



DIGITALBCG

# Using Digital & Tech to manage the COVID-19 crisis

How digital mitigates risks and creates chances in the Corona crises

MARCH 2020

# COVID-19 with significant impact on companies - focus so far on protecting measures, less on business action



## COVID-19 will hurt revenues & earnings

- 60% of companies expect negative revenue and earnings impacts in FY 20
- ~70% of companies expect normalcy to return within 6 months



## Significant issues in supply chain and labor

- >60% of companies already faced supply chain issues
- Further increase expected as more issues already reported in regions where outbreak spread first



## Lack of business measures taken so far

- Most companies are active in ensuring employee safety
- But only 1/3 have taken measures to capture demand rebound



## Long-term effect on remote working

- Majority of companies want to change remote working policies and improve crisis response long-term
- Some companies already expediting their plans

# Lessons from China- leverage the power of digital to mitigate risks and even create new chances

Ensure life and work continue with DIGITAL tool

- Medical, utilities, logistics, food supply were all required to operate at full capacity with price control
- Essential services boomed digitally:
  - Medical consultation: HaoDaiFu (好大夫)served **1.68M ppl in 17days<sup>1</sup>** , daily registration went up **350%**
  - Grocery delivery: JD fresh delivery went up **226%<sup>2</sup>**
  - Education: top 6 education apps totaled **45M downloads<sup>3</sup>**



Students are taking the online P.E. class at home



Deliverymen buy vegetable in the supermarket and use contactless delivery to customers



# Current COVID-19 challenges...



...can be overcome by inherent digital & tech advantages

- Remote and new ways of working
- Transparency and data analytics for decision making
- Data driven supply chain steering based on IoT and analytics
- Online customer engagement for sales/after sales using eCommerce and platform solutions (with personalized offerings)
- Performance improvement through digitalization incl. process automation

# Digital & Tech response to COVID-19 in 3 time horizons

**Now**

Tackle immediate priorities

**Next**

Stabilize & prepare for the rebound

**Later**

Pursue structural enhancements

Day-to-day agile approach to navigate changing environment

# Digital & Tech levers for responding to crisis

## Now

Protect your people, ensure continuity, and mitigate short-term losses

- 1 Analytics driven transparency  
(people, finance, supply chain)
- 2 Analytics and AI simulations  
(demand, supply chain, cash, patient finder, pricing)
- 3 Actionable steering cockpit
- 4 New remote ways of working  
(tools, principles, practices)

## Next

Pro-actively seize demand rebound and bring business back on track

- 1 Push of online channels, distribution, inside sales, digital demand
- 2 Digital marketing & personalization (eCommerce)
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- 4 Demand/stock - global sourcing platform

## Later

Build advantage by enhancing business resilience and performance

- 1 Performance improvement through digitization/cost-out
- 2 Analytics based reconfiguration of supply chain
- 3 Business model innovation & digital driven go-to-market approach
- 4 IT cost reduction & simplification

## Increase resilience and value from Technology

- 1 Continuity  
Remote working  
Cyber resilience
- 2 Portfolio triage and acceleration of critical business outcomes
- 3 Agile ways of working, critical technology capabilities, sourcing & ecosystem
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# Digital & Tech selected examples for responding to crisis

## Now

2

Analytics and AI simulations -  
Ebola Patient Finder



### Client situation

Ebola outbreak in West Africa as enormous global challenge in 2015. BCG supported global health NGO.



### Objective

Control epidemic outbreak through rapid diagnostic testing



### Impact delivered

Outbreak control and savings impact

## Next

3

Dynamic supply chain planning -  
E2E supply chain visibility



### Client situation

Global biopharmaceutical company with a lack of coordination between plants and work centers



### Objective

Optimize manufacturing and reduce costs through process improvement



### Impact delivered

3-5% cost decrease

## Later

1

Performance improvement -  
Digital Transformation program



### Client situation

Global mining company with need to massive create saving across in all functions



### Objective

Define and execute comprehensive transformation program leveraging digital and agile working mode



### Impact delivered

>30% functional overhead cost savings

## Increase resilience and value from Technology

1

Continuity  
Remote working  
Cyber resilience -  
BCGs cybersecurity  
best practices



### Client situation

COVID-19 is forcing companies shifting from office operations to remote working



### Objective

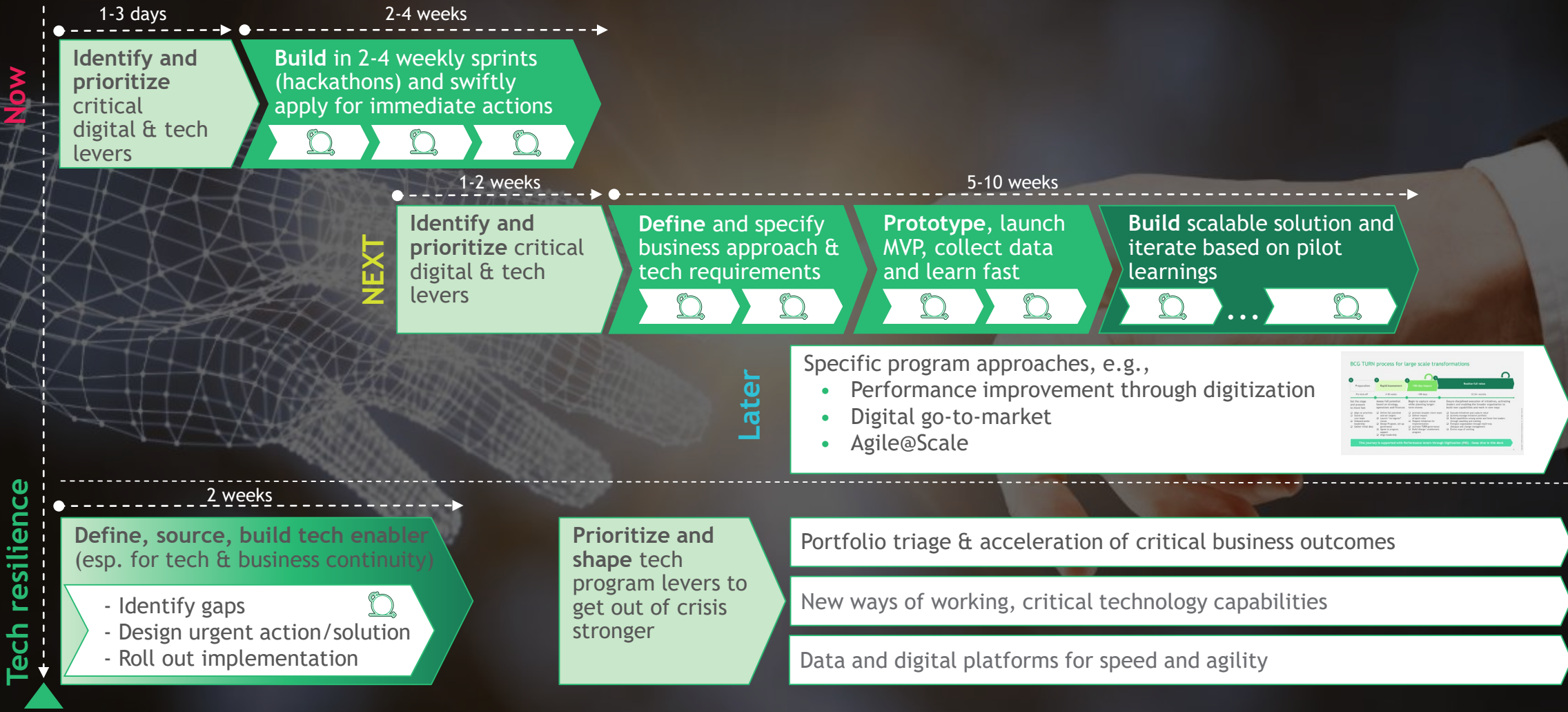
Minimize risk of cybersecurity crisis during pandemic



### Impact delivered

Implement 7 actions and communicate rationales to secure remote operations during pandemic

# How to approach COVID-19 and use digital to manage this special situation





# DigitalBCG: Strong Digital capabilities with significant scale



## DIGITALBCG

**> 4K**

Digital projects in last two years

**~1/3**

Revenue share of Digital

**10**

Innovation centers for operations

**11**

Incubation hubs and labs

**300+**

Digital thought leadership publications



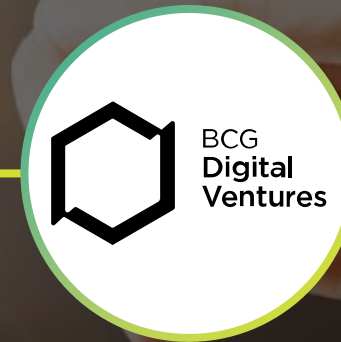
~4,000 Digital business consultants<sup>1</sup>



~800 data scientists & analytics experts



~650 IT experts and IT architects



~750 Digital business builders



VC arm connecting startups & corporations

1. Thereof 550+ in Technology Advantage practice area

Leveraging Digital & Technology to manage the COVID-19 situation

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# Case vignettes

# Selected Case Samples - Now

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Detailed approaches across levers available upon request



### Network analysis

Assess dependencies within banks' client base, determine supply chain impacts



### Estimate time-to-wall

Assess liquidity situation of individual clients based on changed inflows/outflows

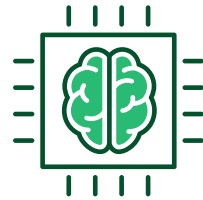


### Prioritize experts

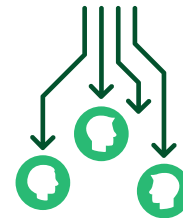
Highlight special interest cases to be assessed by human experts

# Virtual Analytics SWAT Team supports bank's COVID-19 response team with data insight

Individual client level



Real-time client level signal engine based on transactional data



Revised mitigation measures to be applied to individual clients

Portfolio steering level



Portfolio signal generator to update inputs to regular bank steering systems



Revised mitigation levers for overall bank steering

# BCG created transparency using advanced analytics for EBOLA detection

## Client situation

Ebola outbreak in West Africa presented enormous global challenge in 2015. BCG supported global health NGO.



## Objective

Control epidemic outbreak through rapid diagnostic testing

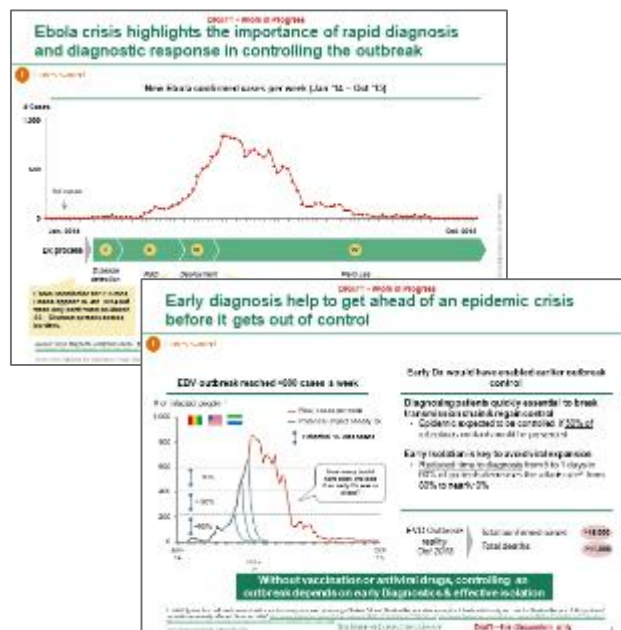


## Impact delivered

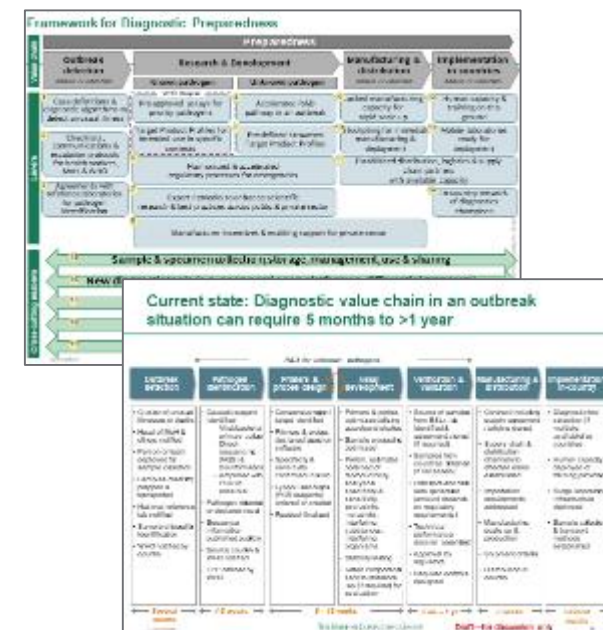
Outbreak control and savings impact



Ebola outbreak under control...



...due to AA Diagnostics





## Client situation

Pharma client needs to manage risk of not being able to supply critical medication to patients at the end of a supply chain



## Objective

Maintain constant supply of finished goods despite crisis in certain regions



## Impact delivered

Decreasing costs

# BCG helped Pharma client to manage supply chain disruption with AI

## Step 1: Fully integrate data on logistics, external supply and replenishment

- Fully linked-up data, incl. batch genealogy, stock levels, replenishment data and CMO data

## Step 3: Enhance SSO by identifying key SKUs at risk under different lead-time disruption scenarios

- Building on the Safety Stock Optimizer Monte Carlo Simulation work, identify materials that flow through affected countries
- From this list, identify materials most at risk of Lead Time Disruption

## Step 2: Enhance Batch Tracer and stress-test statistics

- Procure and integrate 'product origin' information as well as stock & replenishment data into the Batch Tracing Algorithm as a critical enabler to analysis

## Step 4: Model suppliers most at risk, model impact using new approach

- Model suppliers most at risk of COVID-19-related delays, taking into account current stock (criticality) and replenishment (urgency)
- Construct detailed 'heatmap' views and priority areas for risk mitigation

# BCGs actionable cash management cockpit helps to survive Corona crisis



## Client situation

Clients face uncertain situation with no prognosis on pandemic evolution



## Objective

Survive financial tsunami of Corona crisis and manage cash



## Impact delivered

Experience from >250 Client cases

0

**Business strength**

Preserve top-line

1

**Develop scenarios**

Define relevant scenarios

2

**Manage cash**

Set up cash office

3

**Public support**

Screen state-aid programs

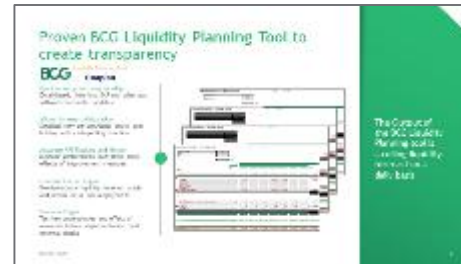
4

**Execute program**

Set up your war room



### Liquidity planning tool



### Performance tracking tool



# BCG supports Italian Bank to prepare for upcoming months through Smart working

## Client situation

Support the management of Covid-19 emergency in a large Italian Bank



## Objective

Address immediate priorities first (e.g. employee safety) and get ready for recovery and rebound

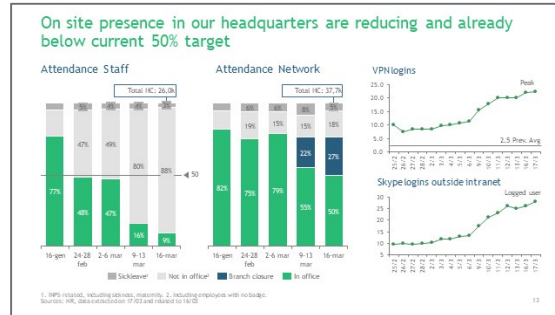


## Impact delivered

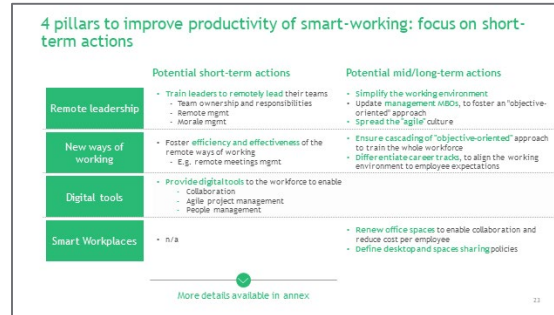
80-85% adoption of smart working policies across all employees



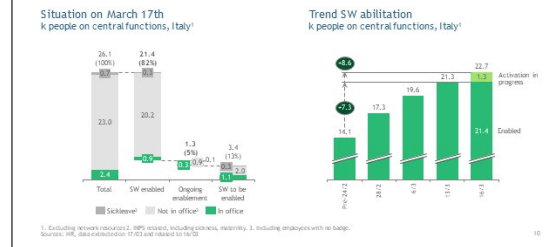
### Smart working necessary as majority of staff works from home



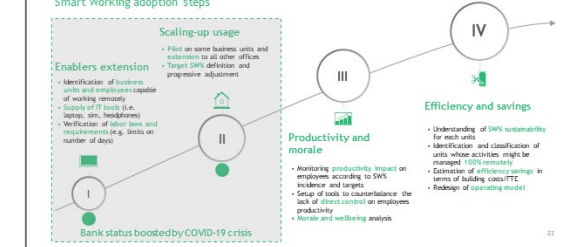
### Smart-working concept will be applied over next months



### More than 80% of Staff is enabled for smart-working, with a continuously growing trend



### The situation is likely to continue for 2-4 months, requiring a step up to reap the full benefit of Smart Working





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Detailed approaches across levers available upon request

# Next Generation Sales with digital customer journey essential for rebound

## Client situation

B2B customers expect rich & deep online info: > 70% prefer limited sales rep interaction



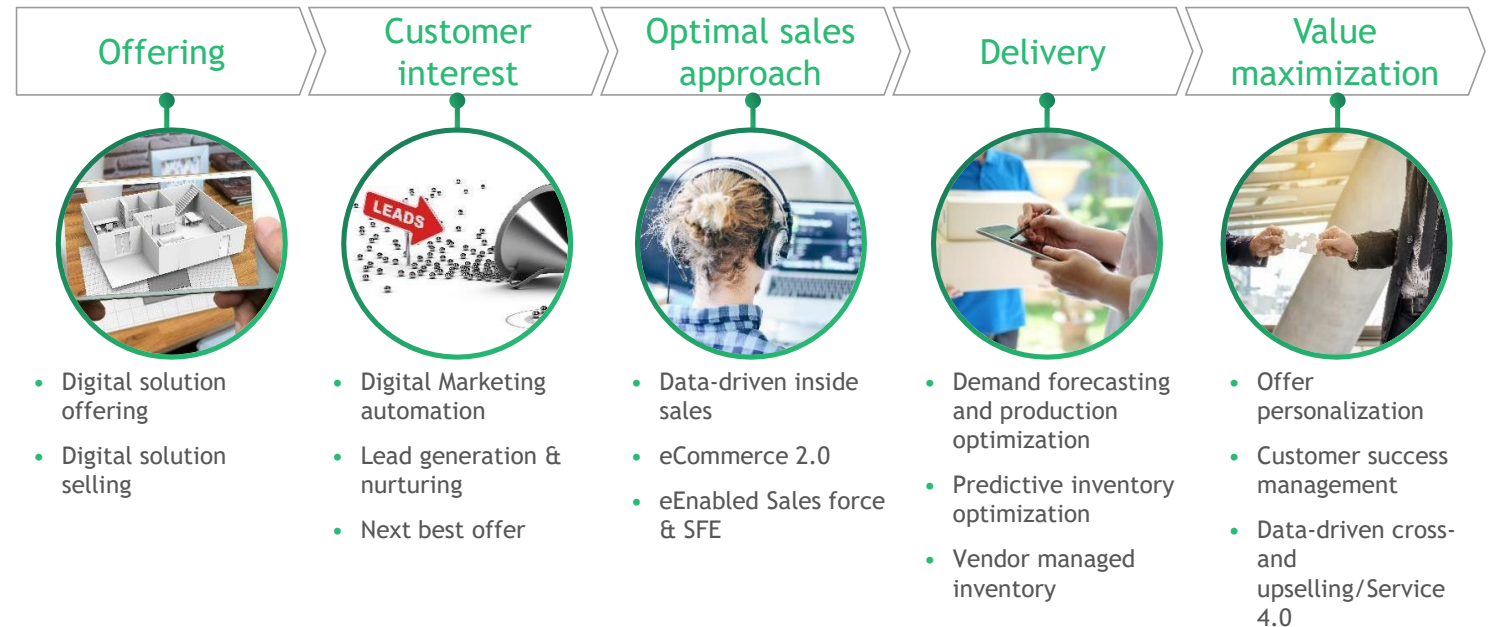
## Objective

Omnichannel orchestration of the entire customer journey



## Impact delivered

~3-5ppt EBITDA margin and 10-20% top-line growth



# Digital Marketing "Supercharger" helps to build resilience and amplify rebound

## 4 Pillar Marketing approach

- 1 Cross-functional teams
- 2 Agile budgets & media spent
- 3 Investments in E-Com, digital
- 4 Refresh branding strategy

**Context: COVID-19 rapidly impacting commercial pillars...**

- Supply chain and demand shocks**  
Demand waves and supply inconsistency across categories/geographies
- Atypical media economics**  
Abnormal media demand will drive abnormal media costs and performance
- Rapid acceleration to e-commerce**  
Consumer shift to digital purchase and pathways potentially permanent
- Occasion and demand preferences shift**  
Consumption shifts from OOH to in-home impacts potential value propositions
- "Make or break" brand associations**  
Opportunity and risk in driving brand during crisis; must reflect authentic purpose

**...must move quickly to push both "defense and offense"**

- Put in place cross-functional "Supercharger" team** to accelerate priority initiatives at speed
- Make agile budgets and test and control must-haves** to optimize media spend ROI for demand/supply shifts by market and channel
- Accelerate investments in e-digital** to reflect "new normal" mix and importance of digital in overall marketing mix
- Refresh or rebuild comms and strategy** across campaigns for 6-12 months to reflect edge scenarios

### ACTION PLAN: Adopting "Supercharger" in Marketing

<b>1</b> Organize and coordinate	Install agile, cross-functional supercharger team: <ul style="list-style-type: none"> <li><input type="checkbox"/> Tighten cadence with stakeholders (daily / weekly) to manage adjustments in real time</li> <li><input type="checkbox"/> Communicate: Disseminate crucial demand signals to rest of business</li> <li><input type="checkbox"/> Coordinate: Sync rapid testing initiatives and make bold moves based on emerging data</li> <li><input type="checkbox"/> Agile budgets: Put in place agile mechanism to shift investments to higher ROI areas</li> </ul>
<b>2</b> Re-think existing plan	Strategically re-allocate investments across plan: <ul style="list-style-type: none"> <li><input type="checkbox"/> Stop what's broken: Pull spend where supply is problematic or experiences can damage brand</li> <li><input type="checkbox"/> Invest into growth: Push spend to geographies and categories where and when demand waves peak</li> <li><input type="checkbox"/> Renegotiate pricing with vendors across media and tech to reflect new realities</li> <li><input type="checkbox"/> Capture value plays: Shift to digital channels with high availability / inventory and user stickiness; avoid high sentiment channels</li> </ul>
<b>3</b> Build resilience now	Capture growth in areas of immediate opportunity: <ul style="list-style-type: none"> <li><input type="checkbox"/> Maximize e-comm: Pull forward necessary investments in e-comm / digital to meet demand</li> <li><input type="checkbox"/> Adjust dynamically: Closely link marketing and merchandizing to match campaigns and inventory</li> <li><input type="checkbox"/> Capitalize on unplanned opportunities: Double down on offerings that address new market needs</li> <li><input type="checkbox"/> Run test and learn pilots: Navigate fluctuating demand through rapid pilots and use the moment to embed an agile, test and learn model</li> </ul>
<b>4</b> Prepare for the rebound	Invest in a foundation from which to accelerate: <ul style="list-style-type: none"> <li><input type="checkbox"/> Baseline scenarios: Plan for "what ifs" in near-term, medium term; understand the edge-cases</li> <li><input type="checkbox"/> Detect recovery and drive rapid response: Identify markets, products, categories, channels showing spikes and invest into recovery areas</li> <li><input type="checkbox"/> Reassess planned comm strategy: Plan for "new normal" for messaging on launches and campaigns</li> <li><input type="checkbox"/> Invest in digital capabilities: Take advantage of burning platform to make needed improvements</li> </ul>

### Client situation

COVID-19 radically affects commercial pillars



### Objective

Build resilience and amplify rebound



### Impact delivered

BCGs proprietary Supercharger tool



# End-to-end supply chain visibility enables to manage through the COVID-19 crisis

## Client situation

Global biopharmaceutical company with a lack of coordination between plants and work centers



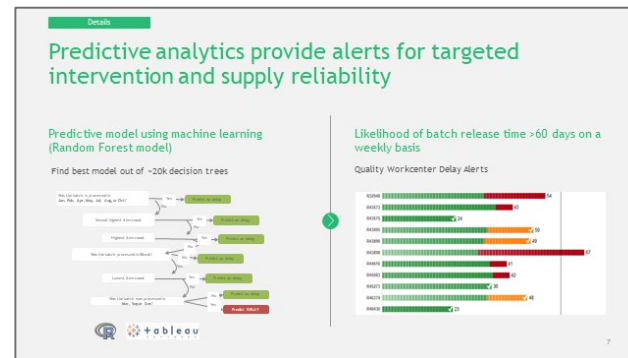
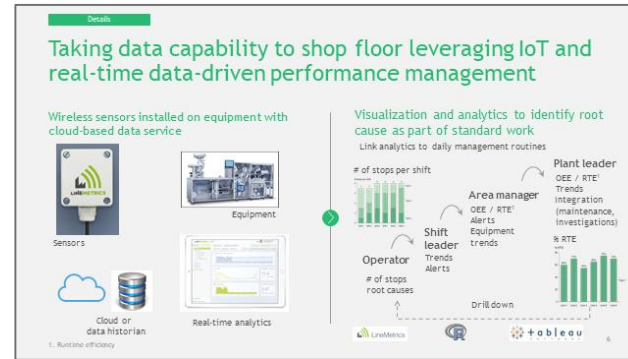
## Objective

Optimize supply chain / manufacturing network and reduce costs through process improvement



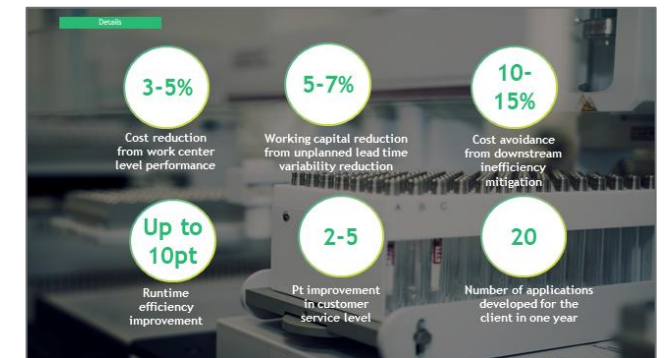
## Impact delivered

3-5% cost decrease



## Cost improvement and efficiency gains

- IoT wireless sensors with cloud-based data service to minimize disruption
- predictive model for likelihood of batch delay
- statistical inventory optimization



# Selected Case Samples - Later

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Detailed approaches across levers available upon request

# PID - digital as key lever for performance improvement to become future proof

## Client situation



Organizations globally under massive performance pressure after COVID-19 disruption of demand and supply

## Objective



Structured assessment of digital performance levers and proven tool box to sustainably tap potentials

## Impact delivered



5-15% revenue uplift & 5-30% cost reduction per improved domain

BCGs PID framework identifies digital levers, benchmark and prioritizes

PID framework structured in 3 levels

- Level 1 - Overview of domains & dimensions
  - Overview of relevant blocks and dimensions
- Level 2 - Summary and overview
  - Summary of key metrics and trends
- Level 3 - Detailed analysis and recommendations
  - Detailed analysis of specific areas

Typical impact by improvement domain

	Customer offer & Go-to-Market	Operations	Support Functions	Changing ways of working	Leveraging the power of data & AI
6-12 months EBIT impact (pp)	0-2pp	0-2pp	0-1pp		
Full mid-term EBIT impact (pp)	2-4pp	1-4pp	0-2pp		
Revenue uplift (B)	5-15%	n/a	n/a		
Examples for cost reduction (B)	10-40% of marketing costs	10-20% of generation costs	5-20% of back costs		
Typical payback	1-2 years	2-3 years	1-2 years		

Source: BCG project experience

Tool to quickly assess digital levers, benchmark and prioritize

Capture current lever utilization and expected additional potential | Benchmarking key metrics vs. peers (e.g. EBIT margin) | Define priorities, aggregate EBIT impact and sequence

- To what extent is digital lever currently utilized? → (Lever not utilized, Piloted, Applied, Routine, Mastered)
- What additional potential is expected if the digital lever is applied to the full extent? → EBIT margin impact

# Call Center automation increasingly important due to push of online channels

## Client situation

Contact centers experiencing a perfect storm of high demand & disrupted resource availability



## Objective

Bring demand under control whilst ensuring employees are protected and prepare for future after crisis



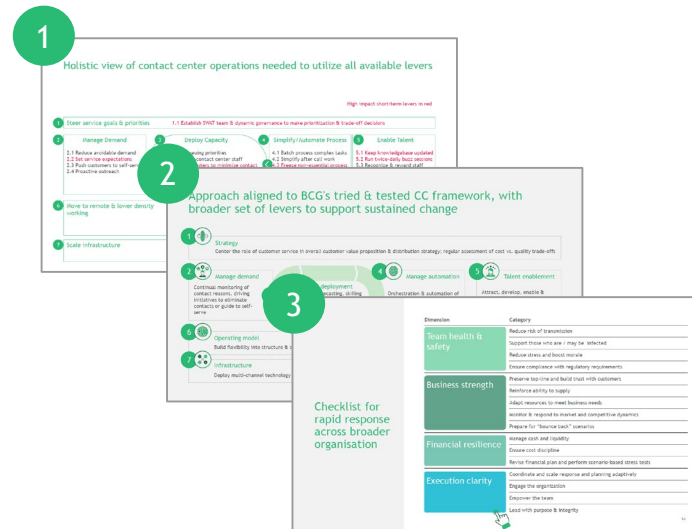
## Impact delivered

Successful crisis mgmt; 30% cost savings, transformed experience, and top-line growth



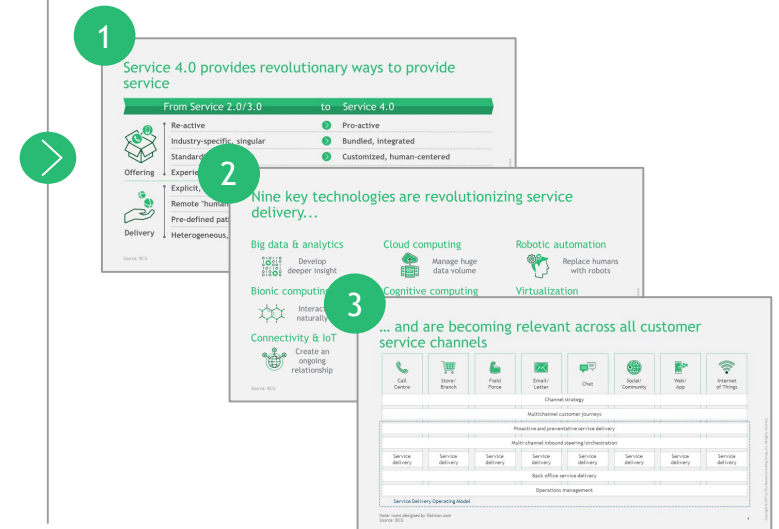
### Immediate measures

Establish SWAT team to respond in timely manner with changes to ops priorities, processes & policies



### Long-term measures

Different ways of delivering customer service and interacting with the customer via Customer Service 4.0



# Gammas supply chain transformation approach leads to significant EBIT increase

## Client situation

Food distributor in US faces challenging freight market conditions and declining supply chain productivity



## Objective

Solutions for outbound routing optimization, inbound lanes design, labour scheduling at DCs and network optimization



## Impact delivered

\$100m EBIT increase



Supply chain transformation supported by 3 tools:

- 1 Outbound routing optimization
- 2 Distribution center labor scheduling
- 3 Inbound lanes design and optimization
- 3 Network optimization



# Develop e2e vision care provider to offer personalized eye care services & eyewear solutions

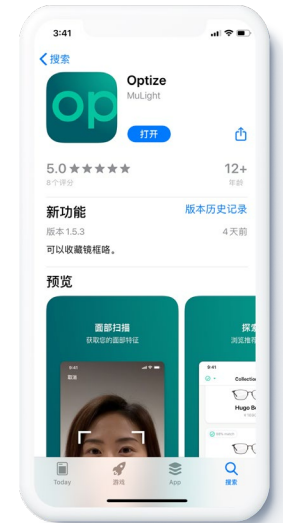
## optimize

### For business partners:

- **Professional:** Regular on-site vision care with advanced equipment and technology
- **Efficient:** Vision program specialists to organize tailored services and events
- **Considerate:** Sponsoring of B2B2C vision care to improve health and productivity

### For end consumers:

- **Convenient:** Accessible vision care services with virtual try-on of spectacles on mobile app
- **Personalized:** AI enables smart style recommendations and optimal fitting of spectacles
- **End-to-end:** Dedicated space to track and maintain a digital record of the vision profile



### Client situation

Explore investment opportunities to extend presence in the value chain and into Chinese market



### Objective

Deliver in-market proof of personalized end-to-end digital eyewear solution to Chinese consumers



### Impact delivered

Built vertical venture within 15 months

# IT cost reduction & simplification via 4 levers to manage increasing cost pressure



## Client situation

Digital/IT acts as an enabler for cost saving and operational excellence, whilst also being challenged



## Objective

Achieve cost excellence in the IT Function



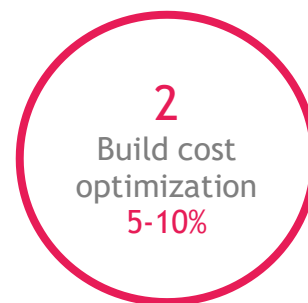
## Impact delivered

4 levers with 5-15% cost optimization potential each



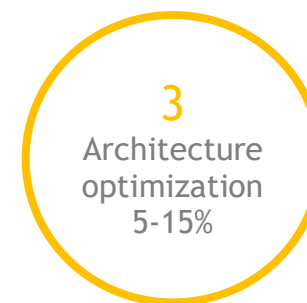
- Review service levels
- Adapt Outsourcing/ offshoring ratio
- Automation of tasks (e.g. chat bots for first-level-support)

6-12 month



- Review of project portfolio for fulfillment
- Enable project portfolio mgmt.
- Move from waterfall process to agile & MVP-approach

6-12 month



- Move towards cheaper applications
- Reduce degree of software customization
- Rationalization of application landscape

~24 month



- Optimize non-productive IT roles
- Shift capabilities towards value adding activities
- Cluster resources in centers of excellence

6-18 month

# Selected Case Samples - Resilience & value from Technology

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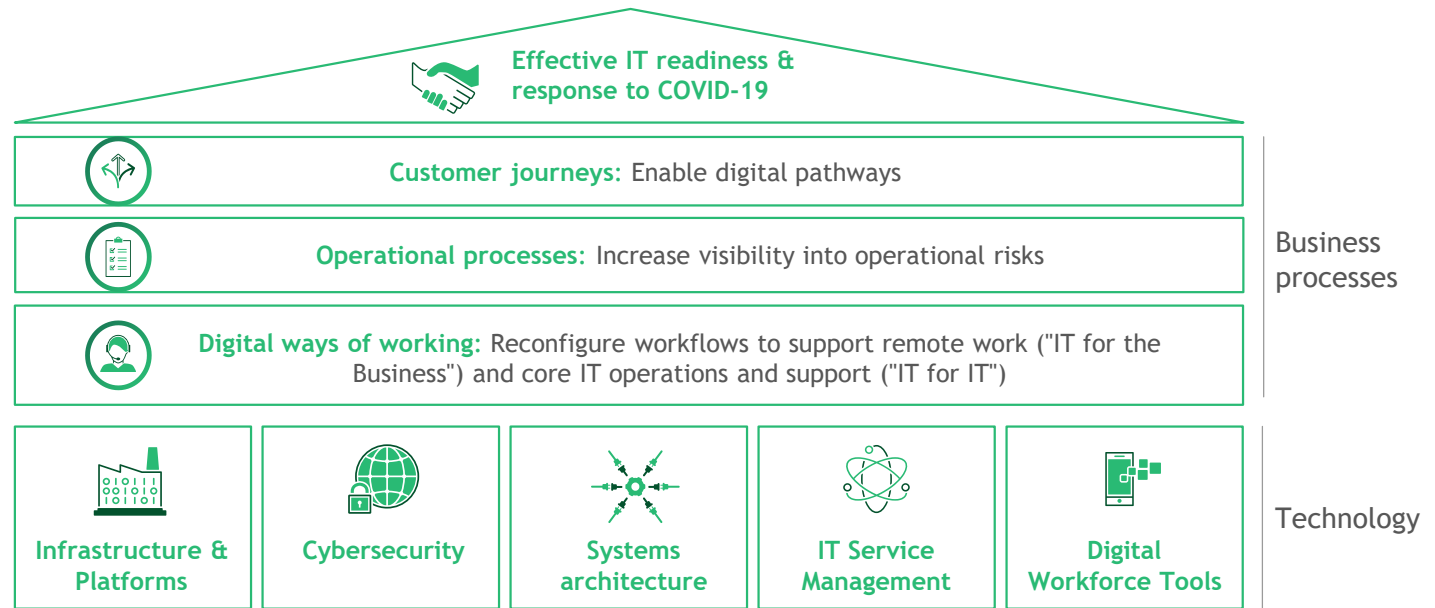
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# Technology Resilience: Rapid Sprint to Address Implications of Covid-19 Response

Changes to customer journeys and operational processes will drive changes across 5 tech capabilities



## Client situation

COVID-19 is forcing firms to ensure readiness of their IT infrastructure to effectively operate without disruption



## Objective

Lay out a rapid sprint approach to enable clients to identify and address most critical gaps in IT capabilities



## Impact delivered

Define, source, build tech enabler for tech & business continuity

# BCGs cybersecurity best practices enable secure operations during pandemic



## Client situation

COVID-19 is forcing companies shifting from office operations to remote working



## Objective

Minimize risk of cybersecurity crisis during pandemic



## Impact delivered

Best practices to secure operations during pandemic

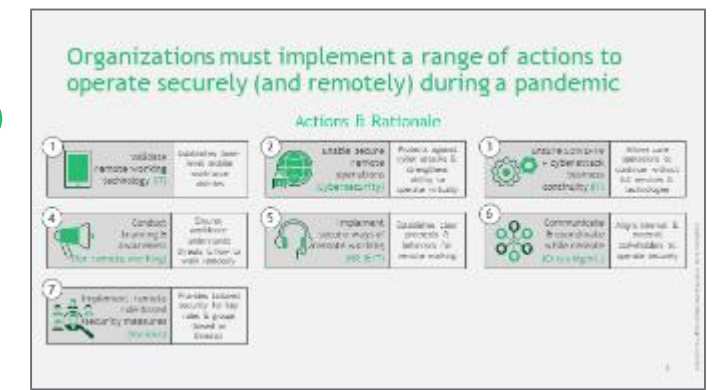
### Remote working due to COVID-19 outbreak

Step 1: Identify cybersecurity risks due to shift from "office operation" to "remote operation"



### Implementation of cybersecurity actions

Step 2: Implement 7 actions and communicate rationals to secure remote operations during pandemic



# Proven four step approach to build simplified and more robust IT landscape



## Client situation

Premium Automotive OEM with complex application landscape needs to simplify portfolio



## Objective

Opportunities for simplification identified and qualified via criteria-based analysis and portfolio clustering

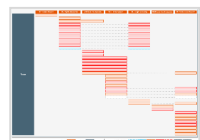


## Impact delivered

BCG helped decide on tech approach and program prioritization

### 1 Qualify applications

Collect key information along 5-10 pragmatic criteria e.g., business relevance & cost, technologies



*App landscape & key information*

### 3 Build roadmap

Prioritize opportunities and realize first quick wins ("proof that it works"). Build aligned roadmap for actions



*Aligned roadmap*

### 2 Cluster applications

Cluster applications along dimensions business value and complexity into buckets e.g., keep / grow, retire / sun-down



*Clustering of applications*

### 4 Execute roadmap

Drive execution of roadmap and liaise with respective teams. Track rigorously to ensure timely delivery



*Ongoing impact reporting*

# Agile@scale: New ways of working as good practices in times of COVID-19

## Client situation

Various clients face digital disruption and technology change; current IT delivery with limitation and team interactions are very hierarchical and slow



## Objective

Reduce tech projects delivery time, increase frequency of releases, increase user adoption, improve capability to attract top talent



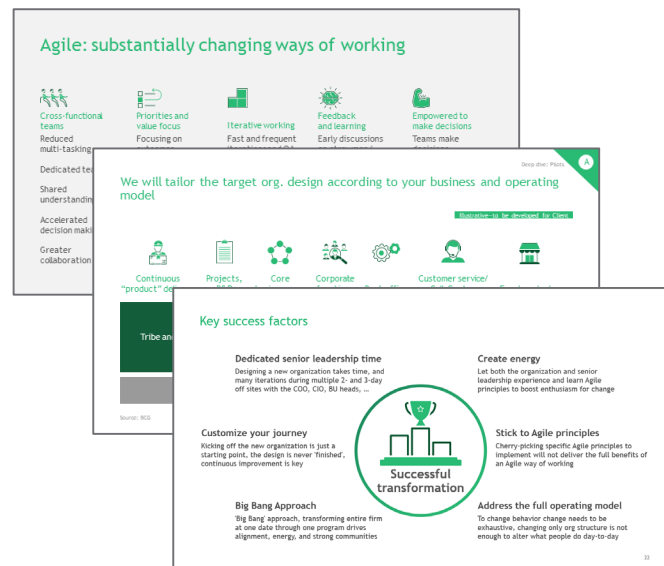
## Impact delivered

Tailored model for agile transformation and efficiency gains



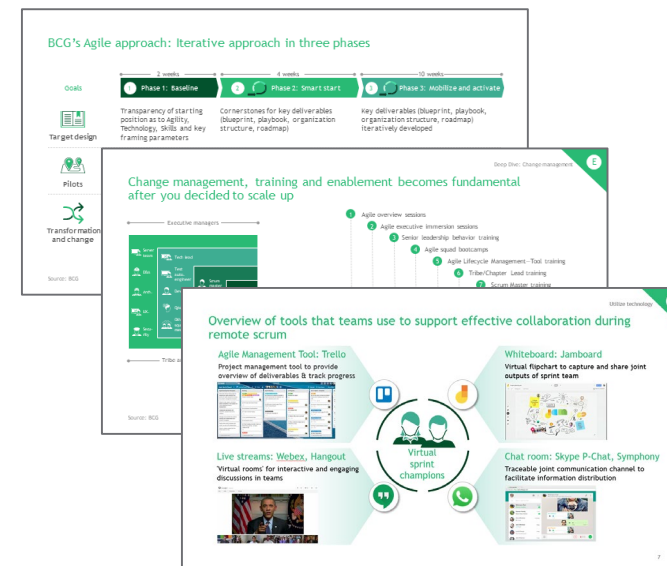
### Agile ways of working:

Substantial new ways of working tailored to client's needs with best practices and key success factors



### BCGs project approach:

Iterative approach with high degree of coaching/training & implementation of tools to ensure successful (remote) collaboration



# Data and digital platform helps to improve customer experience

## Tech revolution based on data & digital platform and tech accelerator

### Client situation

Leading CPG Client wants to radically improve products, customer experience and create competitive advantage

### Objective

Improve data availability and quality

### Impact delivered

Data accelerator and Data and digital platform



#### Client Tech revolution in 6 main streams

- Digital use cases with Tech Accelerator**  
Selected digital Use cases to drive the tech transformation, onboard and engage business teams, Create early business value
- Data Platforms**  
One integrated data layer including all core components  
New Data Capabilities, and Data Governance
- Enterprise Core**  
Hybrid environments with best-of-breed SaaS providers and Lean Core ERP
- IV Cloud!**  
Use of public cloud providers for scale and cost effects as well as internal/external private clouds with focus on service level and automation
- Enterprise Architecture**  
Enterprise Architecture Office and Tech enablers (API, DevOps, Microservices)
- Cybersecurity**  
Protect assets with a defense-in-depth approach  
Quickly recognize and react on internal and external attacks

#### Delivery vehicle aiming at augmenting - not asess resources

**Tech Accelerator Leadership**

**In each hub**

Decentralized global build

Use cases delivery following agile principles

Use case team made of four key roles (dedicated or partly allocated, internal or external)

A core team of 5-10 FTE initially in charge of hub management, knowledge capitalization, and use case contribution

#### Accelerator was structured in 3 phases on 4 initial launching phase

Phase 1 (12 weeks)	Phase 2 (8 weeks)	Phase 3 (12 weeks)
<ul style="list-style-type: none"> <li>Landscaping of potential acquisition targets to accelerate the team set-up</li> <li>Identification and prioritization of priority use cases to be "accelerated" across the three hubs</li> <li>EMEA hub set-up and core team ramp-up</li> <li>Support to first use case pilots in EMEA (sprints 0)</li> </ul>	<ul style="list-style-type: none"> <li>Immediate follow-up, daily meetings with stakeholders, and light support to commercial steering topics (progress monitoring, governance set-up and enforcement)</li> <li>Ad-hoc support to prepare exchanges with top stakeholders.</li> </ul>	<ul style="list-style-type: none"> <li>Ad-hoc and cross use case support to Core team</li> <li>Ad-hoc and cross use case support to Core team</li> </ul>
<ul style="list-style-type: none"> <li>Stream 2: handover to EMEA hub core team on selected sprints 0/1 conducted in EMEA</li> <li>Stream 3: support to few top strategic new Sprints 0 across the three hubs</li> <li>Stream 4: support to APAC &amp; NAMER hub spin-up</li> </ul>	<ul style="list-style-type: none"> <li>Support to Finalization handover of selected started sprints 0 / 1 with focus on onboarding internal Core team resources</li> <li>Prior to COMEX launch, mostly limited to ad-hoc support</li> <li>Light support to Hub set-up in no-regret moves (Hub head onboarding, location set up, operating model definition and preparation)</li> </ul>	<ul style="list-style-type: none"> <li>Ad-hoc and cross use case support to Core team</li> <li>Strong involvement in sprint 0 teams for most strategic use cases (product design, business case, make-or-buy)</li> <li>Local presence in APAC / NAMER hubs to assist Hub heads in Hub set-up, operating model definition and first use case support launches</li> <li>Ad-hoc and cross use case support to Core team</li> </ul>



# Tech People Transformation (TPX) redesigns people strategy to facilitate DDP<sup>1</sup>

## Client situation

Companies moving to Data and Digital Platforms should carefully define their workforce strategy



## Objective

Define comprehensive redesign of the people strategy within a technology / IT function



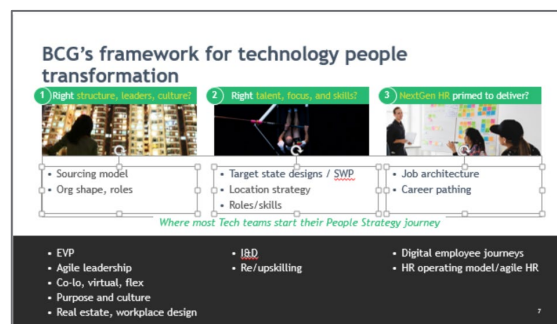
## Impact delivered

Tailored model to enable Tech People Transformation

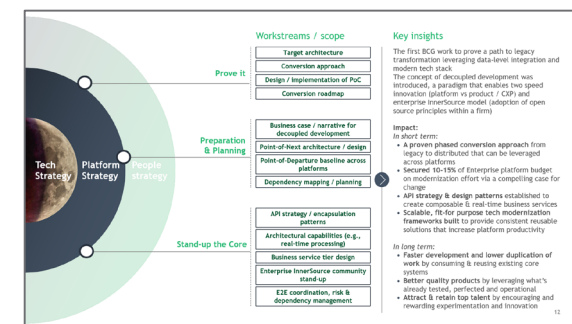
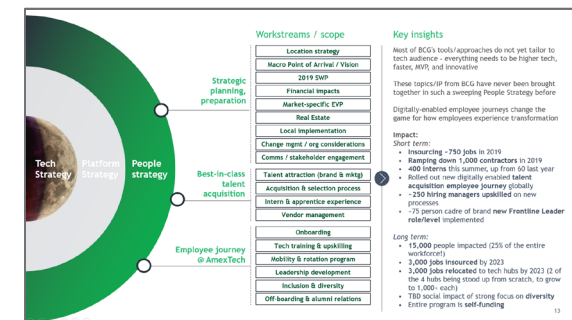


### BCG framework

Comprehensive redesign of the people strategy within a technology / IT function acknowledging the fact that IT/Tech is no longer purely a "back office" function, but a business driver and product builder



### Ready to use tool kit to define tech/platform and people strategy



1. Data and digital platform

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