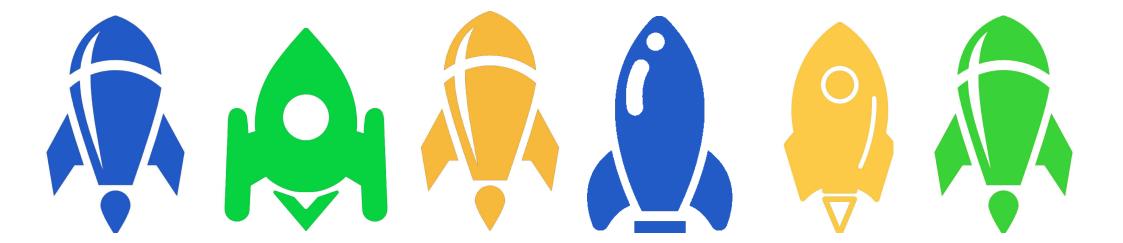


## Innovation or exnovation: how can banks survive?

Presented by: Vincent Caldeira Temenos Innovation Jam Hong Kong – 22 March 2018 Before man reaches the moon, your mail will be delivered within hours from New York to Australia by guided missiles. We stand on the threshold of rocket mail

> Arthur Summerfield US Postmaster General, 1959



## DEFINITIONS

#### Innovation

Application of a novel idea to implement a product, service or process that adds value to the organization and its customers.

Clayton Christensen in the Innovator's Dilemma distinguishes disruptive innovation (vs. sustaining innovation), a process by which a product or service takes root initially in simple applications at the bottom of a market and then relentlessly moves up market, eventually displacing established competitors. He explains disruptive innovation through 5 principles.

#### **Exnovation**

Consistent replication of processes and practices that have been tested and confirmed within the innovative circles of an organization to its other parts, not allowing further innovation by those practicing them.

Companies that have followed exnovation as a strategy to improve organizational performance include General Electric, Ford Motor Company and American Airlines.

## Companies depend on CUSTOMERS and INVESTORS for RESOURCES

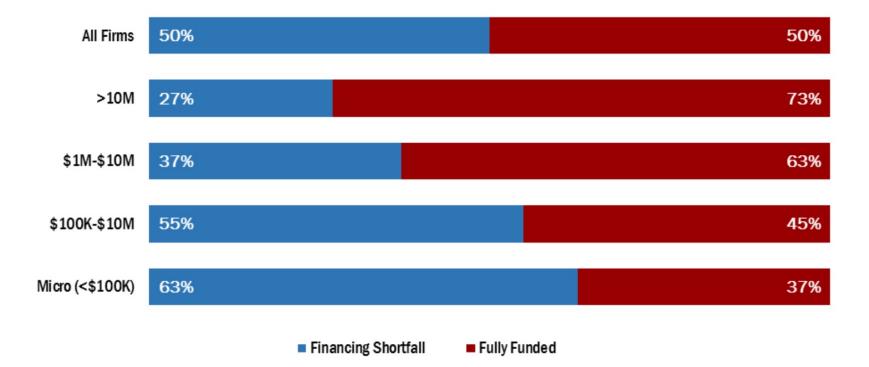
Bank's resource allocation is typically towards sustaining innovations for higher-margin businesses.



#### In US, SMBs are struggling to get financing for small dollar loans from banks due to high transaction costs and increasing cost of capital

#### Figure 23: Microbusinesses Have the Greatest Unmet Need

Percent of Loan Applicants Receiving Full Funding Versus Those Funded Partially or Not at All



Source: "2015 Small Business Credit Survey," Federal Reserve, March 2016.

#### Online lenders are filling this gap with platforms offering digital application process and automated credit scoring

Figure 31: Small Business Marketplace Lending is Continuing to Grow

Marketplace lending 350 20% comprises 16.1% of US SMB issuance in 300 2020 15% 250 200 10% 150 100 5% 50 Banks lose 4.6% of 0 0% origination volume vs. 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 a world with no P2P lenders Marketplace issuance from market expansion Marketplace issuance gained from incumbents Incumbent issuance Incumbent share loss to Marketplace (right axis) — Marketplace as a % of total US unsec balance (right axis)

U.S. Total Small Business Loan Issuance, Billions of Dollars

Source: Global Marketplace Lending: Disruptive Innovation in Financials, Morgan Stanley, May 2015.

# Small markets don't solve the growth needs of larger companies

Small organizations can most easily respond to the opportunities for growth in small markets. Those can be target markets for commercialization of new services.



#### Robo-Advisors offer automated, low cost, semitailored investment portfolios to retail end customer

Exhibit 1 Robo-Advisors Potentially Fill Niche Between Discount Brokerages, Traditional Wealth Managers



# Markets that don't exist can't be analyzed

It is not possible to investigate market trends, or gather statistical evidence on new services.



After Internet and e-Commerce, is it the rise of the Blockchain ?

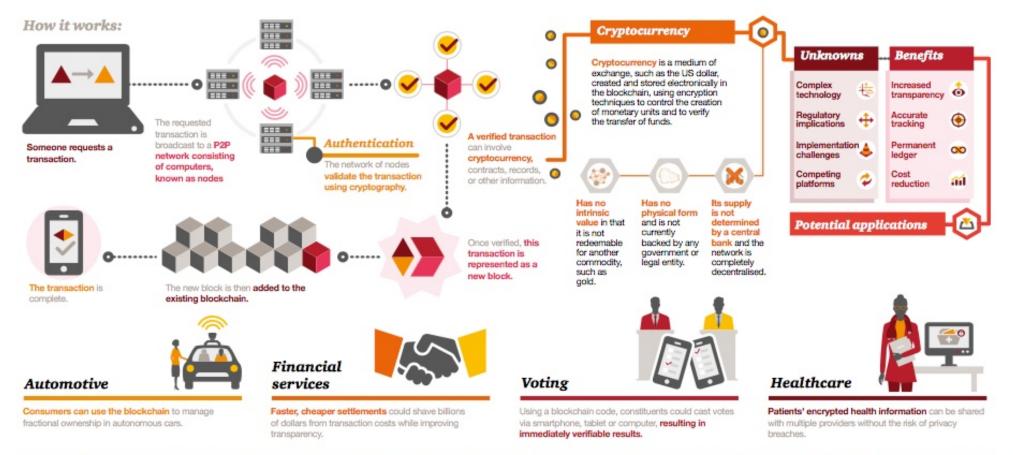
SURVEY:

56% of Bank CEOs recognize its importance but...

# 57% say they are unsure about or unlikely to respond to this trend

Source: PwC Global FinTech Survey 2016

# Blockchain participants can exchange digital assets without the need for a central party



Sources: "Money is no object: Understanding the evolving cryptocurrency market," PwC, 2015/"A Strategist's Guide to Blockchain, "strategy+business, January, 2016/"How Blockchain Technology Is Disrupting Everything," TechDay, 2016

Does the building of a permissioned Blockchain defeat this purpose?

## An organization's capabilities define its disabilities

Banks have processes and legacy systems that cannot easily change to support a different lowmargin business or product. Technology in particular has been developed to support organizational silos, often in a channel-centric way (branch, ATM, web, phone, mobile).



# Simple spent 2 years rebuilding systems to move customer accounts to new owner BBVA



#### unrepeatable raddish February 1, 2017

simple no longer allows green card holders, after banking with them for 2 years, they simply told me they were closing my account, no explanation. I asked many times. Ive lived in the US 16 years, legal, married to a us citizen, have an ssn, a green card etc. Im from England not the middle east, so they cant give me the damn trump excuse. Though thats a load of crap too for anyone legally in the US. Its pure discrimination. Read the civil rights act, 1964. Especially when they promised nothing would change when they transferred to compass as a bank partner, avoid these liars!! Because what really pissed me off is lve been trying to push business their way elling





I'm sorry. Just feel so betrayed. @simple was my partner. The way they viewed banking helped my finances so much! Now it's just a bank.

8:44 AM - Feb 21, 2017 · New Orleans, LA

○ 1 See Will's other Tweets

13

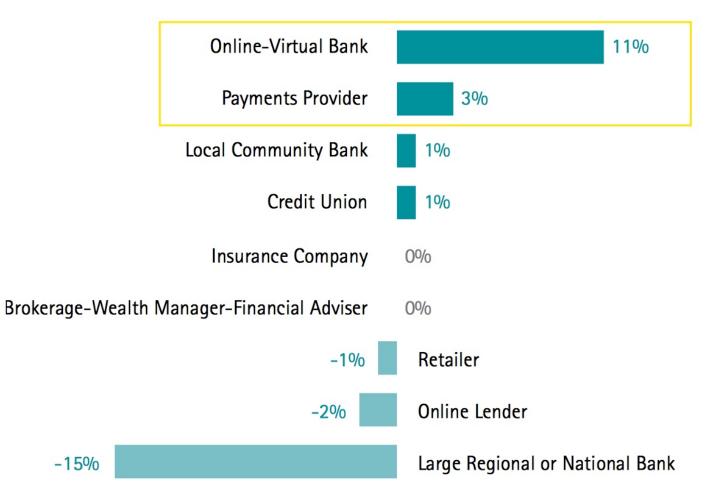
# Technology supply may not equal market demand

Innovation often exceeds the rate of possible absorption by customers. Banks that focus on existing high margin businesses tend to overlook the needs of the general market, and create a vacuum for lower-end, lower-cost technologies to enter at the foot of the market, servicing the basic needs of customers.



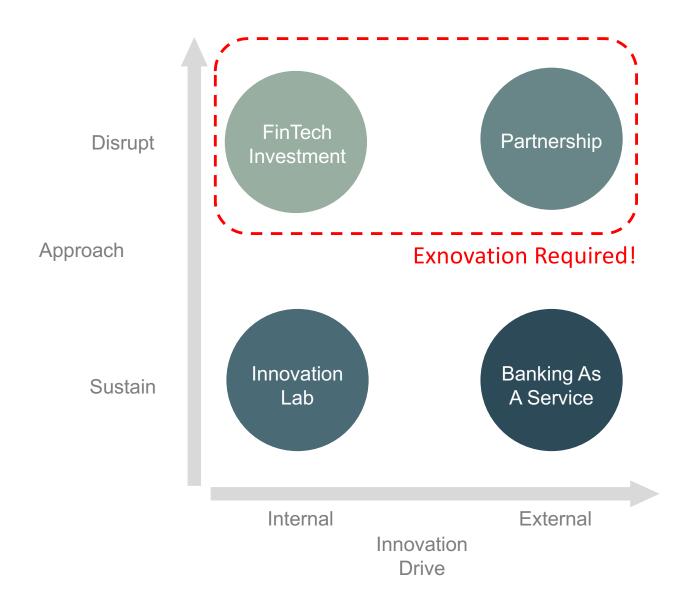
Virtual banks target customers whose need is simple and seamless transactions with lower fees

Q: In the past 12 months, have you switched to a new financial services provider or other company from your main bank?



Source: 2016 North America Digital Banking Survey, Accenture

## **4 MODELS FOR MANAGING INNOVATION**



## The Top 10 US Banks are investing in FinTech

FinTech

Investment

										Key:	New 2017 portfolio co.	Acquired b investor
	Rank	Blockchain	Data Analytics	Insurance	Personal Finance	Wealth Management	Fin. Services Software	Lending	Payments & Settlement	Real Estate	Regulatory Technology	Supply Chain
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Source: CB Insights, February 2018

Partnership

## China Technology Giants are building the new banks

#### **MyBank**

Promoted by: Alibaba, Fosun

Launched on 25/6/2015

Loans for individuals and start-ups, and TaoBao sellers.

Operates on Alibaba Cloud



#### WeBank

Promoted by: Tencent, Baiyeyuan, Shenzen Luye

Launched on 18/1/2015

Personal banking, corporate banking, international banking.

WeChat and QQ act as storefront to customers



#### **Baixin Bank**

Promoted by: Baidu, CITIC Bank

Launched on 18/11/2015

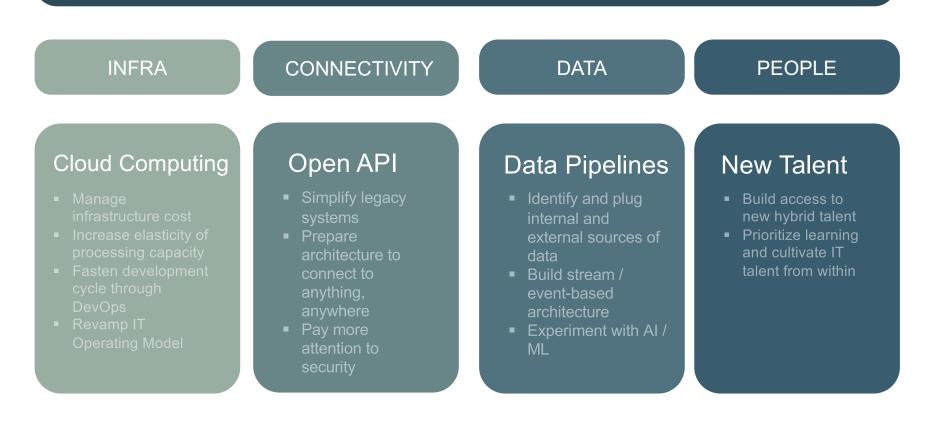
Financial products and loans for individuals and small enterprises

User Behavior Analysis for personalization and risk



## ENABLING FACTORS OF TECH EXNOVATION

#### **ENABLING FACTORS**





Following a 15-years career in Banking Technology, Vincent recently became the Chief Technology Officer of Bondlinc, a Singapore-based FinTech company, where he oversees the technology design and development of the company's Software-As-A-Service platform bond trading and execution platform with the aim of standardising, improving and automating traditional bond trading for financial institutions' end clients. In its one year of existence, Bondlinc platform has received multiple awards which include being named as one of Amazon Web Services Hot Startups globally in September 2017, receiving the Zamma Award at NTT Data's Open Innovation Contest 7.0 in Singapore Finals in January 2018, and the company was recently named Most Promising FinTech Startup by Asian Private Banker.

# Thank you!