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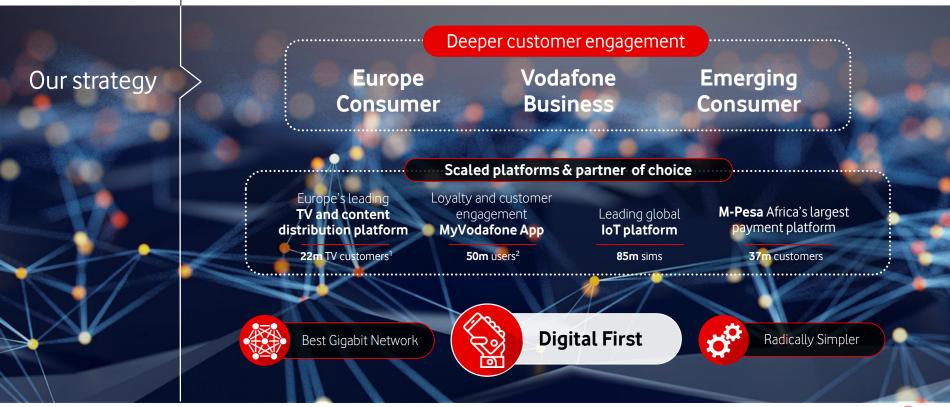
# **Agenda**

10:30	Digital First	Nick Read
10:50	Technology Digital strategy	Johan Wibergh
11.10	Vodafone UK case study	Nick Jeffery
11:25	Move to brea	akout sessions
11.30 – 12:55	Session 1 & 2	
13.00	Lunch	
13:50 – 15.15	Session 3 & 4	
15:15	Break	
15:35 – 17.00	Session 5 & 6	
17:05	Closing Q&A	Nick Read and EXCO
18:00	Pre dinner drinks	
18:30	Dinner	



## Our purpose:

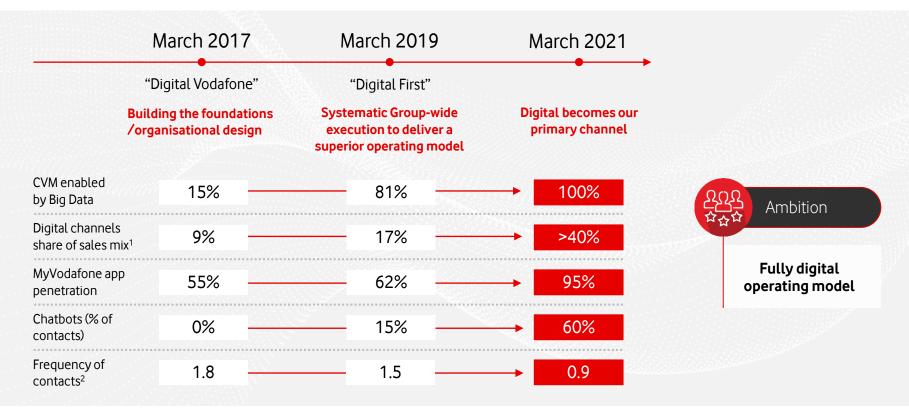
## We connect for a better future



- 1. Includes VodafoneZiggo and proforma for the acquisition of Liberty Global's Unitymedia asset in Germany and UPC assets in Central and Eastern Europe
- Includes JV's and associates



# Our Digital journey: towards a fully Digital operating model



All numbers relate to European markets unless stated otherwise



<sup>1.</sup> Mobile contract acquisitions and retentions in Germany, Italy, UK and Spain

Human interventions per year

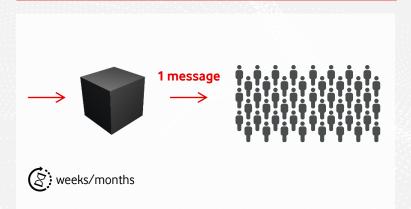
# **Digital First:** transforming our operating model



# 1. Acquisition: from mass media to personalised marketing



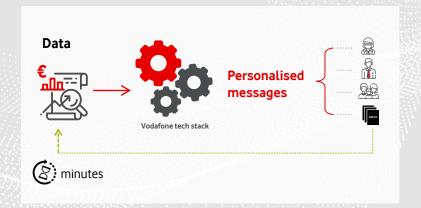
### **Before**



- One message fits many
- Long cycle, linear / waterfall
- High cost, agency managed black box

In scope: €2.5bn in commissions paid to 3<sup>rd</sup> parties<sup>1</sup>

## Vision for tomorrow



- One 2 One, personalised and relevant
- Agile and real time
- High efficiency, Vodafone owned engine

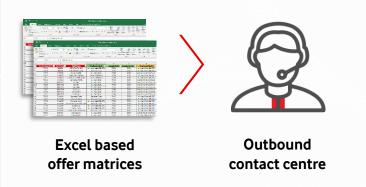
Ambition: >40% sales via digital channels by end FY21



# 2. Base management: from manual to personalised recommendations



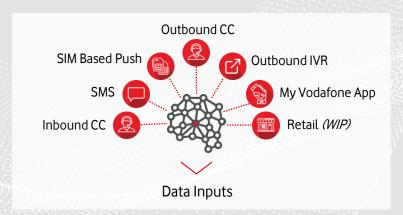
### **Before**



- Manual offers, once each month
- Primarily via outbound calling

In scope: €2.5bn<sup>1</sup> in commissions paid to 3<sup>rd</sup> parties

### Vision for tomorrow



## "Always on marketing"

- Right channel
- Predictive, relevant and personalised
- Real time and automated

Ambition: 11 markets live today, 16 markets by FY21



## **3. Channels:** the future of Retail



## **Before**



- c.7,700 stores across the Group
- High cost acquisition channel

In scope: €0.8bn retail opex1

## Vision for tomorrow



"Digital, Agile, Smart, Human"

- 24/7 retail availability, transact within 11 minutes
- Al driven footprint & logistics

Ambition: 15% store reduction, 40% transformed by FY21



# **3. Channels:** New MyVodafone app, end-to-end mobile experience



### **Before**



- App focused on utility
- Significant local customisation

## Vision for tomorrow



- End-to-end mobile-first capability
- Prediction driven services and personalisation
- Common experience / code development across markets

**Ambition:** 16 markets to launch by end of FY20

# 4. Customer Service: automating and digitalising



## **Before**



**42m** assisted conversations every month

- Complex, manual back office processes
- Voice-centric interactions

In scope: €1.2bn customer operations opex<sup>1</sup>

## Vision for tomorrow



- Instant, prediction driven interactions
- Automated back-office and service

Ambition: 40% reduction in contact frequency by March 21



# **6. Automation / Al everywhere:** driven by Vodafone Shared Services



## **Today**



- 22k employees in low cost Shared Services centres
- Manual, repeatable processes, 9m+ transactions p.a.
- Scale generates best in class cost structure

In scope: €2.9bn technology & support operations opex (incl. VSS)<sup>1</sup>

### VSS vision for tomorrow



- Centre of excellence for Robotic Process Automation & Al
- Expanding scope to include network operations and IT testing and maintenance
- c.5,600 roles to be automated by end FY21

**Ambition:** high single digit % decline p.a. in EU & Group<sup>2</sup>

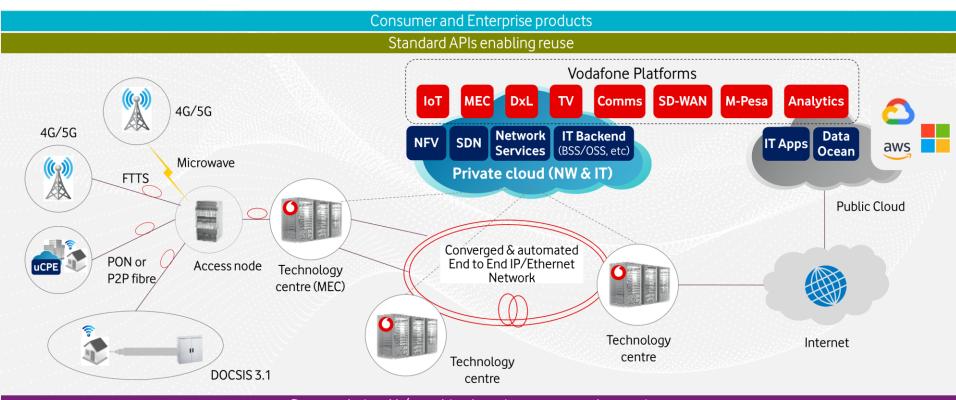


<sup>1.</sup> FY19 on IAS17/18 basis including NZ and excluding Liberty assets

<sup>2.</sup> EU and Common functions technology and support operations opex; Rest of World to grow below local inflation



# **Target architecture**



Data analytics, AI / machine learning, automated operations

# Digital First: transforming our operating model







# IT enabling world-class customer experience

Insourcing



**14,000** Mar '19

Agile & DevOps



**47%** of all delivery

**Tooling** 



From days to minutes

# Digital technology

World-class customer experience, through data insights driving decisions, automation & simplification, also enabling agile ways of working

# Network planning

- Smart planning
- Smart optimisation

# Network deployment

- Smart site management
- Smart site rental

# Network operations

- Automation
- Predictive maintenance
- Smart field services

# IT dev. testing & operations

- Automation
- DevOps and Agile

# Tech. enterprise solutions

- Automation of delivery workflow
- Online capabilities for Business

Data driven technology decisions

Automated and simple operations



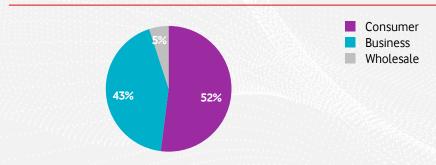
**Nick Jeffery** 

Chief Executive of

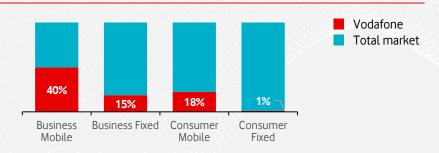
Vodafone UK

## Vodafone UK: Who we are

## Vodafone UK service revenue (£5.5bn, FY19)



### Vodafone UK service revenue market share (FY19)



- 17m mobile customers
- Market leading 93.9% geographic coverage
- 5G in 19 cities by end of FY20, >60 across Europe
- Fastest growing UK broadband provider, 551k Consumer customers (Q1 FY20)
- NPS leadership in Business, improving in Consumer
- #7 in Sunday Times Best Big Companies 2019

The UK's comms challenger since 1985



# Our 3 year turnaround journey







FY 18

Fix the basics, stabilise EBITDA

- NPS leadership in Business, recovery in Consumer
- Regain brand competitiveness
- Customer care recovery
- Cost reduction



FY 19

Grow EBITDA, stabilise revenue

- NPS leadership in Business, challenger in Consumer
- Market share growth
- Double digit EBITDA growth
- Build a brand with purpose



FY 20

Profitable growth and customer leadership

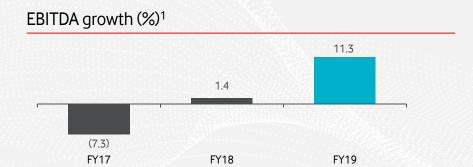
- NPS leadership in Business & Top 3 in Consumer
- Brand leader in network and customer experience
- Service revenue & EBITDA growth

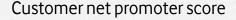


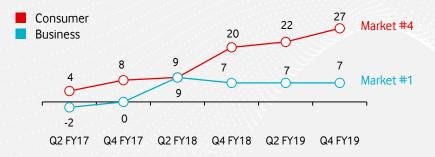
# **Vodafone UK: Turnaround in performance**











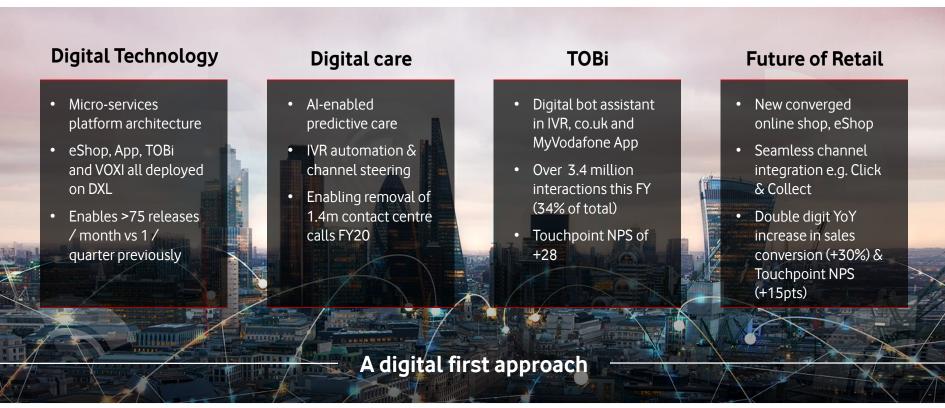
- Double digit EBITDA growth
- Best ever customer care performance
- Strongest ever network
- Lowest ever mobile contract churn
- Fastest growing fixed broadband provider

Building commercial & operational momentum



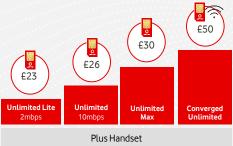
<sup>1.</sup> Excludes the impact of UK handset financing and a prior year settlement

## **Vodafone UK: Digital First**



## Vodafone UK: Shaping the market with Unlimited





**Be Unlimited** 

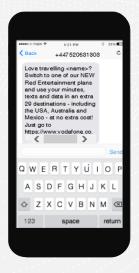
## Early performance encouraging:

- 3% of base on Unlimited plans in first two months since launch
- 7% gross adds market share increase in SIMO >£20 segment
- Online traffic up 25%, retail footfall and incoming sales calls up 10% month on month



# Vodafone UK: Unlimited, powered by Digital base management

### **Before**



- Generic offers, driven by broad business rules
- Comms channel defined by us, not the customer
- SMS, email and outbound calls
- No Big Data integration
- Limited digital upgrades

#### With Unlimited



- Personalised offers and comms
- Image and video-led channels
- 85% of campaigns powered by Big Data
- 79% of customers choose Unlimited when switching plans
- 26% of customers upgrading online

Digital, personalised communications

## Vodafone UK: VOXI, our digital-only youth proposition





- First example of agile working, with concept to launch in c. 6 months
- Digital first proposition design
- Digital-only customer care
- Endless Social Media, unique in the market



- Rapid customer base growth, >400% YoY (Q1 FY20)
- Digital-only care (social and webchat) 30% more efficient than voice
- NPS of +60 (Q1 FY20)

## A future blueprint



# **Digital First:** A systematic transformation of our operating model

- Clear ambition to lead in digital and strengthen our differentiation improving customer experience, boosting commercial performance and driving revenue growth
- Consistent execution of our digital operating model increases the benefits of Group scale
- A systematic multi-year opportunity to reduce our cost base; net cost targets to be updated in May

## Supporting our long-term ambition:

- Deepening customer engagement, single digit churn rates
- Profitable market share gains in total communications
- Net cost reduction driving sustained margin expansion and return on capital improvement
- FCF growth, delivering our €17.7bn 3-year LTIP goal

# Appendix: c.50% of Group Opex targeted through Digital

Cost Type (€ bn)	Addressable through Digital	Reported FY19 Opex
Customer Service	1.2	1.2
Retail	0.8	0.8
Technology and Support Operations <sup>1</sup>	2.9	2.9
Other <sup>2</sup>		5.9
Total Opex	5.0	10.9
Commissions paid to 3 <sup>rd</sup> parties	2.5	
Total Addressable Cost <sup>3</sup>	7.5	



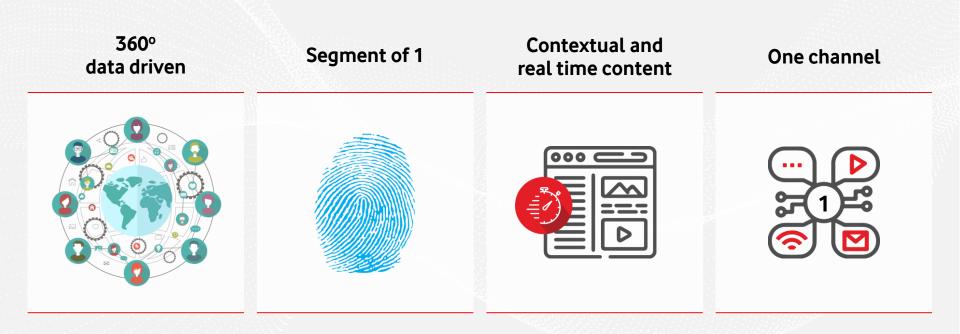
<sup>1.</sup> Includes employment and office accommodation costs in technology and support functions

<sup>2.</sup> Includes leased lines, site rental, maintenance, energy, publicity and other sales

<sup>3.</sup> FY19 on IAS17/18 basis including NZ and excluding Liberty assets



# 4 big forces are changing the rules of marketing

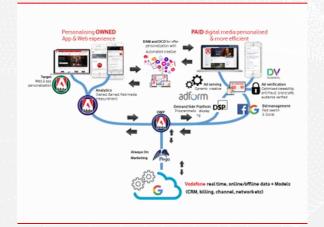


## Marketing @ Digital Vodafone: from Art to Science

Marketing tech platform

Fully operated in-house

For Data driven decisions





Facebook insights

Google audience insights

Digital IQ index

Global insights / trends

Vodafone marketing tech / ad-tech

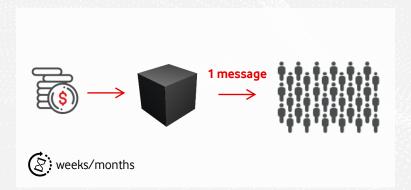
New agency model / Agile organization

Global partnerships, cross industry benchmarks



## Always on, effective, contextual, relevant

## **Before**



- One message fits many
- Long cycle, linear / waterfall
- High cost, agency managed black box
- Channels uncoordinated, reactive

## Vision for tomorrow



- "Real" One 2 One & personalised
- Agile and real time
- High efficiency, Vodafone owned engine
- Predictive & relevant across channels



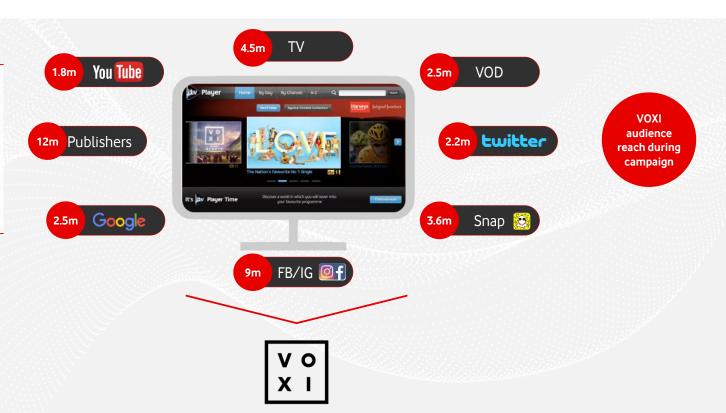






# Campaign strategy: Use Love Island moment to grow VOXI awareness & sales

Content consumption and conversation across multiple platforms, in real-time





# Campaign enablers: Technology, data, people



## Adobe audience manager (DMP)

- Custom audiences & look-a-likes
- sharper targeting & personalised



#### Crimson hexagon

 Al powered Social insights: real-time engagement & optimisation



#### Adobe analytics

- Channel & creative optimisation
- SEO & Journey optimisation



#### Adobe target

A/B testing onsite & journey optimisation



## amazonadvertising adform

Programmatic audience targeting

### kenshoo

Automated bidding & Al optimization

## adform

- Onsite behaviour analytics
- Optimise digital media buying



- In house digital media squad
- VOXI digital squad
- VOXI marketing squad
- ATL agency



# Campaign results: Higher quality traffic, higher conversion

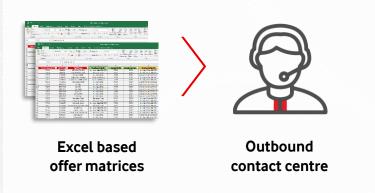






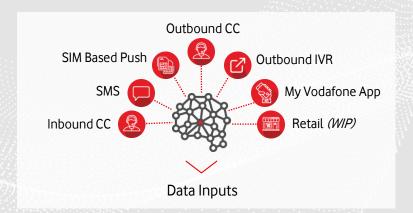
## 2. Base management: from manual to personalised recommendations

#### **Before**



- Manual offers, once each month
- Primarily via outbound calling

#### Vision for tomorrow



- Right channel
- Predictive, relevant and personalised
- Real time and automated



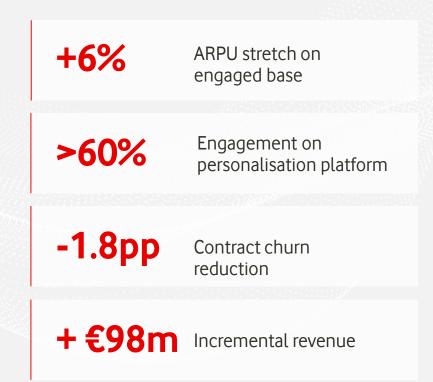


## **Evolution of Base Management in South Africa**

€250m incremental revenue over the past 5 years from automated & personalised offers

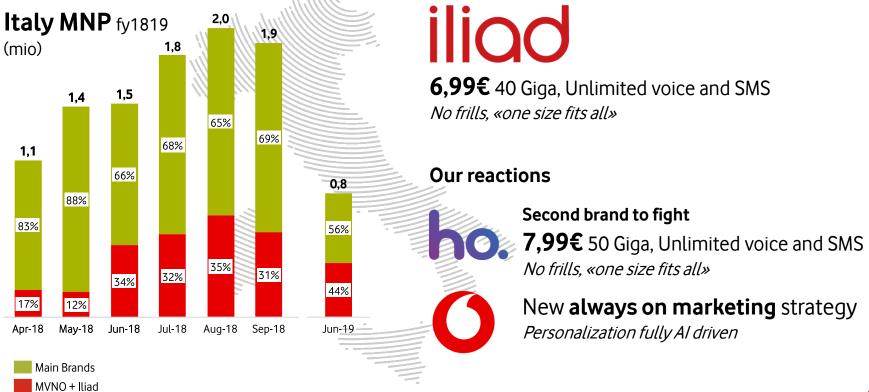


## Highlights from the previous financial year





## **VF Italy** A new competitive scenario





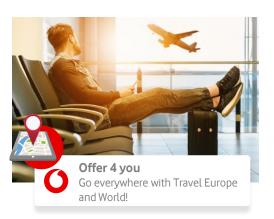
## VF Italy | How we used 'Always on Marketing' in a competitive market

Predictive, relevant and personalized

Advanced Learning Marketing Optimizer

Real time and automated engine

Contextual propositions and right time Al recommendation

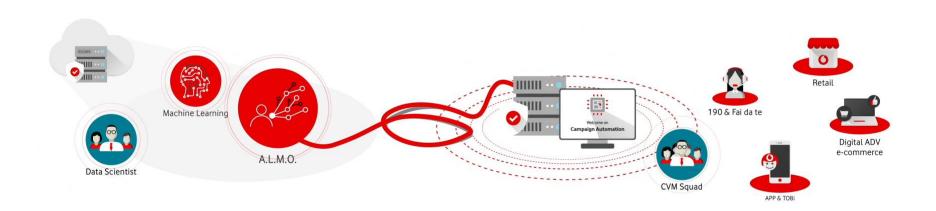


Omni-channel channel experience

Right channel Al selection

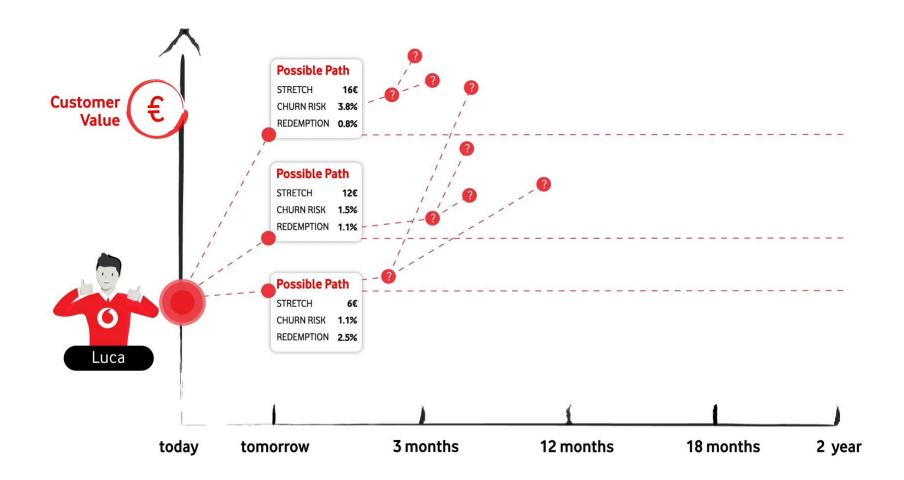






# **Vodafone IT Marketing Architecture**

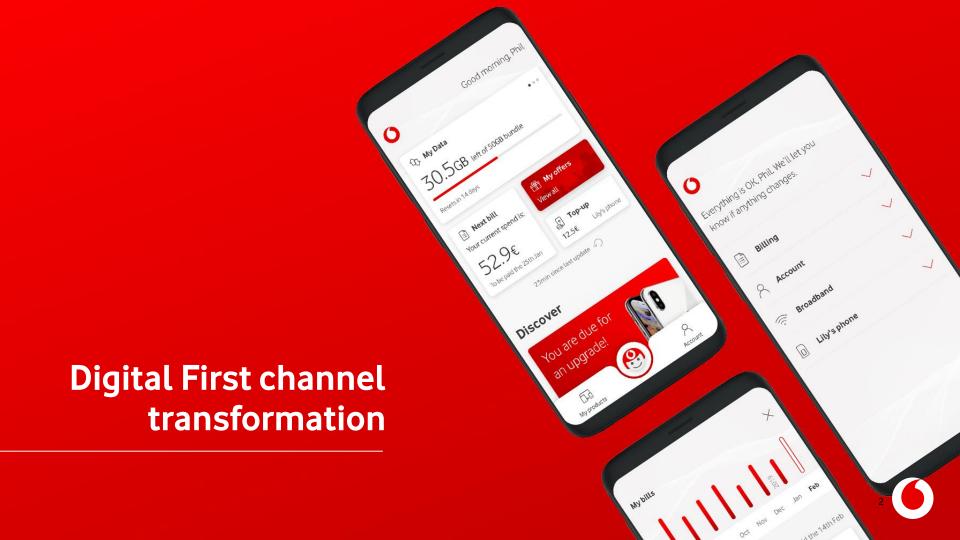




## VF Italy | Our 'Always on Marketing' strategy is working







#### Digital already progressing towards our primary channel

#### Customer Interactions per month

60 million calls

15 million chats

103 million web visits

414 million app interacts

1.3 billion USSD\* interacts

41 million store visits

8 million sales transactions

- Customer preference for digital experience
- Automation in messaging & voice channels
- Real-time interaction capability with big data
- Simplification of proposition design



Use of AI & Real-time interaction to **shift** service & sales



MyVodafone as the primary interaction channel for customers

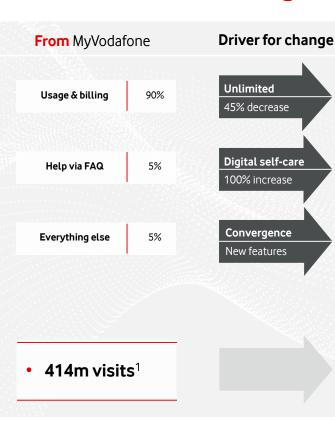


Digitalisation of our retail channel

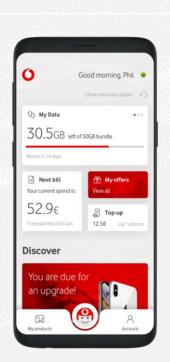
<sup>\*</sup> Unstructured Supplementary Service Data (USSD) codes with a simple menu structure are used in emerging markets to provide information and offers to customers.

#### MyVodafone will deliver end to end digital experiences









#### MyVodafone: The gateway to discover everything Vodafone has to offer

Live Demo!



#### Dashboard tiles

Things I want to see at a glance



#### Discovery flow

Things I might be interested in



#### **Navigation tray**

Things that I need most often

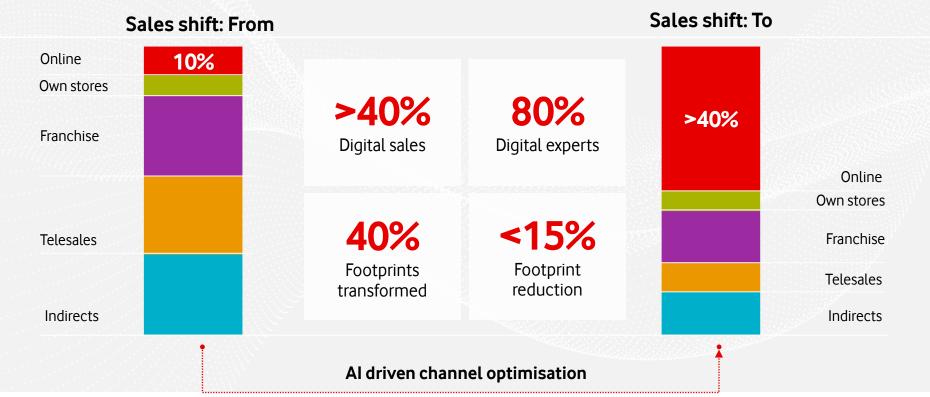


#### TOBI

Things that I need support with

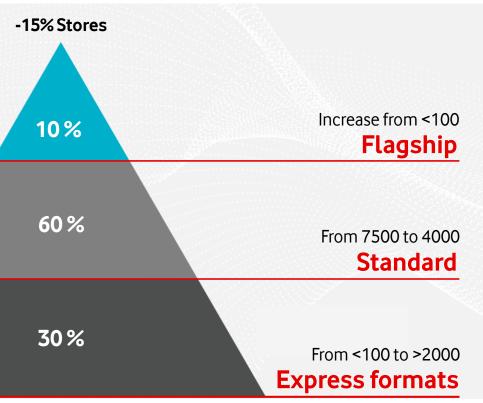


#### Digitalising our retail presence





#### Optimised footprint... differentiated retail experiences





Fully- fledged experience hub, showcasing state- of-the-art digital and immersive tech



Refreshed store with selected immersive experiences and maximized self service areas



24/7 retail, physical points of presence: click & collect lockers, self service touchpoints, remote assistance...





#### **Digital customer care:** Digital operations in 6 Dimensions



1 Quantify	2 Eradicate	3 Predict & Steer	4 Digitise	5 Automate	6 Expert
Transform how we <b>quantify</b> , and <b>act</b> on contacts	Eliminate unnecessary contacts	Change customer behaviour using predictive models	Re-position My Vodafone as the primary interaction	Automate high volume, basic tasks with chatbot TOBi	Expert care where we can add more value
Q			channel	Œ.	

#### Voice Calls<sup>1</sup>

Jun '18	Jun '19	
17.4m	14.2m	

Average Cost: €2.50

#### TOBi Conversations<sup>1</sup>

Jun '19	Mar '20 <i>(est)</i>	
4.0m	55.0m	

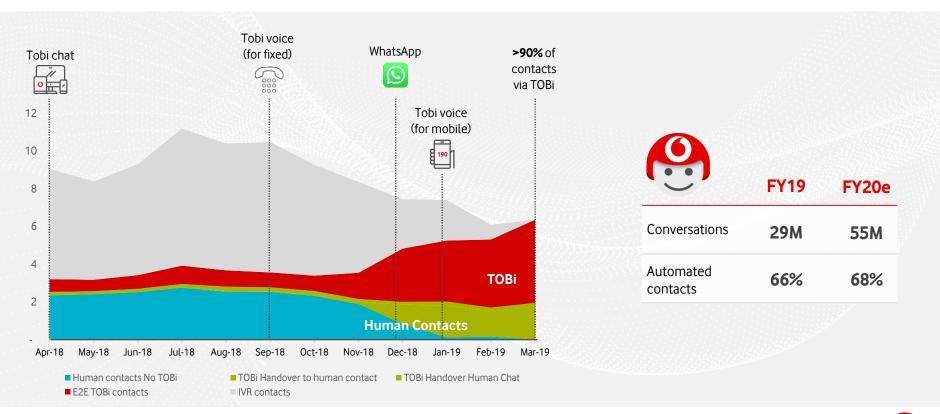
Average Cost: €0.12



<sup>1.</sup> All markets excluding JV's



## **Digital customer care:** TOBi journey in Italy





#### **Digital customer care:** Key results in Italy



Customer care differentiation

1st

**NPS Customer Care** 



Sustainable cost structure

€50m

FY19 and FY20

Saving over 2 years



Value generation

€30m

**FY19** 

Sales through service



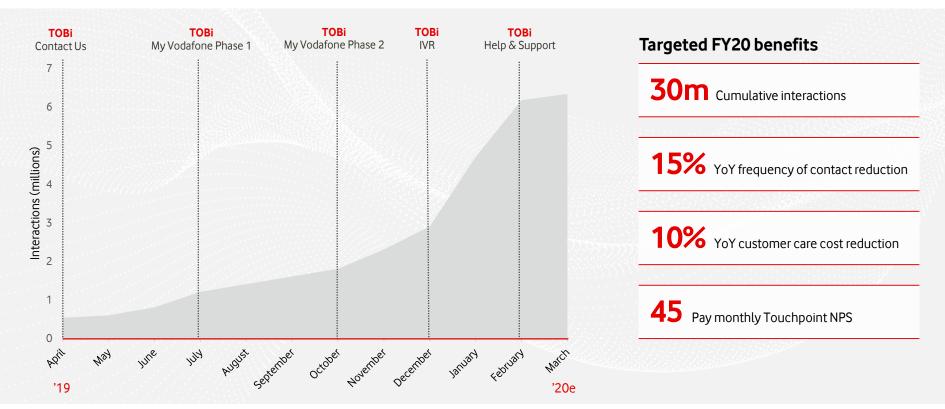


#### **Digital customer care:** Intelligent care in the UK

Vision Digital is our primary channel. Enabled by the smart use of AI to guide and personalise. With human assistance always available at the touch of button! Strategy **Eradicate Digitise Automate** Steer **Predict Expert** Case Experience Digital **TOBi** Message AI-led managed for digital to predict as primary as primary outbound channel & guide contact assistance contact



## Digital customer care: Intelligent care in the UK





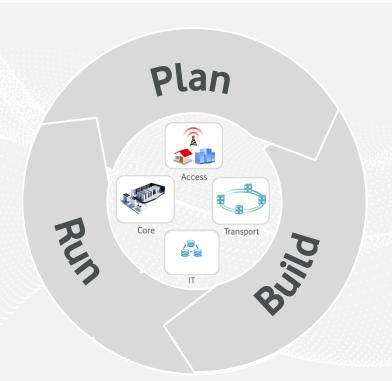
## **Digital technology** Transforming the way we manage our networks

#### Data-driven planning ...

More intelligent investment decision processes maximising customer value and return on invested capital

# ... operated with the highest level of automation

"Self-aware" networks, capable of handling complex end-to-end operational and optimisation tasks autonomously and in real time



# ... More virtual & flexible infrastructure ...

A simplified and automated technology landscape, cloud based, able to generate significant cost efficiencies as well as greater flexibility in terms of services and capacity



## **Digital technology |** What it enables

World-class customer experience, through data insights driving decisions, automation & simplification, also enabling agile ways of working

## Network planning

- Smart planning
- Smart optimisation

# Network deployment

- Smart site management
- Smart site rental

## Network operations

- Automation
- Predictive maintenance
- Smart field services

## IT dev. testing & operations

- Automation
- DevOps and Agile

## Tech. enterprise solutions

- Automation of delivery workflow
- Online capabilities for Business











A Group – Local markets joint program





## Digital network planning | Smart optimisation: a use case example

Analytics + machine learning to dynamically tune radio network settings on specific scenarios (like highways – Vodafone Ireland proof of concept)

Call stats + user level data + billing

Machine learning to extract customers in mobility

Settings optimised via self optimised network function

Enhanced customer experience

Highway DCR

Network DCR

Automatic network changes based on machine learning resulting in decreased dropped call rate and improved data rates



14% Overall DCR improvement<sup>1</sup> 26% Data speed improvement

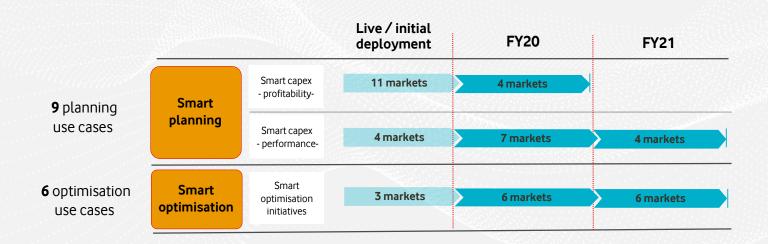
Smart optimisation enables savings of more than 30% in performance assessment and Drive test costs

Dropped call rate



## Digital technology | Digital network planning @ a glance

Digital innovation fosters both "Data Driven" decision making and Automation, combining a "best in class" customer experience with efficiency and a more Agile way of working



Ambition to save **€1bn by FY21**¹ to support reinvestment in new technologies





## **Digital technology | Network operations**





Supported by cognitive automation, advanced analytics and machine learning, unassisted automation and chatbots.





## **Digital technology** | Germany fixed network operations case study



Germany fixed network

76% zero touch today

87%
Automatic incident detection

76%
Automatic root cause analysis in real time

76%
Automatic ticket dispatching and resolution verification

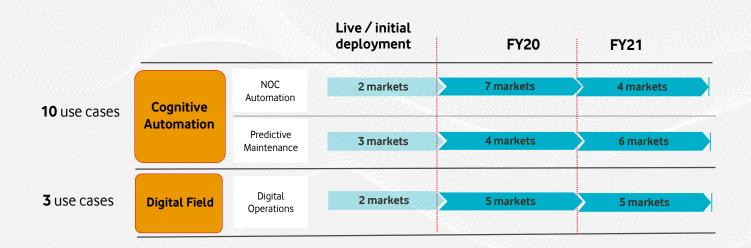
based customer problem diagnosis in real time

40%
Reduction in the truck rolls



## **Digital technology** | Digital network operations summary

Digital Network Operations deliver a faster and more efficient customer experience



Ambition to save **70% of the cost** of network monitoring and diagnosis, delivering at least €60m in annual run-rate OPEX savings by FY21



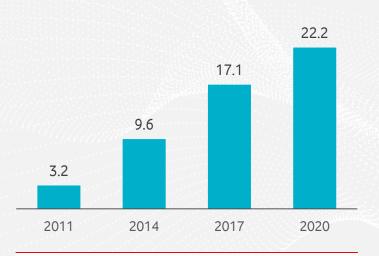
# Digital technology... lets be smart





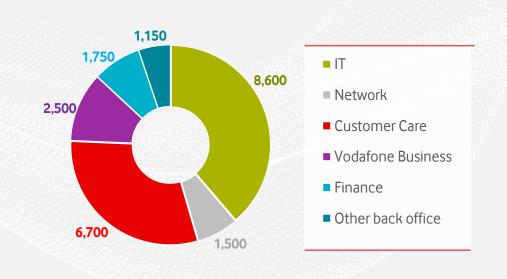
## **Introducing Shared Services**

#### FTEs in Vodafone Shared Services (000s)<sup>1</sup>



- Set-up in 2011
- Started with call centres and finance
- Technology driving growth

#### **Activity breakdown**





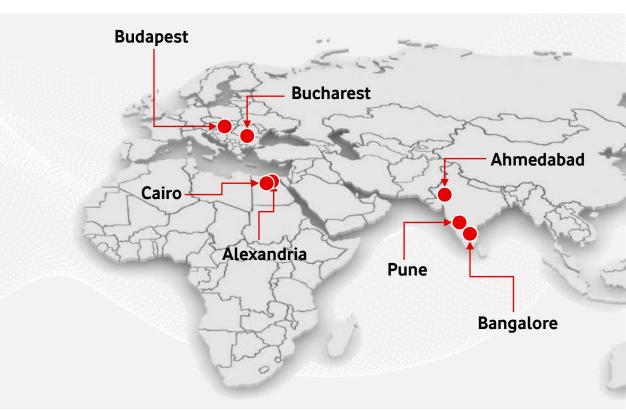
<sup>1.</sup> Excludes FTEs supporting Vodafone Idea Limited

## **Shared Services footprint**



**India** 10,800

**Egypt** 7,800





#### **Shared Services contribution to Group**

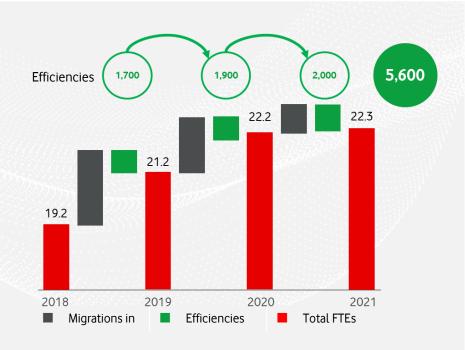
#### Value creation

- >€1bn of annual cost savings achieved since inception
- Will contribute c.30% of the FY21 >€1.2bn net opex reduction target in Europe and Common Functions
- High quality service, delivered through internal resource

#### Levers

- 1. Labour arbitrage (€17k p.a. cost per FTE)
- 2. Scale and standardisation
  - → 20-50% reduction in FTEs post migration
- 3. Digital transformation

#### Continued efficiency and expanding scope





#### Our digital toolkit

# Character recognition and natural language



Unstructured document automation

- Intelligent optical character recognition (IOCR)
- Language agnostic
- 91% straight through

**Robotics farm** 



Automation of manual, repetitive processes

- c.600 bots
- 1.7 FTE efficiency per bot
- €4k per year maintenance
- Self healing

**Process mining** 



Real time process review

- Identifies trends and issues
- Applied to ERP and CARE
- † 30% quality, † 40% automation

Cognitive



**Business decisions** 

- Business intelligence analytics, e.g.
- Smart capex
- Fraud and margin assurance
- Sentiment analysis

**Acquiring information** 

**Processing** 

**Analysing** 

Taking decisions

#### **Applying digital:** Purchase to Pay process



2.6m invoices a year



€38bn payments



40K queries

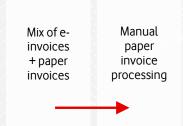
#### **Process**



2.6m invoices a year

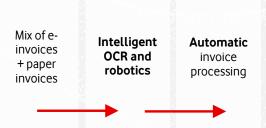
#### Traditional approach





#### Digital





- Before: > 1,000 FTEs managed supplier payments worldwide
- Now: 400 FTEs in Shared Services
- Target: <100 next year</li>

