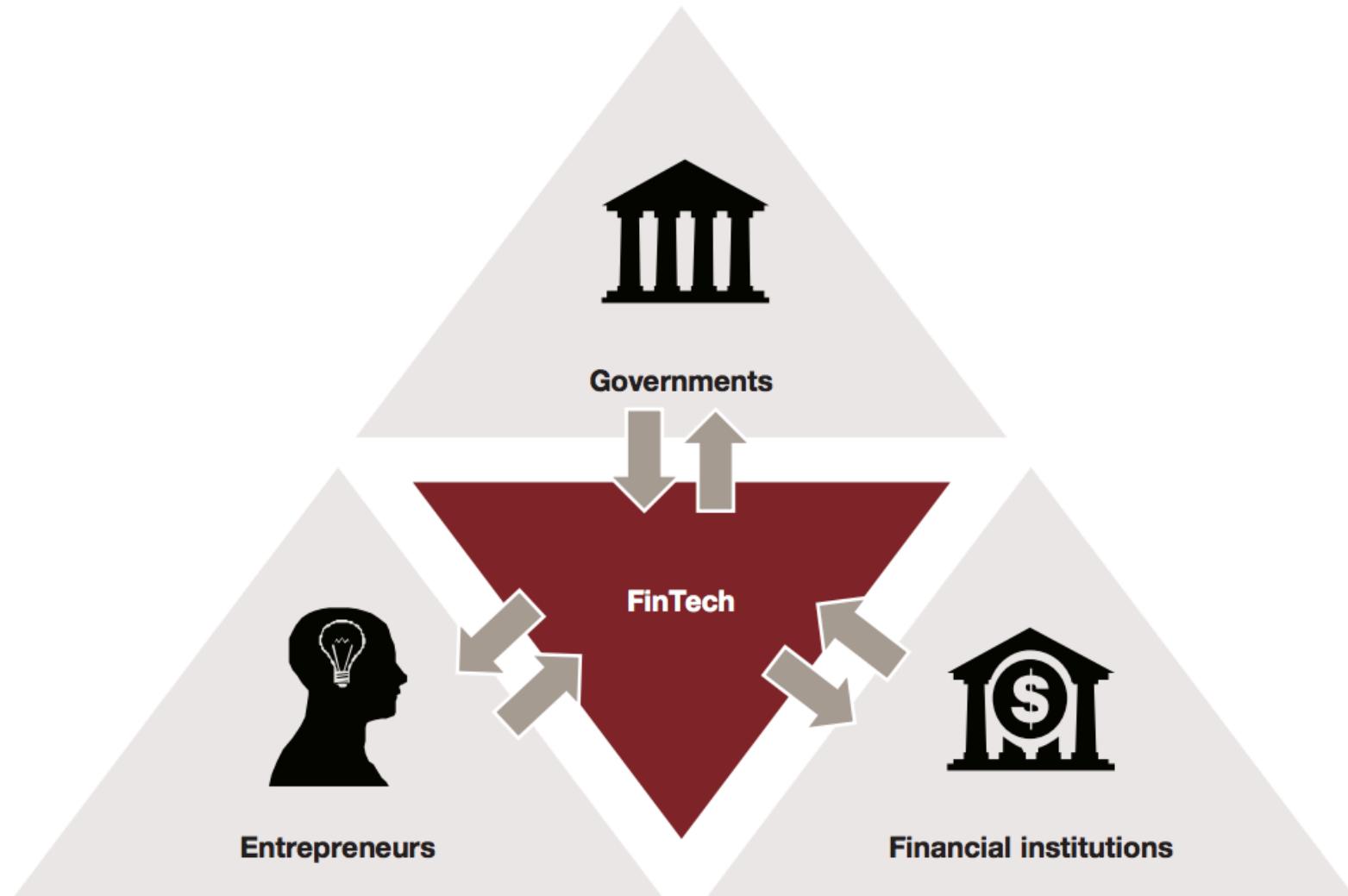
# FinTech for Financial Services

- Retail Banking
- Lending and Financing
- Payments and Transfers
- Wealth and Asset Management
- Markets and Exchanges
- Insurance
- Blockchain Transactions

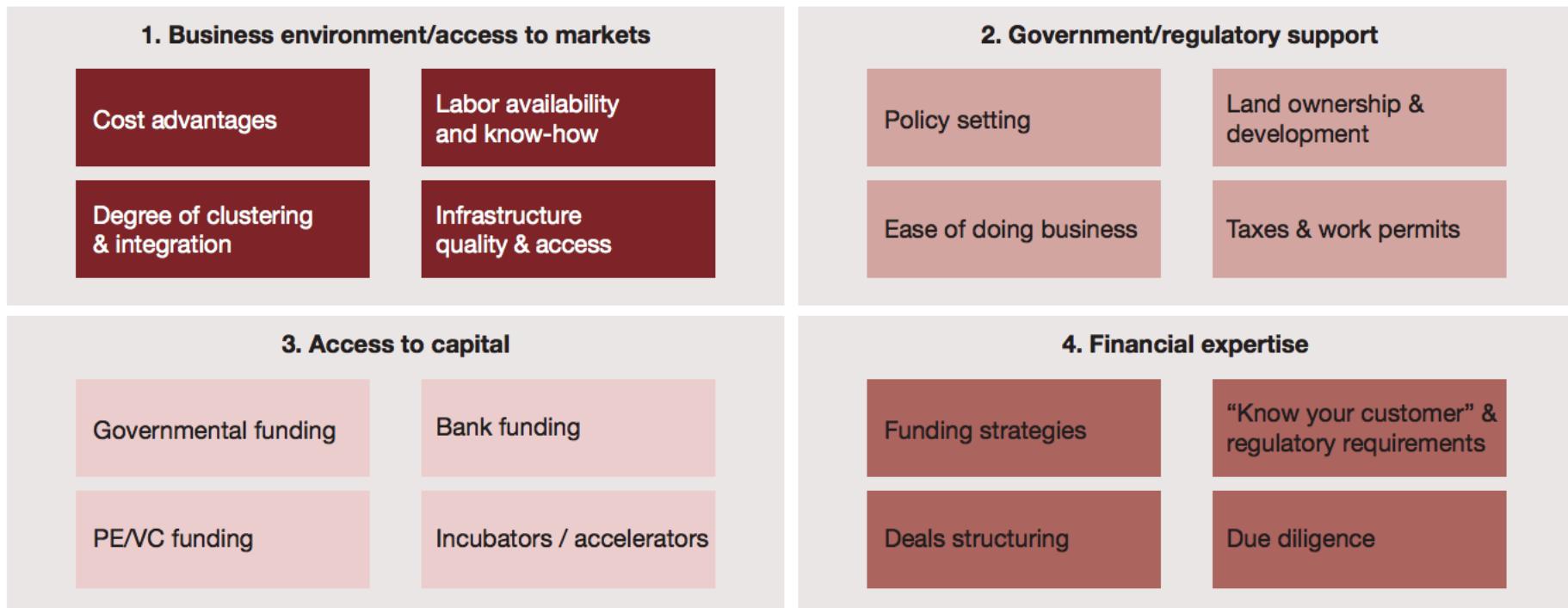
# Fintech Companies



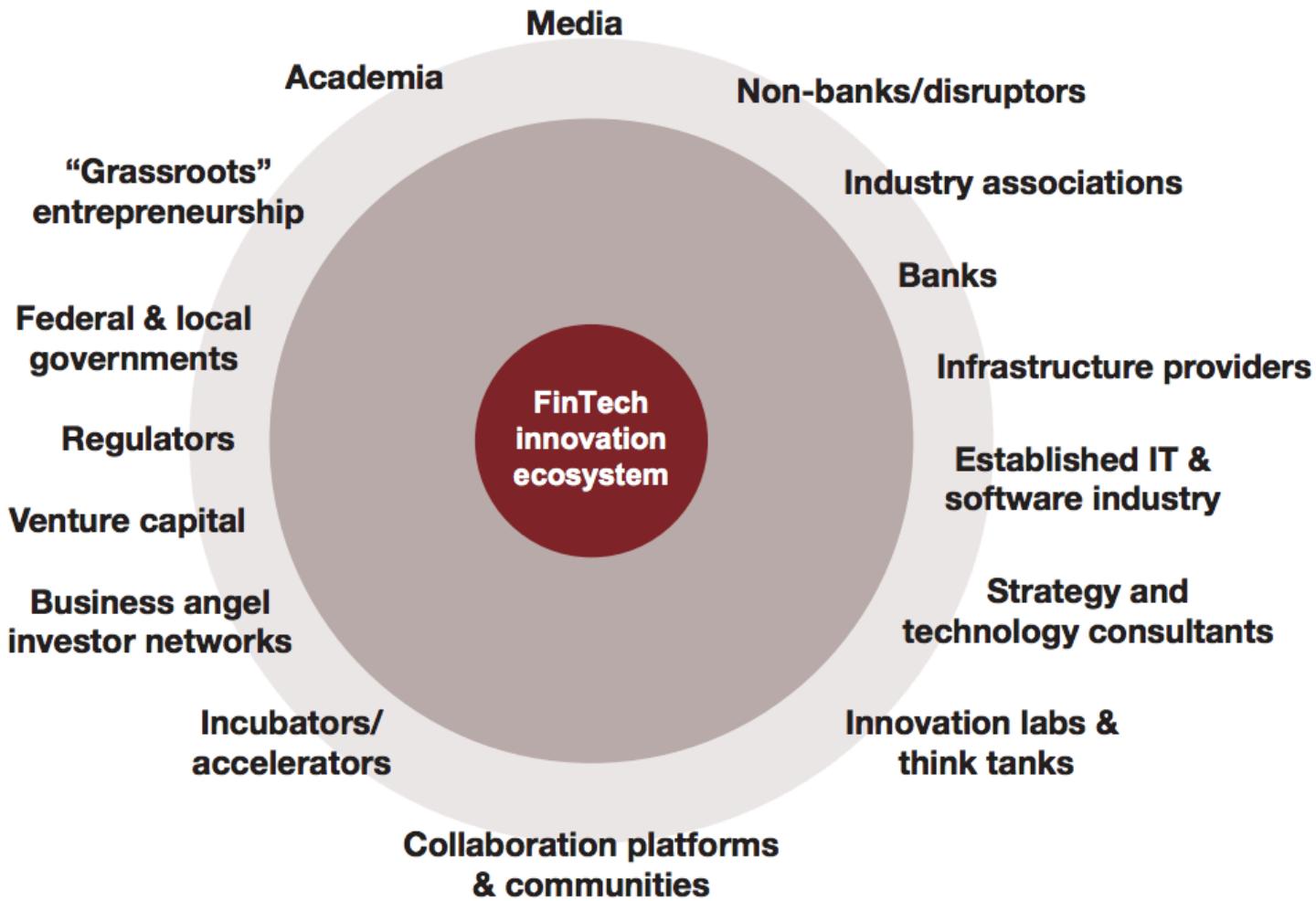
# Major Participants in the FinTech Ecosystem



# FinTech Ecosystem Development Framework



# The FinTech Innovation Ecosystem



# The U.S. FinTech landscape

## Entrepreneurs

- New York is the fastest-growing FinTech ecosystem in the U.S.
- Talent feed from world's biggest financial center
- New York is a lifestyle choice for talented young entrepreneurs

## Support structures

- Tax credits for business R&D and patents
- Incubators & accelerators (e.g., Partnership Fund for New York City)

## Financiers

### International banks

### Venture capital funds

### Entrepreneurs

### Global and local PE shops

### University funds

### Others

### Payment platforms

### Crowd funding

### E-commerce

### Investment advisories

## Investment

- U.S. received 83 percent of global FinTech investments in 2013
- The financial services industry globally spent more than US\$485 billion on ICT<sup>1</sup> in 2014

## Customers

- Business to business: high density of financial services firms seeking support for digitalization
- Business to consumer: widespread mobile & e-commerce usage, low bank client "stickiness"

# Fintech Startups



## USA Fintech Ecosystem

[+ ADD STARTUP](#)

Startups (74) | News (11)

### Crowdfunding

STARTUP	DESCRIPTION	LINKS	STATUS	MONEY RAISED
<a href="#">Crowdera</a>				-
<a href="#">AngelList</a>	Community of start-ups & investors who make fundraising efficient	<a href="#">cb</a> <a href="#">tw</a> <a href="#">f</a>	alive	\$24.1M
<a href="#">CircleUp</a>	Online marketplace that links accredited investors with consumer product and retail companies.	<a href="#">cb</a> <a href="#">tw</a> <a href="#">f</a>	alive	\$53M
<a href="#">Early Shres</a>	Real estate crowdfunding platform	<a href="#">tw</a> <a href="#">f</a>	alive	
<a href="#">Indiegogo</a>	Crowdfunding platform	<a href="#">cb</a> <a href="#">tw</a> <a href="#">f</a>	alive	\$56.5M
<a href="#">Kickfurther</a>	Businesses finance inventory. Backers earn returns.	<a href="#">tw</a> <a href="#">f</a>	alive	
<a href="#">Kickstarter</a>	Crowdfunding platform	<a href="#">cb</a> <a href="#">tw</a> <a href="#">f</a>	alive	\$10M
<a href="#">Local lift</a>	Brings crowdfunding to your local area.	<a href="#">cb</a> <a href="#">tw</a> <a href="#">f</a>	alive	\$160k
<a href="#">Onevest (Rock The Post)</a>	Equity crowd-funding platform	<a href="#">cb</a> <a href="#">tw</a> <a href="#">f</a>	alive	\$2M
<a href="#">Quirky</a>	Community-led invention platform	<a href="#">cb</a> <a href="#">tw</a> <a href="#">f</a>	alive	



Fintech Startups WorldWide

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2016 © startups.watch

# Financial Technology (Fintech) Categories

1. Banking Infrastructure
2. Business Lending
3. Consumer and Commercial Banking
4. Consumer Lending
5. Consumer Payments
6. Crowdfunding
7. Equity Financing
8. Financial Research and Data
9. Financial Transaction Security
10. Institutional Investing
11. International Money Transfer
12. Payments Backend and Infrastructure
13. Personal Finance
14. Point of Sale Payments
15. Retail Investing
16. Small and Medium Business Tools

# FinTech Ecosystem (April 2015)

## Lending



## Personal Finance



## Payments



## Retail Investments



## FinTech

1,072 Companies

Contact  
[info@venturescanner.com](mailto:info@venturescanner.com)  
to see all companies

## Institutional Investments



### Equity Financing



### Remittances



### Business Tools



### Crowd-funding



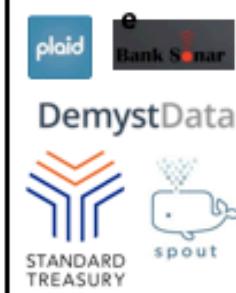
### Consumer Banking



### Financial Research

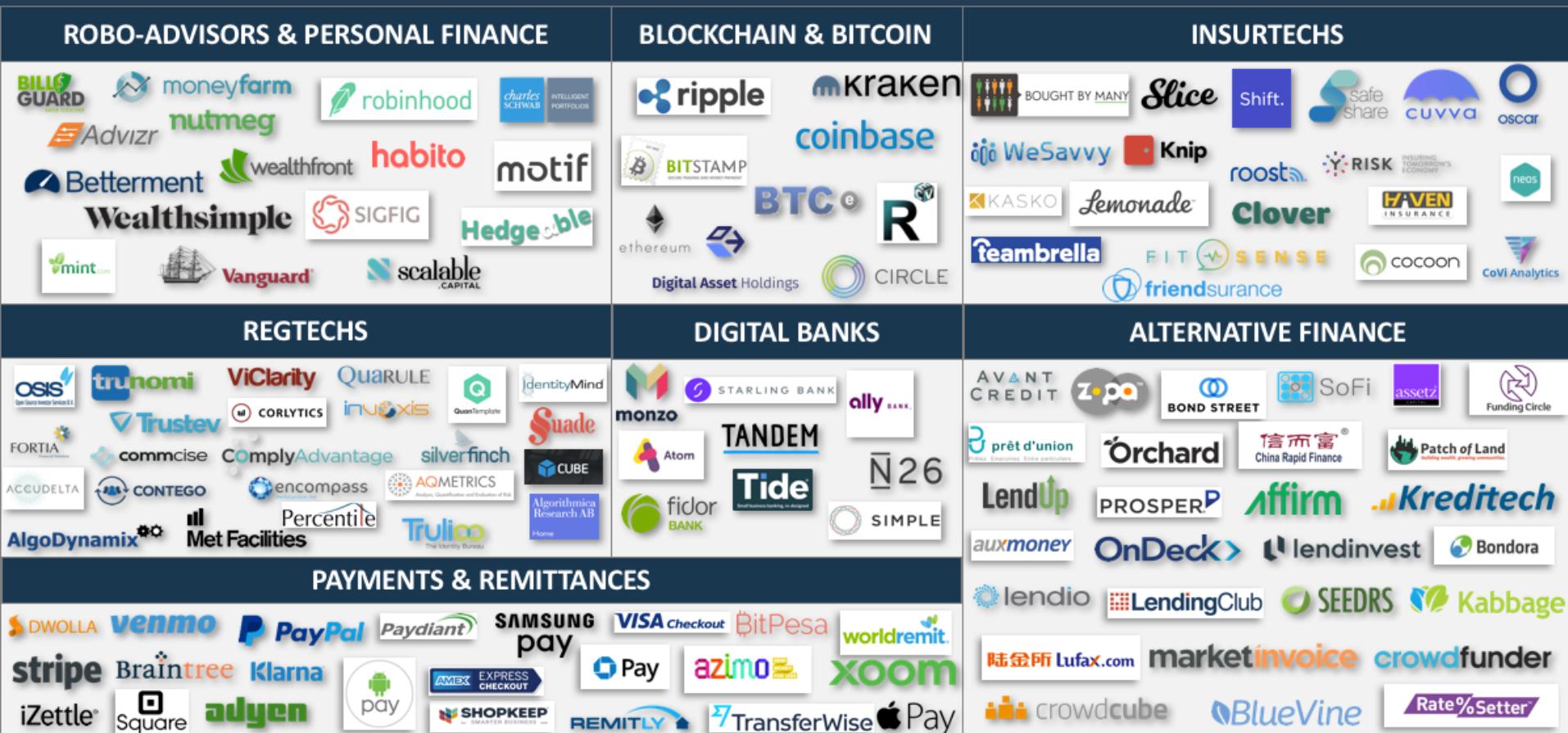


### Banking Infrastructure



# Financial Technology (FinTech)

## THE FINTECH ECOSYSTEM



Source: Company websites, BI Intelligence

# Financial Technology (FinTech)

## THE FINTECH ECOSYSTEM

### Payments & Transfers



### Lending & Financing



### Retail Banking

### Financial Management



### Insurance

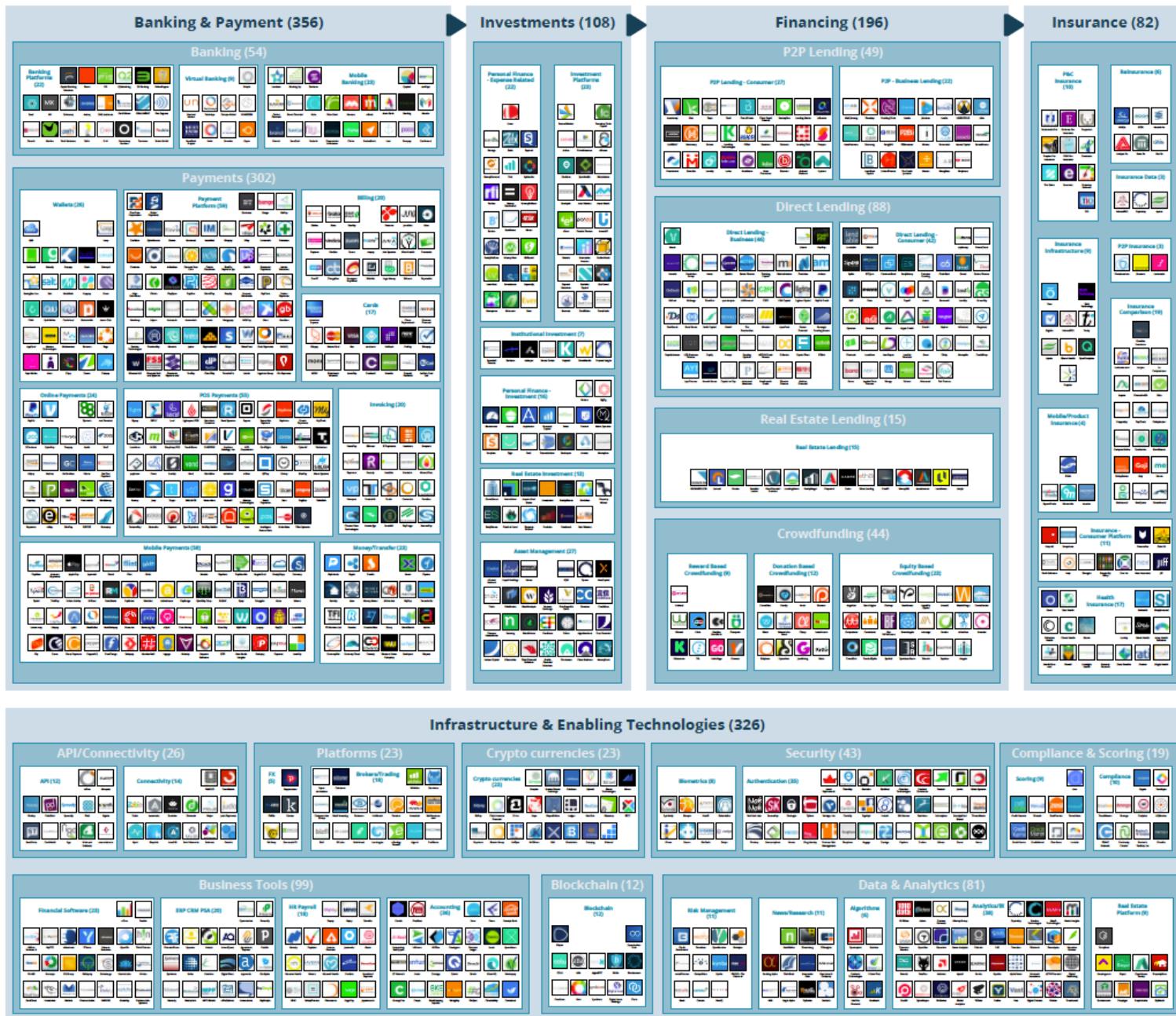


### Markets & Exchanges



BI INTELLIGENCE

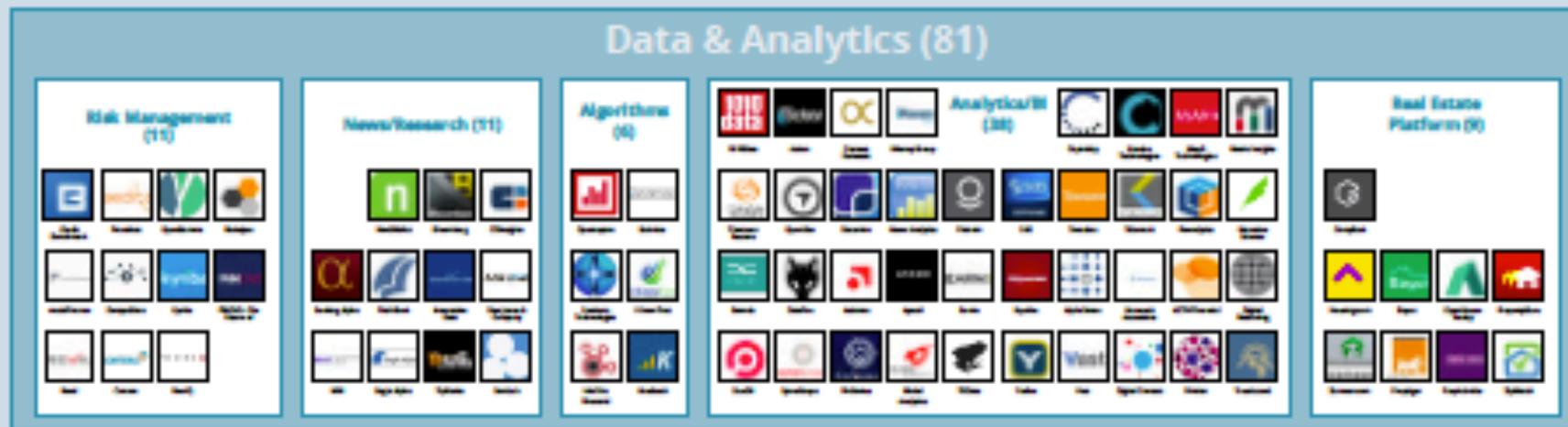
# Fintech Landscape



# FinTech Landscape Enabling Technologies

## Data & Analytics

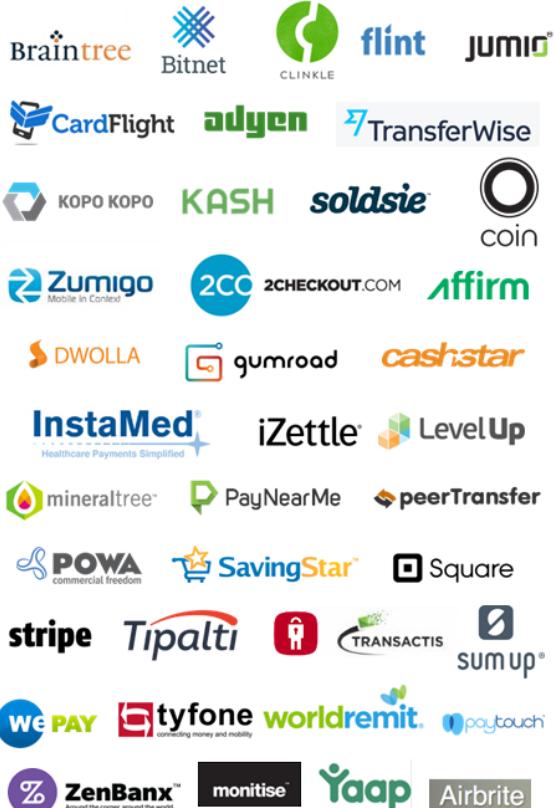
### Technologies (326)



# FINTECH | LANDSCAPE

everisDigital

## Digital & Mobile payments



## Bitcoin & Cryptocurrency



## Capital Markets & Investing



## Financial platforms



## Crowdfunding & peer-to-peer lending



## Banking & Corporate Finance



## Personal financial management



## Big Data & Analytics



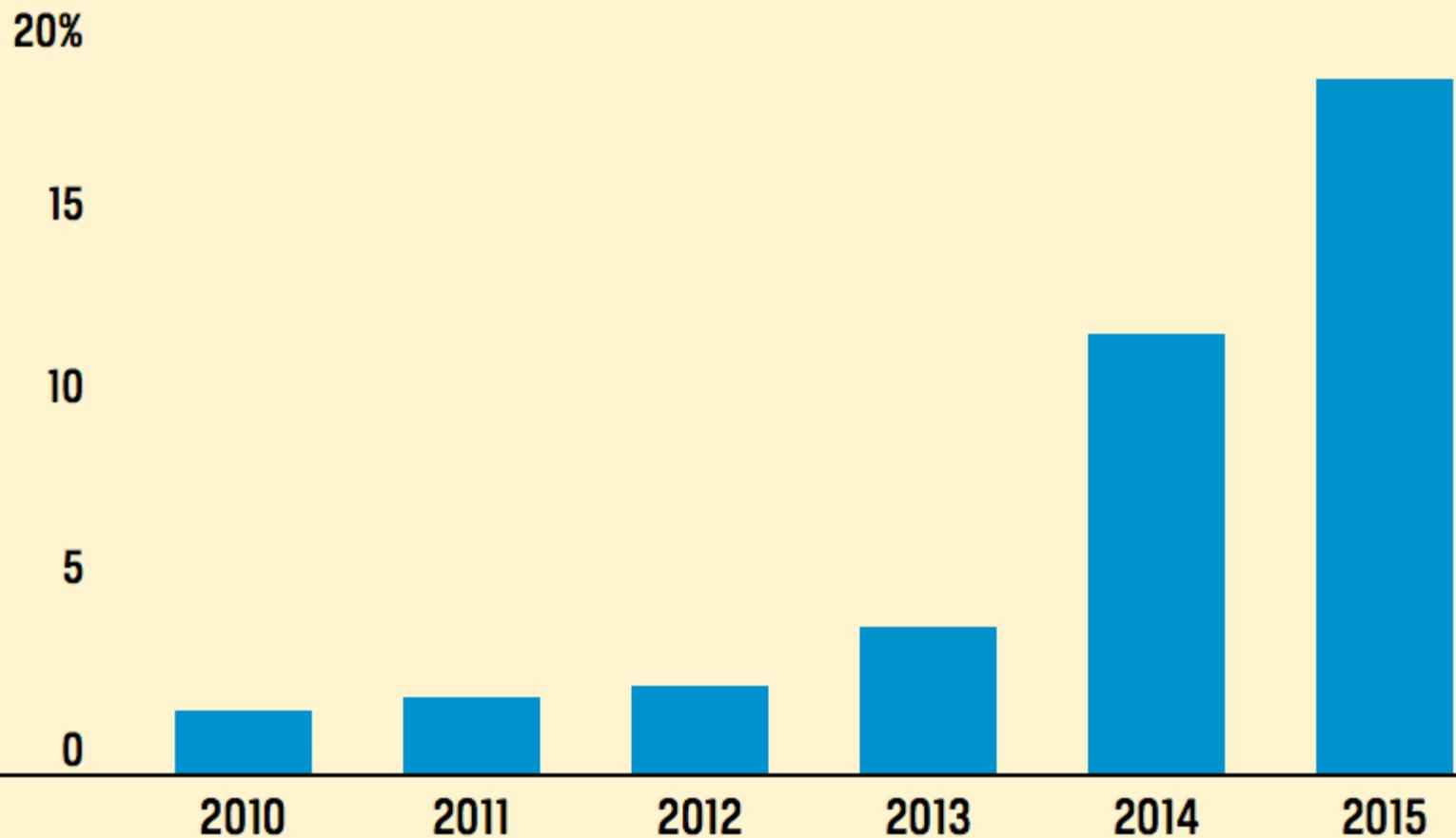
## Blockchain technology



# Global Fintech Funding

## Global Fintech Funding

US\$ Billions



# Fintech Startups WorldWide

## Bankcard Organization



## Acquiring Service Provider



## Prepaid Card Issuer



## Software, Hardware and Device Provider



## Telecom Operator



## City Commercial Bank



## State-owned Bank



## Joint-stock Bank



## Online Payment Company



## Mobile Payment Company



# Fintech: Financial Technology

**Disrupting Banking:  
The Fintech Startups  
That Are Unbundling  
Wells Fargo, Citi and  
Bank of America**

# Fintech: Unbundling the Bank



# Fintech: Unbundling the Bank

## Wealth Management: Wealthfront



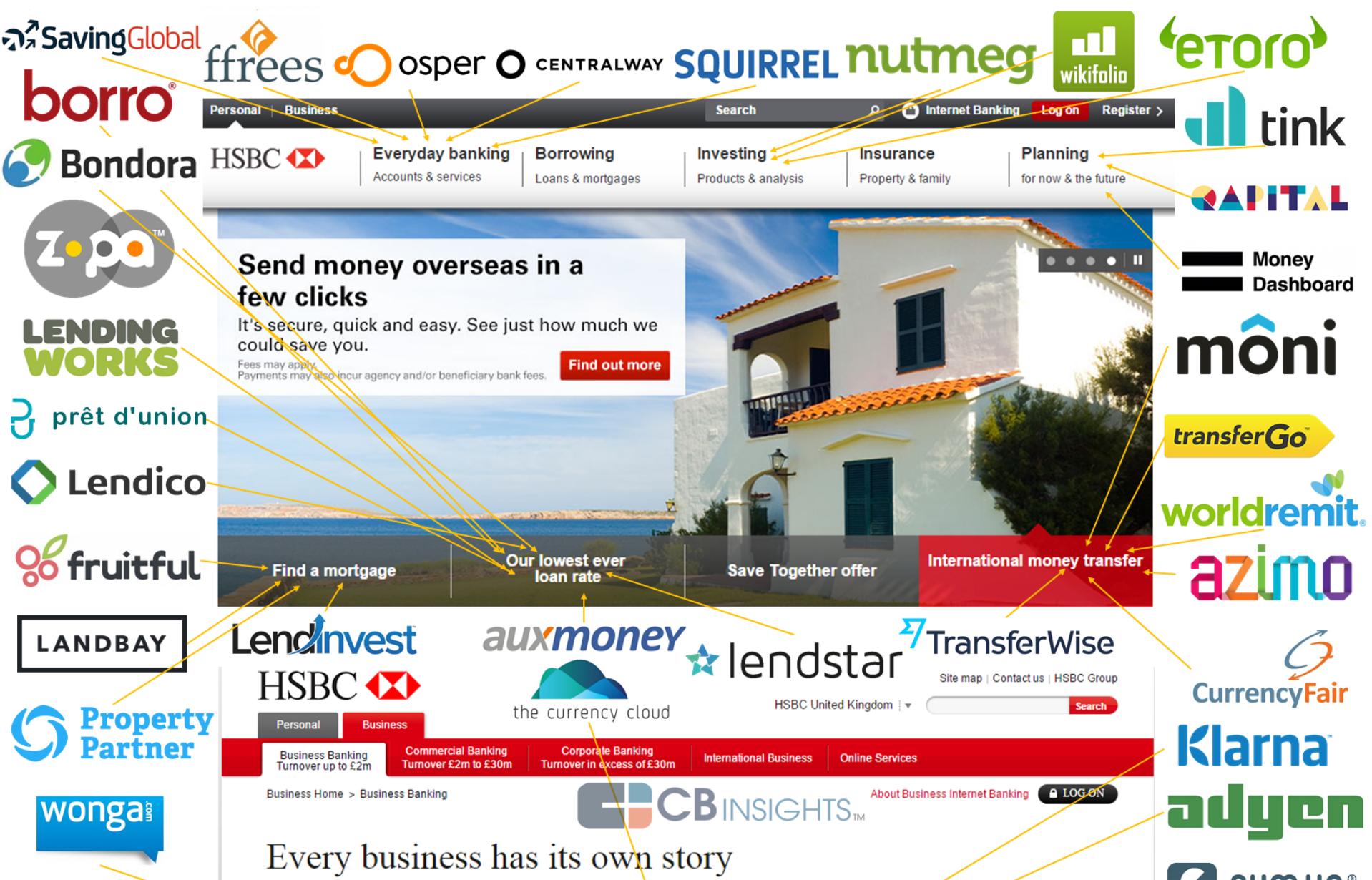
# Fintech: Financial Technology

## Disrupting European Banking: The FinTech Startups That Are Unbundling HSBC, Santander, and BNP

# Unbundling of a European Bank



# Unbundling of a European Bank



# The New Alpha: 30+ Startups Providing Alternative Data For Sophisticated Investors

New sources of data mined by startups like Foursquare, Premise, and Orbital Insight are letting investors understand trends before they happen.

# The New Alpha: 30+ Startups Providing Alternative Data For Sophisticated Investors

## Alternative Data Sources

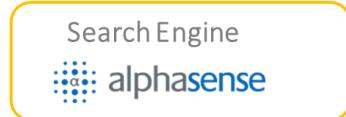


# From Algorithmic Trading To Personal Finance Bots: 41 Startups Bringing AI To Fintech

# From Algorithmic Trading To Personal Finance Bots: 41 Startups Bringing AI To Fintech

## AI in Fintech

### 41 Startups Bringing Artificial Intelligence To Fintech



# Artificial Intelligence (AI) in Fintech

General Purpose/ Predictive Analytics

AYASDI



Digital  
Reasoning



context relevant

H<sub>2</sub>O

KENSHO



cortical.io



Numenta



DataRobot

nervana  
SYSTEMS

Market Research & Sentiment Analysis

indico

acuity  
TRADING



Lucena  
Quantitative Analytics



Dataminr™

Search Engine

alphasense

# Artificial Intelligence (AI) in Fintech

Quantitative Trading



AI Assistants/Bots



Credit Scoring

TypeScore aire



Blockchain



Debt Collection



Fraud Detection



Personal Banking



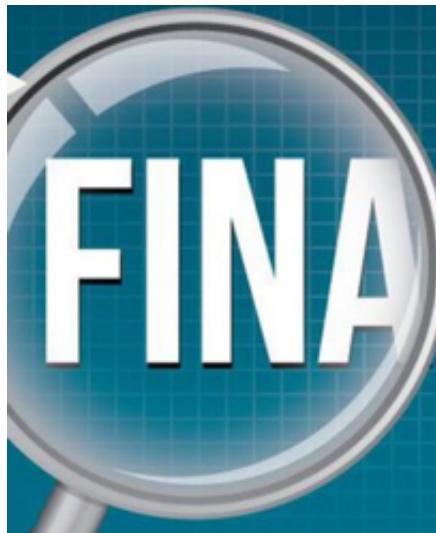
# Fintech: Wealth Management

Company	Select Investors
Wealthfront	DAG Ventures, Index Ventures, Greylock Partners, The Social+Capital Partnership
Betterment	Bessemer Venture Partners, Athemis Group, Menlo Ventures
SigFig	Doll Capital Management, Union Square Ventures, Bain Capital Ventures
Aspiration	Renren, GSV Capital, Capricorn Investment Group, IGSB
Bloom	Commerce Ventures, DST Systems, Hyde Park VP, QED Investors, UMB Financial
Rebalance IRA	N/A
Hedgeable	SixThirty
WiseBanyan	VegasTech Fund
Personal Capital	Institutional Venture Partners, Venrock, Crosslink Capital

# Fintech: Personal Investing

Company	Select Investors
eToro	BRM Group, Ping An Ventures, Spark Capital
Openfolio	FinTech Collective
DriveWealth	Route 66 Ventures
Tip'd Off	Raj Parekh, Bill Crane, Shaun Coleman
Kapitall	Bendigo Partners, Linden Venture Fund
Stash	N/A
Stox	SingulariTTeam
Robinhood	Google Ventures, Index Ventures, Andreessen Horowitz, Ribbit Capital, NEA
Motif Investing	Norwest Venture Partners, Foundation Capital, Ignition Capital, Goldman Sachs
Loyal3	DNS Capital

# FinTech Trends



Capital One Mashable

# FINANCIAL TECHNOLOGY

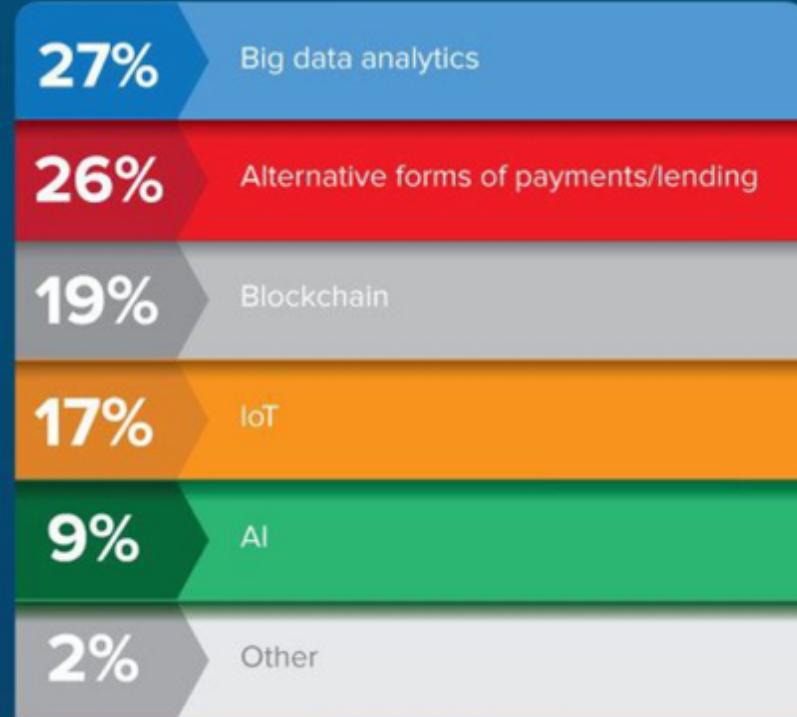
## PREDICTIONS & TRENDS

- More than **50%** of respondents predict that by **2030**, most payments will be cashless and non-paper based.
- Respondents cited big data analytics and alternative payment forms as the two innovations that are likely to have the greatest impact on the financial services space in the next **3-5 years**.

# FinTech

# Big Data Analytics

WHICH INNOVATION WILL HAVE THE GREATEST IMPACT ON THE FINANCIAL SERVICES SPACE IN THE NEXT 3-5 YEARS?



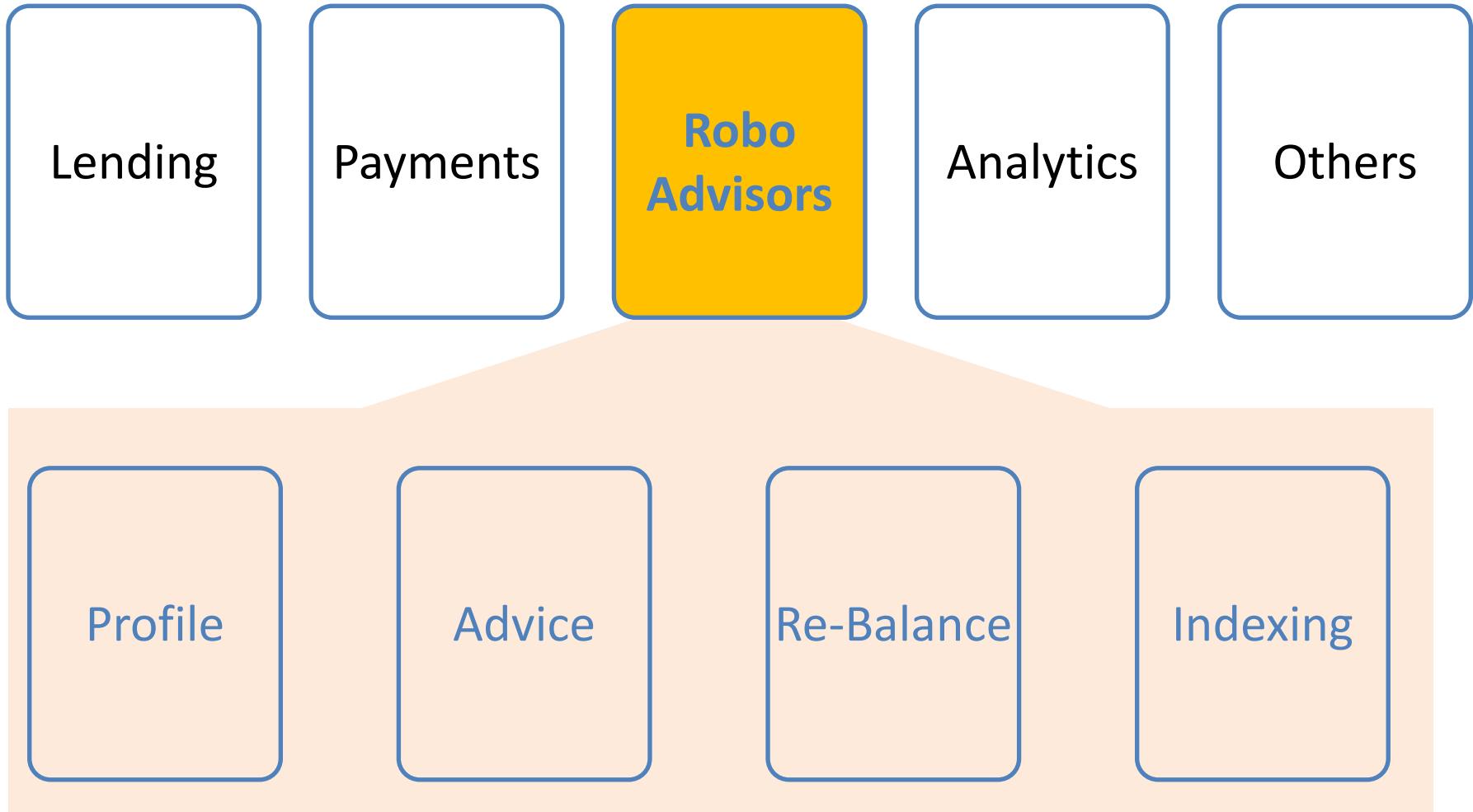
Fintech

Robo

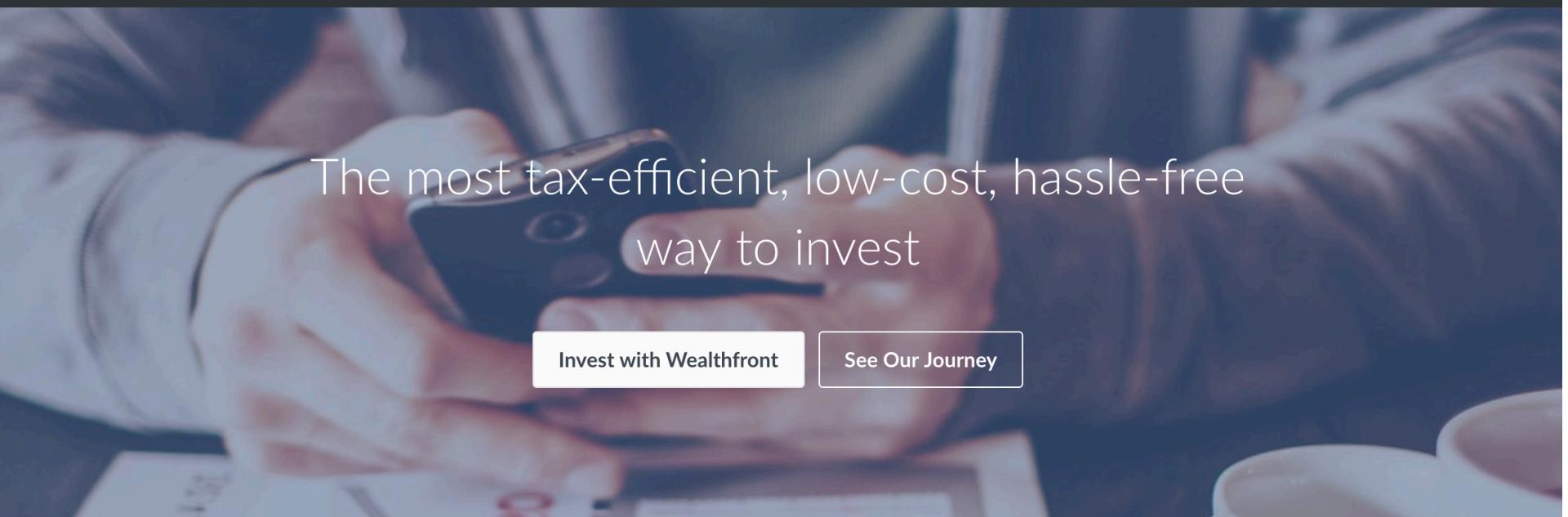
Advisors

# **Big Data Driven Disruption: Robo-Advisor**

# FinTech high-level classification



# Wealthfront: Fintech Robo Advisor

[Why Wealthfront ▾](#)[Products ▾](#)[Who we are ▾](#)[Help Center](#)[Blog](#)[Log In](#)[Invest now](#)

The most tax-efficient, low-cost, hassle-free  
way to invest

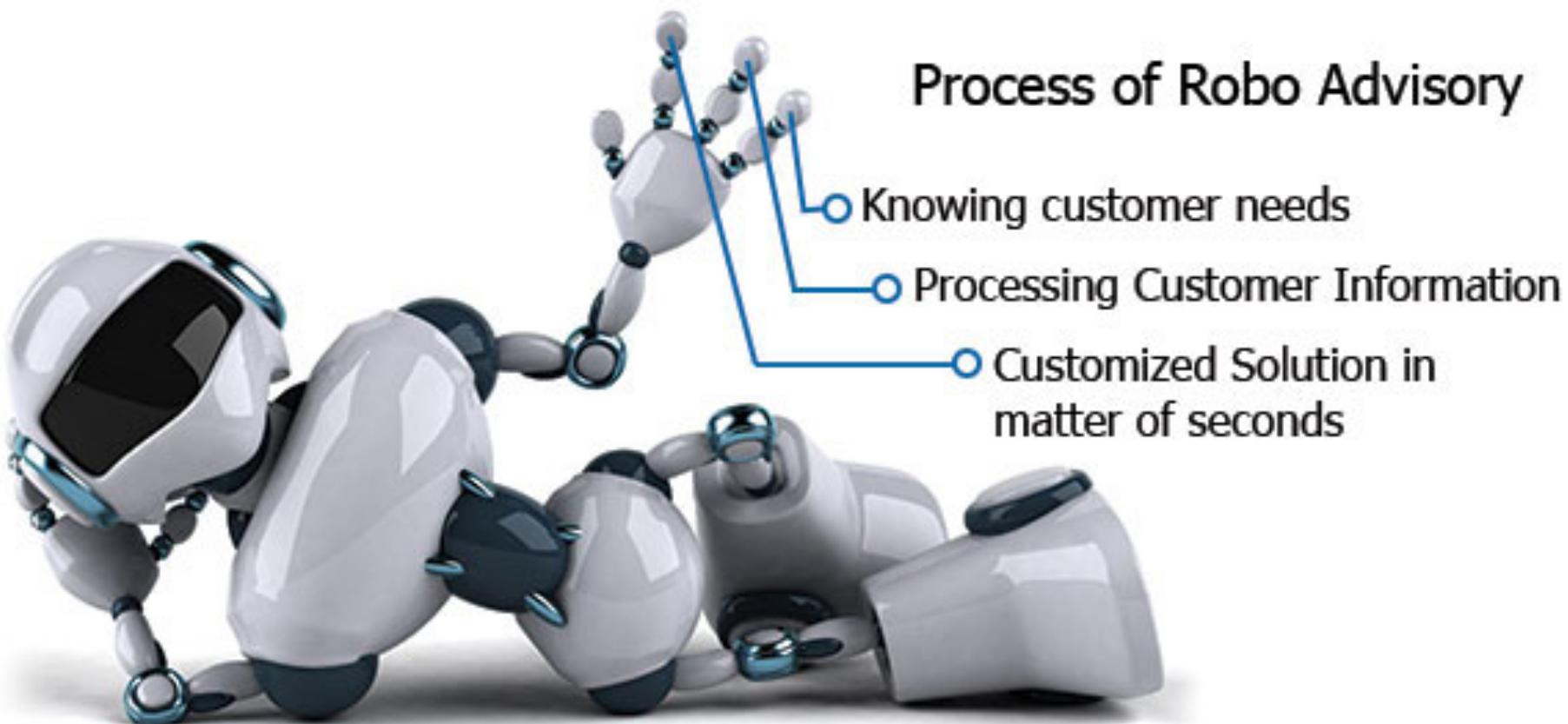
[Invest with Wealthfront](#)[See Our Journey](#)

Do you have the time to invest well?

Wealthfront invests your money for you with a minimal amount of work. We monitor your portfolio every day to look for opportunities to rebalance or harvest tax losses. Are you doing the same?

<https://www.wealthfront.com/>

# Process of Robo Advisors



# Benefits of Robo Advisors

## Benefits of Robo Advisors

- Unbiased Advice —
- No minimum Investment required —
- Low Charges —
- Transparency —
- Customised Solutions —



AdviseSure.com

# Robo-Advisor Business Models

- **Full service online Robo-advisor**
  - 100% automated without any human element
- **Hybrid Robo-advisor model**
  - being pioneered by firms like Vanguard & Charles Schwab
- **Pure online advisor**
  - primarily human in nature

# Usecases of Robo-Advisors

1. Determine individual Client profiles & preferences
2. Identify appropriate financial products
3. Establish correct Investment Mix for the client's profile
4. Using a algorithmic approach, choose the appropriate securities for each client account
5. Continuously monitor the portfolio & transactions within it to tune performance
6. Provide value added services
7. Ensure the best user experience by handling a whole range of financial services

# Business Requirements for a Robo-Advisor (RA)

1. Collect Individual Client Data
2. Client Segmentation
3. Algorithm Based Investment Allocation
4. Portfolio Rebalancing
5. Tax Loss Harvesting
6. A Single View of a Client's Financial History

# Algorithms for a Robo-Advisor (RA)

- Leverage **data science & statistical modeling** to automatically allocate client wealth across different asset classes (such as domestic/foreign stocks, bonds & real estate related securities) to **automatically rebalance portfolio** positions based on changing market conditions or client preferences.
  - These investment decisions are also made based on detailed **behavioral understanding** of a client's **financial journey metrics**
    - Age, Risk Appetite & other related information.

# Algorithms for a Robo-Advisor (RA)

- RA platforms also provide 24×7 tracking of **market movements** to use that to track **rebalancing decisions** from not just a portfolio standpoint but also from a taxation standpoint.

# Algorithms for a Robo-Advisor (RA)

- A mixture of different algorithms can be used such as Modern Portfolio Theory (MPT), Capital Asset Pricing Model (CAPM), the Black Litterman Model, the Fama-French etc.
  - These are used to allocate assets as well as to adjust positions based on market movements and conditions.

# SAS第六屆大數據資料科學家競賽

## FinTech預測未來挑戰賽



最新消息 大賽起源 活動辦法 我要報名 常見問題



SAS與  
玉山銀行

第六屆 大數據資料科學家競賽

校園競賽

# FinTech

## 預測未來 挑・戰・賽

數據分析培訓專業課程資格

SAS與玉山銀行 優先面試與招募

挑戰 \$300,000 總獎金

主辦單位



玉山銀行 E.SUN BANK

### FinTech 預測未來挑戰賽

在這個巨量資料的時代，懂得巨量分析的專業人才「資料科學家」(Data Scientist) 將成為未來炙手可熱的明日之星。SAS 希望學生以創意無限及發掘新商機的角度出發，搭配巨量資料分析實例主題，鼓勵全國大學以分組專案及簡報競賽方式，分析高達兩千萬筆的巨量資料，親身體驗巨量分析的神奇魔力！

#### 早鳥報名・優惠方案

報名成功者，並於2017年3月5日前匯款完畢

即享有八折早鳥報名優惠！

(原報名費每隊1000元，早鳥優惠價每隊800元)

我要報名

<http://saschampion.com.tw/>

# SAS第六屆大數據資料科學家競賽

## FinTech預測未來挑戰賽

[最新消息](#)[大賽起源](#)[活動辦法](#)[我要報名](#)[常見問題](#)

### | 活動時間與地點:

1. 報名日期：2017年2月20日（一）至2017年3月10日（五）額滿為止
2. 起跑說明會：2017年3月17日（五）下午六點半至八點半止（每組皆須指派隊員出席，須事先報名）
3. 玉山銀行玉山人力發展中心1樓 登峰廳（台北市中山區撫順街41巷13號1樓）
4. 初賽資料分析訓練課程(Enterprise Guide)：2017年3月20日（一）至 3月26日（日），  
每梯次為期1天(每梯次名額有限，依名額順序額滿為止，活動執行單位將通知參賽者可參加場次)

**初賽【EG個人能力檢測】**：2017 年 4 月 22 日（六）下午一點半至四點止

**入圍複賽公布日期**：2017 年 4 月 26 日（三）

複賽密集實戰課程(SAS密集實戰課程)：2017 年 4 月 28 日（五）及 4 月 29 日（六）共2梯次，於台北大學資訊中心教室舉辦，每梯次為期1天，時間由主辦單位安排並通知，若該堂時間無法參與，請於收到通知後二天內提出相關證明，以利其他課程之安排與協調。

\*備註：**入圍複賽之隊伍方可參加**

**複賽比賽日期**：2017 年 5 月 01 日（一）~ 2017 年 5 月 19 日（五）下午五點止

**入圍決賽公布日期**：2017 年 6 月 2 日（五）下午五點

**決賽日期**：2017 年 6 月 9 日（五）賽仕電腦軟體股份有限公司（台北市中山區民生東路三段10號3樓）

**公布得獎名單日期**：2017 年 6 月 9 日（五）晚上九點

**頒獎典禮**：2017 年 6 月 27 日（二）

<http://saschampion.com.tw/detail.php>

# AI and Big Data Analytics in Finance

- 財務金融大數據分析
  - Big Data Analytics in Finance
- 投資大數據分析
  - Big Data Analytics in Investment
- 人工智慧與財務應用
  - Artificial Intelligence and Financial Application
- 人工智慧與投資分析
  - Artificial Intelligence and Investment Analysis

# 財務金融大數據分析

## Big Data Analytics in Finance

投資大數據分析

**Big Data Analytics in Investment**

人工智慧與財務應用

Artificial Intelligence and  
Financial Application

人工智慧與投資分析

Artificial Intelligence and  
Investment Analysis

# Summary

- This course introduces the fundamental concepts and research issues of Financial Technology (Fintech).
- Topics include
  - Evolution of Fintech: Money and Financial Services
  - Fintech: Technology Innovation in Financial Services
  - Fintech and Financial Services Value Chain
  - Fintech Business Models Innovation
  - Consumer Psychology and Behavior on Financial Services
  - Blockchain Technology
  - Finance Big Data Analytics with Pandas in Python
  - Artificial Intelligence and Deep Learning for Fintech
  - Robo-Advisors for Wealth Management in Fintech
  - Portfolio Optimization and Algorithmic Trading
  - Intelligent Question Answering System for Fintech
  - Case Study on Fintech

# Contact Information

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網址 : <http://mail.tku.edu.tw/myday/>

