Fast, agile and responsive: how a global bank adopted a Silicon Valley mindset Darryl West, Group CIO, HSBC August 2018

SBC

#### HSBC - The world's leading international bank



## The call to action... business strategic context

#### CEO priorities – HSBC Group transformation programme 2015 - 2017



- Reduce Group risk weighted assets (RWA) by c.USD290bn
- Continue to optimise our global network; reduce complexity of the six-filter process



- Leverage international network and strategic opportunity NAFTA region
- Set up UK ring-fenced bank
- Deliver USD4.5-5.0bn cost savings
- Deliver revenue growth above GDP from our international network
- 7 Pivot to Asia



- Grow business from RMB internationalisation and extend global leadership position
- Complete implementation of Global Standards; our globally consistent and rigorous financial crime controls
- 10 Transform customer experience by investing in digital capability and technology innovation



Full separation of core banking and 4 investment banking activities



Technology contributed \$1.7bn of cost savings from the run-rate



Global Technology Delivery Centres opened in India and China and roles migrated from high cost locations to India and China



Centralized client due diligence systems across all business lines for our 38 million customers

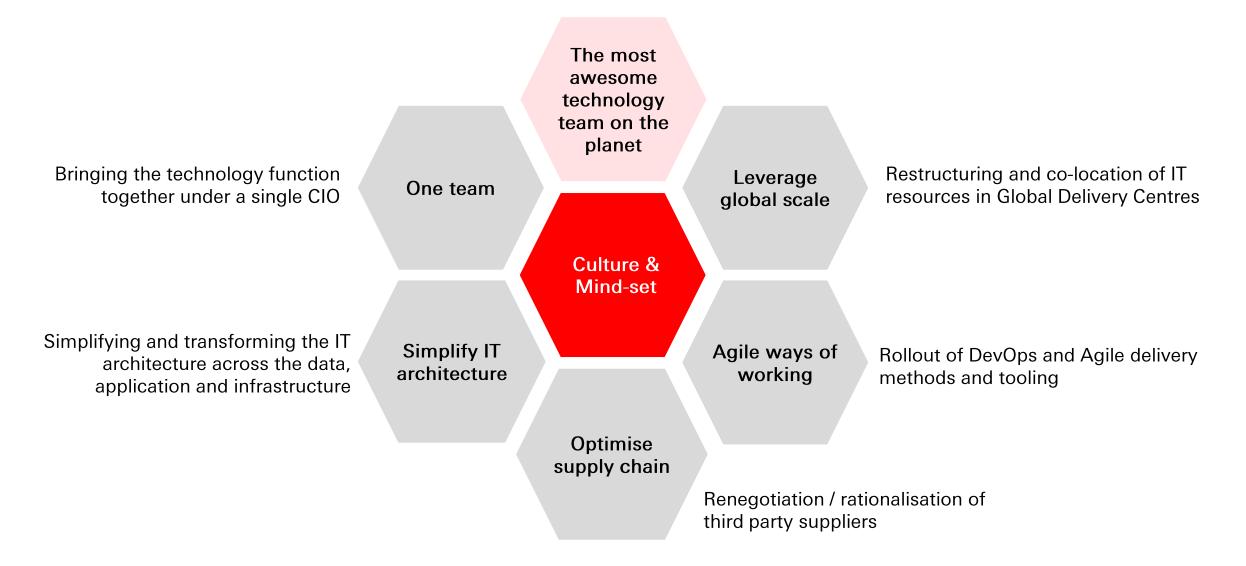


Global rollout of Agile delivery methodology and DevOps practices & tooling to entire technology function

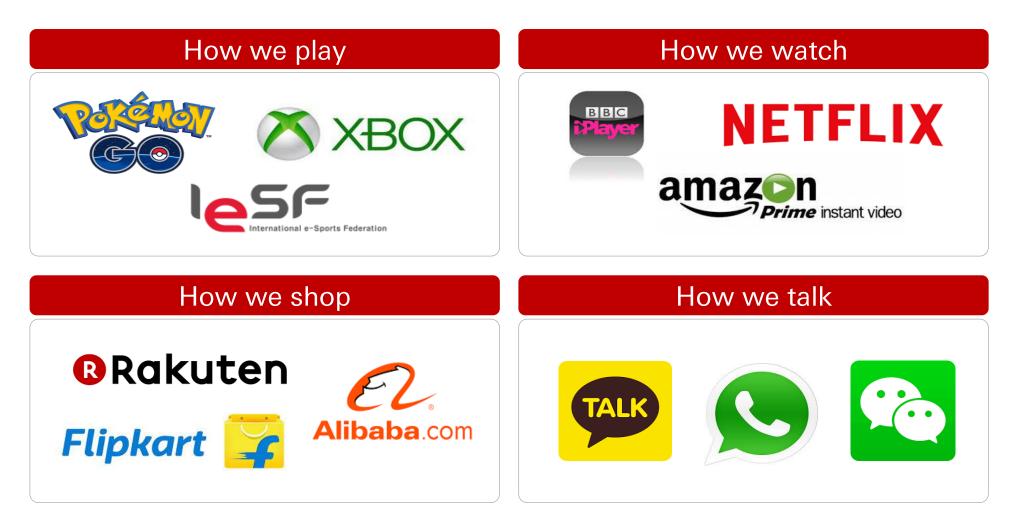
#### Incremental IT investment

- Optimise IT function: \$1.5bn
- Business programme \$1.5bn

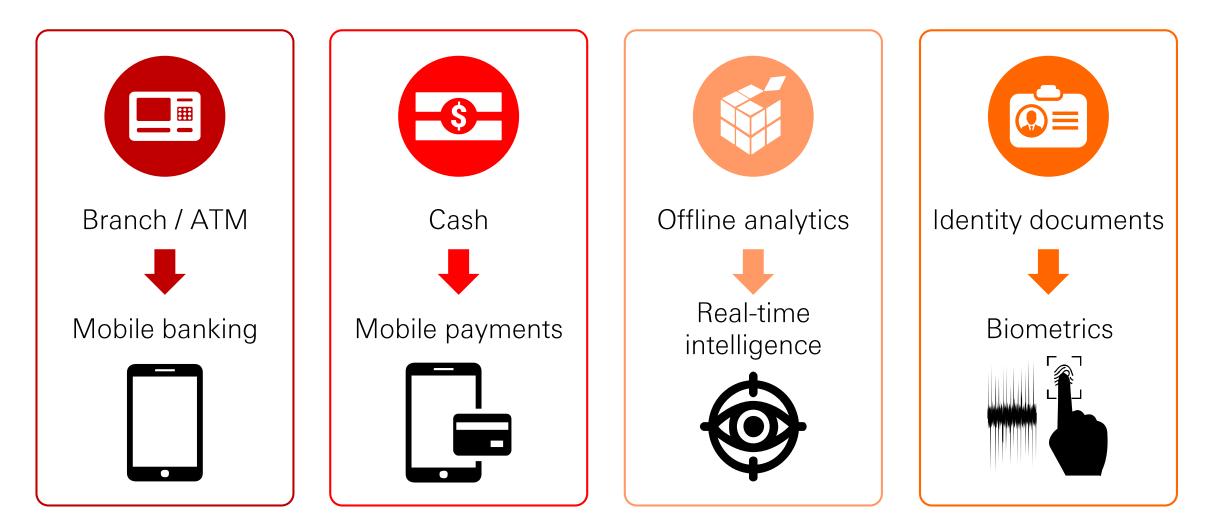
#### The IT transformation programme



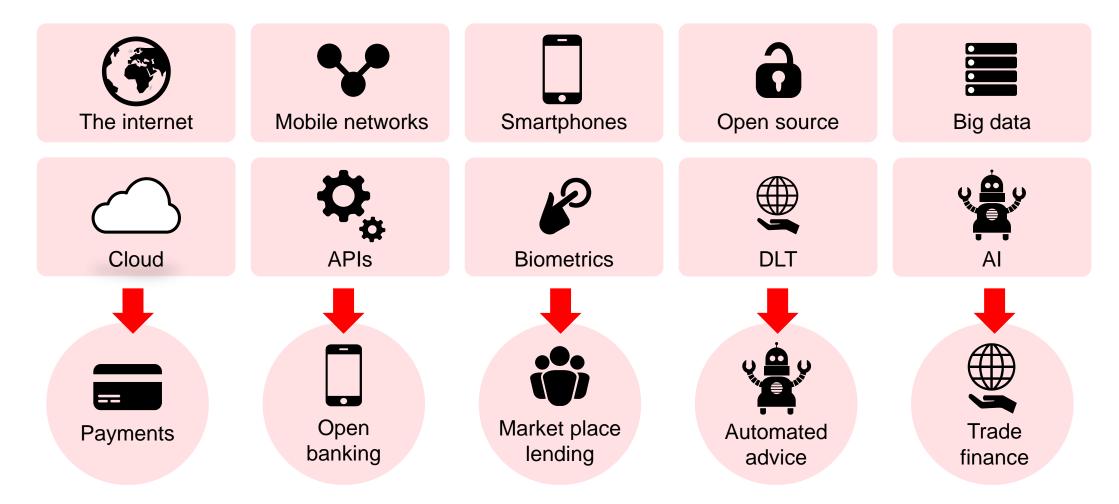
#### **Technology is transforming the way we live**



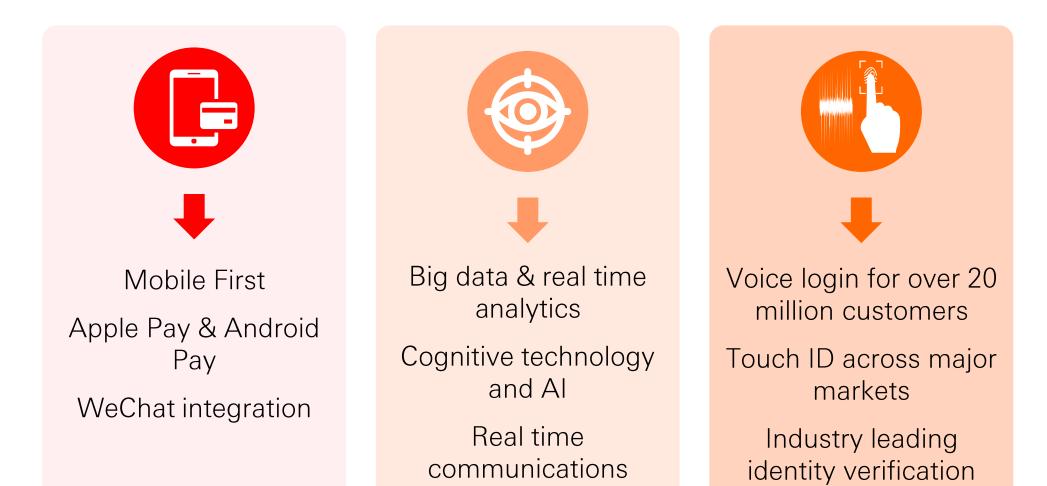
### **Technology is transforming banking**



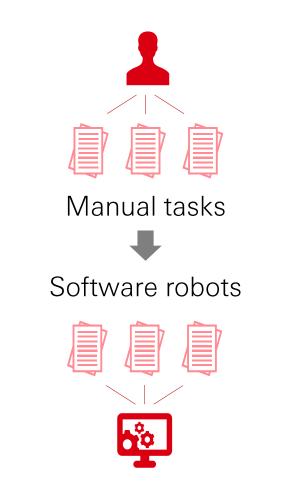
## **Technology trends are driving disruption in Financial Services**



#### **HSBC** is leading this transformation



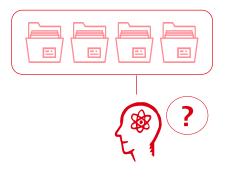
#### We are digitizing the way we work internally





Knowledge worker tasks

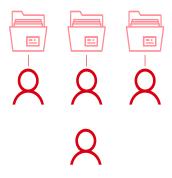
Artificial Intelligence bots



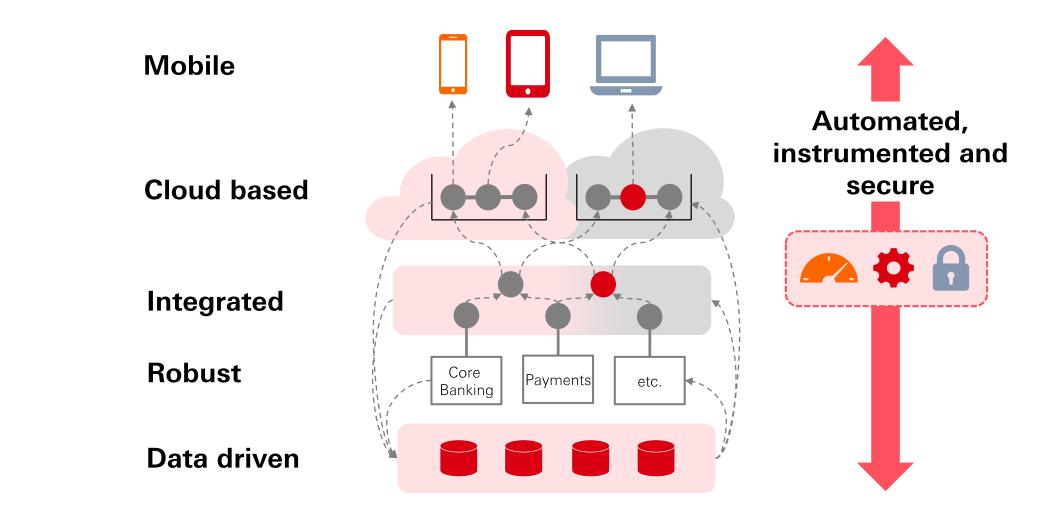


Screens designed for humans

APIs designed for machines



#### We are building on a new technology platform...



#### ...with Cloud at its heart

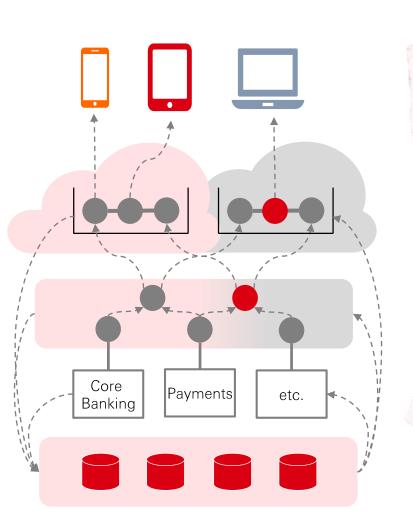
**Cloud based** 

Mobile

Integrated

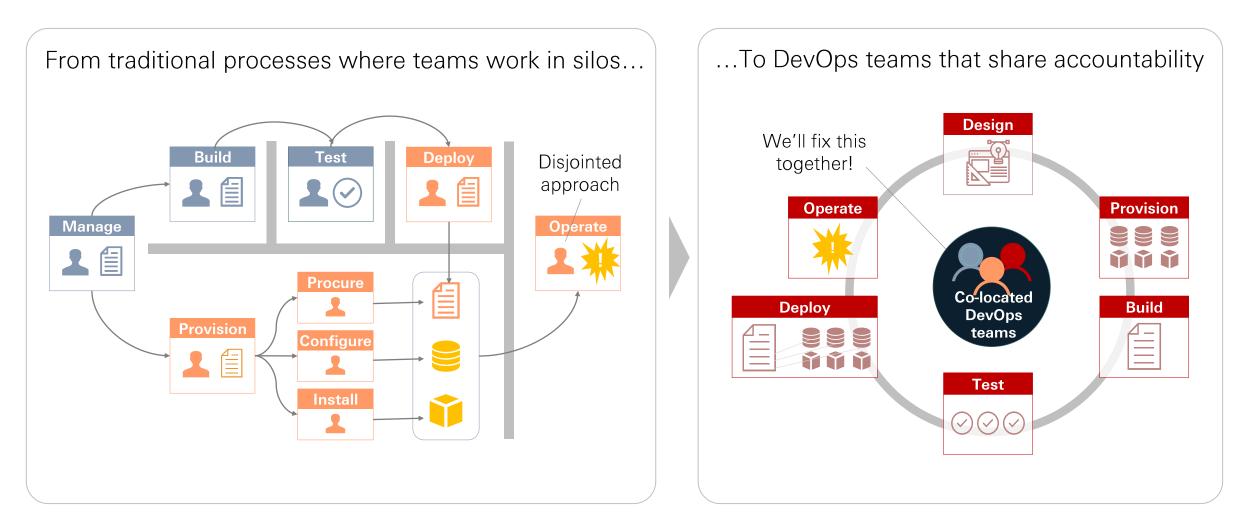
Robust

Data driven

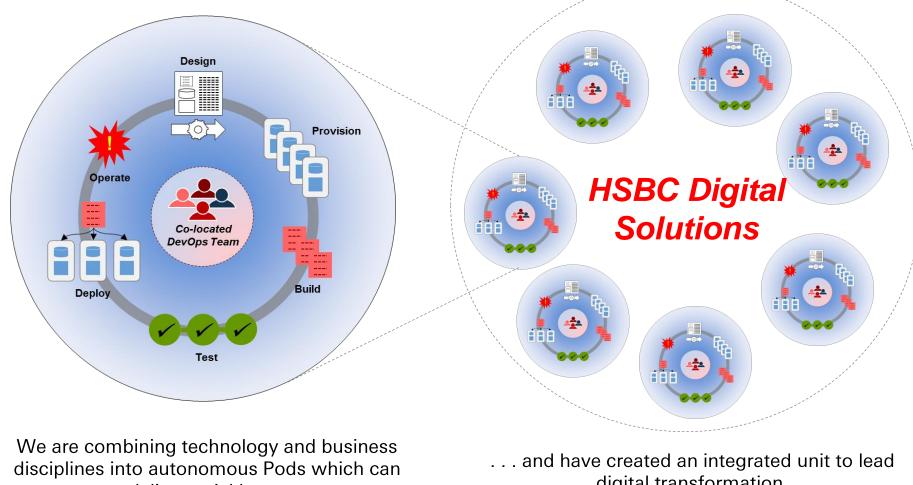


MAS recognises cloud services Monetary Authority of Singapore recognises cloud services can offer various benefits such as scalability and advanced functionalities... odo sagnus cu u FCA provides guidelines on cloud We see no fundamental reason why cloud services We see no fundamental reason why cloud services cannot be implemented, with appropriate consideration, in a manner that complies with our rules. US Regulator considers cloud another form of outsourcing The Federal Financial Institution Examination Council Ine regeral rinancial institution examination Council Agencies consider cloud computing to be another form of Agencies consider cioua computing to be another torm of outsourcing with the same basic risk characteristics and risk management requirements as traditional forms of outsourcing...

#### We are transforming the way we deliver IT



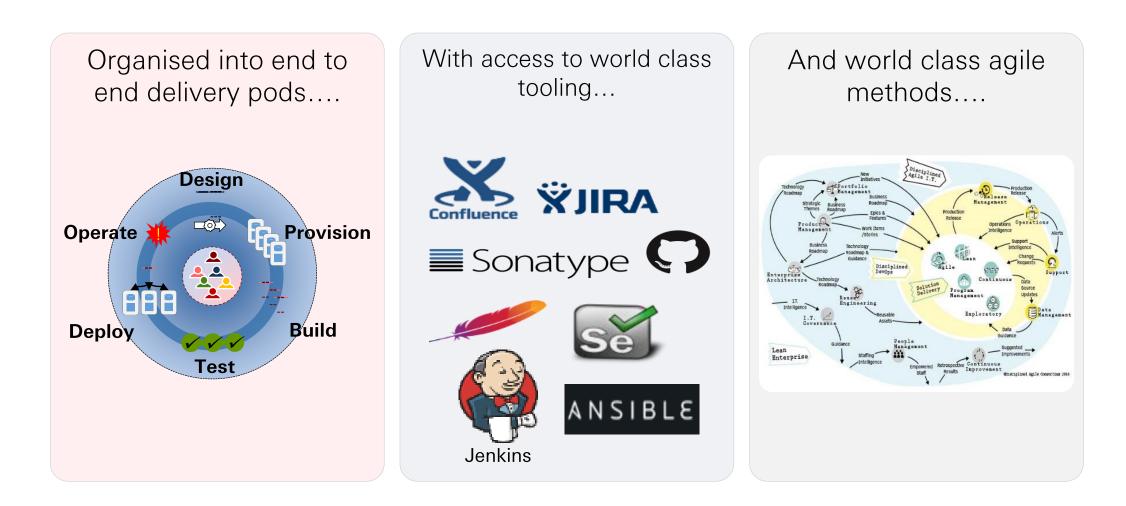
## We are bringing business and technology closer together



deliver quickly . . .

digital transformation.

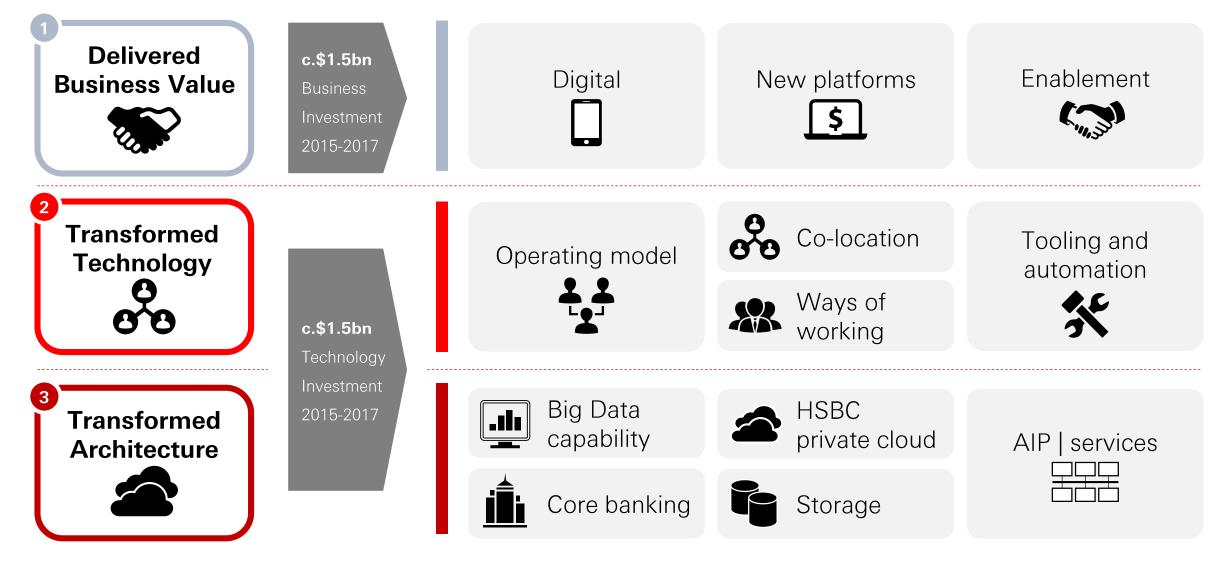
#### **Investing in collaboration and DevOps Tooling**



## ...And measuring our maturity

	METRIC	DESCRIPTION	MATURI	MATURITY LEVEL	
Productivity	Release frequency	Number of releases per month	> 5 times a day	Less than twice yearly	
	Lead time to deploy	Amount of time from end of development to deployment	Less than 1 hour	More than 2 months	
	Productive time	% of time dedicated to core tasks	> 90%	<10%	
	Mean time to recover (MTTR)	Average number of minutes	Less than 30 min	More than 5 days	
Effectiveness	Service Availability	Average % of service availability	More than 99.999%	Less than 70%	
	Incidents	Number of priority incidents per month	<40	>200	
	Quality (Defects)	Number of post-production defects per month	<10	>200	

#### **IT Enabled Transformation**



#### **The IT Transformation Programme**



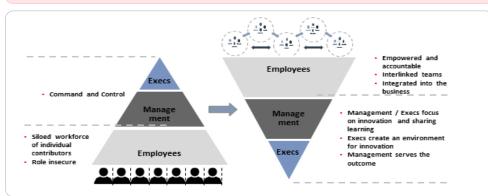
## What Culture do we need in Technology to be successful?



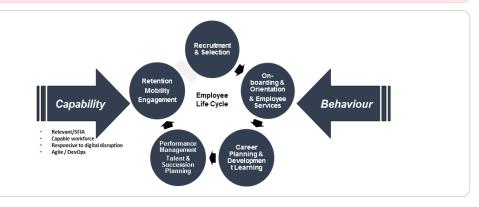
#### HSBC Technology manifesto



#### Leadership and ways of working



#### **People and culture**



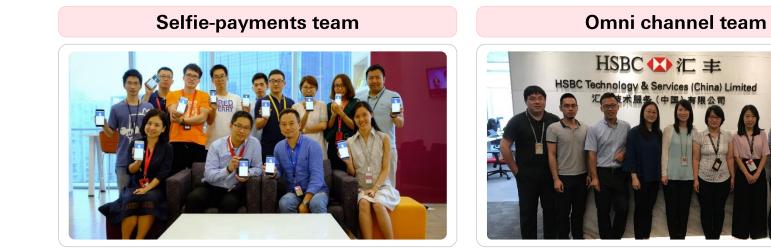
#### **Transforming leadership mindset and behaviours**

Manifesto Themes	Manifesto Behaviours
Ownership – lead are owners	<ul> <li>✓ They think long term</li> <li>✓ They act on behalf of the entire company</li> </ul>
2 Learn and be curi	<ul> <li>Leaders are always learning</li> <li>Leaders always seek to improve themselves</li> <li>Leaders are curious about new possibilities</li> <li>Leaders act to explore new possibilities</li> </ul>
<b>3</b> Insist on the high standards	<ul> <li>Leaders have relentlessly high standards many people think these standards are unreasonably high</li> <li>Leaders are continuously raising the bar</li> <li>Leaders drive their teams to deliver high quality products, services and processes</li> <li>Leaders ensure that problems are fixed and stay fixed</li> </ul>
4 Think big – thinki small is a self fulfilling propher	<ul> <li>Leaders communicate a bold direction that inspires results</li> </ul>
5 Dive deep	<ul> <li>✓ Leaders operate at all levels</li> <li>✓ Leaders stay connected to the details</li> <li>✓ Audit frequently and are sceptical when metrics and anecdote differ</li> </ul>
6 Learn from the b	<ul> <li>Leaders track the best in the industry</li> <li>Leaders learn all they can from the best in the industry. That's why we have taken these principles from Amazon</li> </ul>

#### **Transforming leadership mindset and behaviours**

(	Manifesto Themes	Manifesto Behaviours
7	Leaders aim to be better	<ul> <li>✓ Leaders aspire to lead their industry</li> <li>✓ Leaders enjoy helping others to learn from them</li> </ul>
8	One team	<ul> <li>✓ Leaders understand and recognise the value of collaboration</li> <li>✓ As a global organisation we share our solutions and knowledge, for the benefit of our customers</li> <li>✓ We are an integrated part of the business</li> <li>✓ We focus on our customers</li> </ul>
9	Bright ideas	<ul> <li>✓ Leaders create an ideal environment for creative thought, free flow thinking and ideation</li> <li>✓ Leaders recognise the best ideas and encourage their development</li> <li>✓ Leaders also praise and recognise shared successes</li> </ul>
10	Teams: high performing teams of high performing people	<ul> <li>Robustness with respect: we cannot afford to have people keep there opinions to themselves. If someone believes that the team is doing it wrong, they challenge firmly but always respectfully</li> <li>Confidence with humility: every team should be proud of what they do and confident in their own abilities. However, every team will be stretched beyond it's abilities and should ask for help and guidance when they need it.</li> <li>Challenge with loyalty; every team member should challenge the team to improve itself and do better every day, but should be loyal to the mission and leadership of the team</li> <li>Ambition with focus: we set ourselves big ambitious goals, but focus our attention on the tasks in front of us to achieve those goals</li> <li>Accountability without question: every team owns a service, system or capability and takes complete ownership and accountability for its performance</li> </ul>

## **Innovating like a start-up**



#### Voice sentiment analysis team

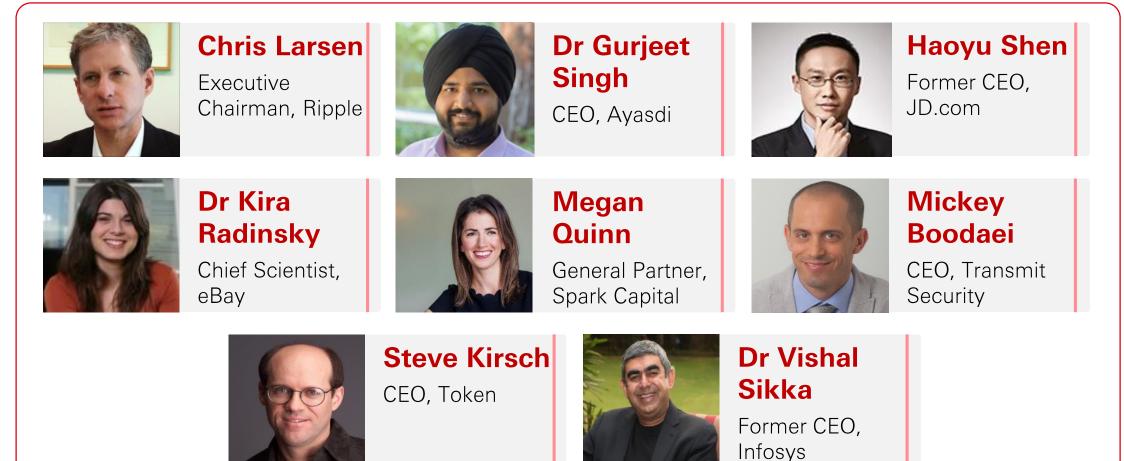




PayMe team



# Embedding culture change ..... embrace diversity of thought



**Technology Advisory Board** 

#### **Key Success Factors**

- Recognise the need for change...only the paranoid survive
- Rethink your ways of working...Make the leap to Agile / DevOps... everywhere
- Hire the best... nurture the talent
- 📩 Communicate the aspiration... articulated through a manifesto
- Transform the leadership mindset...measure behaviours and give feedback
- Listen to the engineers...remove blockers
- Invest in collaboration and DevOps tools 19
- Embrace innovation and diversity of thought...Technology Advisory Board
  - Partner with the best...Big techs and start-ups
  - Celebrate success
- And... just keep going... persistence is a virtue

## Together we thrive

