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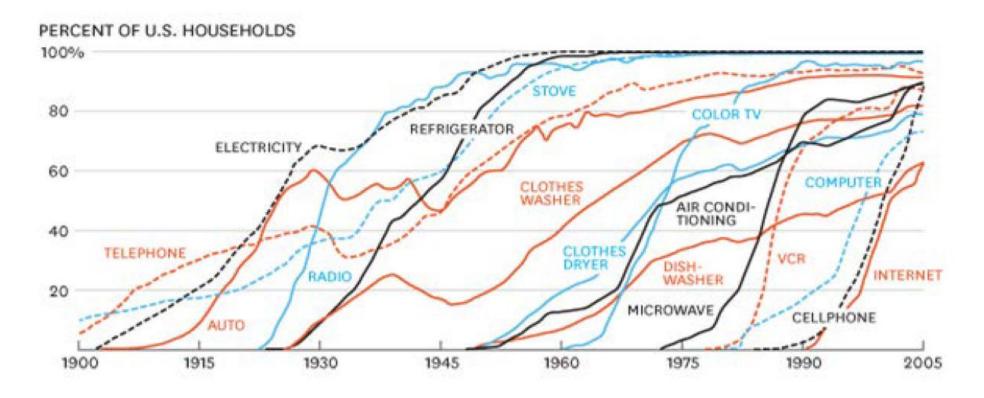
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Digital innovation: the global challenge

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Technology adoption is quicker than ever



Roma, 13,11,2019

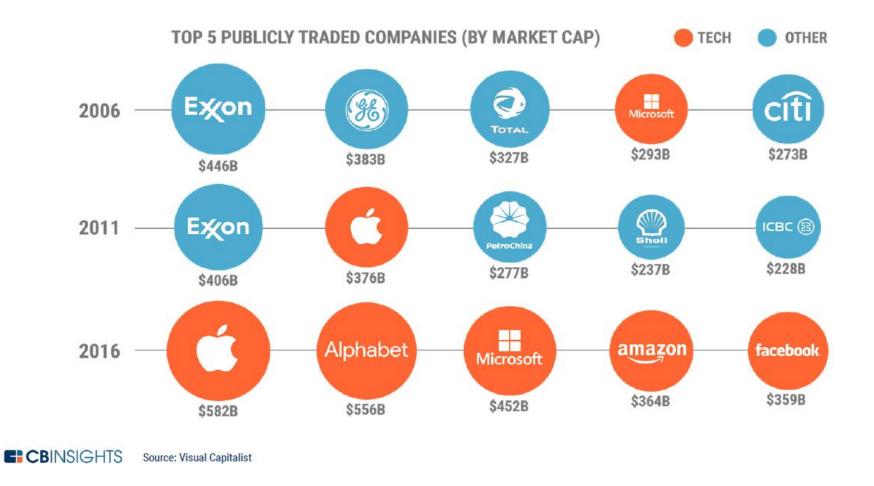
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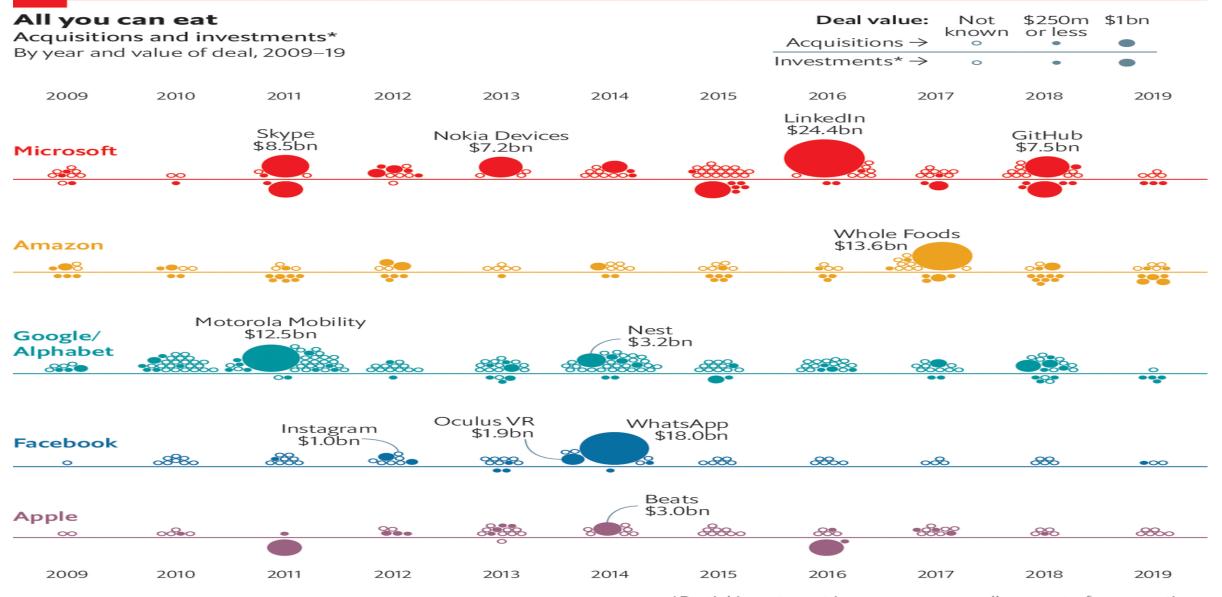
Technology is eating every industry



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Sources: Bloomberg; *The Economist* The Economist

*Partial investment in a company, usually as part of a consortium. Value shown is the total value of the acquisition, not the share owned by a particular company

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Impacts of digital innovation, robotics, artificial intelligence on the labor market

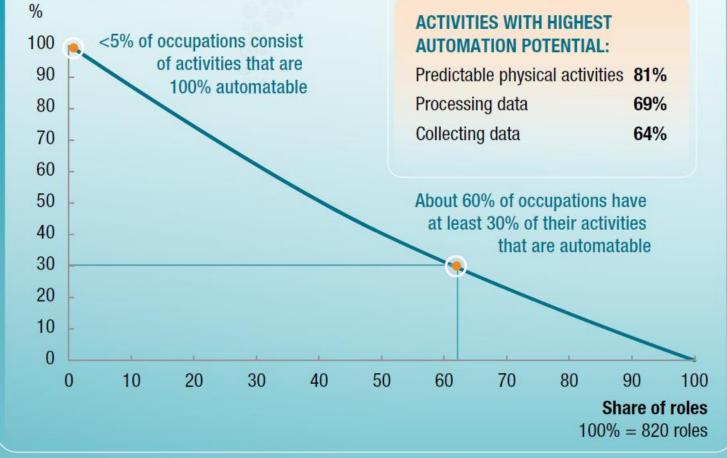
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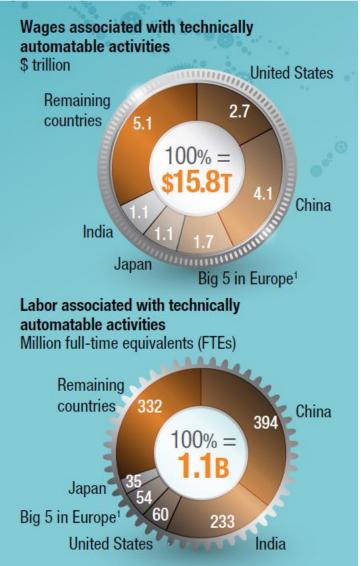
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While few occupations are fully automatable, 60 percent of all occupations have at least 30 percent technically automatable activities

Technical automation potential





¹ France, Germany, Italy, Spain, and the United Kingdom.

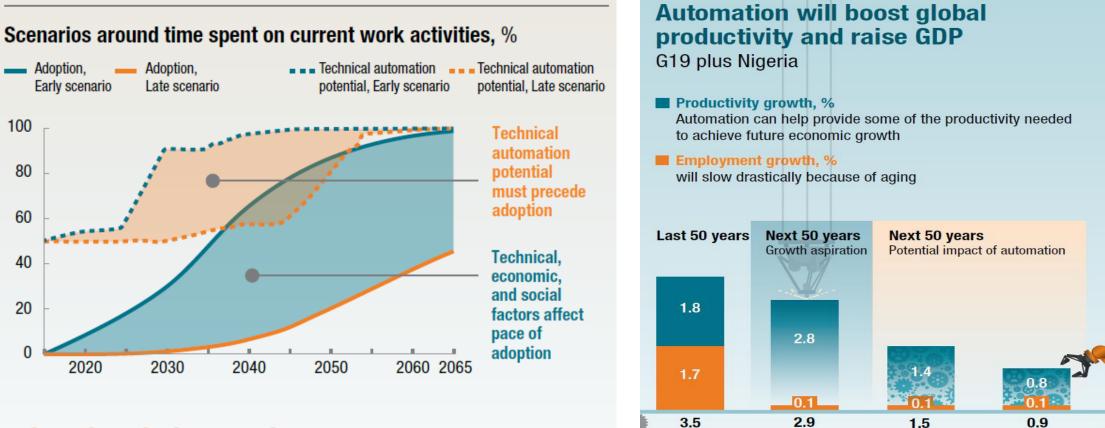
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MCKINSEY GLOBAL INSTITUTE

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Historical

McKinsey&Company

Late

scenario

Early

scenario

Required to

projected growth in GDP per capita

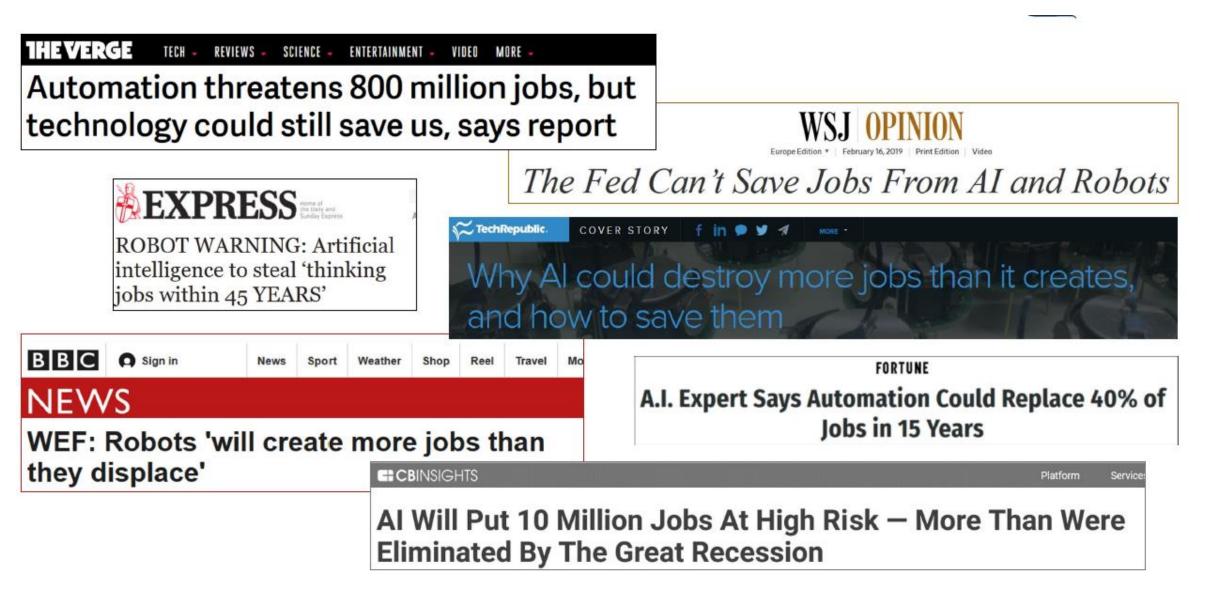
achieve



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Artificial Intelligence and employment: an assessment for the Italian market

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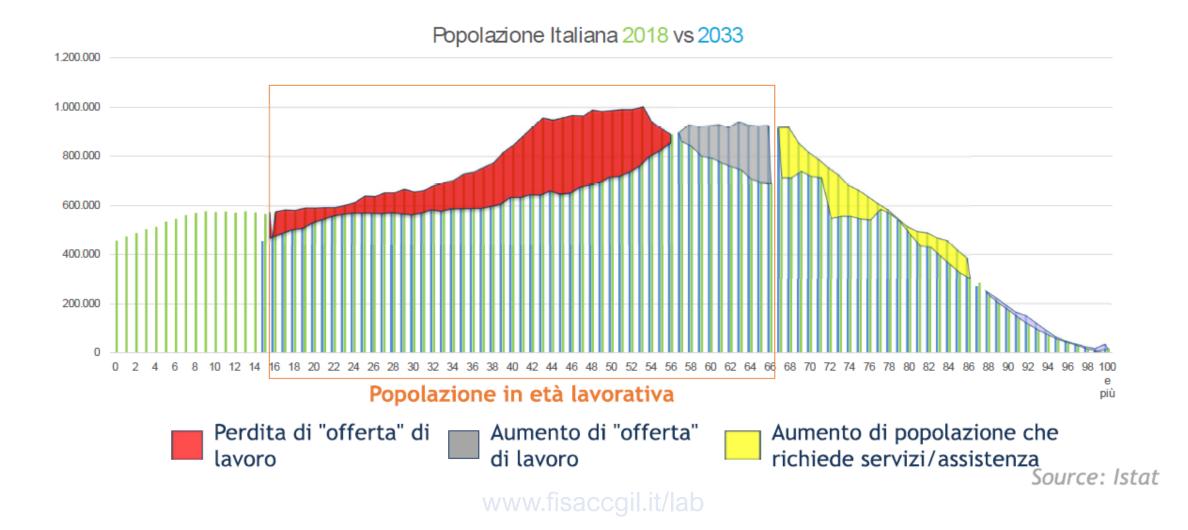
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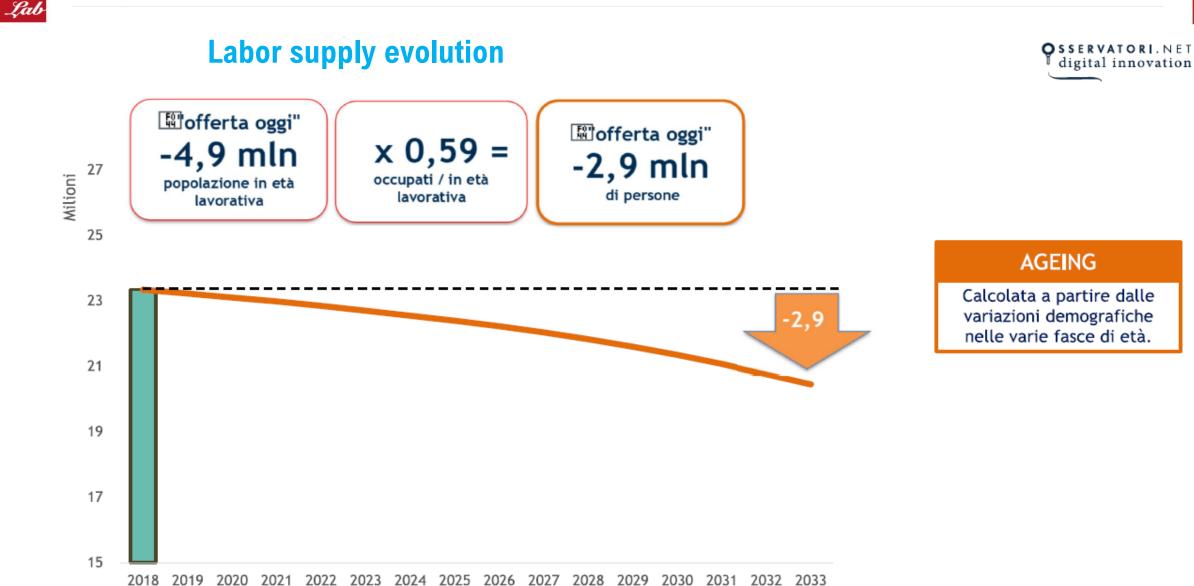


Expected demographic change



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19

17

15

SSERVATORI. NET digital innovation



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2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033

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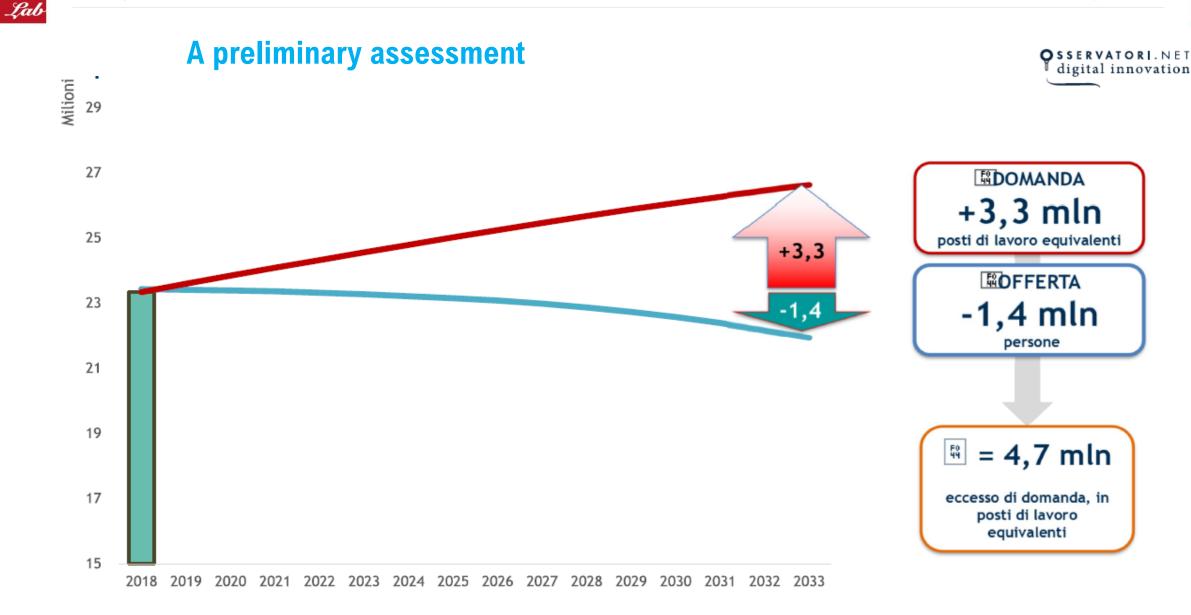
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ITALY: Automation Potential

Sectors by	Automation potential	lstat, 2016	% occupati sul totale 👝
activity type	36	Servizi di alloggio e di ristorazione	6,9%
Accommodation and food services	73	Manifattura	18,9%
Manufacturing	60	Trasporto e magazzinaggio	5,6%
Agriculture	58	Agricoltura	15,5%
varehousing Retail trade	53	Commercio all'ingrosso	6,5%
Aining	51	Commercio al dettaglio	10,5%
Other services	49	Estrazione di minerali da cave e miniere	0,1%
Construction	47	Altri Servizi	5,7%
Jtilities	44	Costruzioni	6,7%
Wholesale trade	44	Utilities	1,4%
Finance and nsurance Arts, entertainment,	43	Finance & Insurance	2,9%
and recreation	41	- Attività artistiche, sportive, di intrattenimento e divertimento	0,9%
Administrative	39	Immobiliare	1,5%
Health care and social assistances	36	Sanità e assistenza sociale	4,3%
Information	36	Servizi di informazione e comunicazione	2,8%
rofessionals	35	Attività professionali, scientifiche e tecniche	6,3%
Management	35	Servizi di supporto alle imprese	2,9%
Educational services	27	Istruzione	0,6%

POTENZIALITÀ (t = + 🗐 DI AUTOMAZIONE IN ITALIA

51%

oma. 13.11.2019

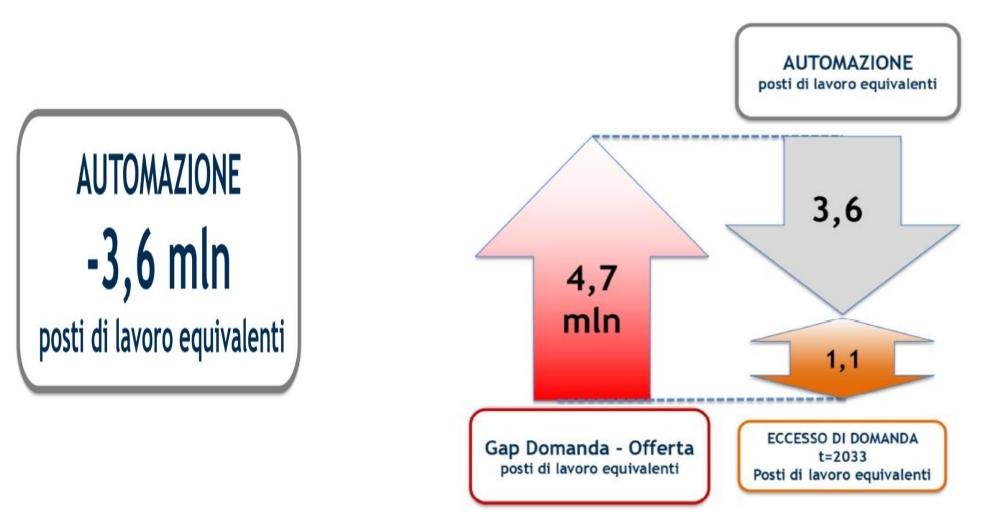
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ITALY: Automation potential impact in the next 15 years



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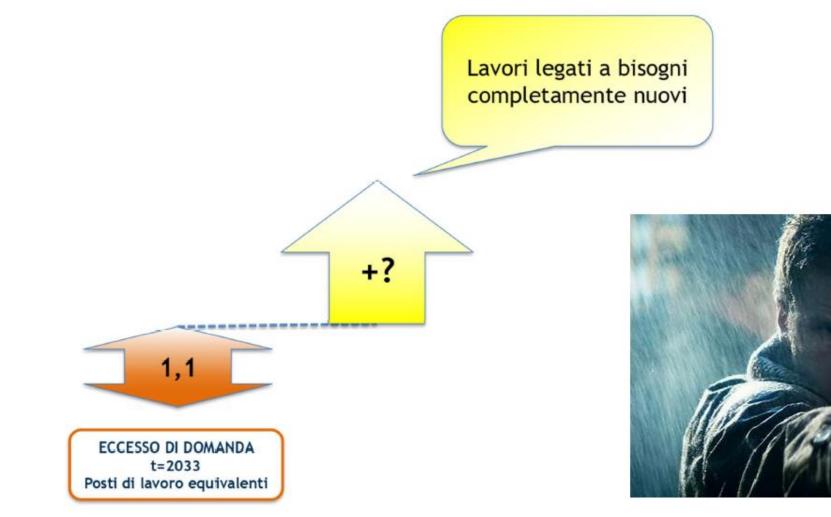
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ITALY: Automation Potential





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Digital innovation: the challenges in the financial services market

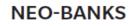
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Market Challenges Neo-Banks e Neo-Insurances

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UK

CUSTOMERS WITH MONZO, REVOLUT, ATOM, STARLING, TANDEM (MILLIONS)



20-30%	Deposits held in direct bank accounts		20% of US customer
5-15%	Offline deposits held by clients with direct bank accounts	>	deposits in direct bank accounts Another 50% with the
40-50%	Deposits held by consumers without a direct bank account, but open to switching		potential to switch
15-25%	Deposits held by consumers not open to direct bank only accounts		
Source: Oliver Wyman Rising Rate Survey			

Source: Oliver Wyman Rising Rate Survey

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NEW P&C OFFERINGS

GROWTH OF ZHONGAN, FIRST ONLINE-ONLY INSURER IN CHINA

 NUMBER OF CLIENTS

 MILLIONS

 2013
 0

 2014
 199

 2015
 313

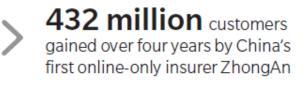
 2016
 345

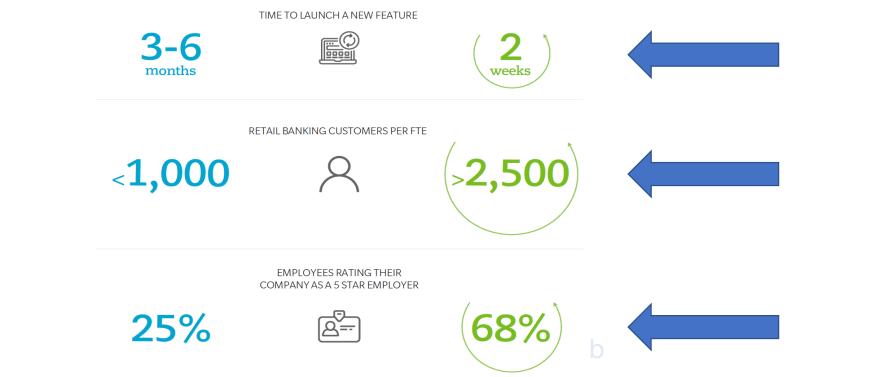
 2017
 432

Source: Oliver Wyman Analysis; Press Releases

NUMBER OF POLICIES SOLD BILLIONS







GROUP OF EXISTING BANKS

~\$150

3

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~\$3

AVERAGE COST TO ACQUIRE NEW CURRENT ACCOUNT CUSTOMERS

\$ || |}

DAYS FROM APPLICATION TO CURRENT ACCOUNT FUNCTIONALITY BEING ACCESSIBLE

 \oslash

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Market Challenges FinTech - BigTech

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The Alphabet Soup of Creating Digital Banking Stars

ARTIFICIAL INTELLIGENCE AND AUTOMATION

Outside of Technology, the Banking and Securities sector is the biggest spender on external AI services and has fast growth¹

I Telecommunication	lons 50	300	
Education	100	450	
📺 Utilities	100	500	
This insurance	200	650	
👮 Transportation—	200	700	
Government	500	1000	
Manufacturing		4000	
🐺 Retail	1100	5000	
Other Industries	1000	5150	
🐈 Healthcare		5300	
📶 Banking & Securi	ties 1900	7500	
			- 1
			- (
0	-		



Traditional banking is being challenged not by small FinTech startups, but by established tech giants because of...



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Amazon's unbundling of the bank



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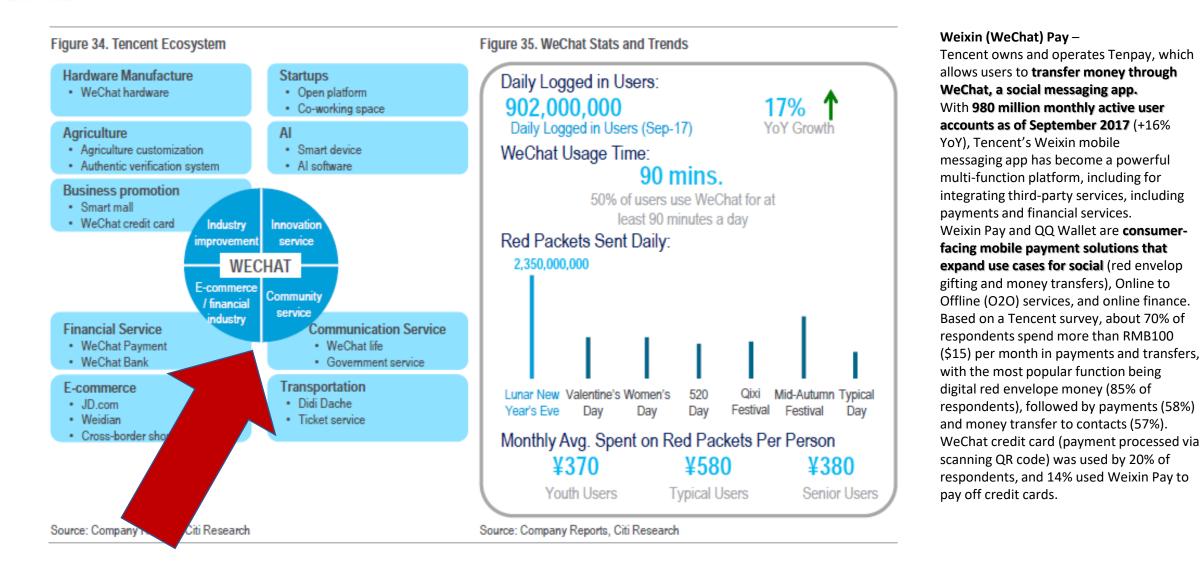
130

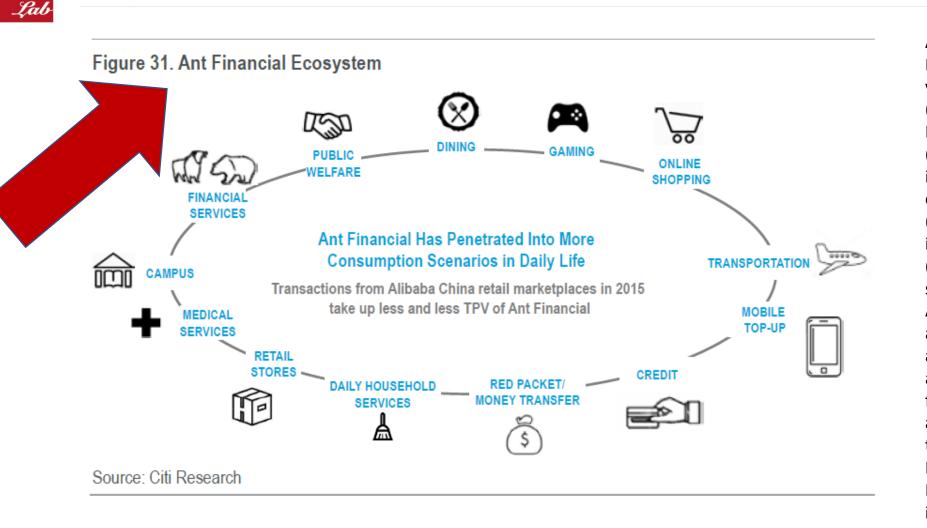


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Ant Financial is one of the largest FinTechs in the world. Its strategic vision is based on: (1) leveraging the power of the Internet and big data; (2) empowering financial institutions to create an ecosystem; (3) serving both SME and individual customers; (4) providing inclusive financial services. Ant Financial's competitive advantages include: a large user base; an incubator for vital, innovative financial products; and a world-class financial cloud technology platform. In addition, it is a pioneer in the DT Era, employing data to drive innovation.

Roma, 13,11,2019



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Alipay is now the modern gateway to an ecosystem of financial services



The crown jewel, Alipay, is now a mobile wallet that has **520M+ users**, and **110M+** partners across 15 countries.

Yu'e Bao is a money market fund that invests spare change from Alipay wallets. The money market fund is **the largest in the world**, managing **\$233B** at the end of 2017.

Ant Fortune is a marketplace for other Ant Financial and third-party financial products. At the end of 2017, Ant Fortune had **330M users**.

Ant Insurance Service has nearly **400M users** and is seeing premium growth of 43% YoY. Ant Financial's marketplace has **80+ insurance companies** selling thousands of products.

Zhima Credit creates a credit score based on social networks and payments history – among other factors. At the end of Q1'17, it had about **260M users**.

Ant's consumer credit offering, Ant Credit Pay, has **100M active users**. In total, Ant Financial has lent **\$95B** to consumers through Q1'17.

Ant Cash Now allows Alipay users to borrow funds quickly, based on user risk profiles.

CBINSIGHTS Sources: World Fintech Report 2018, Alibaba investor presentations

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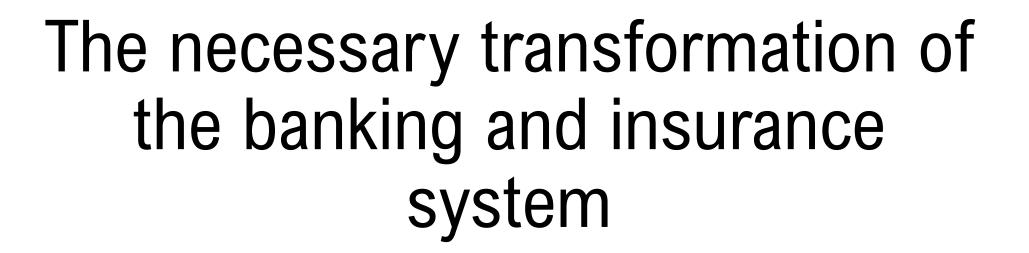
Figure 6. Estimated Volume Lost to Disruptive Models by 2025

	North America	Europe	China	Developed Asia	Emerging Asia
Payments	^{6%} 34%	^{6%} 34%	^{9%} 50%	^{6%} 34%	^{2%} 36%
Investments	^{6%} 34%	^{6%} 34%	^{9%} 50%	^{6%} 34%	^{2%} 36%
Personal Lending	^{6%} 34%	^{2%} 17%	^{6%} 34%	^{2%} 17%	^{1%} 24%
Credit Card Lending	^{2%} 17%	^{2%} 17%	^{2%} 28%	^{2%} 17%	^{1%} 24%
SME Lending	^{6%} 34%	^{6%} 34%	^{2%} 28%	^{2%} 17%	^{2%} 36%
Mortgage	^{6%} 34%	^{2%} 17%	^{1%} 14%	^{2%} 17%	°% 12%

* Disruptive models vary across product – Investments: low price, digital only brokerage and robo-advisor; Mortgages: digital-only robo-mortgage, new credit scoring; Personal, credit card, and SME lending: digital only, P2P marketplace; Payments: digital payment via wallets; P2P or A2A and digital only cross-currency exchange. Source: Citi Global digital Strategy, "Bang and Fuse" model, Citi Research

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The question is: will banks and insurances become innovative before new entrants (FinTech & BigTech) have achieved sufficient economies of scale for their market programs?

- A decade after the Great Financial Crisis:
- They can try to "buy innovation" through partnership or the acquisition of new fintech participants.
- Banks and insurances can buy innovation faster than FinTech can acquire new customers.

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Lal



When the new competitor is a BigTech, the equation changes: the economies of scale are already existing and the database is, at times, greater than the banks themselves.

Internet-based platform companies - like Amazon, Alibaba, Facebook or Tencent - have captured an everincreasing share of consumer attention and time.

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A continuous transformation for banks & insurances involving:



NEW BUSINESS MODELS



A REVISION OF THE ORGANIZATIONAL STRUCTURE



CORPORATE CULTURE REVIEW



CONTINUOUS TECHNOLOGICAL AND INFRASTRUCTURAL UPDATE