# THE FUTURE OF MEDIA AND RETAIL MEASUREMENT

How Nielsen Evolved into an Al-First Company

Mainak Mazumdar Nielsen, Chief Research Officer

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#### MEASURING WATCH & BUY

#### TOTAL AUDIENCE

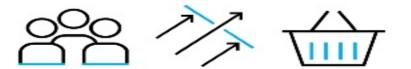


#### Content and Ads Ratings for:

- Who is watching (demo, target)
- What (Sports, news)
- Where (in/out of home, devices
- When (time of day)
- How much/ many (frequency, reach)

Measurement in 59 countries

#### **TOTAL CONSUMER**



Retail sales measurement, advanced analytical capabilities:

- Market share
- Price, volumes
- Loyalty
- Analytics (pricing, promotion, assortment)

Measurement in 100+ countries



# LONG-TERM, BEST-IN-CLASS CLIENT BASE



FOR MORE THAN 90 YEARS, WE HAVE BEEN AT THE FOREFRONT OF MEASURING CONSUMERS AROUND THE WORLD, HELPING CLIENTS DRIVE BETTER BUSINESS DECISIONS AND PROFITABLE GROWTH OVER TIME

#### BUY MARS P&G Nestie. Walmart : RECKITT BENCKISER KRAFT **P** 联华超市股份有限公司 OXXO Johnson Johnson Unilever Carrefour























# **AI-FIRST STRATEGY**



Cloud, Open Source, Mobile



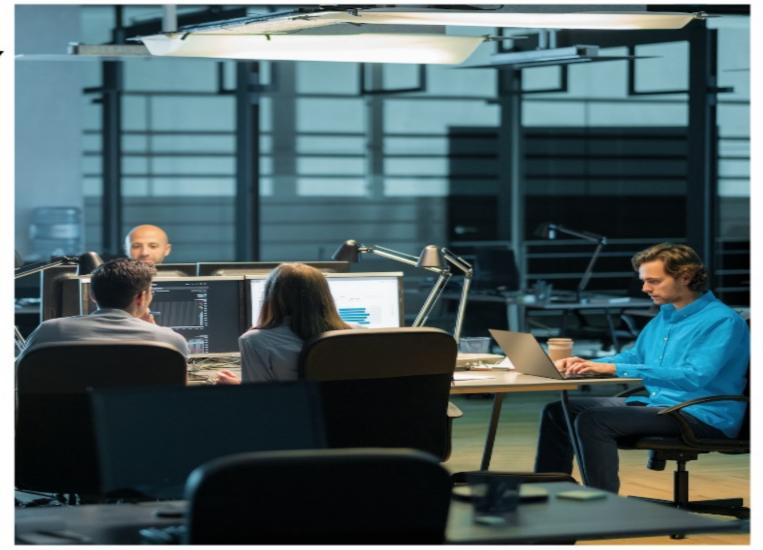
>> Digitization of Data Collection >> Data Enrichment >> Delivery



Prioritize Nielsen labeled data advantage

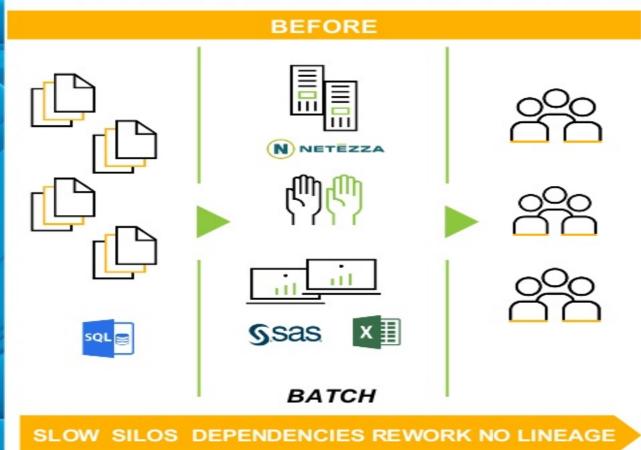


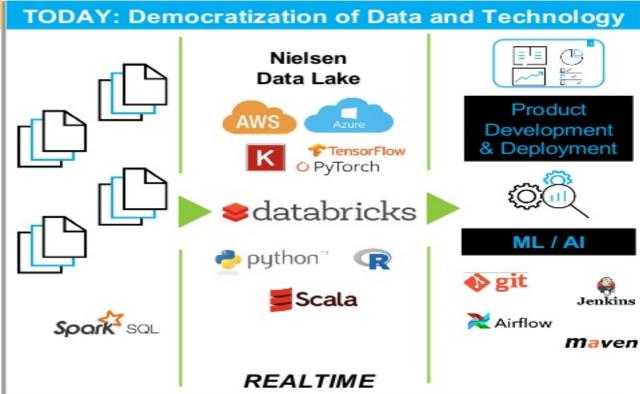
Solve business processes and client need with Al



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# DATA SCIENCE TRANSFORMATION

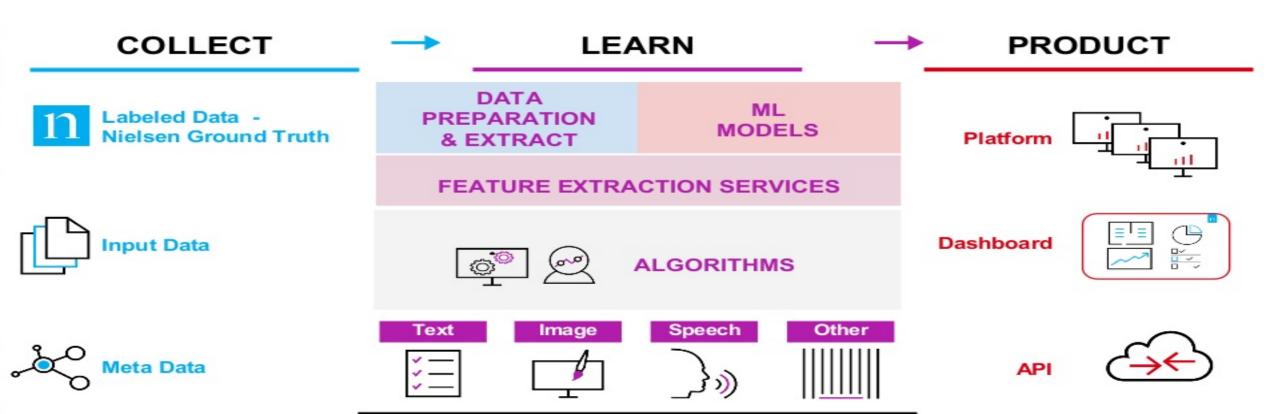




PERFORMANCE COLLABORATION SCALE



## DATA SCIENCE PIPELINE





## WHY DATABRICKS AND BUSINESS RESULTS

- Speed, scale, performance
- Self-service cluster management & democratization of Spark
- Excellent Python support
- Collaborative notebooks, less code rewrites
- Full suite of tech ETL on steroids to ML (ML flow)
- Accelerating unification of data science and engineering





#### PATTERN RECOGNITION



Model household characteristics from viewing behavior



#### VIEWER ASSIGNMENT

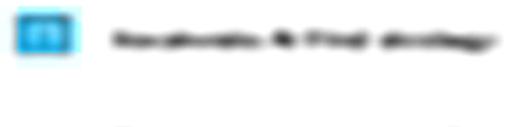


Model who is watching media from behavioral and event data 1 week to



# <Spark>ed a cultural change

# WHAT'S NEXT







# nielsen

THE SCIENCE BEHIND WHAT'S NEXT TM

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