



O P E N   R O A D S

Powered by Huawei

The Accelerator for Digital Transformation

# DIGITAL MASTERMIND

A Holistic Framework for Navigating the Digital Transformation Journey

# Introduction

In today's market, transformation is of vital importance for many companies; brought about by rapid changes in digital technology, new competition, business models and the demands from a new generation of customers. Some businesses are being forced to change in order to survive, whilst others are looking to build competitive advantages.

Technology is a vital component of this transformation, but companies must be careful to discriminate between becoming “digitised” rather than “digital”. When a company is digitised, it achieves higher efficiency, reliability, and cost savings. But when it is digital, it also enables rapid product and service innovation to capture new opportunities, grow revenue and increase brand equity.

Transforming to become truly digital requires a company to change many aspects: the way it organises itself, the way it interacts with its customers and the way it utilises technology. However, for many companies these are uncharted waters, so where to begin?

Digital Mastermind has the answer.



*The Digital Mastermind has been created to enable companies to plan and execute their entire transformation journey, adopting a “vision for growth, identify a scenario, start small, think big, and scale fast” strategy. It helps benchmark an organisation's current digital maturity and provides a step-by-step guide to defining objectives, strategy, operations and the time and investment needed to complete the transformation.*

*The Open ROADS\* Community has brought together a number of specialist organisations whose expertise and experience have helped define the framework, and who are available to assist you on your transformation journey.*



*Hua Liang*

*Chairman*

*(February 2016 to September 2018)*

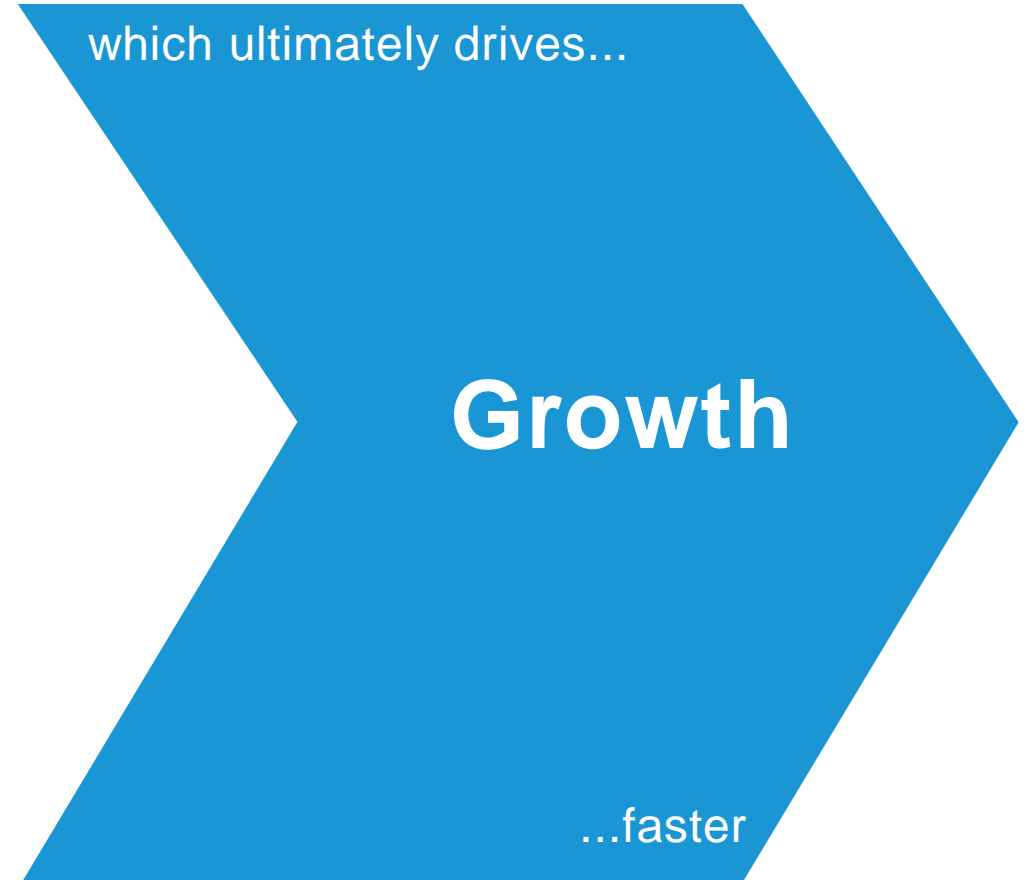
*Qibing Tang*

*Chairman*

*(Since September 2018)*

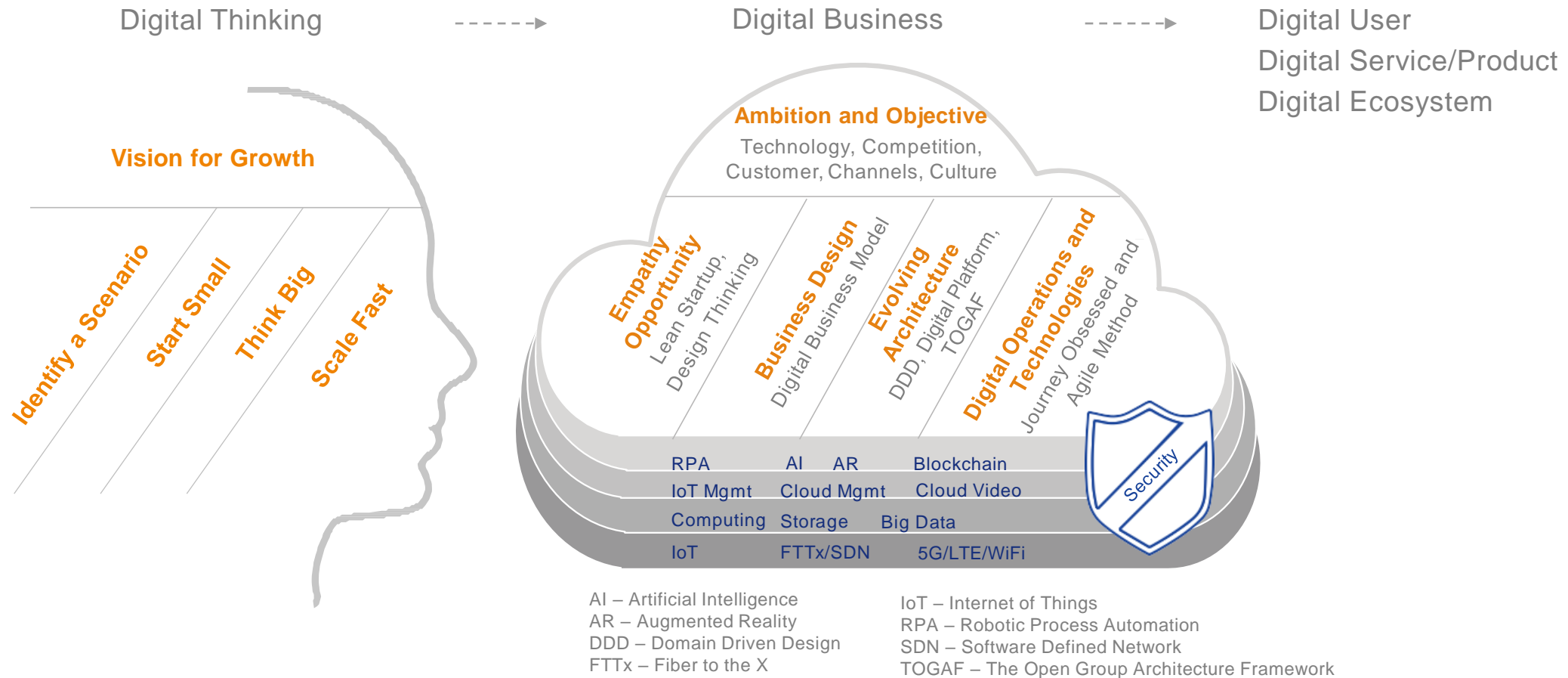
# Adoption creates benefits

- Reduced Cost to Serve/Time to Market
- Refreshed Competitive Advantage
- Improved Customer Experience
- Improved Employee Experience
- New Revenue Streams and Models
- Increased Brand Equity



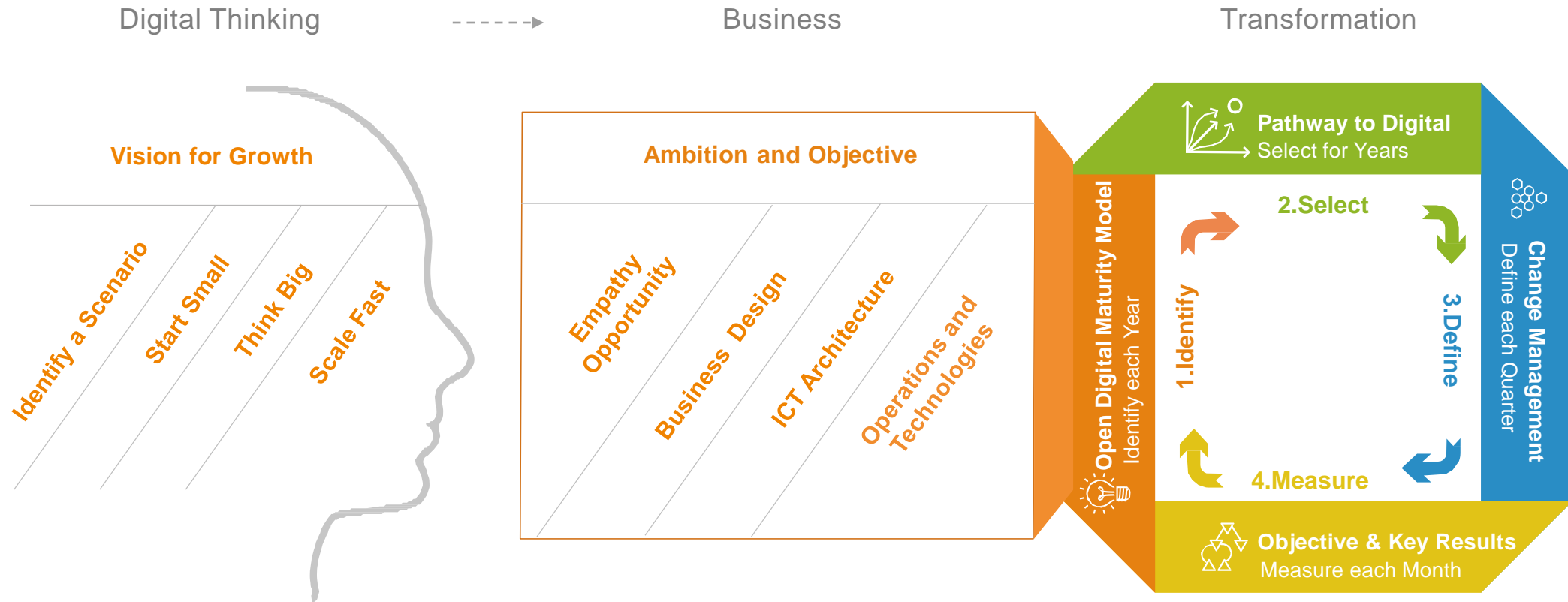
# Digital Mastermind

## A Holistic Framework for Navigating the Digital Transformation Journey



# Digital Mastermind

## A Holistic Framework for Navigating the Digital Transformation Journey



Vision for Growth

Identify a Scenario

Start Small

Think Big

Scale Fast

## Telco, Retail, Industrial, Finance, Health

*Digitalisation has already begun impacting nearly every industry with significant implications for our global economy.*

*— Damien Dujacquier, Senior Partner, Roland Berger*

The 3rd wave of digitalisation

### Underlying Technologies



Big Data & Analytics



5G Connectivity



The Cloud



Artificial Intelligence



Additive Manufacturing



Augmented Reality



Industrial Internet of Things



Blockchain



Telco

Analytics predicts periods of heaviest network usage and takes measures to relieve congestion



Retail

Big data anticipates customers behavior and delivers groceries to your door step



Industrial

Fully autonomous factories minimises the need for labor to near zero



Finance

Blockchain has potential to replace the bank as an intermediary



Health

Augmented reality lets surgeons operate remotely  
AI diagnoses diseases

and more...

Potentially **USD 100 trillion** cumulatively unlocked in value for society and industry by 2025 according to World Economic Forum

**10x** increase in cross-border traffic by 2030 generating an acceleration in international trade

Vision for Growth

Identify a Scenario

Start Small

Think Big

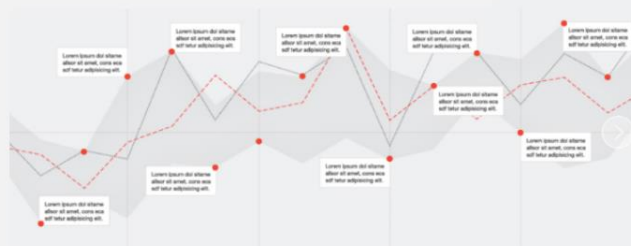
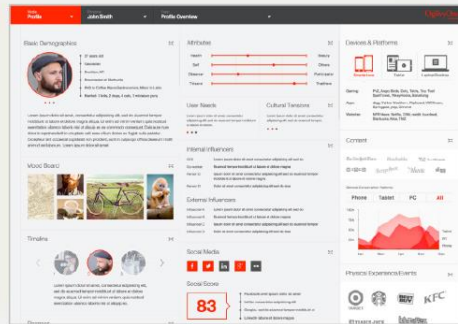
Scale Fast

# It All Starts with the Customer

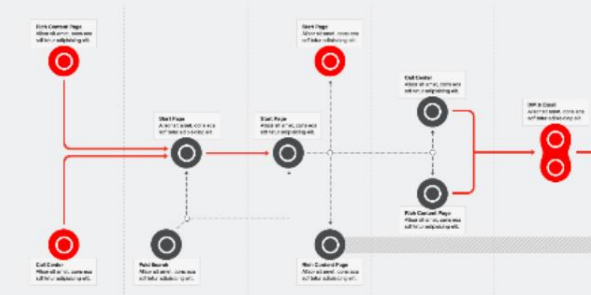
Whether, B2B, B2C, B2B2C, B2H...

*Customers don't live in a digital world only, they live in their own world. It is important that we understand them first, their needs and wants and the moments that matter; if we do this we can build brands that make companies more valuable to customers and customers more valuable to companies.*

— Jerry Smith, Executive Partner, Digital Transformation, Ogilvy Consulting



Enabled by Data and Technology  
and based on our ROADS Principles



## Emotional Bonds

e.g. Attaching emotion, such as a service that shapes a child's education for parents, or is highly personalised and intuitive

## Structural Bonds

e.g. A service or experience that can't easily be decoupled from a consumer's day-to-day life

## Social Bonds

e.g. Building network effect, a brand or experience that I want to brag about

## Financial Bonds

e.g. A product that delivers compelling value at the moment of truth

Source: Ogilvy Consulting



Vision for Growth

Identify a Scenario

Start Small

Think Big

Scale Fast

## Lean Startup

*Usage is oxygen for ideas. Iterate and learn from your customers.*

*— Ran Xiao, Head of Consulting & Head of Advisory for Greater China, ThoughtWorks*

### HOW TO BUILD A MINIMUM VIABLE PRODUCT

#### NOT LIKE THIS...

Traditional  
Sequential  
Approach



#### LIKE THIS...

Lean  
Startup  
Approach



Vision for Growth

Identify a Scenario

Start Small

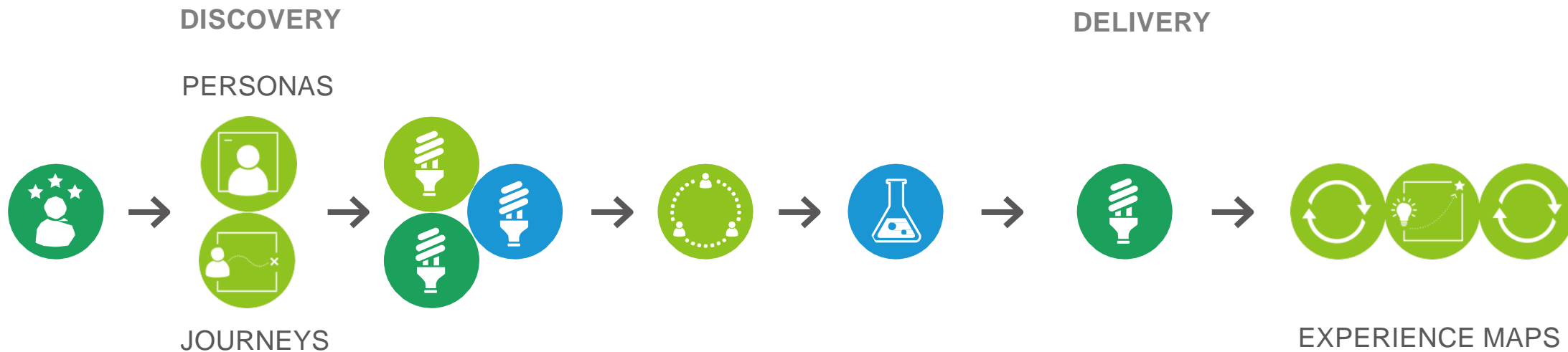
Think Big

Scale Fast

## Design Thinking Process

*Human centric innovation, delivered at speed.*

*— Zhouyang Cheng, Design Thinking Coach, Huawei*



### Timing

DAYS  
KICK OFF

DAYS  
RESEARCH

DAYS  
IDEATION

DAYS  
MVP WORKSHOP

DAYS  
EXPERIMENTS

WEEKS  
INCEPTION

MONTHS  
DELIVERY

Vision for Growth

Identify a Scenario

Start Small

Think Big

Scale Fast

## Design Thinking Process

*Human centric innovation, delivered at speed.*

*— Zhouyang Cheng, Design Thinking Coach, Huawei*



### Map the human journey

Client Project Manager: Manage Online Survey



#### Positive Experience

*Sense of accomplishment...*

Receive baseline version online survey from ODMM PM

Consolidate customised online survey with ODMM PM

Send Survey mail to participants

Receive survey conclusion report from ODMM PM



#### Negative Experience

*Out of control, delay...*

Collect feedback from client project team members

Check with ODMM PM about the survey progress

Remind participant to complete ODMM survey

Access to survey analysis

Identified Opportunities

Remove Hassle Factor

Minimise Effort

Meet Emotional Needs

Design in Transparency

Experience in New Journey  
Based on ROADS experience

#### On-demand

Survey questionnaire categorisation

#### Social

Collaboration for survey customisation

#### Real-time and Do-It-Yourself

Survey progress notification

#### All-online

Survey analysis key pieces

Vision for Growth

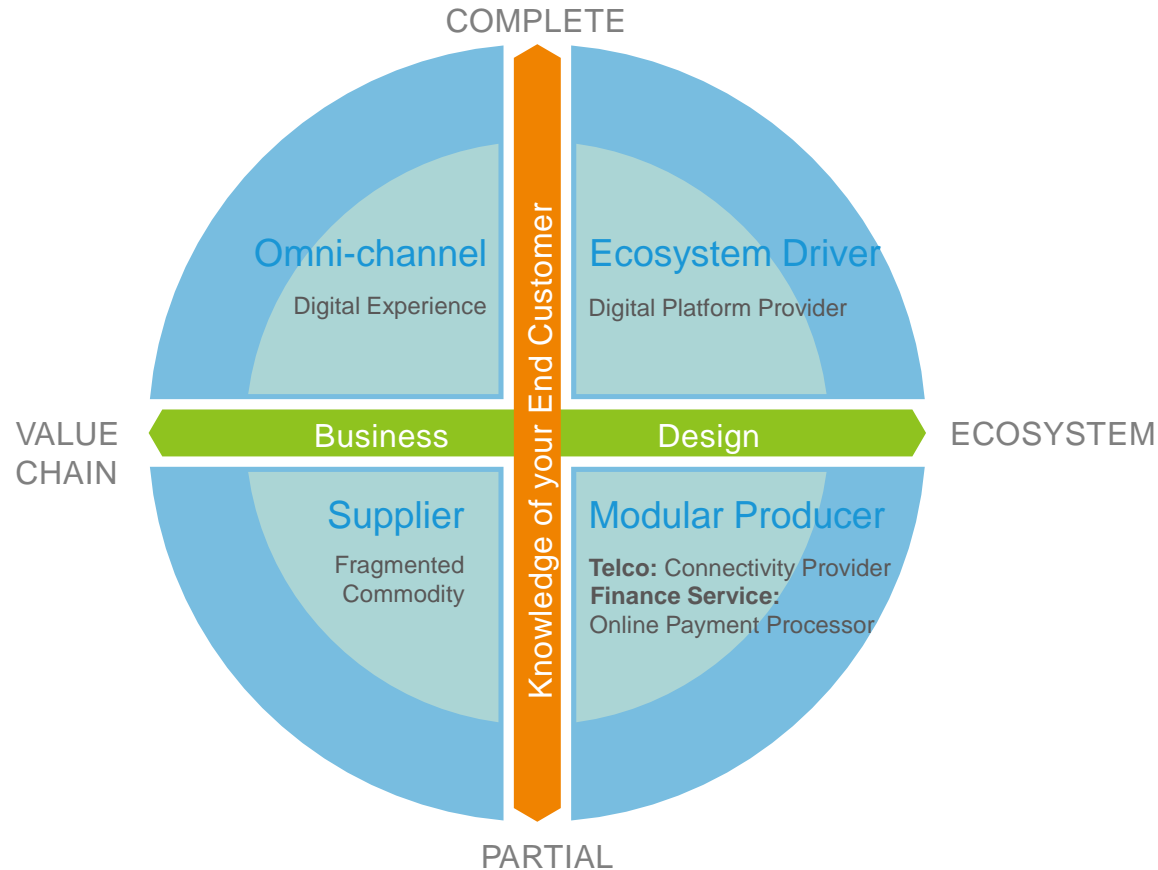
Identify a Scenario

Start Small

Think Big

Scale Fast

## Digital Business Model



Using the MIT Sloan CISR Next Generation Enterprise Model, companies can establish an aspiration in the context of what the business and brand ambition allows, and from their current starting point.

### Knowledge of your End Customer

Know: Identity, purchase history with your company and other firms, and consumer goals.

### Business Design

Who controls key decisions like brand, contracts, price, quality, participants, IP and data ownership, and regulation.

Vision for Growth

Identify a Scenario

Start Small

Think Big

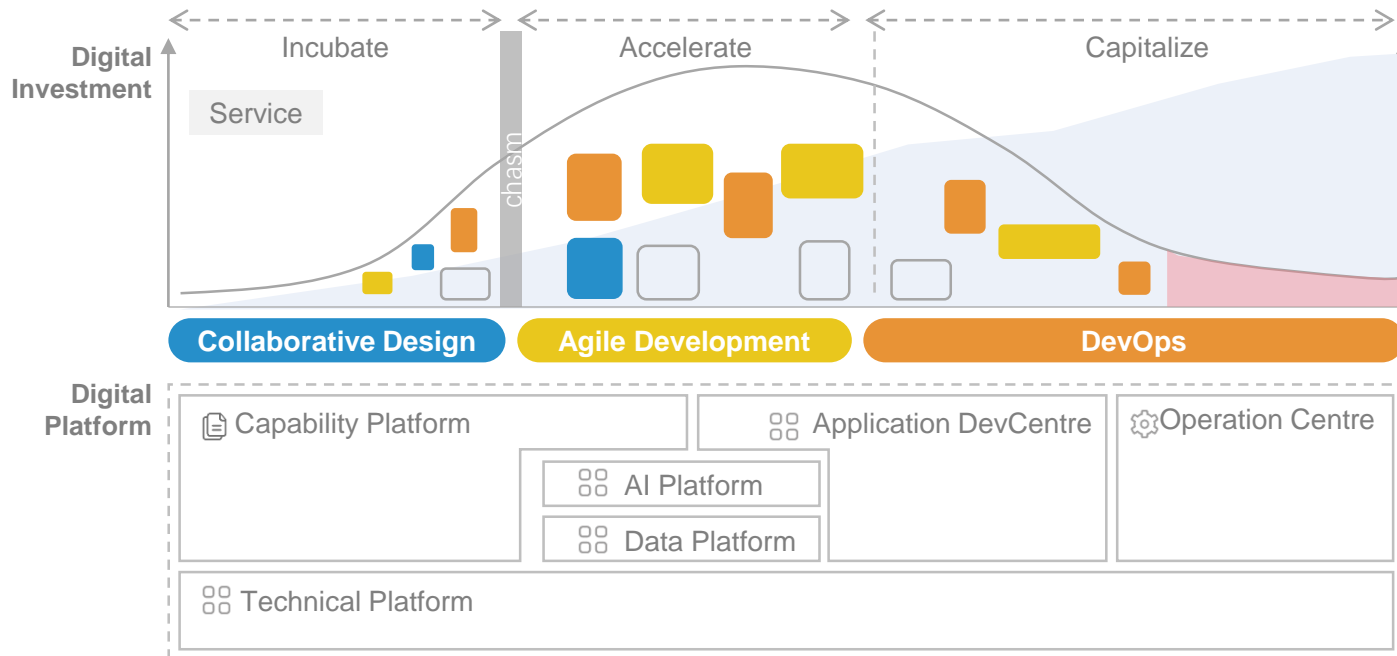
Scale Fast

# Change the Way of Evaluating Architecture

*An evolutionary architecture supports incremental, guided change as the first principle across multiple dimensions.*

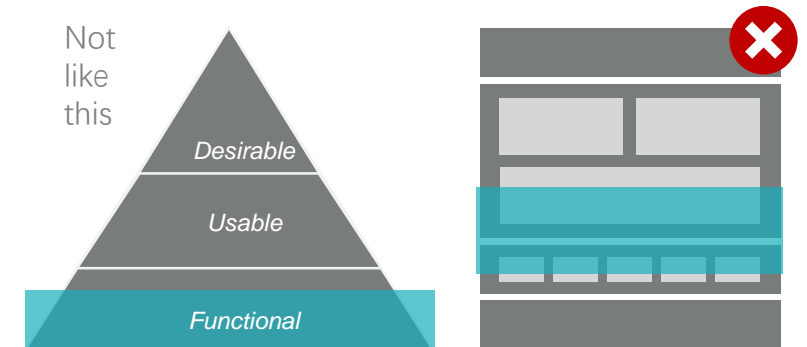
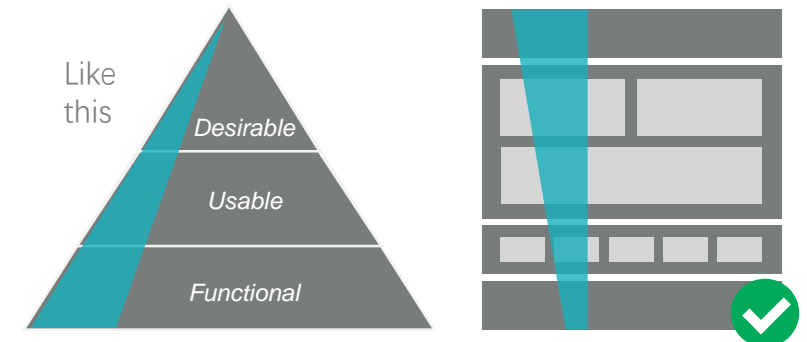
— “Building Evolutionary Architectures”

*Evolutionary over Comprehensive*



*Customer Engagement*

*Digital Platform*



Vision for Growth

Identify a Scenario

Start Small

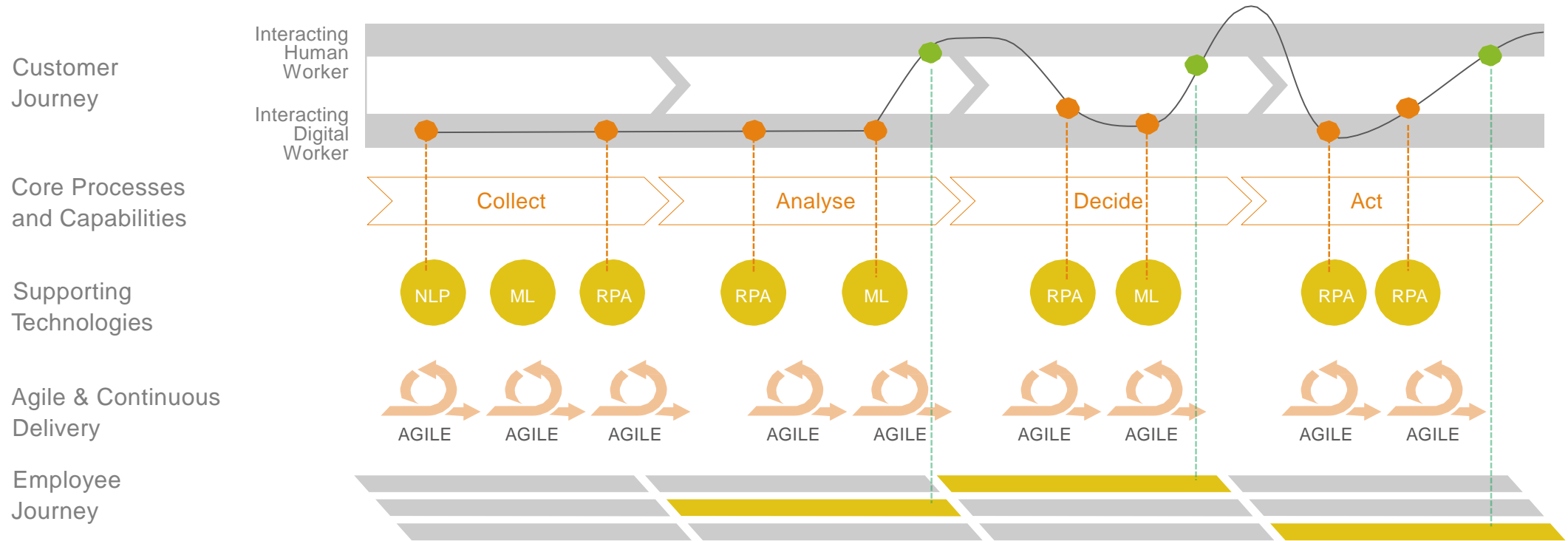
Think Big

Scale Fast

## Journey Obsessed and Agile Method

*In the Digital Transformation Practice Center (DTPC), Huawei has set up a cross-functional team, working with customers and partners in an agile and collaborative approach to design, build, test and verify the MVP for digital opportunities.*

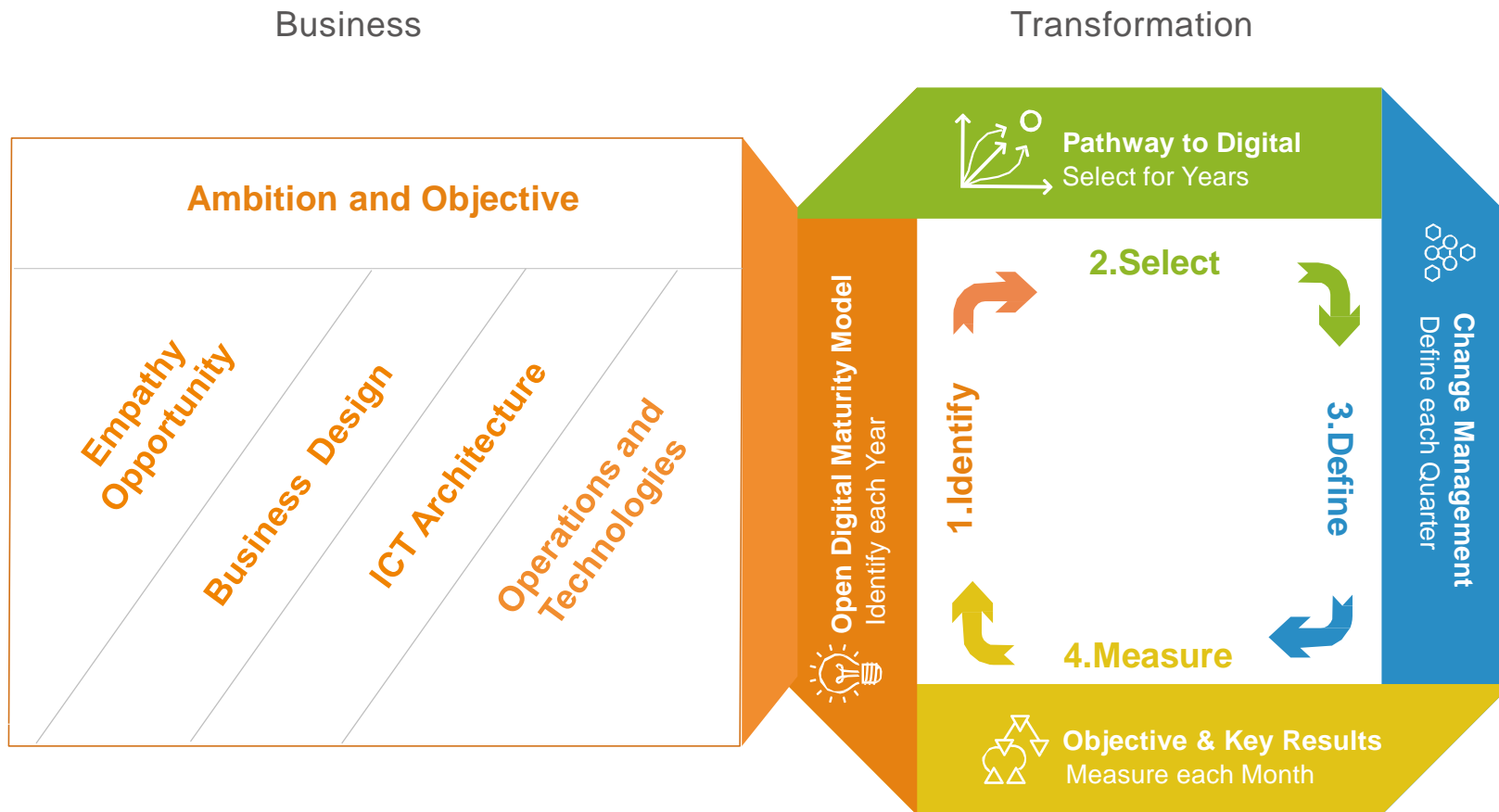
— Zheng Li, Head of Business & Network Consulting, Huawei



\*NLP: Natural Language Processing \*ML: Machine Learning \*RPA: Robotic Process Automation

● ● Touchpoint

# Transformation can begin with any aspect of the business from Ambition and Objective to Operations and Technologies



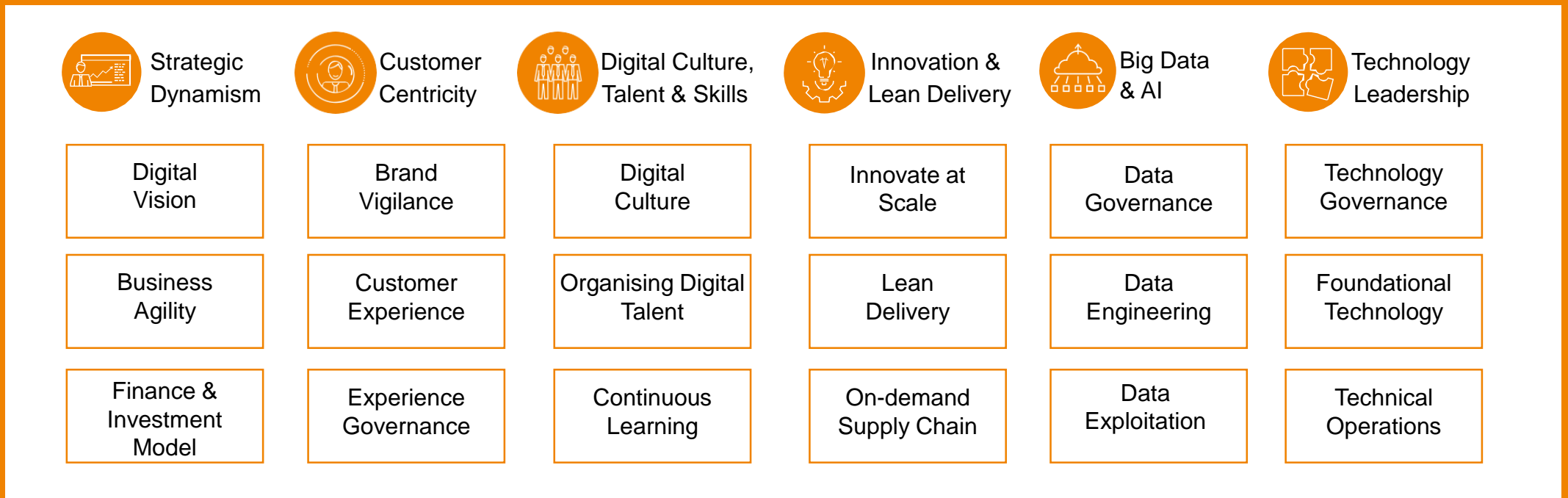
Scan to read more about the mapping between  
(Digital) Business and Open Digital Maturity Model



# Maturity insight

## Open Digital Maturity Model (ODMM)

The ODMM provides in-depth coverage of all aspects of an organisation's digital maturity, providing an enterprise with a quantitative, detailed view of the maturity gaps between current state and its business aspiration. The complementary Digital KPIs are outcome-based, developed from proven implementations across industries.



### Timing

DAYS

RESEARCH

DAYS

ASSESSMENT  
PLANNING

DAYS

KICK OFF

DAYS

ONLINE  
SURVEY

WEEKS

INTERVIEWS &  
OBSERVATION

DAYS

MATURITY  
SCORING

DAYS

MATURITY  
INSIGHTS



Scan to read about  
Cross-industry KPIs





# Maturity insight

## Open Digital Maturity Model (ODMM)

The ODMM provides in-depth coverage of all aspects of an organisation's digital maturity, providing an enterprise with a quantitative, detailed view of the maturity gaps between current state and its business aspiration. The complementary Digital KPIs are outcome-based, developed from proven implementations across industries.



### Timing

DAYS

RESEARCH

DAYS

ASSESSMENT  
PLANNING

DAYS

KICK OFF

DAYS

ONLINE  
SURVEY

WEEKS

INTERVIEWS &  
OBSERVATION

DAYS

MATURITY  
SCORING

DAYS

MATURITY  
INSIGHTS



Scan to read about  
Cross-industry KPIs

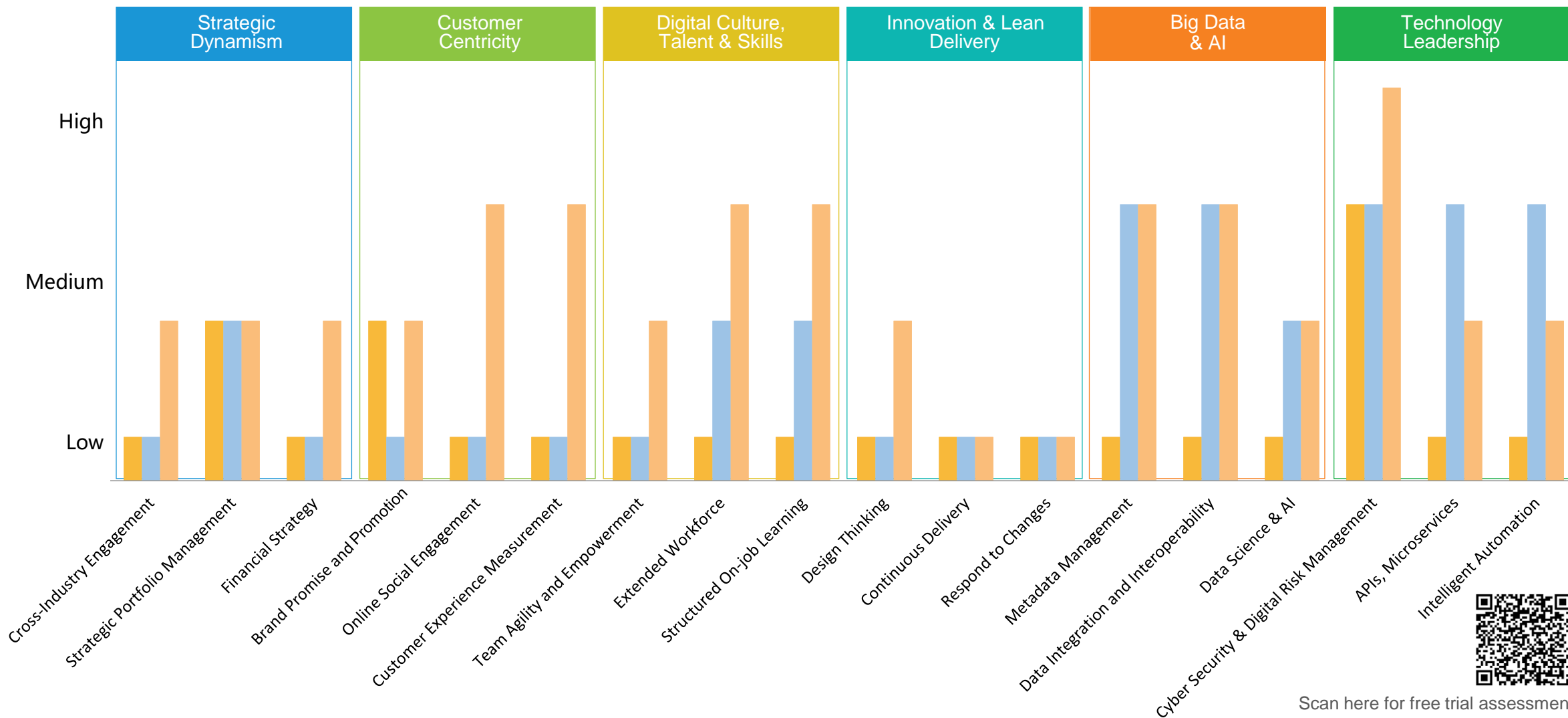


# Benchmark your maturity score

Beginning, ready to transform

Progressing, with high digitisation

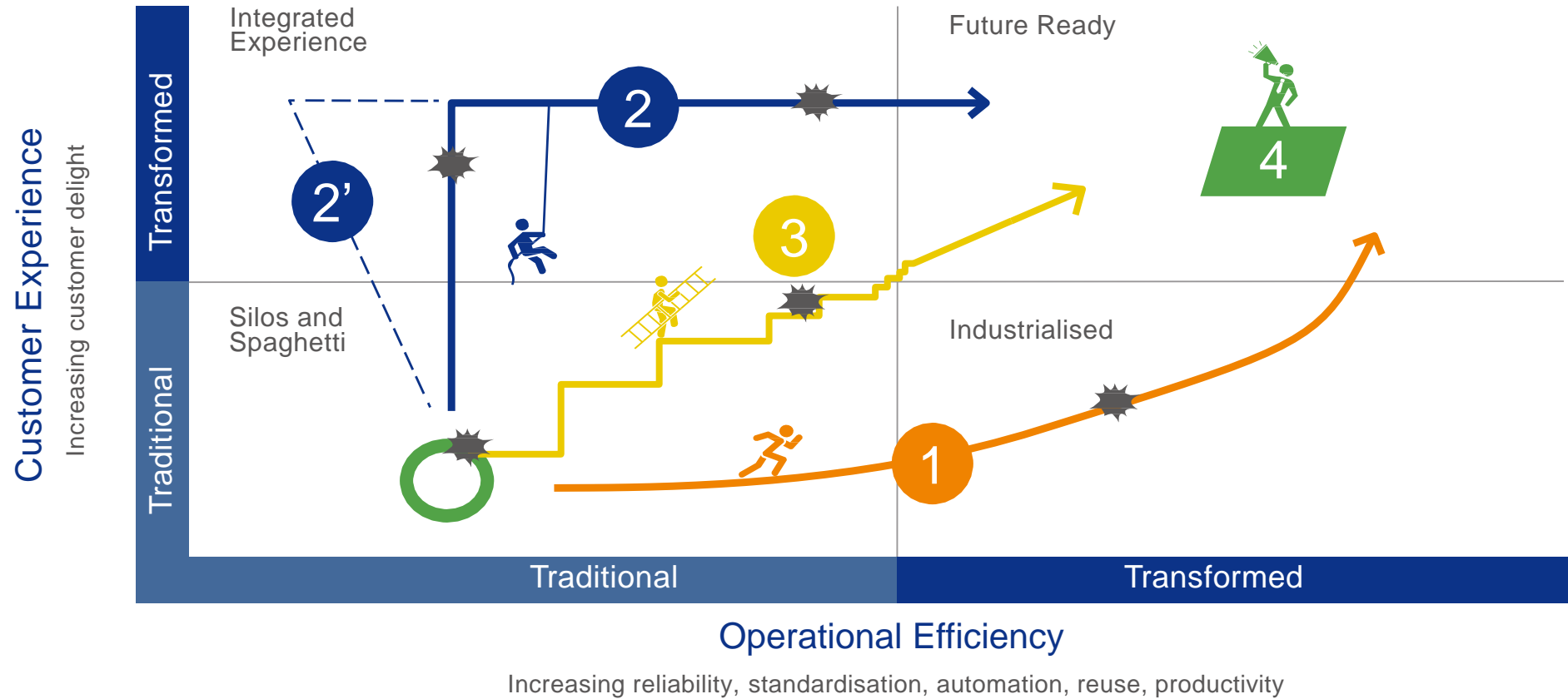
Experimenting, but needs delivery focus



Scan here for free trial assessment



## Determine the right pathway for you





# IAG, HKT and Royal KPN digital transformation success stories

## Royal KPN – Digital Telecom – Netherlands – B2C – Path 3

KPN, although market leader, recognised that both their B2C customer experience and operating efficiency were not optimum. With the board's backing, and no pressure for quick returns, they selected Path 3. They initially focused on refreshing their IT architecture, which subsequently enabled them to eliminate waste and improve customer experience in parallel. Business benefits from higher revenues and lower costs started to appear after 18 months, with significant returns from year 3 onwards. In general, this path can be expected to take 3-5 years. (Bouke Hoving, CTIO, KPN)



Scan to read more

## HKT – Digital Telecom – Hong Kong – B2B – Path 3

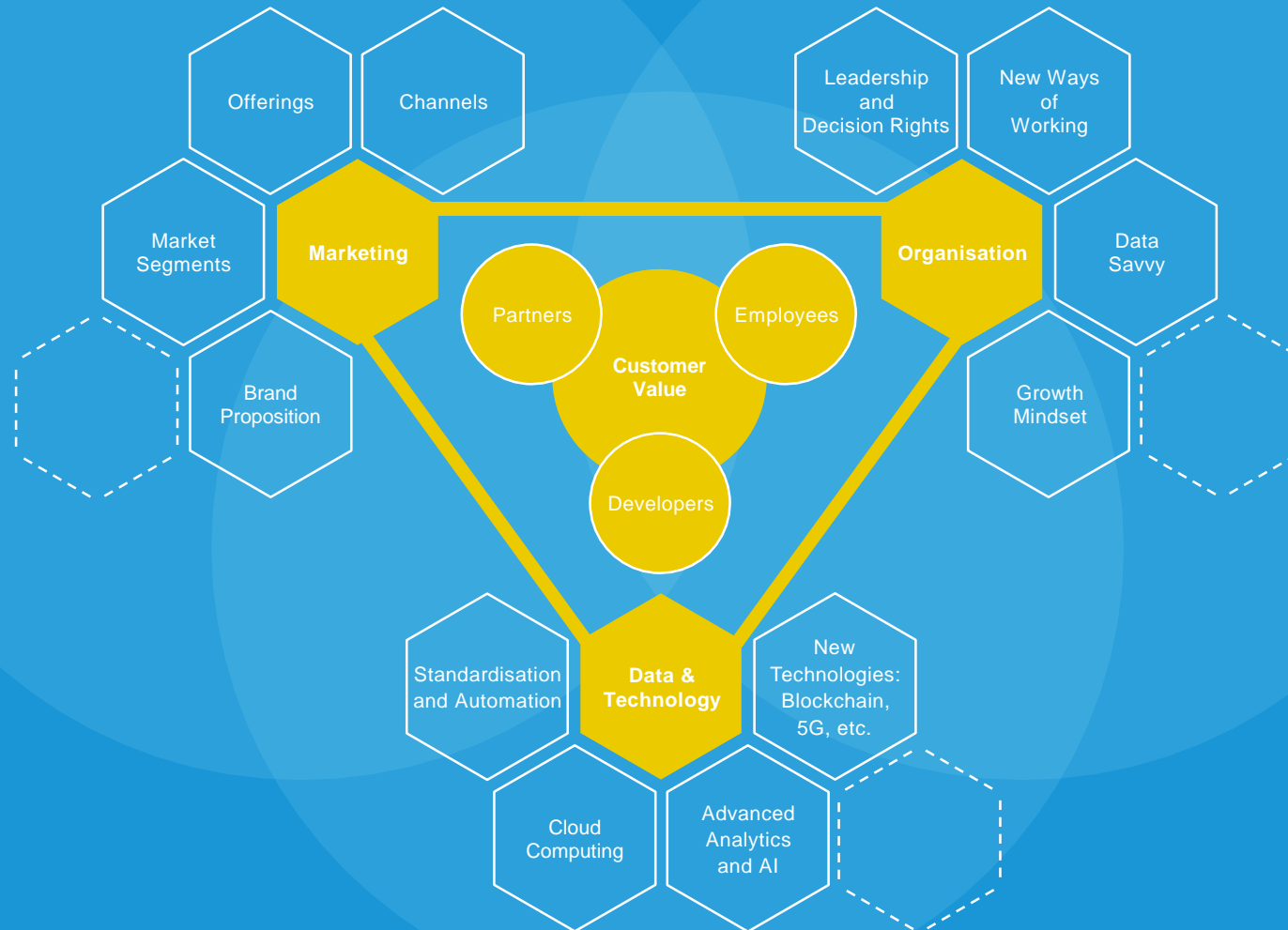
HKT offers a premium service to all major enterprises in Hong Kong, making customer experience a top priority. HKT conducted a vigorous design thinking exercise with their customers and internal stakeholders to redesign the customer journey and identify the new customer centric capabilities, which are required to deliver enterprise digital products. HKT chose Path 3 to deliver an end-to-end transformation covering services, business process and all the way down to even the network. These capabilities have helped HKT to maintain its leadership in customer experience and preserve its price premium, whilst also increasing operational efficiency. This helps HKT to improve its margins and increase agility to better address customer / market needs. (Peter Lam, MD of Engineering, HKT)

## IAG – Financial Services – Australia – B2C – Path 1

IAG initiated a major digital transformation project with the aim of improving efficiency, which is why they selected Path 1. Their goal was to establish a new “platform” model (groups of 100-200 people with 5-15 end-to-end delivery teams) together with a new lightweight governance system. Lean delivery practices were implemented across the organisational structure with delivery managers appointed to orchestrate Lean/Agile values and practices. This has helped the platform teams reduce the time to deliver a business case from 6 months to a few weeks, yielding cost savings of tens of million dollars to date. (Song Zhang, Managing Director, ThoughtWorks China)

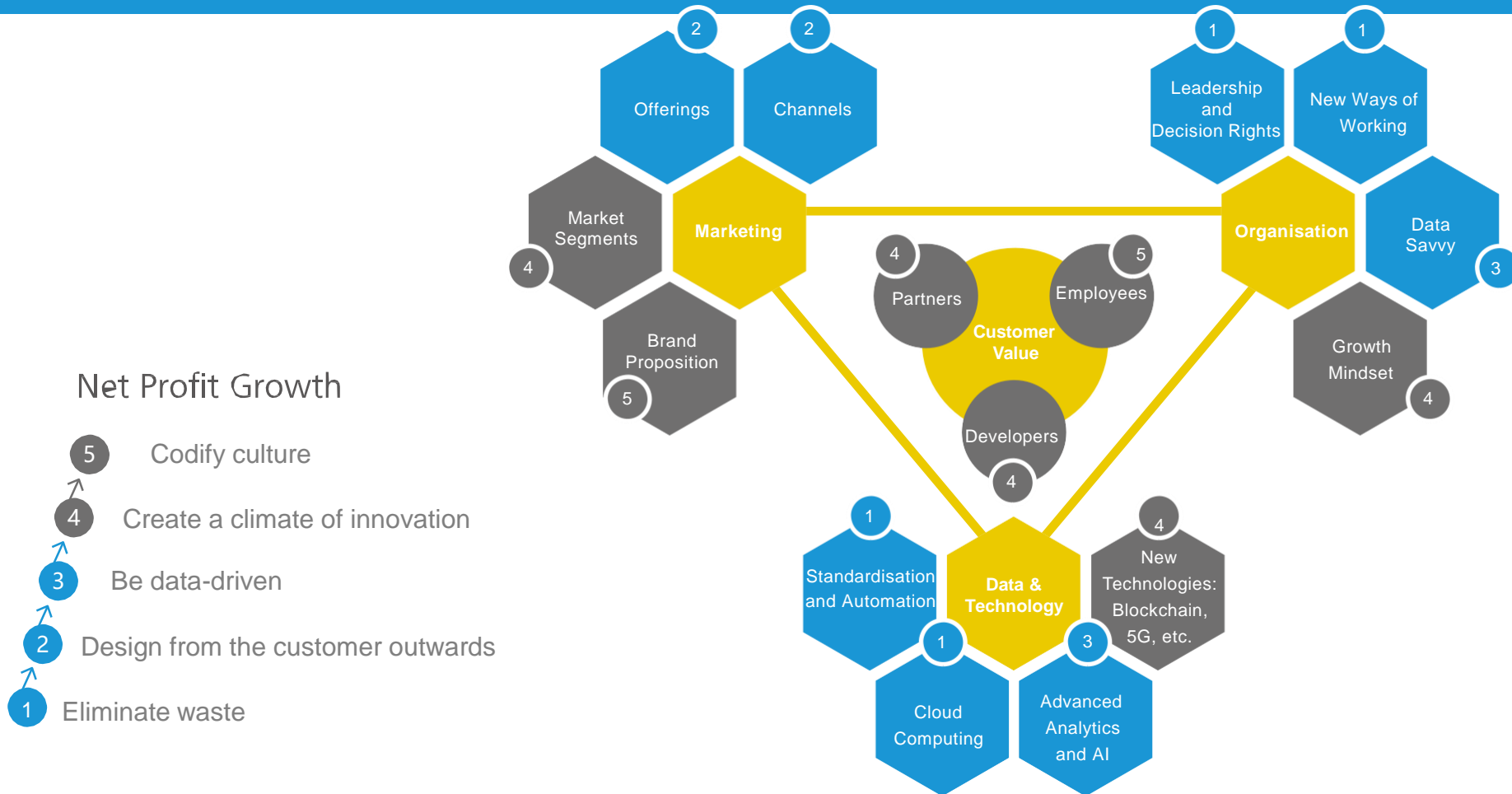


# Change Management – four areas of focus





# Prioritise actions across the company – real world example





# Objective and Key Results (OKR) – new ways of working

## Head of Transformation

### OBJECTIVE

Adopt new way of working

### KEY RESULT

- Establish Scrum Team
- Establish the Architecture Review

## Chief Architect

### OBJECTIVE

Establish the Architecture Review

### KEY RESULT

- Identify representative from Business, IT, Digital, Data analytics within 1 month
- Report beta architectures to transformation office in 3 months
- Reserve place to build portfolio wall

## Product Owner

### OBJECTIVE

Establish Scrum Team

### KEY RESULT

- Employ qualified Scrum Master
- Perform Design Thinking on a product
- Use Kanban tool to track progress

## HR

### OBJECTIVE

Employ Scrum Master

### KEY RESULT

- Scrum Master on-board within 1 month

## Scrum Team Leader

### OBJECTIVE

Perform Design Thinking on a product

### KEY RESULT

- Attend training
- Build MVP

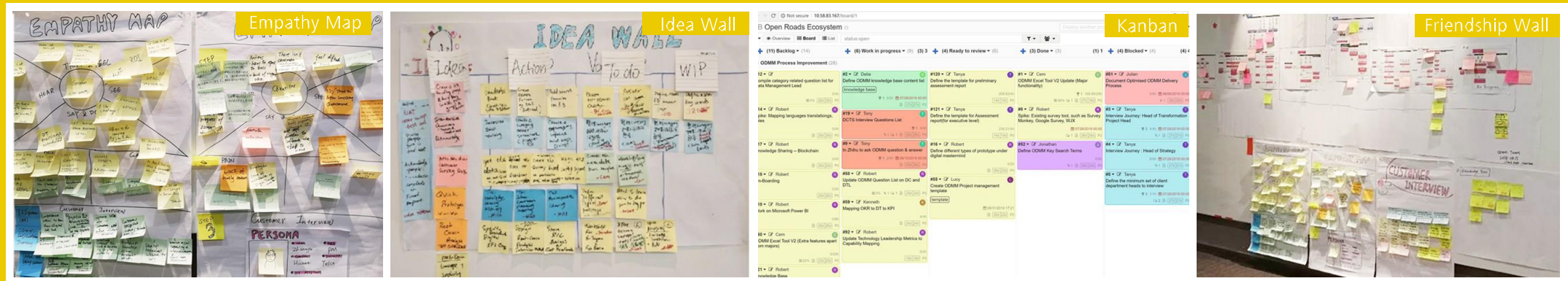
## Scrum Master

### OBJECTIVE

Use Kanban tool to track process

### KEY RESULT

- Put the tool in place
- Commence daily stand-up within 2 months



## Open ROADS Community practice

Within the Open ROADS Community we have used a Design Thinking approach, combined with OKR, to transform the way we work to develop ODMM solutions. We have empathised with our users and team members to better understand their needs, and identify the most important areas for development. Using an OKR approach we have broken these down into individual, prioritised tasks to form our backlog. Then, by using an agile approach with daily stand-ups and Kanban board software, we have achieved much greater focus and team alignment on the key tasks we need to deliver.

— Chen Chen, Head of Operations, Open ROADS Community



HKT ODMM

The ODMM offered great insight into our current maturity level and the direction our digital transformation should follow.

— Derek Chen, AVP, Customer Services, HKT



China Operator Persona

I see the value of persona and journey to change and drive the whole business.

— Head of Video business operation, Operator in China



KPN Portfolio Wall

Our portfolio wall removes complexity, allowing all stakeholders to easily plan and track feature development.

— Vladimir Cibic, VP of Mass Market IT, KPN

# ARE YOU NEXT?



## Together, we can each fast forward to a successful digital business.

*As part of the Open ROADS Community, our members have widely contributed to identifying and developing digital best practices and, in doing so, helped to develop a thriving community. Community members, including Huawei, Ogilvy Consulting, Roland Berger and ThoughtWorks have leveraged the Digital Mastermind framework for the benefit of their clients, making it an integral part of their approach to digital transformation. Each brings their own expertise to help clients prioritise the key areas to focus on, while delivering the right support to implement actionable plans. Together, they cover every aspect of digital transformation.*

*— Trevor Cheung, Managing Director, Open ROADS Community*

# Contributors

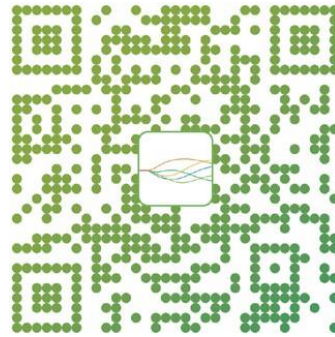
The Open ROADS Community would like to thank the following individuals for their support in the development of the Digital Mastermind framework:

Angel Alija, America Movil  
Bouke Hoving, KPN  
Chen Chen, Huawei  
Chris Williams, British Telecom  
Christian Maitre, Orange  
Christopher Brewer, Ogilvy Consulting  
Christopher James Pereira, Huawei  
Damien Dujacquier, Roland Berger  
Dan Deng, Huawei  
Derek Chen, Hong Kong Telecom  
Dharma Syahputra, Telkom Indonesia  
Diane Brundage, TSIA  
Elmar Grasser, Sunrise  
Erik Vercouteren, KPN  
Feng Zhu, Harvard Business School  
Javier Albares, GSMA  
Jeff Connolly, TSIA  
Jerry Smith, Ogilvy Consulting  
Jonathan Hopkinson, Huawei  
Juan Manuel Caro Bernat, Telefonica  
Kenneth Wan, Huawei  
Mark Skilton, Warwick Business School

Martin Kriha, Deutsche Telekom  
Matthew Ng, DBS  
Nik Willetts, TM Forum  
Peter Lam, Hong Kong Telecom  
Peter Weill, MIT Sloan CISR  
Philip Laidler, STL Partners  
Qibing Tang, Huawei  
Ran Xiao, ThoughtWorks  
Raul Reyes, America Movil  
Roberto Kung, Orange  
Saiful Hidayat, Telkom Indonesia  
Song Zhang, ThoughtWorks  
Steve Nunn, The Open Group  
Tanja Hencker, Deutsche Telekom  
Tarit Nimmanwudipong, Roland Berger  
Trevor Cheung, DBS  
Wen-Syan Li, SAP  
Wenlin Zhang, Huawei  
Xuedong Lu, Huawei  
Zheng Li, Huawei  
Zhongyi Luo, Huawei  
Zhouyang Cheng, Huawei

Additionally, the Community would like to recognise the participation of the following organisations:

America Movil  
British Telecom  
Deutsche Telekom  
Etisalat  
GSMA  
Hong Kong Telecom  
Huawei  
KPN  
Ogilvy Consulting  
Orange  
Roland Berger  
SAP  
STL Partners  
Sunrise  
Technology Services Industry Association (TSIA)  
Telefonica  
Telkom Indonesia  
The Open Group  
ThoughtWorks  
TM Forum



Scan the QR code to visit

[www.openROADScommunity.com](http://www.openROADScommunity.com)

\*ROADS stands for Real-time, On-demand, All-online, Do-It-Yourself, and Social

All Rights Reserved © Open ROADS Community