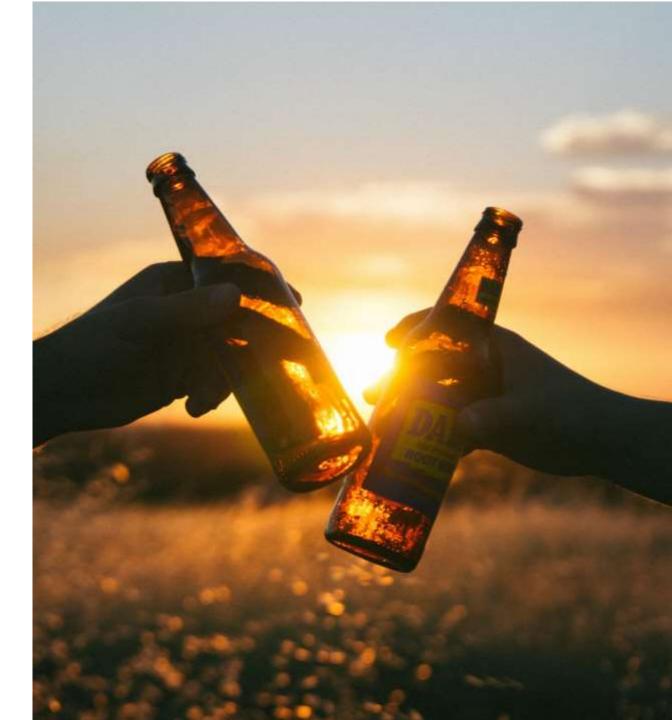
굴뚝 산업 디지털 트랜스 포메이션 프로젝트: 현실, 도전 그리고 AI의 역할

ABInBev

Al Summit 2021 Seoul 9th Dec. 2021



SPEAKER



임재현 Jae Hyoun Im Head of Data | 이사 AB InBev Korea



SKKU, Adjunct Professor

- Natural Language Processing, Text Mining
- Machine Learning, Data Mining



POSCO Research Institute, Principal Researcher

- AI/ML driven Process Innovation
- NLP, Text Mining



Cyworld, Data Scientist

- Social Network Data Analysis
- Data-driven Corporate & Marketing Strategy



유주홍 Joo Hong Yoo Principal I 상무 Kearney Korea



Rimac(리막), Chief Business Officer 부사장

- 자율주행 모빌리티 사업부문 총괄
- 사업전략, 서비스, IR 등 업무 총괄



현대차, 상품본부 이노베이션 매니지먼트 팀장

- EV, 자율주행, 모빌리티 관련 신사업 개발 주도
- 신규 브랜드 고객경험 및 브랜드 전략 총괄



제일기획, Corporate Development 담당

- 글로벌 성장전략, M&A 등 업무 담당
- IT사, 자동차사, 소비재사 대상 DT 업무 담당

AGENDA

a. ABI Korea: Analytics in Digital Transformation

I. Assessment & Requirements

b. Generalization

- I. Purpose Case : Consumer Centricity
- II. People&Org Readiness Assessment
- III. Key Issues & Priorities

Why are we talking about this?

ABI has been doing Digital Transformation and especially Analytics (incl. AI) globally for many years.

To solve similar problems, with lots of duplicated solutions.

8yrs



What I have seen



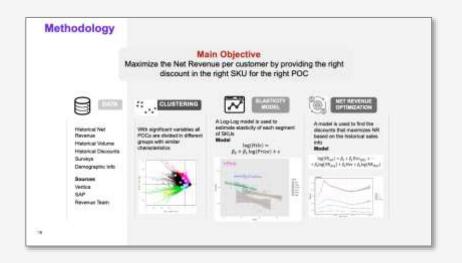
Solutions are abundant

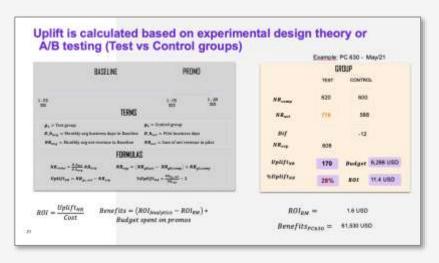
Even in a Beer Company
DT and AI is creating value



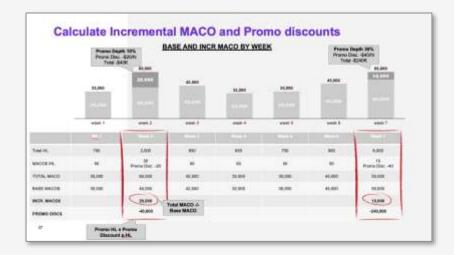
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Promotions Optimization





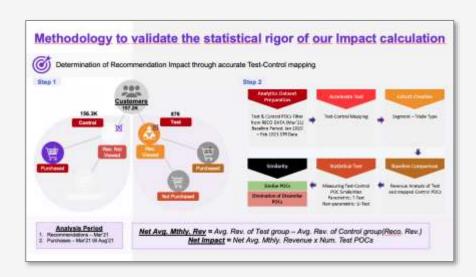


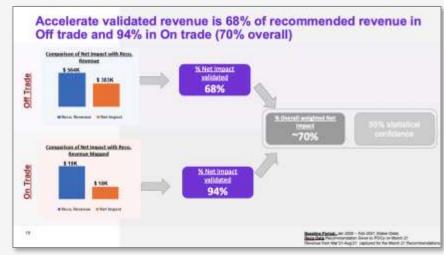


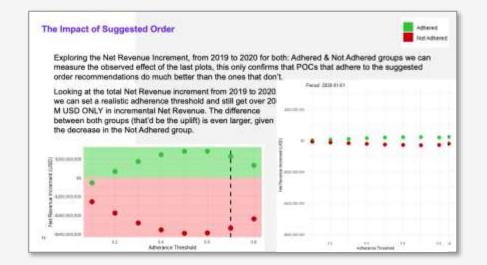


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Recommendation Engine



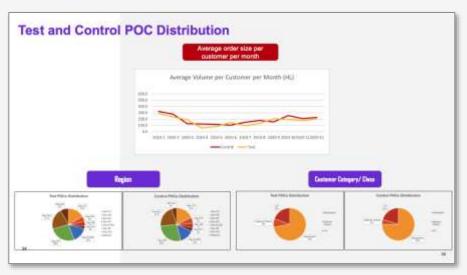


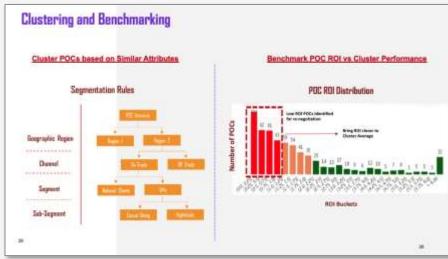




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POC Intelligence







Analytics Solution at hand

Domains and Use Cases for Analytics DOMAINS Consumer Commercial Supply Chain of **Digital Route to** Digital Digital insights and Forecasting Excellence & the Future Market Commerce Consumer Rev Mgmt. Product Dev. 1. Smart Innovation 1. Demand Planning 1. Network Optimization 1. Promo Optimization 1. Portfolio Optimization 1. Consumer Profiling 1. Marketing Mix ROI Engine 2. Order Management 2. Line Scheduling 2. Resource Allocation 2. Loyalty program 2. Segmentation 2. Brand Health Analysis USE CASES 2. Research (tech. 3. Business Cycle 3. Process Efficiency 3. Segmentation 3. Optimal Distribution 3. Portfolio Optimization 3. Media allocation commodity, product, etc) Initiatives 4. Predictive maintenance 4. Optimal Assortment 4. Optimal Execution 4. Consumer Strategy Optimization & service 5. Price, pack and channel 5. POC Insights 5. Digital Campaigns mix 6. Top Line Protection Optimization 6. Trade Merchandising 6. Sponsorship ROI DOMAINS Technology **Finance Procurement** Operations People Platform 1. Credit 1. Performance driven 1. Smart Collections 1. Recruitment & 1. Data Orchestration sourcing Workplace analytics 2. Risk Management 2. Payment Leakages 2. Test Ops (A/B testing 3. Intelligent budgeting 4. Asset management 5. Revenue assurance 2. Commodity Cost 2. Performance platform) 3. Tax Optimizer Forecasting (sourcing) 3. Succession Planning 3. Hardware 4. Payables: 3. Supplier and contract 4. Infrastructure 5. Cashflow Initiatives optimization 5. Turnover prediction 5. App. Licenses 4. E-Auction 6. Cybersecurity 13



What I have seen





For prioritization purposes, the capabilities to optimize through D&A were assessed in two dimensions – Value & Feasibility

Desirability and Viability assessment

- 1 Size of the Prize: Incremental EBITDA at run rate, considering material cost (if relevant to capability optimization)
- 2 Strategic (multiplier): Qualitative assessment of strategic importance of key dimensions:

Alignment to company strategic pillars

Scale (1-10) showing capability optimization contribution to increase market share and portfolio expansion

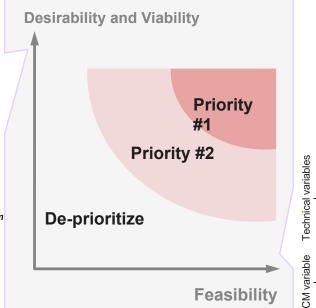
Regional scalability

Scale (1-10) showing how transferable is the capability optimization to rest of country and other regions

Once a score is given for both dimensions, the "strategic multiplier" is obtained using the following formula: sum / average of sums of all capability optimizations

3 Score is the product of the "size of the prize" and "strategic multiplier"





Feasibility assessment

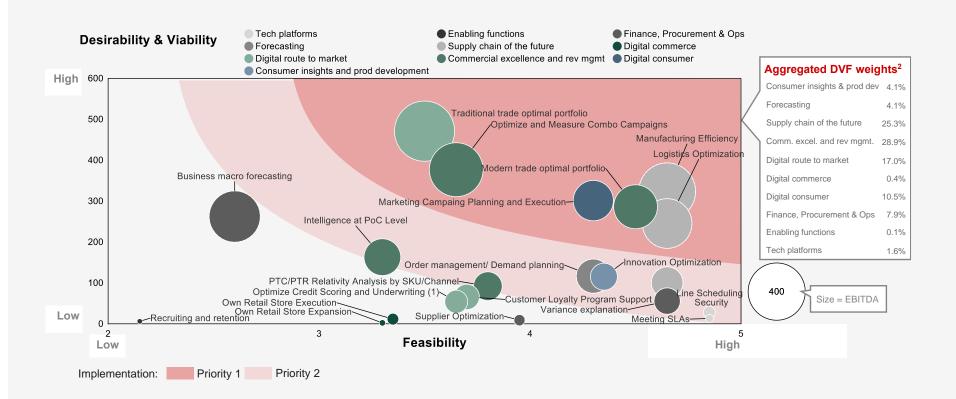
Weighted mean of a 1-5 point scale qualitative assessment made for the following four technical and implementation areas. Less feasible More feasible Feasibility areas Weight Data - Availability, easiness of 20% access and quality of data Inter-operability - Facility to 15% integrate data and systems Analytics - Availability of required 15% tech solutions End user - Capabilities and 50%

easiness to change process and

behaviors



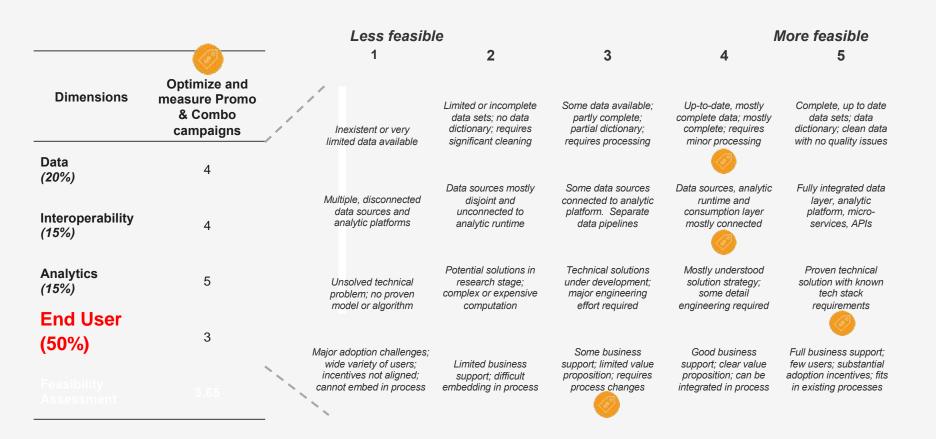
Prioritization Example - How it should be





Feasibility Assessment

Most important are the END USER





Feasibility Assessment

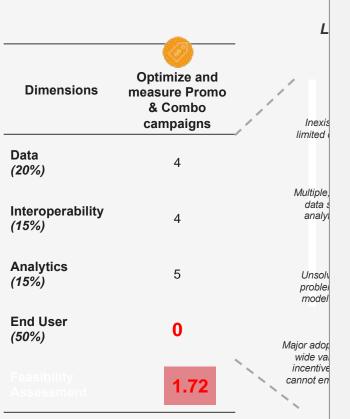
Most important are the END USER

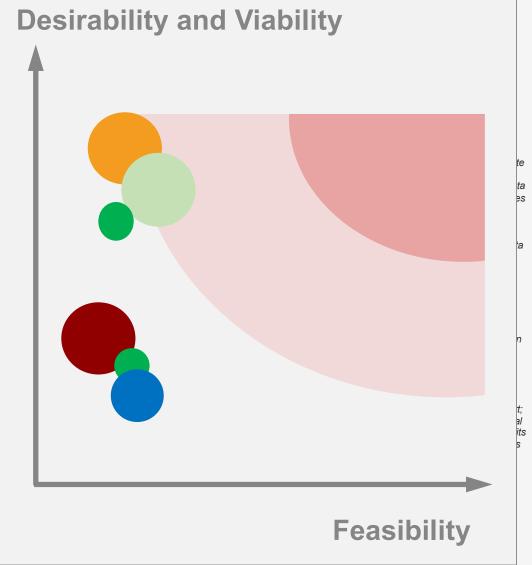
		Less feasibl	More feasible			
		1	2	3	4	5
Dimensions	Optimize and measure Promo & Combo campaigns	Inexistent or very limited data available	Limited or incomplete data sets; no data dictionary; requires significant cleaning	Some data available, partiy complete; partial dictionary; requires processing	Up-to-date, mostly complete data; mostly complete; requires minor processing	Complete, up to date data sets; data dictionary; clean data with no quality issues
Data (20%)	4					
Interoperability (15%)	4	Multiple, disconnected data sources and analytic platforms	Data sources mostly disjoint and unconnected to analytic runtime	Some data sources connected to analytic platform. Separate data pipelines	Data sources, analytic runtime and consumption layer mostly connected	Fully integrated data layer, analytic platform, micro- services, APIs
Analytics (15%)	5	Unsolved technical problem; no proven	Potential solutions in research stage; complex or expensive computation	Technical solutions under development; major engineering	Mostly understood solution stretegy, some detail "neering required	Proven technical solution with known tech stack requirements
End User (50%)	3	Alignment	on	, adamentario		
		Major adoption challenges; wide variety of users;	Process _s	Some business support: limited value	Busines	s Support 🐇
Farrestilly Assessment	3,88	incentives not aligned; cannot embed in process	support; difficult embedding Chang	proposition; requirecess chang Inc	entive is can be adoption incentives; in existing processe	



Feasibility Assessment

THE REALITY







Digital Transformation과 AI 과제의 성공을 위해 필요한 것은? 진단!

그렇다면, 무엇을 진단해야 할가?



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While most companies in the past were mainly product-oriented, successful organizations nowadays are increasingly consumer-centric.

Product-centric Companies

Governance per product category/brand divisions

Pure product and competition-based KPIs

Resource allocation only focused on **product-centric programs**

Selected industry quotes:



"We didn't do anything wrong, but somehow, we lost."

Stephen Elop, former CEO of Nokia



"I've been frankly confused by this fascination that everybody has with Netflix ...Netflix doesn't really have or do anything that we can't or don't already do ourselves." Jim Keyes, former CEO of Blockbuster

Consumer-centric Companies

Consumer profiles based on demographics

Continuous **analyses of consumer journeys** and experiences

Tracking of **consumer metrics**, e.g. conversion funnel metrics

Selected industry quotes:



"We see our customers as invited guests to a party, and we are the hosts. It's our job every day to make **every important aspect of the customer experience** a little bit better."

Jeff Bezos, CEO of Amazon



"We used to think that everything started in the lab. Now we realize that everything spins off the consumer."

Phil Knight, Founder of Nike

Nike has reshaped its operating model to better service consumers personally, at scale



- High-level consumer centric definition was created top-down by 4 leaders (CEO, CSO, CRO & Head Nike Europe)
- 40/60 top-down & bottom-up approach:
 - top-down set guard rails on triple double laid out in OKR
 - Bottom-up developed detailed strategic plan which supported the triple double mandate (per functional area)
- Build decentralized insights organization supporting the entire organization to understand the consumer
- Cross-functional steering committee to drive consumer centricity, including strategy directors for brand, sales, R&D and SI
- Set-up consumer database starting at nike.com and develop digital capabilities to analyze (in-house or through M&A)

How to get there:



Develop clear mandate including targets, guidelines and expectations from the top, as input for bottom up yearly strategic planning process



Build personalization database, with DTC data as a starting point, complemented with retail data



Expect each function to contribute; unified through a data & analytics steering committee



Embed the strategic insights function within the organization, to live & breathe consumer insights

19

Consumer centricity leaders exhibit common success patterns – and their efforts pay-off.

Success Factors



Define a long-term **vision** & **strategy** that is consumercentric, tangible & aspirational



Guide journey to consumer-centricity centrally, involving all functions to attain seamlessly integrated functions & channels



Build **ongoing relationships** throughout the **entire consumer journey**



Be data-driven but just as keen to understand human emotions



Embrace an **innovation & decision-making** process that delivers fast & frequent consumer relevant innovation



Implement data technology to become the single source of truth for business, consumer & market data



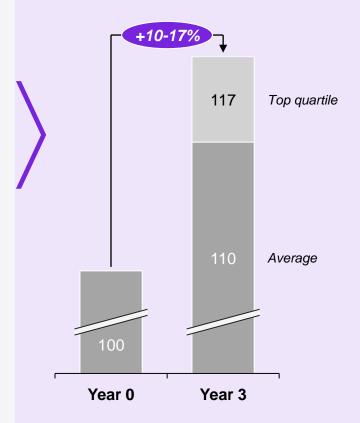
Allocate investment & resources with **improving the** consumer experience as sole criterion



Build a culture characterized by **trust**, **collaboration** & **passion** to deliver **superior consumer value**

Financial performance of consumer-centric companies

EBIT development indexed to first year of consumer-centricity journey¹



^{1.} Performance analysis based on EBIT weighted average retrieved from annual reports of Nike, P&G, PMI, BAT, Altria, Diageo, Heineken Source: Benchmarking interviews, Kearney

However, many organizations struggle with consumer centricity.

Common challenges

Lack of **shared definition** for consumer centricity



Governance and operating model not suitable for consumer centricity



No consumer centricity across **functions**



Lack of leadership commitment to the topic



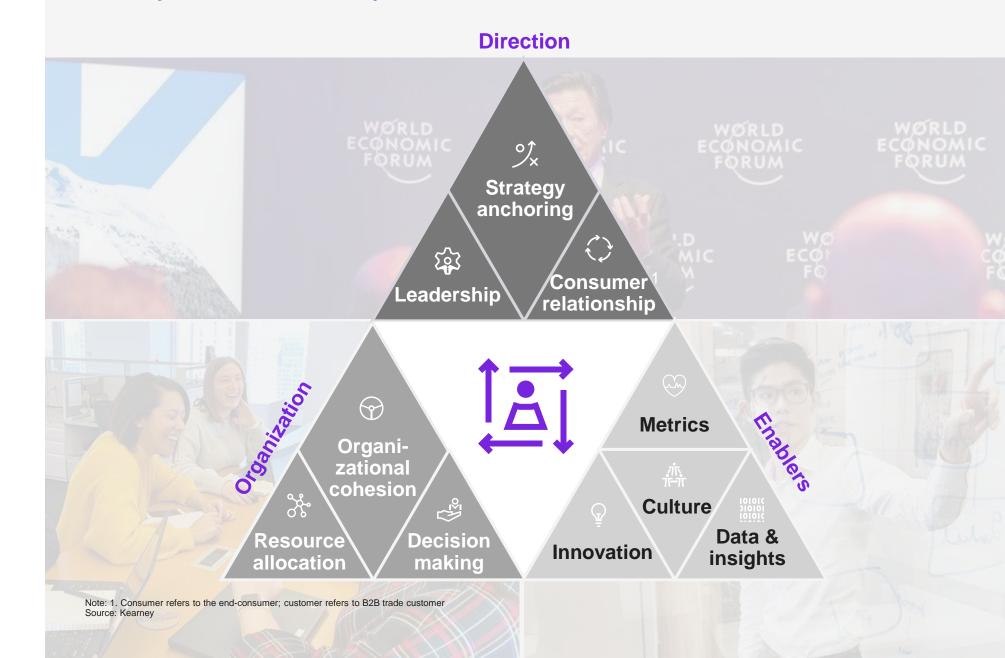
No ability to systematically measure and track KPIs and progress



Too slow in capturing consumer insights and translation into actions

Our Consumer Centricity Index allows companies to understand their consumercentric maturity level.

Kearney Consumer Centricity Index

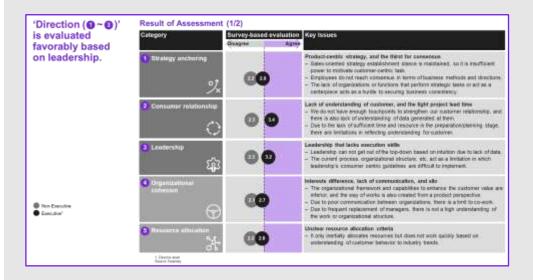


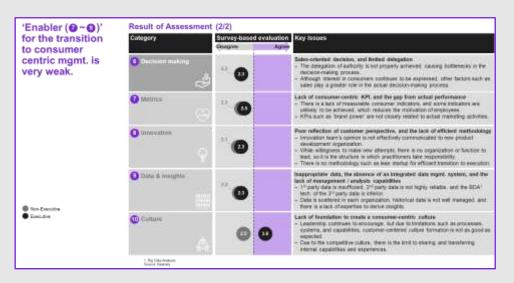
By combining surveys & context interviews, we generate a 360° view on consumer centricity maturity for the organization.

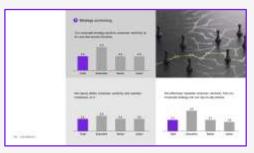
			Level 1 Product/competition-centric	Level 2 Consumer centricity starter	Level 3 Consumer centricity expert	Level 4 Consumer centricity champion
Direction	Strategy anchoring	×	 Product-focused strategy 	 Consumer part of some functions' work plan 	 Consumer centricity is part of corporate strategy 	 Consumer-focused strategy
	Consumer relationship		 Lack of clear consumer touchpoint concept, resulting in mass interaction 	 Consumer touchpoints managed separately 	 Consumer experience management integrated across touchpoints 	 Communities & connected products / services leveraged for ongoing relationships
Q	Leadership §	<u>^</u>	 Market-share gain as key incentivization 	Market-share oriented, recognizing brand/marketing performance	 Consumer experience in majority of leadership behavior considered 	 Consumer centric metrics focus as incentivization
tion	Organizational cohesion	9	 Limited flow of consumer view from functions to the others 	 Consumer impact included in cooperation with functions 	 Consumer included in decisions in all consumer facing functions 	 Primary aspect in collaboration across all functions is the consumer
Organization	Resource allocation	ji.	Based on internal heuristics & product-oriented resource allocation	 Based on short-term business priorities relevant to CX 	 Based on long-term priorities in CX impact considered 	 Improving CX as major criterion with lifetime-focus across functions
	Decision making	% } 	 Focused on historic trends with hierarchical structures 	 Unstructured, characterized by debate and limited follow-through 	 Structured, multi-phase process with clear R&R 	 Fast & action-driven, high ownership of ideas from empowered teams
Enablers	Metrics	3	 Solely product / business focused KPIs 	 Consumer centric metrics included in scorecards for some functions 	 Consumer centric metrics included in scorecards for all functions 	 Consumer centric metrics are key on the scorecard for all functions
	Innovation	ā	Competitive & product centric innovation pipeline	 Consumer needs is foundation of the innovation pipeline 	 Extend the scope of innovation to consumer-centric contents and services 	 Consumer centricity driven innovation pipeline
	Data & insights		 Functions independently collect data in scattered data landscape 	 Limited integration of consumer, business and market data 	 Single source of truth on consumer, business and market data 	 Integrated data landscape with a single real-time interface
23	Culture	ŗir i−ir	 Functional expertise and process- driven culture 	Consumer values exist mainly on paper	 Company and employees communicate consumer values 	 Company drives consumer-centric vision and leadership caries it out

People & Organization – Readiness Assessment

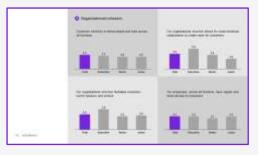
Client Example: Consumer Centricity Assessment

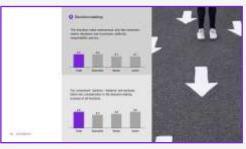












Key Issues & Priorities

P&G Case: Change Management Towards Digital Transformation



Decentralized Facilitator Ongoing Ongoing Change Management Manager/Governor

Implement DT Mindsets

Inspiring employees, making them digital believers



Raising DT Awareness

 Train and update employees from an external perspective on what digital transformation is, and what other companies are doing



Operating a Startup Accelerator

 Present employees with the digitalization challenge, by bringing in startups to generate and pilot new ideas with internal teams

Developing digital-native capabilities

Engage People



Running small-scale pilot projects

- Run multiple projects simultaneously and identify digital pioneers, build success
- E.g., P&G invested ~\$30,000 in 5~10 pilots, including DIY consumer surveys



Developing Digital Natives

- Upskill employees (e.g., through trainings, Power BI has become the main data sharing/reporting tool)
- Bring in external talents to drive the cultural shift (e.g., senior data scientists)

Encouraging the organization to operate like a startup

Transform Way of Work

Introducing Lean Innovation

- Multifunctional teams of 2/3 are assigned to innovative ideas submitted across the company
- Teams allocate ~40% of capacity to lean projects by deprioritizing existing work
 - Relevant functions fund projects (e.g. budget-saving potential)
 - Progress is evaluated every quarterly, and teams are given close access to higher leadership