

Competitive Intelligence Driven By AI

Course5 Compete – Enterprise Competitive Intelligence Platform

Centralized and integrated platform to enable brands and retailers to strengthen their competitive market strategy and digital footprints and unlock additional value creation

Business Challenges Addressed



Respond to market conditions & disruptions



Build competitive marketing & sales strategies



Increase conversions, sales & profitability



Enhance customer experience & brand perception

Course5 Compete Modules

Market & Competition Sensing



Leverage personalized and real-time insights from a variety of data sources through a centralized platform with enhanced collaboration capabilities, thus driving competitive advantage

Digital Shelf



Drive sales and improve profitability, with near real-time and in-depth insights across the competitive landscape on Product, Pricing, Promotion & Place

Brand Experience



Enhance Customer experience and strengthen brand perception, with in-depth custom and curated insights on customer opinion and product content

Business Impact



Curated & Custom Insights



Practicing CI at Speed & Scale



Collaborative (Sales & Mktg teams) Decision-Making



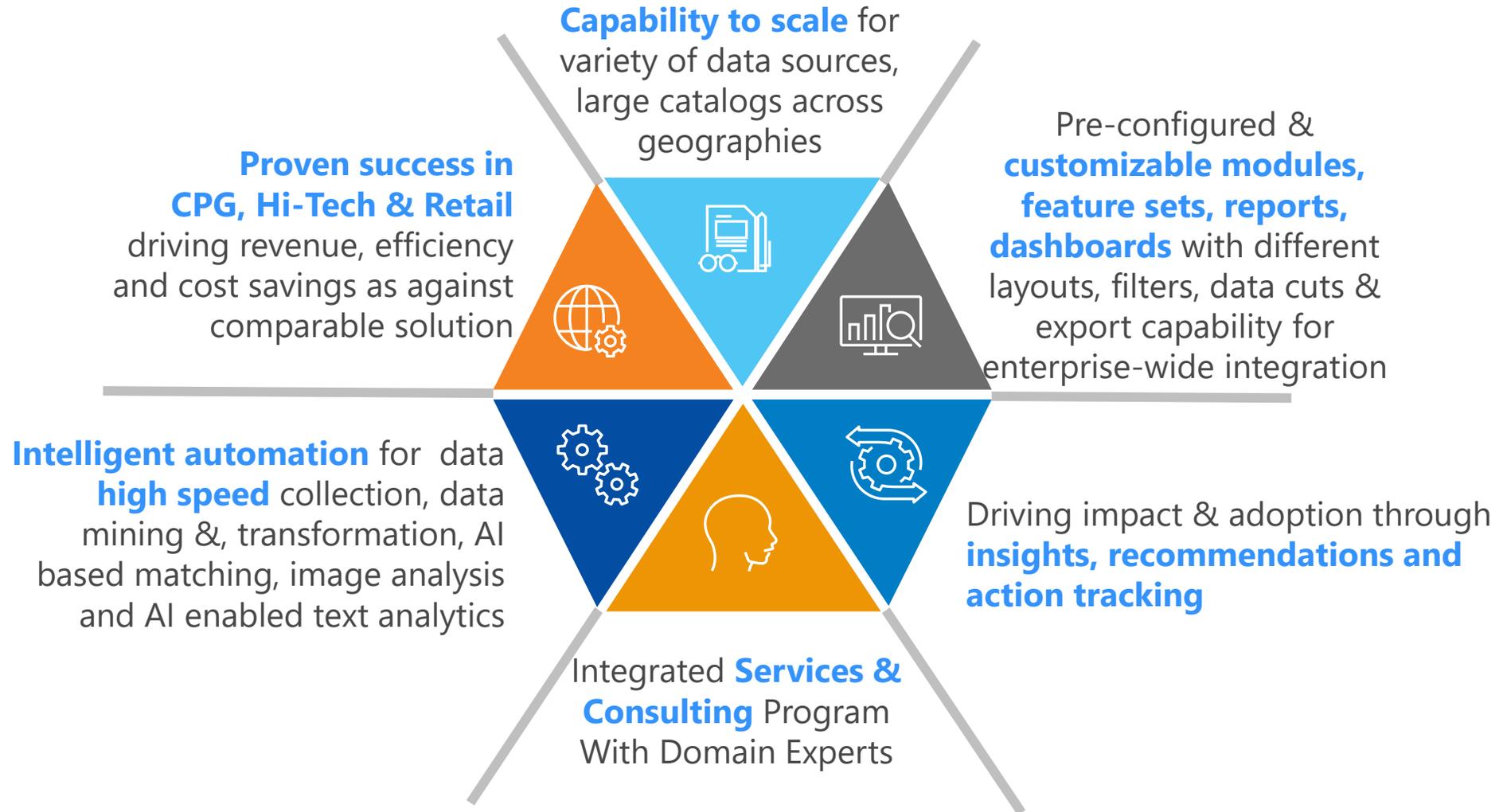
Maximised ROI

Course5 Compete Overview

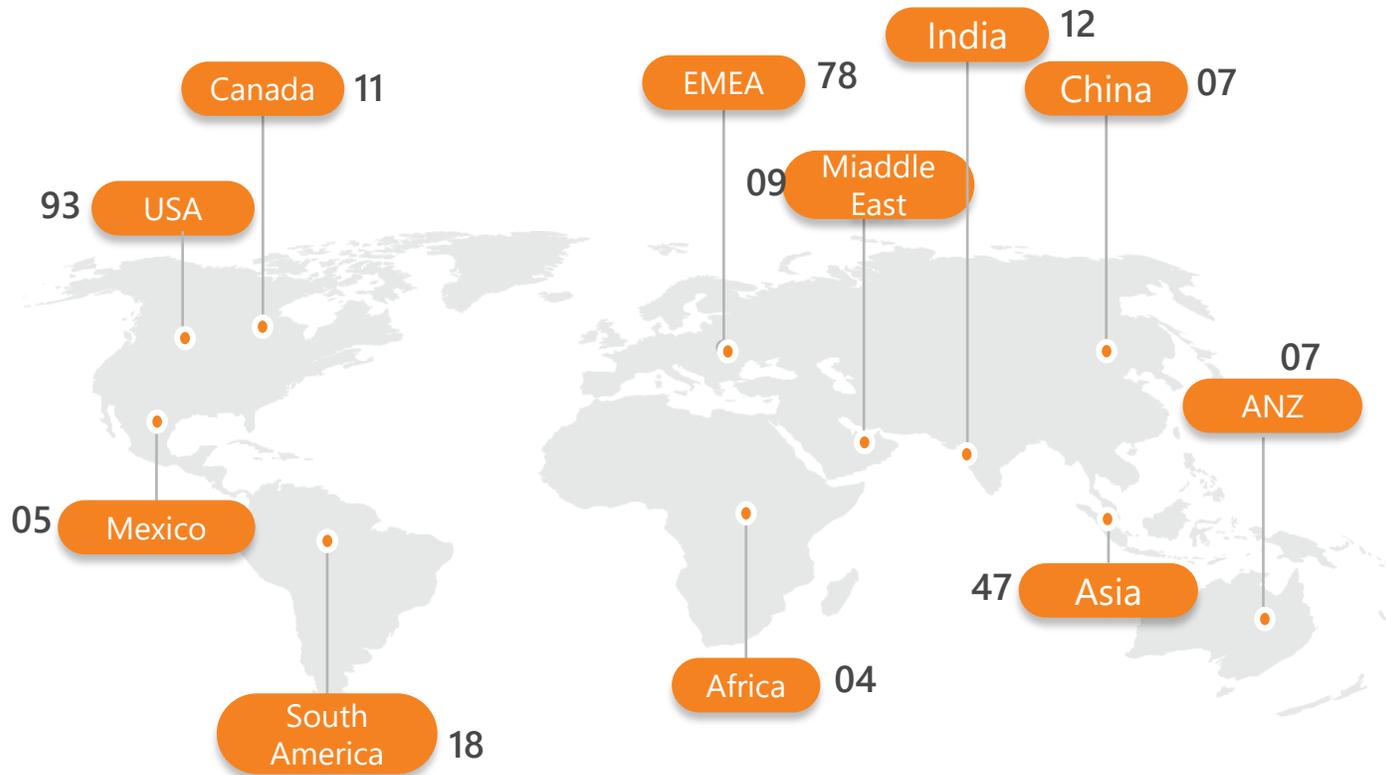
Key Components



Why Course5 Compete



Course5 Compete – Size & Scale



Types of Data Sources

- News & Blogs
- Social Channels
- Industry Portals
- Brand Sites
- OEM Sites
- E-Retailers
- Marketplaces
- Aggregators
- Review Sites
- Comparison Sites
- APIs / 3rd party sources
- Mobile Apps

Variety Of Data Types

- Home Page
- Behind Login
- Captcha Protected
- Product Listing / Details
- POS Bundles / Offers
- ZIP Code Wise
- Search Results
- Review Pages
- Promo Landing
- Store Aggregator Pages
- Native App Stores
- Seller Stores

300+
Websites

~30
Countries

16
Languages

30+
Categories

1.5M
Product
SKUs

800K
Attributes

3K
Market
Data
Sources

100+
Business
Data
Types

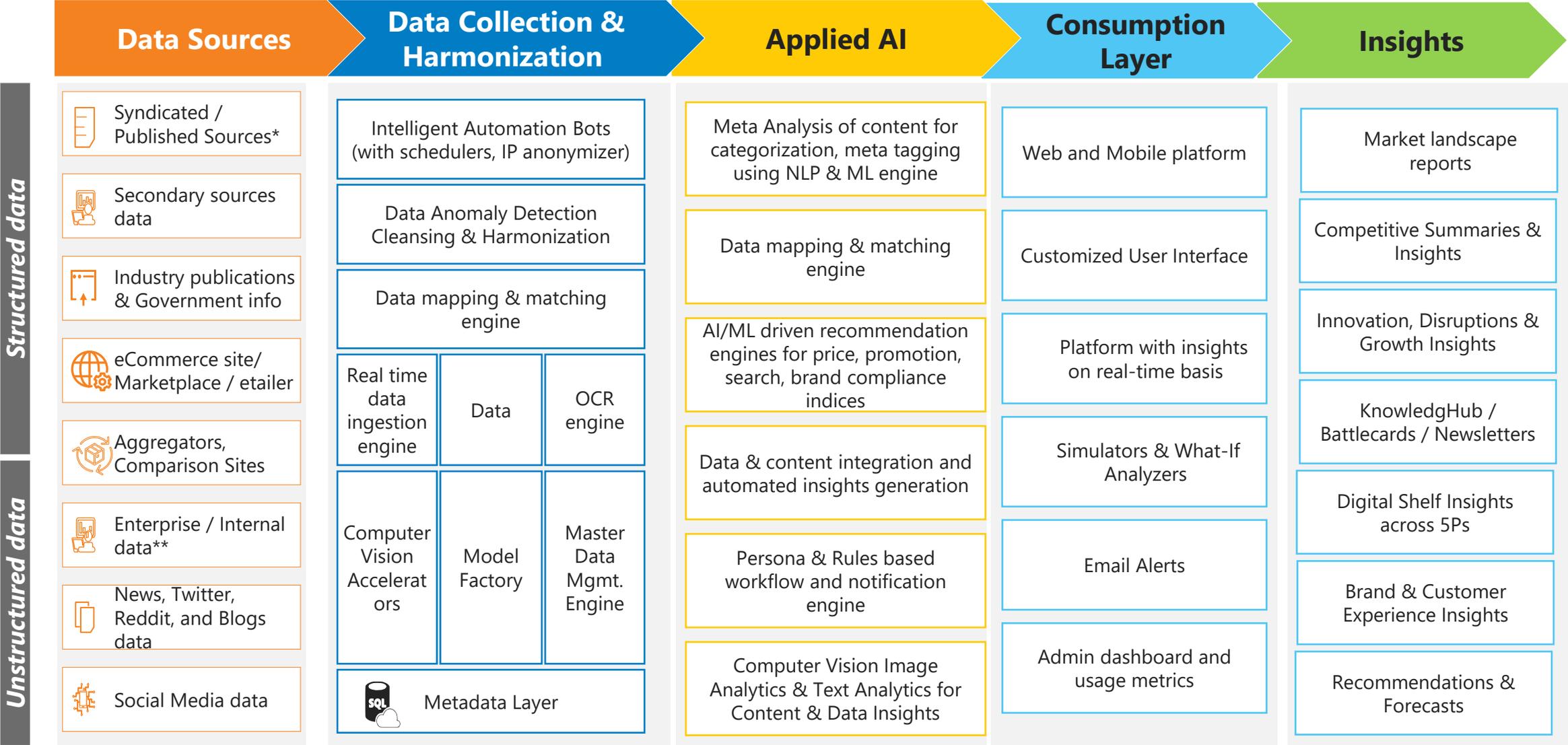
200+
Indices
Dashboard

98%
Data
Coverage

96%
Data
Quality

95%
SLA
Adherence

Course5 Compete – Platform Architecture



Product Configurator Experience

Admin Experience

Consumer Experience

Crawl Data Manager & Reconciler

Crawl Scheduler

Load Balancer

IP Manager

Crawl Nodes 1...N

Alerts & Notification Manager

Crawl Configuration

Data Configuration

Data Matching

Data Enrichment

Access Manager

Experience Manager (Personas & Views)

Business Configuration (Prod | Price | Brand | VOC)

AI / ML Engine

Data Engine

Text Engine

Image Engine

Rules Engine

ETL Engine

Data Access Layer

Enterprise Integration (CRM | eCom | ERP | Social)

Raw Crawl Data

Enriched Data

Match Data

MDM

Analytical Models

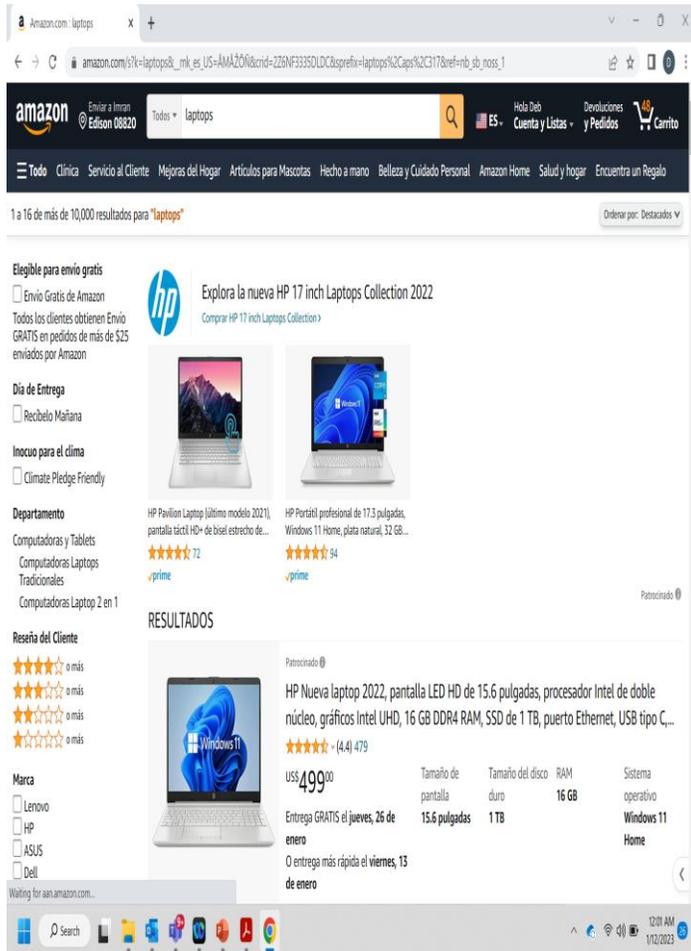
Implementation DB (Client wise)
Configs, Rules, Views, Match Data, Raw Data, Integration, Logs

Integration Data

Historic Data

Core Component – Data Harvesting Engine

Retailer Websites



The screenshot shows the Amazon website search results for 'laptops'. The page features a navigation bar with the Amazon logo, user account information, and a search bar. Below the search bar, there are filters for 'Elegible para envío gratis', 'Día de Entrega', 'Inocuo para el clima', 'Departamento', 'Reseña del Cliente', and 'Marca'. The main content area displays several laptop listings, including the HP Pavilion Laptop and the HP Portátil profesional. A detailed listing for the HP Nueva laptop 2022 is shown at the bottom, with specifications such as 'pantalla LED HD de 15.6 pulgadas', 'procesador Intel de doble núcleo', 'gráficos Intel UHD', '16 GB DDR4 RAM', 'SSD de 1 TB', 'puerto Ethernet', and 'USB tipo C'. The price is listed as \$499.00.

Data Collection Challenges

- Multiple Website Types & Apps
- Multiple languages
- Different page structures
- Different technology
- IP based localized content
- Access restrictions / blocking
- Continuously changing structure
- Data volume
- Multiple data formats
- Content Quality / Anomalies

Compete Data Harvesting Engine

- Setup for individual retailer website
- Algorithm driven structure detection
- Data access using 4 unique methods
- Multi-node server architecture
- Localized IP through VPN
- Rotating IP for prevention of access block
- Multi-server setup with load balancing
- Intelligent data quality module configured per retailer

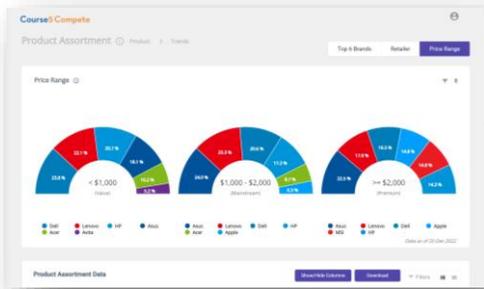
Quality Control Measures

99% quality* maintained based on key process controls. Automated check through ETL and other Quality Assurance checks to improve ingestion governance & deal with uncertain website changes



*Dynamic website changes and technical issues on website might have failure on 1 / 500 data ie. < 1%

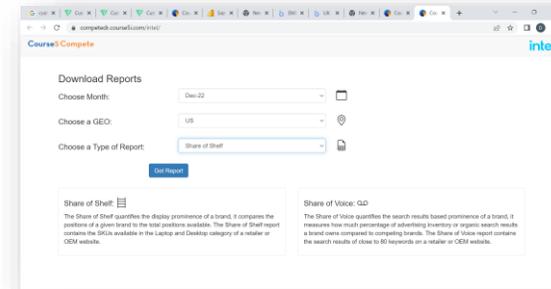
Different Deployment Options



Compete Platform
Configured With Base
Features & Standard
Algorithm



Custom Dashboard +
Data Provisioning For
Custom Analysis



Custom Data Download
As Per Target System
Requirements



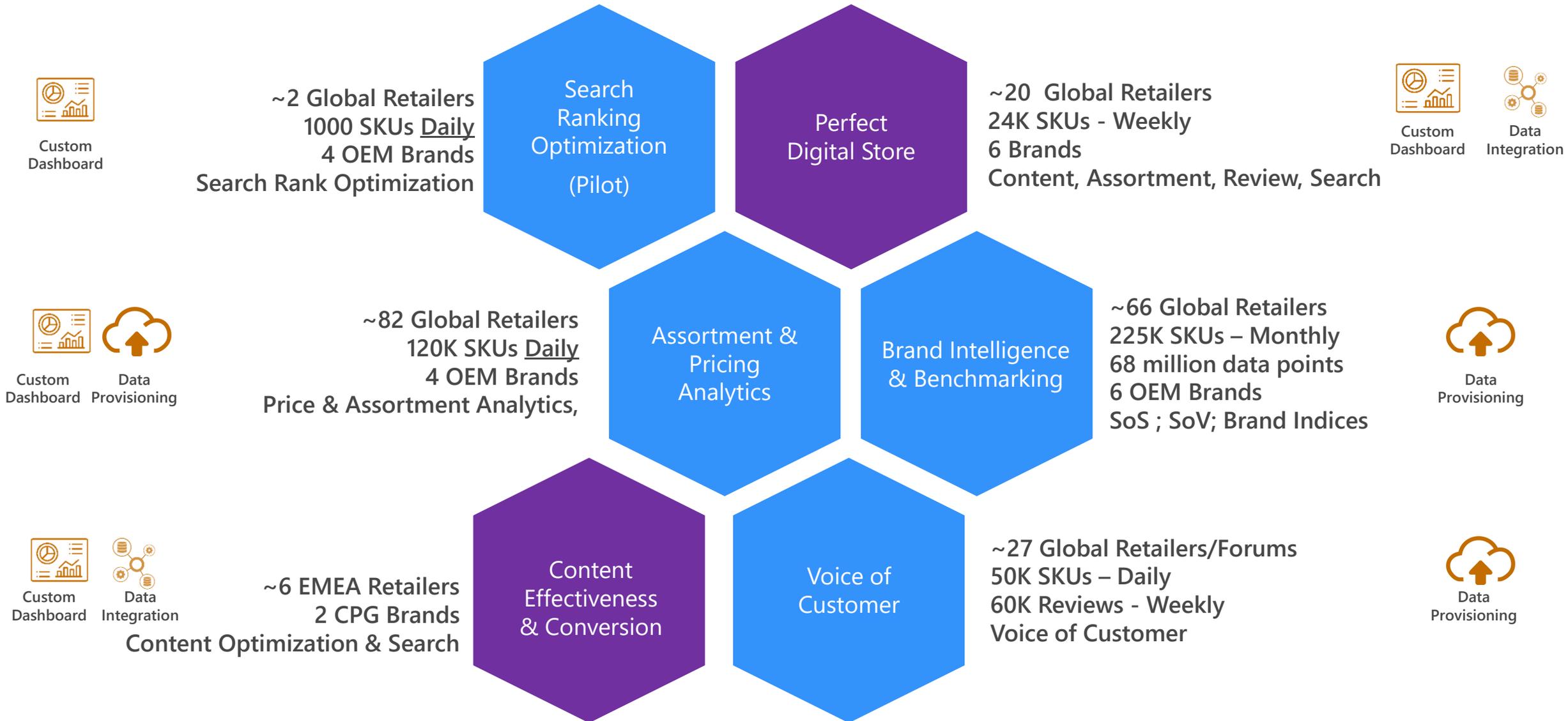
Data Provisioning Only
In Target DB or
Internal Systems

Options selected by client depending on

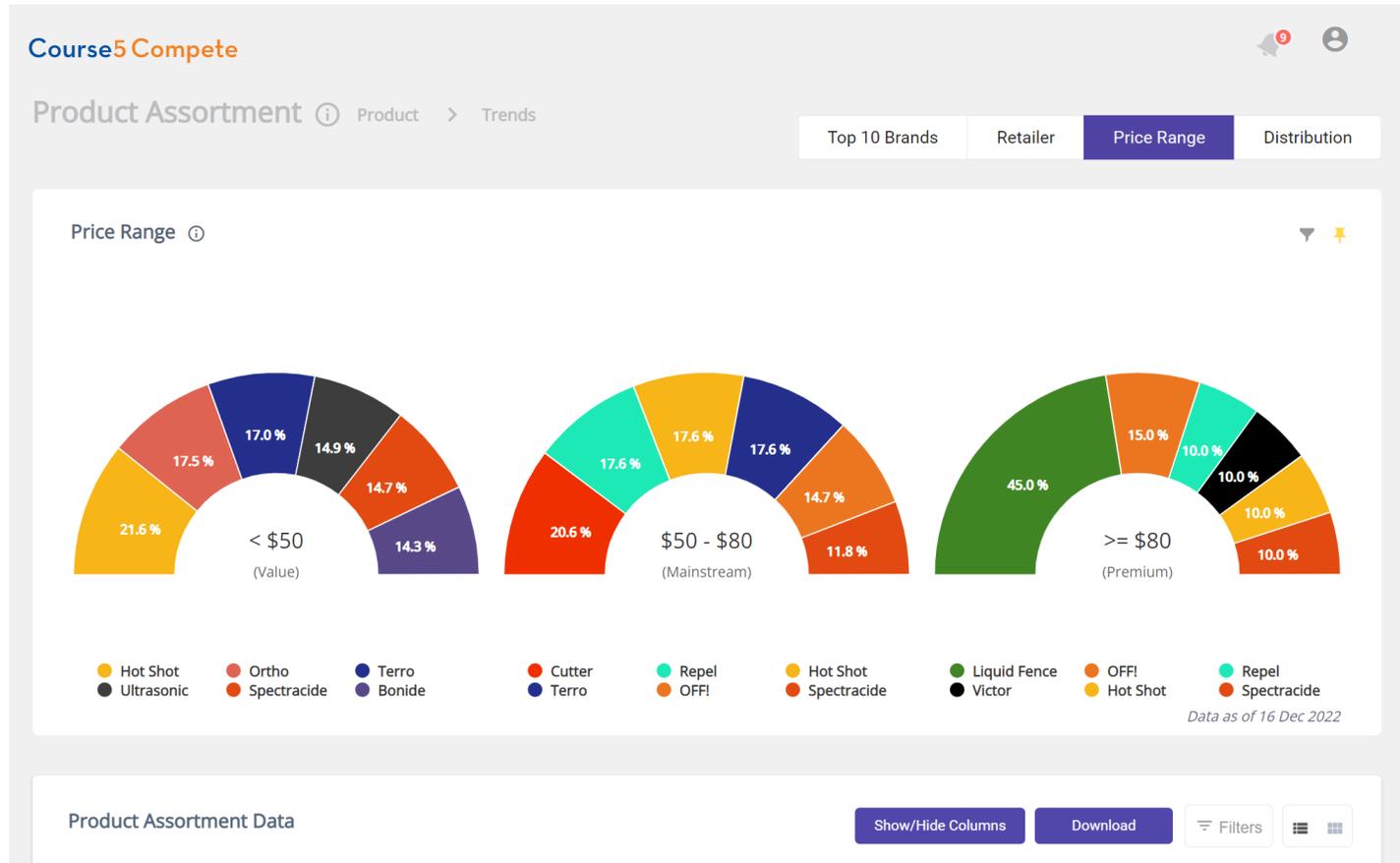
- Specific data requirements
- Custom algorithm and scoring
- Data format and ingestion needs
- Data integration needs at client end
- Data security & confidentiality

In most situations Compete platform can be fine tuned and customized for client specific implementation

Where Course5 Compete Performs (in the field today)



Course5 Complete - Platform Demo





Use Cases

Use Cases



Course5 Compete - Market & Competition Sensing

Key Features

Industry trends and activities:

Industry happenings analyst commentary, expected future trends, consumer habits and perceptions

Company Tracking:

Market Tracking/Updates of the portfolio companies

Key Product and Business Updates:

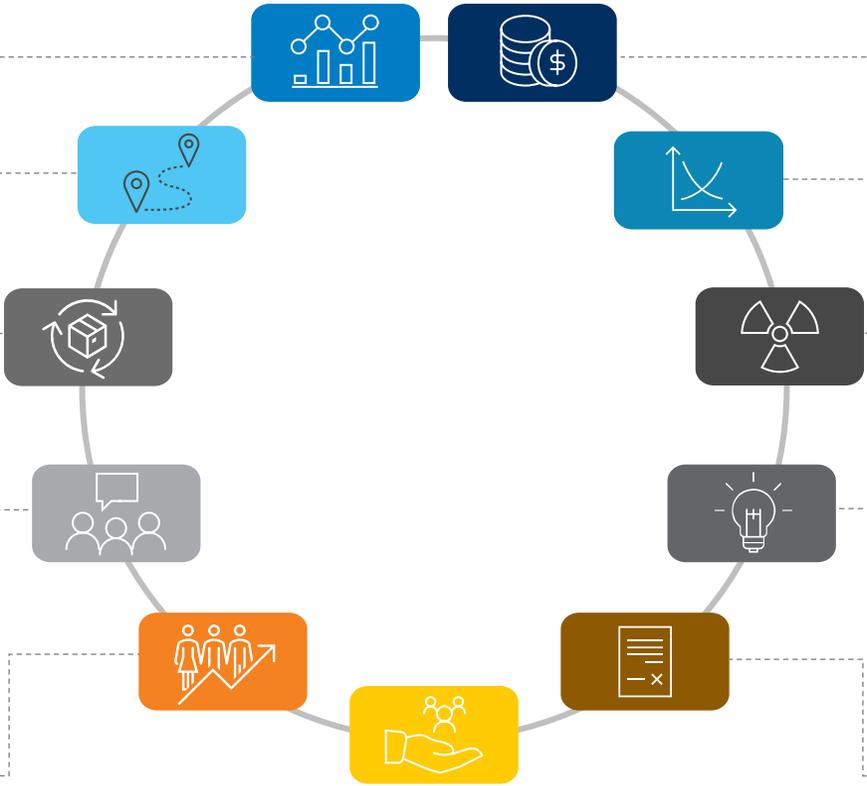
New product launches/updates to existing products

Rumours /Speculations:

New product updates and discovery, rumours and speculation on products

Competitive Activity/Partnerships, M&A:

Activities of major players and upcoming start-ups, key business updates, important partnerships and acquisitions



Financials

and any other key critical business information

Supply side-Demand side:

Trends in the value chain, supplier activity

Country specific risks:

Government initiatives and risk analysis/assessments

Disruptions and innovations:

Tech disruptions and innovation trends, patent monitoring,

Regulatory/Legal Activity:

Policy monitoring, Industry Regulations and Legal news

Executive moments/hiring patterns:

Executive hiring trends indicating company and industry focus areas

CASE STUDY : Course5 Compete – MCS for a Semiconductor Giant

Objective



The state of competitive tracking within the client organization was a people-driven, decentralized process. They were having challenges with their approach, including information overload from multiple sources and data duplication. Hence, the client needed a centralized system for tracking, alerting, action-ing and generating insights on the competition using digital data

Solution



- Data harvesting/scrapper bot collects data from ~800 news sources, ~700 blogs, and data coming dynamically from forums, Reddit channels, and influencer and organization Twitter handles frequented by tech audience
 - Automated data cleansing, deduplication, and showcasing of prioritized and relevant content - supported by AI/NLP capabilities
 - Near real-time insight and alerts generation and trend monitoring
- Allows for collaboration between curator and stakeholder
- Customized consumption medium for different formats: Dashboards, Alerts, Presentations, and time frequency – Daily/Weekly/Monthly



Business Impact



- **Reduction in information overload** from multiple sources due to access to a single repository of data for perusal
- **85% Reduction in time taken to gather data**
- Quick data anomaly discovery and **removal of 30% irrelevant content** per month
- **22% Increased collaboration** on single platform in lieu of multiple media
- **20% faster decision making** due to quicker access to relevant information

Course5
Transformative Intelligence

Digital Community Tracking

Curator

Filters

Technology

Time Period

Competition

Publication

Geography

Apply

Reset

Forward

Assign

News

Twitter

Reddit

Sort by

Click on News/ Twitter/Reddit tabs to view the data

OnePlus 9 with support for wireless charging is expected to launch in March next year

Thursday, October 22, 2020 5:48 AM

...likely to leverage Qualcomm's upcoming 5nm chipset. Furthermore, it could also sport IP68 water resistance, wireless charging, and camera upgrades. According to a report in Techradar, usually OnePlus allows flagships from Samsung, Oppo, LG and Xiaomi launch their devices in the first quarter of the year before catching up in the following months...

#PC Category #Mobiles & Tablets #Qualcomm #Google By Firstpost

Streaming service Quibi to wind down operations six months after launch

Thursday, October 22, 2020 5:43 AM

Streaming service Quibi said on Wednesday it intends to wind down its operations and start a process to sell its assets, just six months after its launch. The announcement highlights the dominance that Netflix, Amazon's Prime Video, Disney+ and Apple TV+ hold over smaller streaming service providers, which struggle to keep up against their large...

#Mobiles & Tablets #Gaming #IOT #Apple By Indiatimes

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Click on the Next page to scroll through the data

CASE STUDY : Course5 Compete – MCS for a Leading PC Manufacturer

Objective



The competitive tracking around “As-a-service” market was a people-driven and a decentralized process. They were having challenges with their approach, including information overload from multiple sources and data duplication. Hence, they needed a centralized system for tracking, alerting, take actions, and generating insights on the competition using digitally and socially generated data from communities, forums, news, blogs etc.

Solution



- Data harvesting/scrapper bot collects data from ~800 news sources, ~700 blogs, and data coming dynamically from forums, Reddit channels, and influencer and organization Twitter handles frequented by tech audience
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Business Impact



- **Reduction in information overload** from multiple sources due to access to a single repository of data for perusal
- **85%** Reduction in time taken to gather data
- **20%** faster decision making due to quicker access to relevant information
- Quick data duplication discovery and removal of **30%** irrelevant content per month
- **20%** faster in assigning and accessing the global data on as-a-service market

Course5
Transformative Intelligence

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#Mobiles & Tablets #Gaming #IOT #Apple By Indiatimes

1 - 25 of 5941

Click on the Next page to scroll through the data

CASE STUDY : Course5 Compete – Brand Visibility & Searchability

Objective



The client, largest microprocessor manufacturer, was intending to assess and measure brand visibility, share of voice with get clarity how consumers were perceived the brand and if retailers and OEMs are adhering to the committed content quality and visibility on their digital shelf.

Solution



Data harvesting bots collect product attributes from product listing pages across categories and perform site searches against 80 keywords on 20+ Retailer & 10+ OEM sites across US, CA, EMEA & ASIA.



Automated data cleansing, standardization followed by Text Analytics



Data for ~900K SKUs are analyzed every refresh for KPIs like %share of shelf & %share of voice and many others.

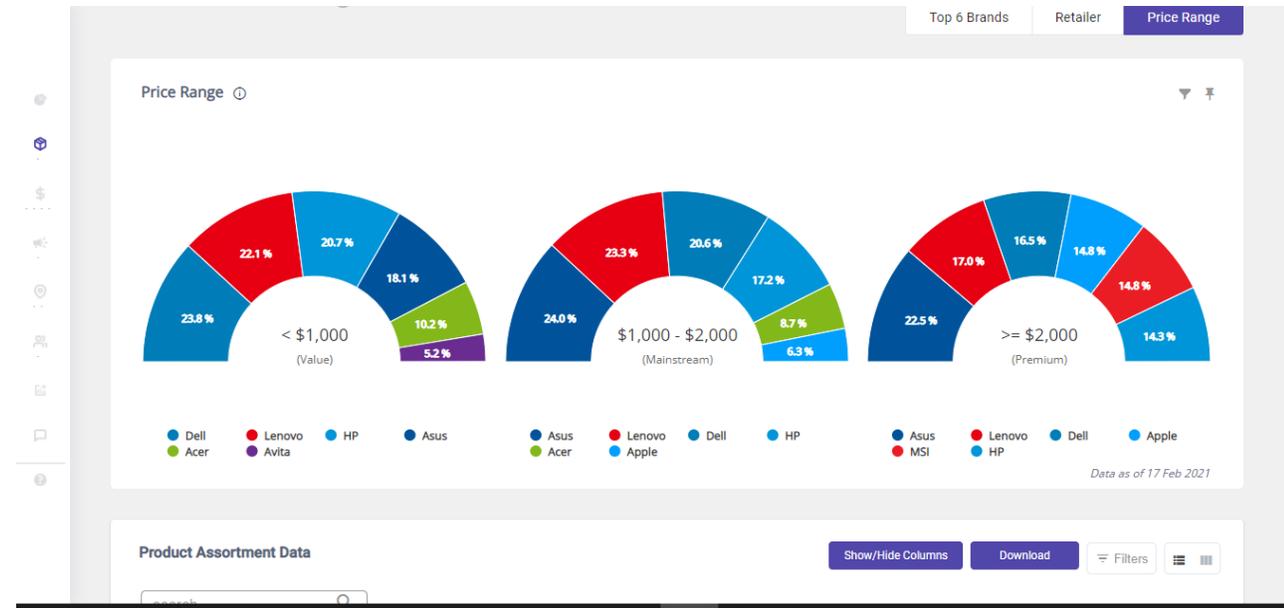


Trend analysis to indicate the movement of KPIs (visibility & searchability) of products; to drive marketing actions and content optimization initiatives

Business Impact



- ~8% increase in brand visibility in 3 months
- Average # of SKUs on top 2 search pages moved up by 17%
- Alerts in case of search rank of products with top marketing focus fell below thresholds
- Regular KPI tracking (searchability & visibility) across product categories, price bands, retailers and markets.
- Time to monitor, communicate and track visibility and share of search improved leading to higher # of refresh cycles.



CASE STUDY : Course5 Compete – Price Monitoring & Optimization Program

Objective



The client, one of the largest OEMs in Technology industry. They wanted to monitor daily price position across 8K SKUs of computer peripheral with accuracy and then make informed and prompt pricing decisions, to respond to the market with confidence and predictability. They wanted a solution that can scale to support lines of business in near future.

Solution



Data harvesting bots collect product information with all attributes, including prices, stock & promotion information from 50+ Retailers & 10+ OEM sites on 5 countries

Automated data cleansing, standardization followed by data matching, automated calculation of price indexes.

AI/ML based product matching across 20K SKUs of multiple brands/OEMs

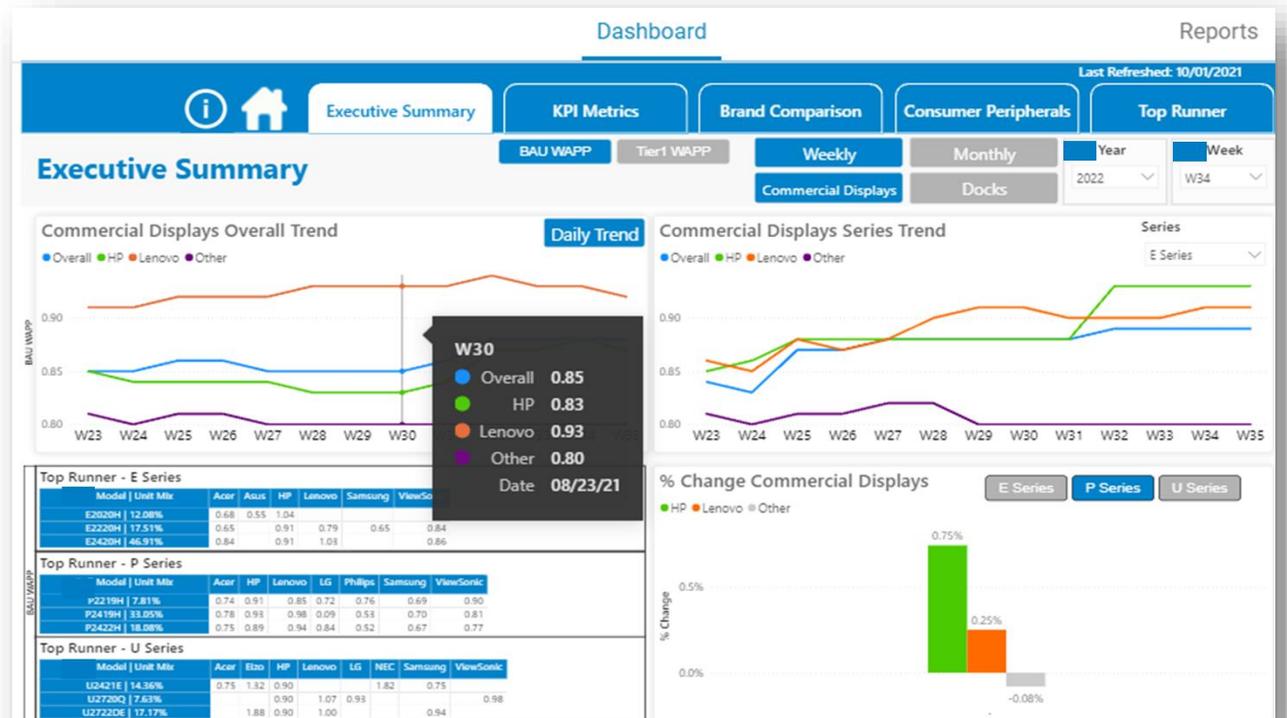
Near- Realtime detection and price changes, stock changes (Out-of-stock) and instant alert notifications for high velocity-volume SKUs

Historic price movements, competitive price indices, price anomalies, stock movement with various data cuts on single dashboard

Business Impact



- ~22% increase in accuracy of price information over previous solution
- Scope, Size & Scale of data increased by 66% over 2 years
- Improvement in quality, coverage and timeliness of data harvesting and analytics
- Time to monitor, communicate & action on product pricing, improved by ~15% with the help of central data store and interactive dashboard.



CASE STUDY : Course5 Compete – Brand & Consumer Experience Optimization

Objective



The client, largest microprocessor manufacturer, was struggling to establish a scalable data driven system and process to establish adherence to brand governance, increase brand visibility and improve consumer experience.

Solution



Data harvesting bots collect product content (title, description, image) and promotion banners from 20+ Retailer & 10+ OEM sites



Automated data cleansing, standardization followed by Text Analytics



AI based image recognition to detect brand logo and brand content and detect anomalies.



Rule based brand compliance scoring and reporting brand dashboard.

Historic brand score reports published as newsletter to track retailer / OEM performance

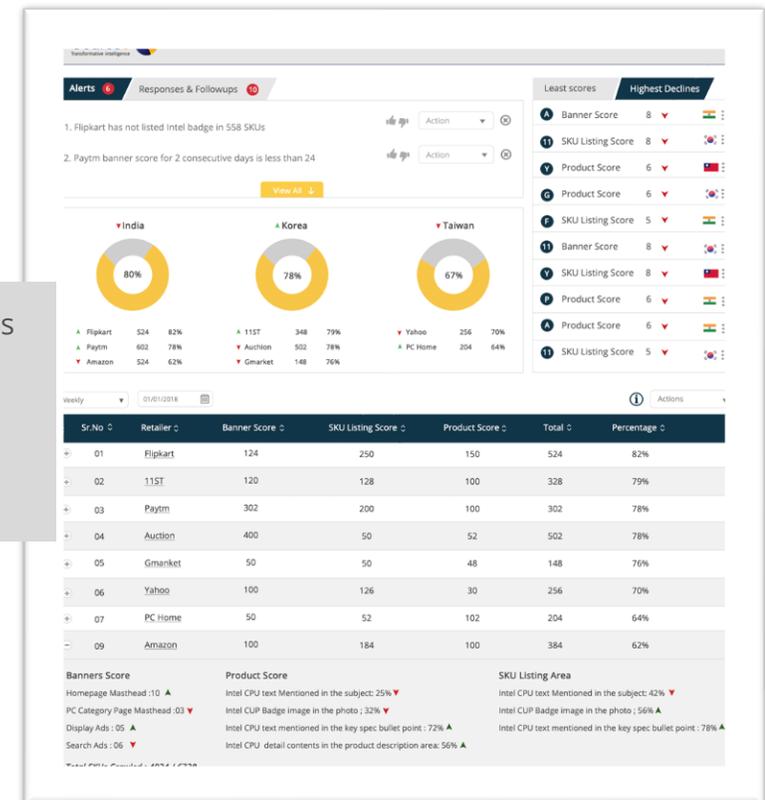
Business Impact



- ~**27% increase in brand compliance** & brand hygiene KPIs
- **12% reduction** in market development cost (spent for brand value protection across retailers and OEMs)
- Improvement brand visibility and consumer experience
- **Time to monitor, communicate and track** brand guideline adherence **improved by 15%**

Brand Experience Dashboard

Merchandisers use this to track and assign fortnightly targets to retailers and OEMs for improvement in brand guideline adherence



Thank you



AWARDS & RECOGNITIONS



Gartner [®]	Market Guide for Marketing & Competitive Intelligence Tools For Technology & Service Providers	January 9th, 2023
FORRESTER [®]	Market And Competitive Intelligence Platform Landscape, Q4 2022	November 22nd, 2022
Gartner [®]	Market Guide for Digital Shelf Analytics	November 15th, 2022
FORRESTER [®]	Now Tech: Market and Competitive Intelligence Platforms, Q1 2022	January 18th, 2022
Gartner [®]	The Gartner Digital Commerce Vendor Guide, 2021	April 14th, 2021
FORRESTER [®]	New Tech: Market And Competitive Intelligence (M&CI) Solutions, Q1 2019	March 7th, 2019
SCIP	Minerva is now officially a “SCIP Endorsed Product”	2017
PIM	Minerva wins ‘Emerging Analytics Product Startup of the year’ at CYPHER 2017	2017