ARTIFICIAL INTELLIGENCE & INNOVATION

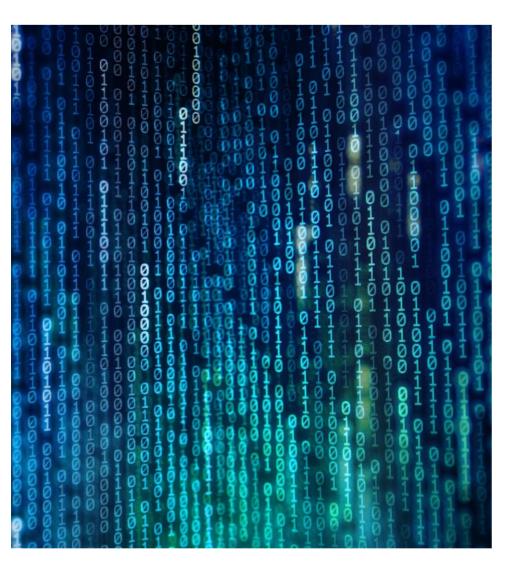
SUMMARY



1. STRIVE FOR OPERATIONS EXCELLENCE THROUGH AI

2. INNOVATION

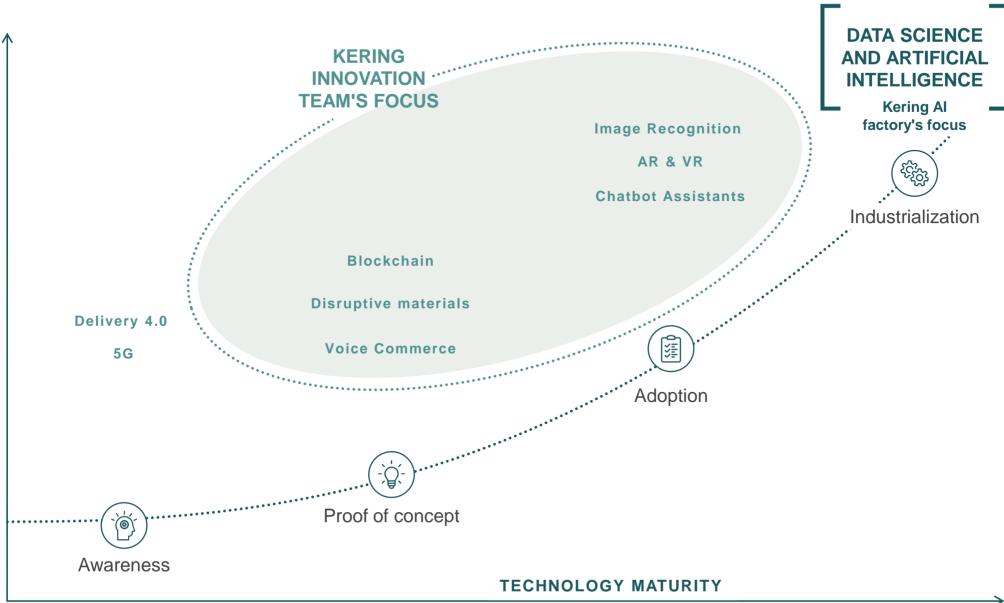
SUMMARY



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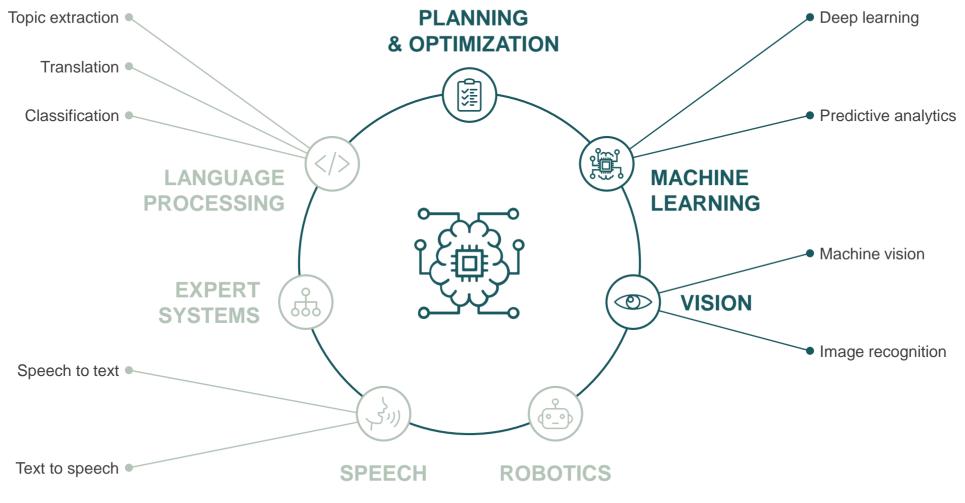




Sources: GrandViewResearch; BI Intelligence; Statista; Global Data; eMarketer



AI IS BRINGING A WIDE SCOPE OF GAME-CHANGING APPLICATIONS



Used for current projects

Being assessed for future projects



THE AI FACTORY RELIES ON A LARGE RANGE OF DATA SOURCES



SALES DATA

Sales in value

Product volumes

Sales location and date



CRM DATA

Client contact

Segmentation

Purchase behavior

Opt-in/Opt-out



WEBSITE DATA

Web views

Online Conversions



PRODUCT DATA

Price

Style Color & Size

Product Attributes

SUPPLY DATA

Inventory in network Replenishment data

Store data



DATA LAKE &
AI PLATFORM



OPEN DATA

Postal code Geolocation mapping Special events



AI WILL BRING A COMPETITIVE ADVANTAGE TO BRANDS: HENCE, WE ARE LEVERAGING THE BEST CAPABILITIES AND TALENTS TO ACCELERATE





BUILD A UNIQUE TEAM OF TALENTS

- One team / One roof /
 One floor blending data
 scientists, data engineers,
 data developers
 & data managers
- Leverage agile method to foster innovation and adopt new technologies



IMPLEMENT CUTTING EDGE TECHNICAL CAPABILITIES

- Upgrading Kering data lake to store all data sources and ensure data availability; Manage huge amount of unstructured raw data
- Leverage cloud platform (scalability, AI) and ability to rollout models in production



FOCUS ON MVP AND INDUSTRIALIZATION RATHER THAN POC

- Strategic bias in favor
 of Minimum Viable Products
 (= the most minimal form
 of a complete solution) to test
 in real conditions as soon
 as possible
- Aiming for rapid industrialization at full scale for projects with proven added value

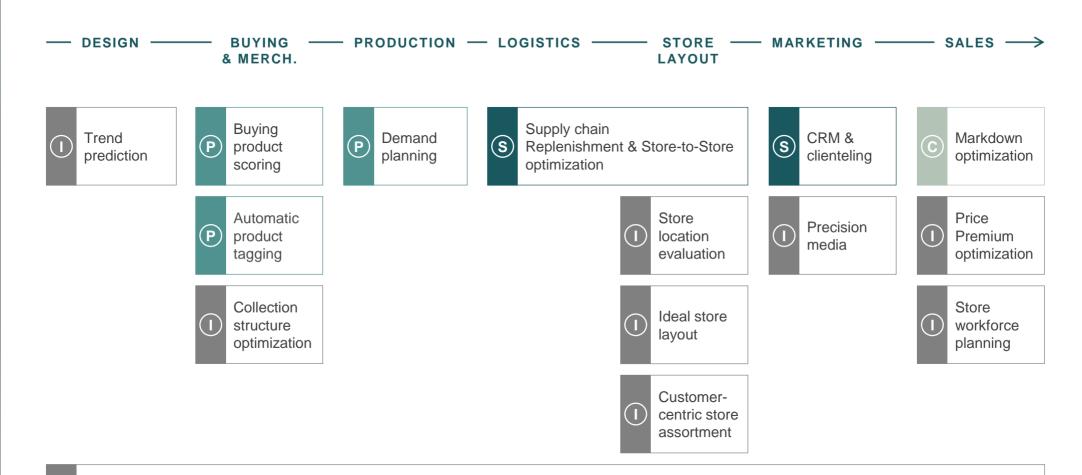


ENSURE CLOSE INCLUSION OF BUSINESS REQUIREMENTS

- Onboarding the brands from day 1
- Starting all projects with a sponsor brand
- "The hardest part of AI is not the code, it is the change management around"



WE PRIORITIZED AI PROJECTS AMONG A LARGE SPECTRUM ON THE VALUE CHAIN



Performance management: Sales forecasting (global, country, store level)



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FOCUS ON SUPPLY CHAIN PYTHAGORAS PROJECT: ASSIST PLANNERS IN OPTIMIZING STORE REPLENISHMENT STRATEGIES



LIVE IN JUNE 2019

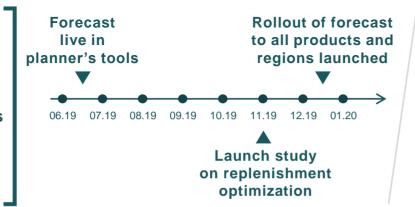
What?

- Assist planners in optimizing product quantities to ship to stores in order to reduce inventory shortages and overstocks
- Start with two categories in Europe

How?

- Develop a new Al-driven short-term sales forecast model and (as a second step) a replenishment-optimization model in close relationship with Gucci replenishment teams
- Integrate Al outputs in existing planning tools

Key milestones



EXPECTED BENEFITS



INCREASED FORECAST ACCURACY

- ~20% more accurate on one of the categories
- Forecast "Newness" products with no historical data
- · Maximize sales at full price
- · Maximize gross margin



LOWER RISK OF INVENTORY SHORTAGES OR OVERSTOCK

Thanks to an improved reaction to market variability, in particular for items with a few weeks of historical data



SMOOTHER PROCESS

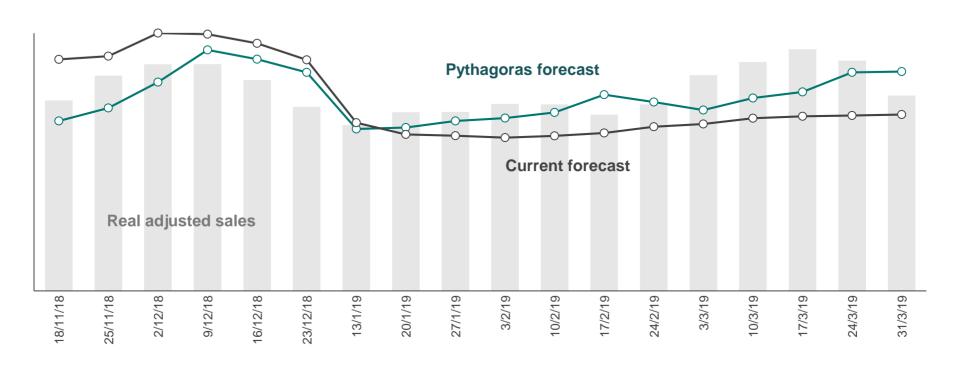
Thanks to a more reliable forecast and simplified validation tool



PYTHAGORAS RESULTS ARE VERY ENCOURAGING

FORECASTS VS. REAL SALES COMPARISON

PRODUCT CATEGORY A, EUROPE



IMPROVEMENT IN SALES FORECAST ACCURACY
OVERALL PERIOD

+20%



FOCUS ON PRICING PROJECT: FIND THE OPTIMAL MARKDOWN LEVEL

OBJECTIVE: LIVE IN H2 2019

What?

- Find out the optimal markdown level for each product
- Start with women's and men's shoes in Europe for new 2019 Fall season

How?

- Develop new Al-driven price-sensitive sales forecast model
- Develop a pricing optimization model

First results & next steps

- Promising results for the sales forecast: high accuracy, although some outliers need to be understood
- Price sensitivity analysis: forecasts are dependent on prices and this sensitivity is variable across products
- We are running optimization methods to find the best combination of discounts

EXPECTED BENEFITS



HIGHER SALES



HIGHER GROSS MARGIN



OPTIMIZE WORKING CAPITAL



PROTECT BRAND EQUITY



BEYOND SUPPLY AND SALES, WE BELIEVE THAT AI WILL HAVE A WIDE IMPACT ON A LARGE RANGE OF KERING ACTIVITIES



LEGAL

- · Counterfeit detection
- Trademark tagging on product images



MEDIA

· Media spend optimization (precision marketing)

AL CAPABILITIES

Planning & Optimization

Machine Learning

Image Recognition

Language Processing

Machine Vision

Expert Systems

Used for current projects

Being assessed for future projects



— CUSTOMER SERVICE —

- · Inbound message ranked by priority
- Personalized e-mail proposition

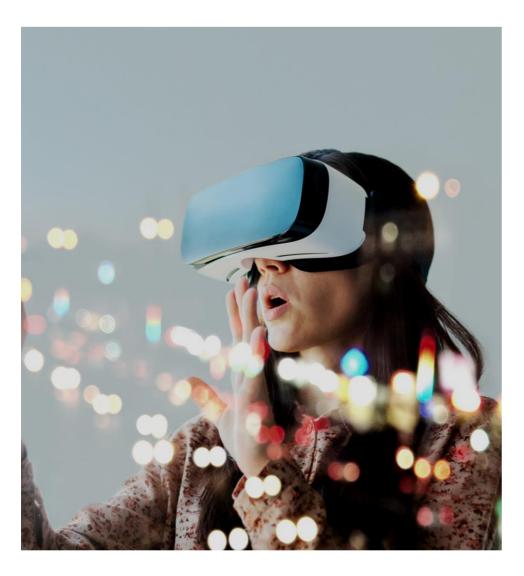


TALENTS

- · Resume screening
- Employee churn prediction
- · Career path counselling



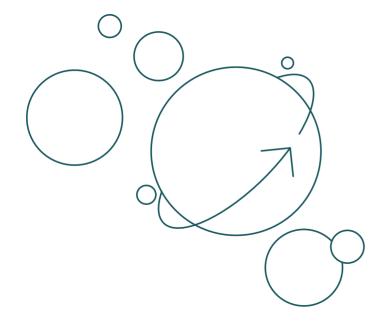
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INNOVATION AT KERING

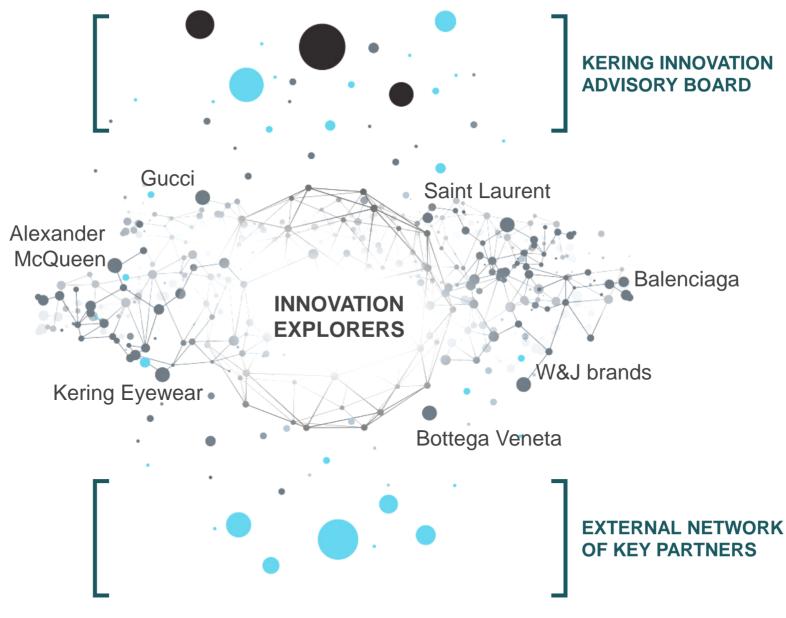


- OUR MISSION -

- Have a 360° view of key innovation trends
- Prioritize key disruptions
- Drive value by integrating disruptions into our business (through proof-of-concept and investment)



INNOVATION GOVERNANCE



INNOVATION ROADMAP

1 DISRUPTIONS
IMPACTING OUR
BUSINESS MODEL

MATERIAL DISRUPTIONS

NEW BUSINESS MODELS

New ways to consume luxury (e.g. subscription, second hand, rental)

New ways to engage with consumers

TECHNOLOGIES
IMPROVING VALUE
TO CUSTOMERS
& OUR PERFORMANCE

IN-STORE / ONLINE / CLIENT SERVICES

In-store: Technologies to augment Client Advisors

Online: Technologies to improve user experience and drive more conversion

Client services: Al-based technologies to augment Client Services Advisors and improve performance and monitoring

3 ENABLERS

INNOVATION ECOSYSTEM SET-UP

Partnership with Venture Capitalists

Start-up scouting

TECH SCOUTING

Blockchain

Voice / Chatbot

Image recognition

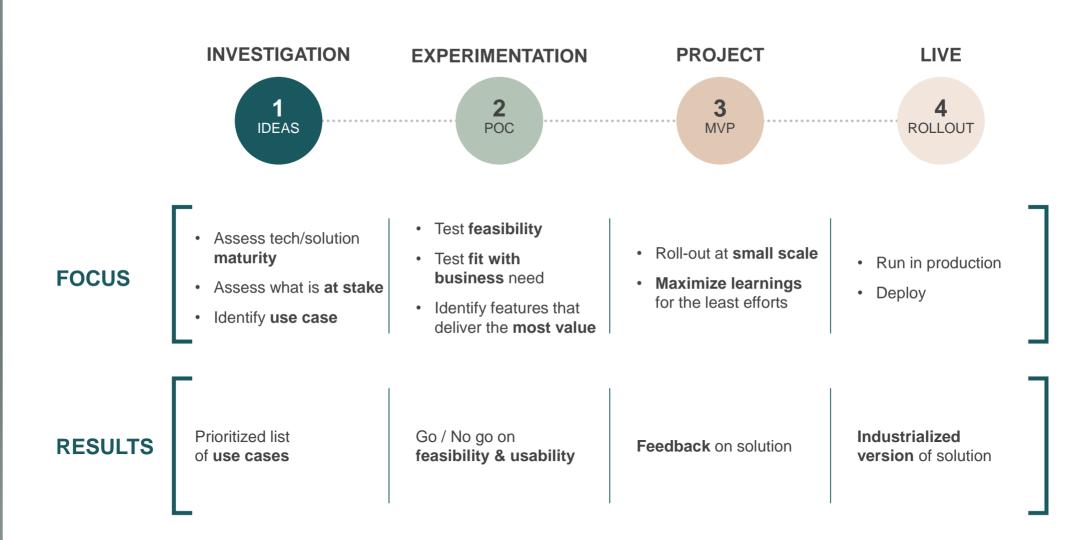
INTRAPRENEURSHIP / CULTURE

Idea crowdsourcing

Co-design

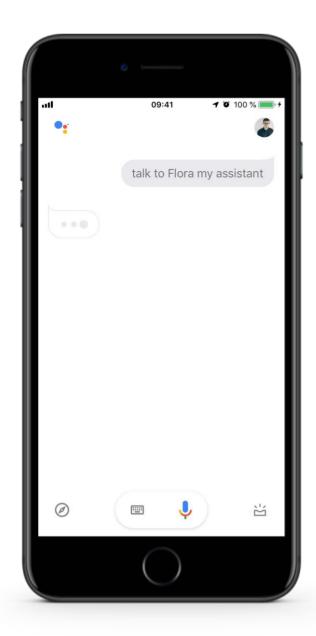


INNOVATION FUNNEL



Note: POC: Proof of concept / MVP: Minimum Viable Product

RETAIL VOICE ASSISTANT





- TOPIC -

Voice & Text assistant to help Client Advisors with retail procedures in order to maximize selling time on the sales floor

BENEFITS FOR THE USER -

- Save time: Get an easy and immediate access to complex procedures
- Better serve: Provide answers on after sales cases without leaving the customer
- Better train: Facilitate the training of new hires

- APPROACH -

- · Small-scale field experimentation to test in quick, agile way
- Technology: Natural Language Processing
- KPIs: Understanding / Accuracy / User experience
- Next step: Deploy in additional stores and add new languages

BLOCKCHAIN USES CASE BEING EXPLORED



Blockchain: early stage technology but high disruption potential

Various projects in progress to test where Blockchain brings the most value

Agile approach to enable:

- Quick test-and-learn
- Iterative development
- Client/Partner feedback at small scale early on in the process

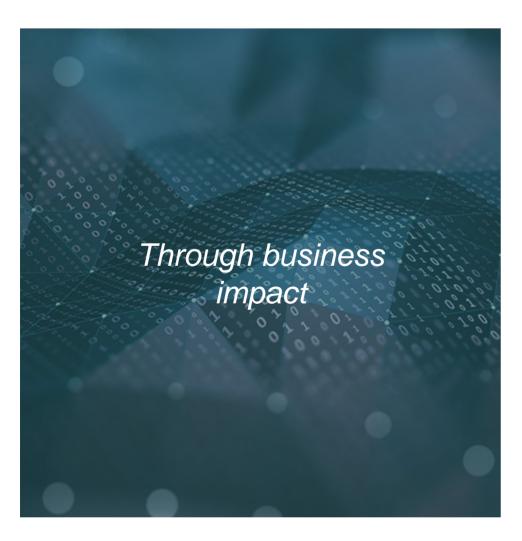
- AUTHENTICATION AND OWNERSHIP -



TRACEABILITY & EFFICIENCY



HOW WILL WE MEASURE OUR SUCCESS?





World-class ecosystem accelerating innovation vision and projects at Kering Houses



POC or MVP run with proven positive impact on business practices



Deep expertise serving Kering Houses for a particular project

