

# Agenda

Welcome

Technology update

**Experian Health** 

Latin America regional overview

**Consumer Information North America** 

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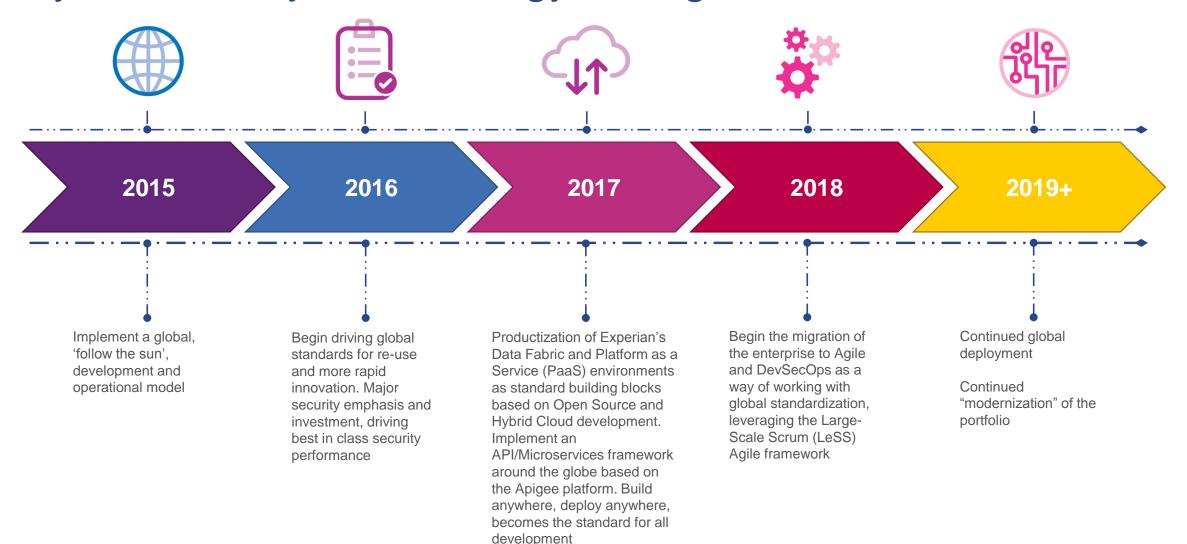
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## 4 years of major technology change







## Benefit for customers

- 1. High level of confidence in Experian's ability to keep its data secure.
- 2. Increase in the release of innovative products such as Ascend, Boost, and modernized bureaus, e.g. Colombia and India
- 3. Ability to run applications in any cloud, public or private, as well as incorporate customer data regardless of location, leveraging technology such as AWS Direct Connect
- 4. Increased application reliability based on newer hardware as well as newer architecture
- 5. Flexibility in how customers consume data, including API data access as well as programmatic access



## Security, a closer look

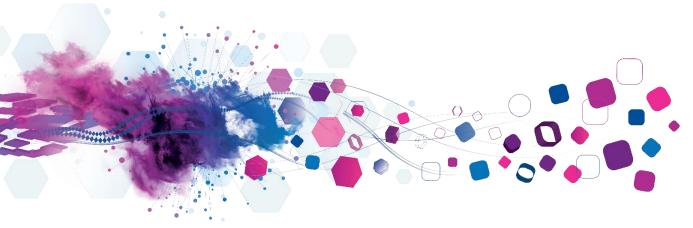
- 1. We have a multi-tiered approach to security:
  - Prevention stopping bad actors from entering the estate
  - Detection knowing if a bad actor has entered the estate
  - Mitigation minimizing a bad actor's ability to extract anything of value if they do enter the estate
- 2. Global Security Operations Center (SOC) coverage with 'follow the sun' capabilities, based in the US, UK and Malaysia
- 3. Major emphasis on automation and tools to improve efficiency, speed and efficiency
- 4. Move to DevSecOps increases the velocity of development while ensuring a robust security discipline is followed





# Deployment and development strategy

- 1. Applications can be deployed into any operating environment including, but not limited to:
  - Any public cloud AWS, Azure, GCP, Oracle Cloud
  - On-prem in the customer's data center, in an Experian data center/private cloud, in a co-located facility
  - Hybrid Any combination of the above (via Docker containers and orchestration)
- 2. Applications can combine Experian and customer data seamlessly while maintaining confidentiality
- 3. Code is developed using Experian's PaaS environment based on OpenShift to drive consistency, re-usability and portability
- 4. Code is deployed using containers to facilitate scaling and portability





## By the numbers

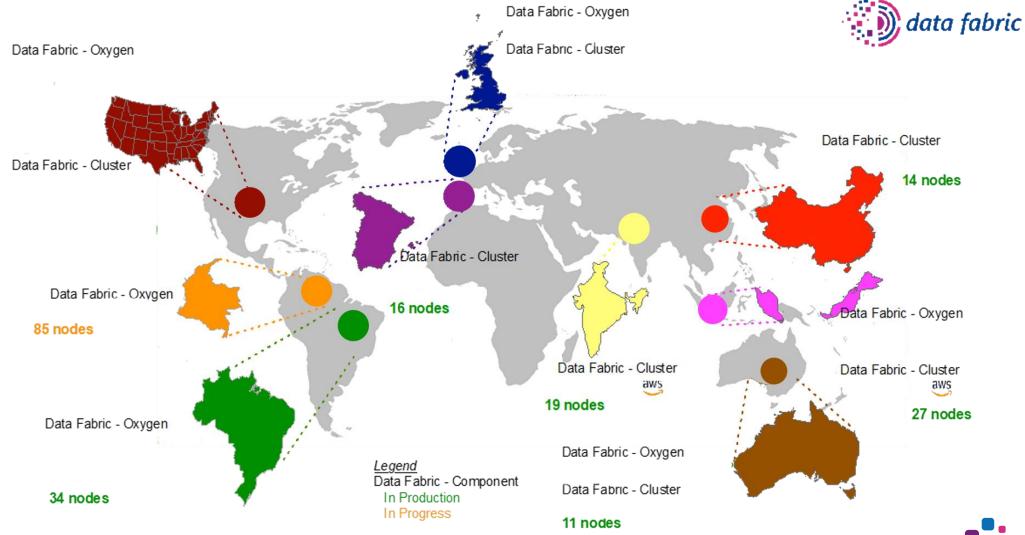
We typically deploy 20,000+ containers a day. From an overall metrics perspective, this is leading-edge and dramatically accelerates application testing by creating multiple test environments that are ephemeral. This reduces testing time from hours to minutes.

We are operating one of the largest global Kubernetes development clusters in the world with over 12TB or RAM. Running a single global cluster provides both financial and operational efficiency. Over a third of Experian's software developers are now doing 100% of their work using the Platform as a Service (PaaS) environment, which we call AppCanvas. By the year end, we expect more than half of our developers to be up and running on AppCanvas.

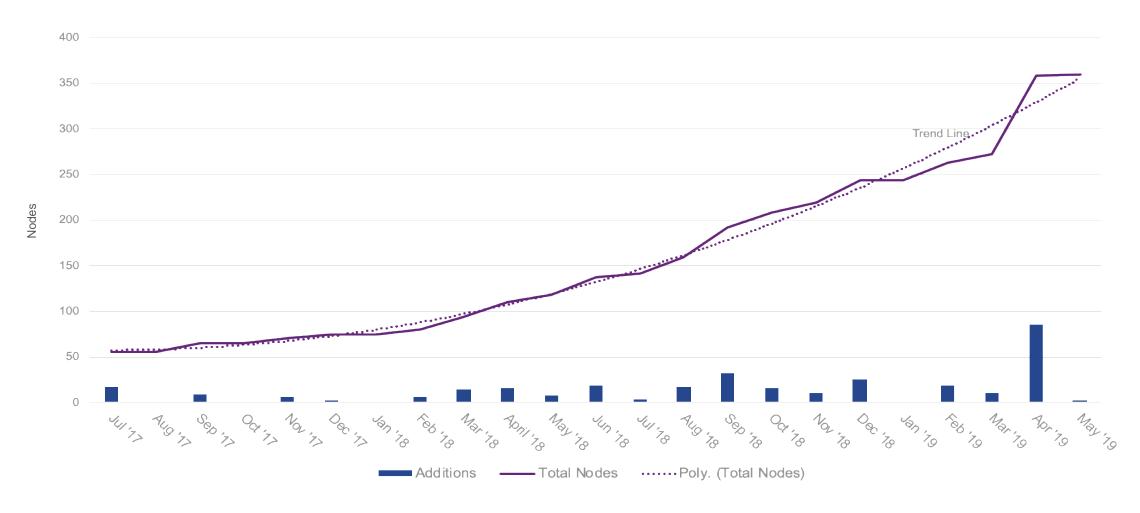
API Calls exceed 30 million/month.



# Data Fabric and Oxygen global adoption



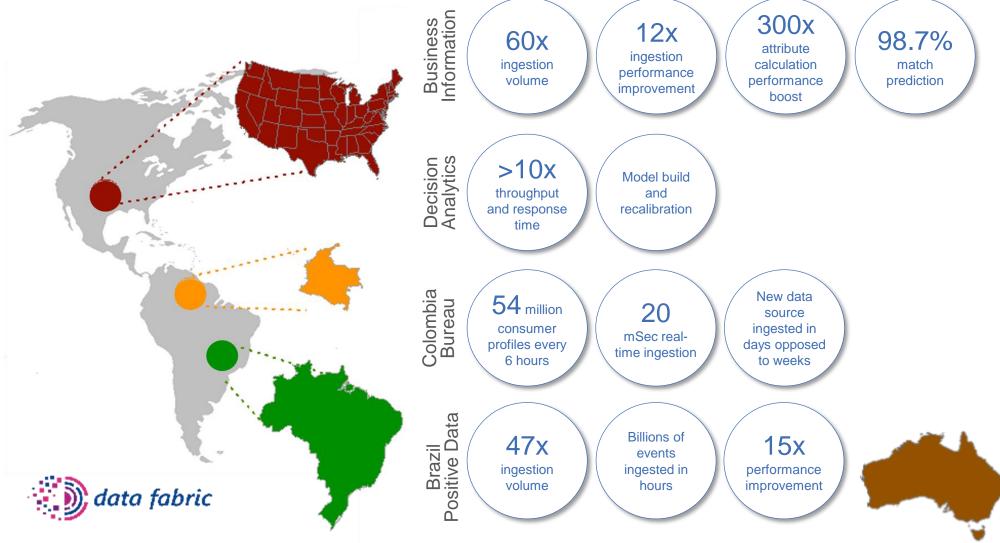
# Data Fabric - global cluster growth



Average node capacity – 24 vCPU, 256 GB memory and 40 TB storage Total Capacity (approx.) – 7500 vCPU, 80 TB memory and 12 PB storage



## Data Fabric – early results



## Speed to market

- US Decision Analytics pipeline configured and operationalized in 3 weeks
- Brazil positive data basic pipeline configured in 4 weeks or 2 Agile Sprints
- Colombia new data sources configured for ingestions, linking and profile creation in 3 to 5 days
- Australia SAS replacement MVP the overall processing time reduced from almost 2 days to a couple of hours



## Positioning Experian for the future

- Customer obsession introduce new data products that delight customers, rapidly and at a low cost
- Speed of execution bolt-on alternative data sources, link identities, generate insights through configuration, not coding
- Data accuracy improve data accuracy through stochastic, artificial intelligence/machine learning and high-throughput algorithms



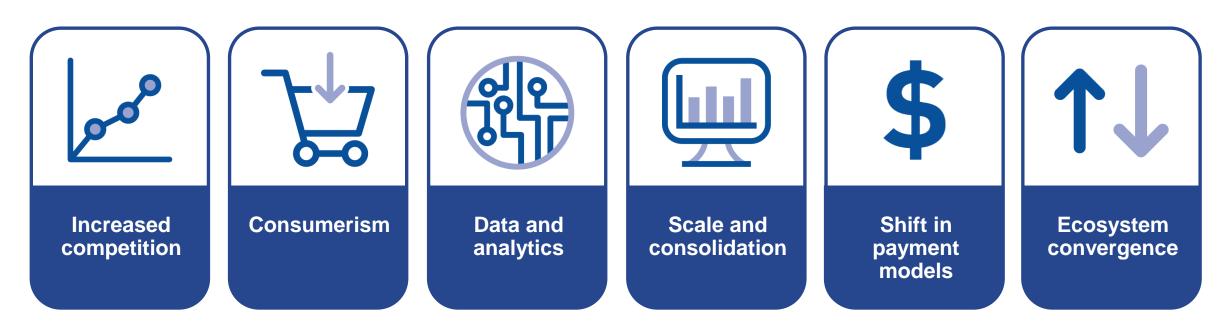






## US healthcare market context

The American healthcare system is ripe for disruption, and a number of trends are driving the need for payers and providers to evolve and change.



US healthcare spend, estimated at US\$3.65 trillion in 2018, represents ~18% of US GDP.



## Experian's role in healthcare

In many industries, we use data and analytics to drive efficiencies in credit, payments, and fraud pre-vention. Healthcare has encountered the same market dynamics, with Experian fulfilling similar needs...

#### Similar market dynamics



As healthcare advances along the maturity curve, Experian's expertise enables us to connect the ever-increasing volume of data and simplify healthcare for all...

Increasing software adoption and optimization

#### How we help in Health

We increase efficiencies across financial and administrative tasks to make smarter business decisions, boost bottom lines, and strengthen patient relationships



Verify and manage identity, reducing fraud and errors



Drive better decisions with our data and, unique to our health business, drive better processes with smart workflow software



Help our customers get paid by their customers, with an improved consumer financial experience

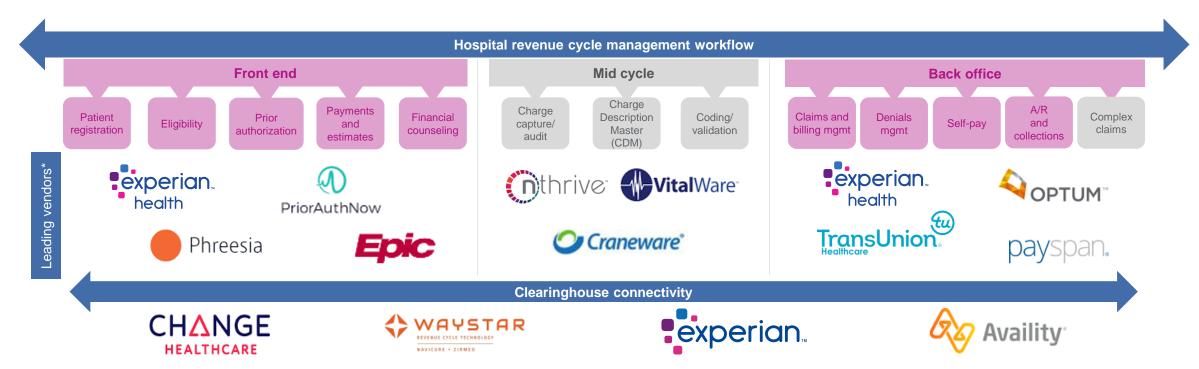






## Where we win

- Experian Health offers front- and back-end products primarily to large hospitals and medical groups; over 60% of all US hospitals use at least one Experian solution
- Our RCM solutions help providers manage the financial and administrative aspects of the healthcare journey
- No single competitor has capabilities at scale across revenue cycle (front mid back); incumbents and disruptors are working to move upstream to front-end to the start of the patient relationship)
- We are uniquely positioned with strong front-end patient access offerings to own the patient relationship from the beginning of the healthcare journey through to collections. Experian's broad capabilities will allow us to move even further upstream, as we leverage targeting and consumer (patient) acquisition expertise



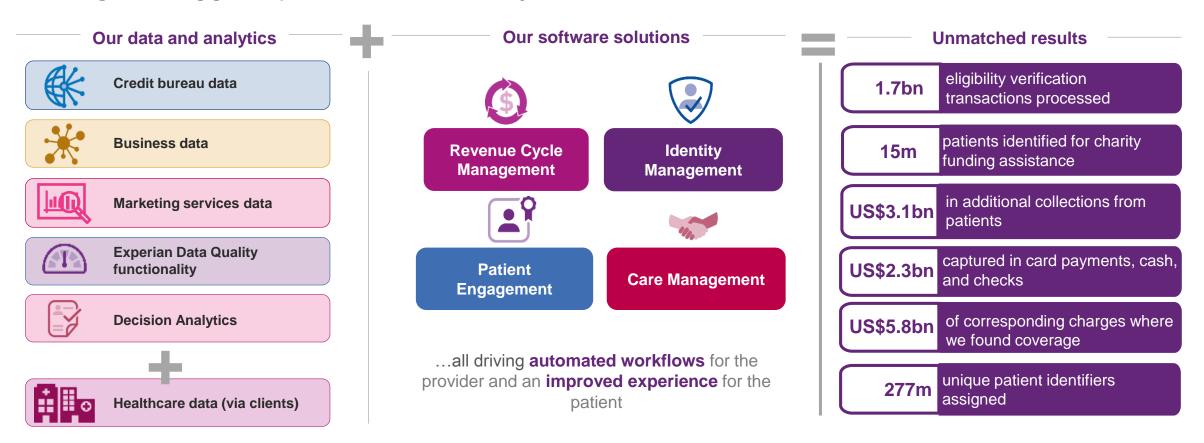






## The Experian advantage

It is the combination and quality of our data and our deep analytics capability where clients benefit from tremendous gains in intel and insight—driving greater productivity within health systems' workflows.



The right data can transform healthcare—from leveraging credit data to create a personalized, nearly invisible, payment experience for patients, to having consumer data insights into how and when to reach patients to improve the quality of care and their overall healthcare experience.



## Experian's unmatched view of the patient

With the backing of Experian's robust platforms and data assets, we can deliver the most comprehensive view of today's health consumer.

#### **Identity Management**

- Identity Verification and Matching
- Latest demographic information and address verification





**Patient Payment Profile** 

- Propensity to Pay incorporates payment data and verified patient incomes
- Payment Plans and Collections Strategy based on patient's unique financial position

#### Fraud

Precise ID and
 Digital Risk Score leveraged as patient logs on to patient portal

#### **Patient Engagement**

 Patient communication preferences and tailored messaging



#### **Social Determinants of Health**

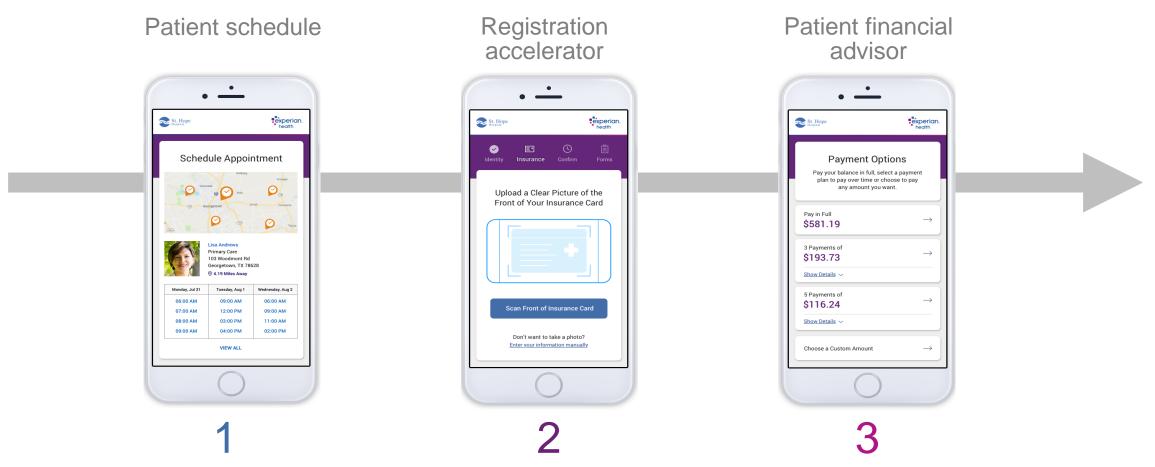
- SDOH qualifications leveraging all Experian data
- Does he live alone or have access to transportation?



 Leveraging ADT feeds (admission, discharge, and transfers) and scheduling capabilities for effective care coordination across delivery sites



## Delivering an improved consumer experience



Modular digital platform helps providers improve their customer experience—while helping consumers navigate the financial and administrative aspects of their health journey



## Experian Health: Vision for FY24

Experian Health's mission is to use data-driven insight to connect and simplify healthcare for all.

#### Where we are now...

- Leading products in both front-end and back office RCM
- Customer reach of over 60% of US hospitals

#### Where we are going...

- Value-added solutions fueled by data and analytics
- The patient identity connector in the health ecosystem
- Broader customer mix of **providers**, **payers**, **and pharmacies**

#### How we get there...



**Evolve**Core RCM Business



**Innovate** 

Offerings around Key Growth Opportunities



**Diversify** 

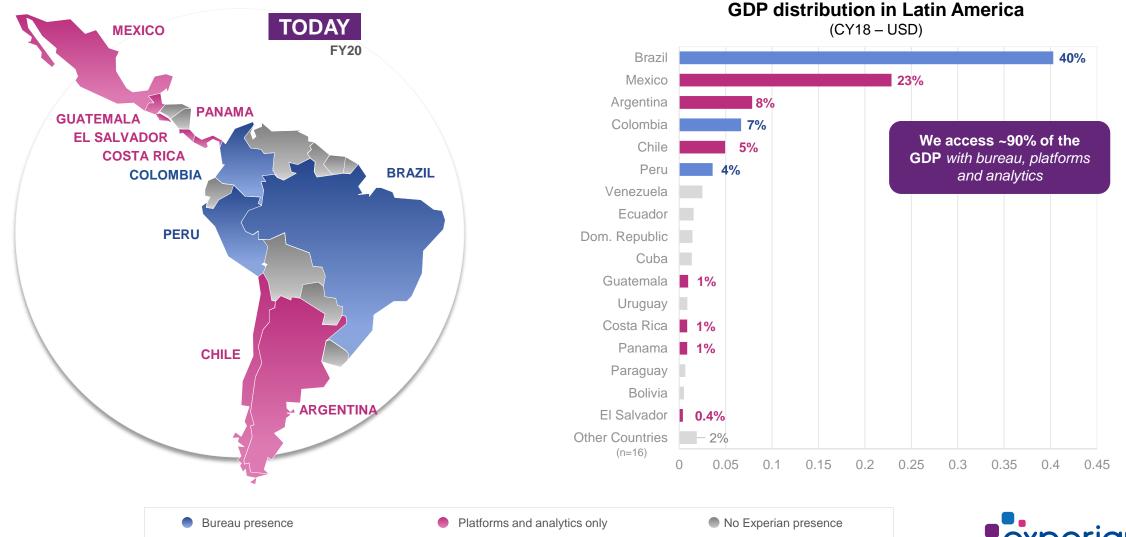
with Targeted Strikes in New Markets

All three components bring a heightened focus on consumerism and data – learning from the data we have and acquiring data assets to drive future innovation for our customers

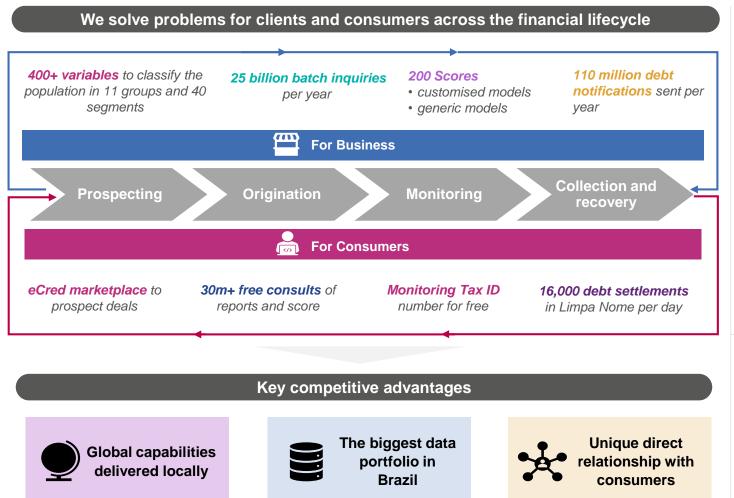


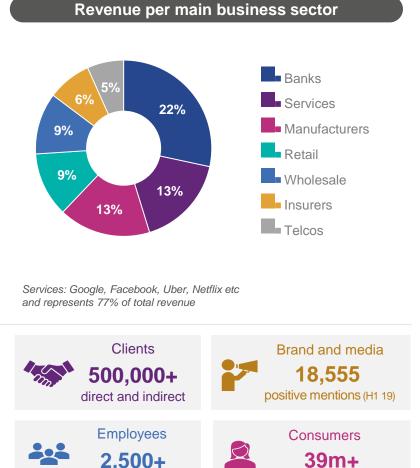


## We have a bold footprint over the main countries of Latin America



## Our business in Brazil has unique strengths





direct



enrolled in database

## Macro factors

#### Structurally improving economy

- Slow recovery (GDP to grow 1-2% in 2019), but important structural reforms are being implemented
- Pension reform approved (set to save US\$230bn to US\$340bn in 10y). Additional measures such as privatisations and tax simplification under consideration
- Consumer delinquency rate has halted
- Low interest rates (5.5%) and inflation (2.9%) leading to real earnings increase and faster consumer credit growth

#### Technology and analytics adoption

- Rapid adoption by businesses of all sizes, creating new growth opportunities
- Automation and fraud prevention in focus across many sectors – financial services, insurance, retail, telco and manufacturing
- Growing demand for **Software-as-a-Service** (SaaS)



#### Regulatory environment evolving

- Open banking discussions in early stages, targeting implementation by 2020
- Data protection law to be enacted by 2020, raising data security standards
- Central Bank seeking to improve competitiveness and efficiency with liberalising measures

#### **Engaged consumers**

- Broad adoption of digital & mobile (Brazilians spend 9h/day on internet, being 44% on mobile devices)
- Consumer behaviour changing as digital journeys become more prevalent: 36% of Brazilians (75m) are digital buyers, the highest share in Latam countries
- Growing expectations of frictionless and prompt services with blurring separations between online and offline experience





## Positive data impacts

#### Positive data overview

- Positive data is part of a broader Central Bank agenda to improve efficiency in the financial sector. In April 2019 the law was amended to replace the former opt-in system by opt-out.
- 4 companies (Serasa Experian, Quod, BVS and SPC) were accredited by the central bank in October 2019 to access positive data
- Financial Institutions register data transmission started in October 2019; historical data in November 2019
- Commercialisation expected to start in January 2019
- Telco, retail and others to start data transmission in H1 2020

#### More on central bank agenda

### Widen access to credit at more affordable rates

- · Positive data
- · Credit card receivables
- · Simple credit enterprise

## Simplify and modernise the banking system

- Regulatory sandbox
- Open banking
- · Instant payments

#### **Impacts**



2.5m SMEs expected to access better financial services at lower rates



Consumers with negative data: **63m**; Consumers with positive data: **>150m** 



Lower interest rates (current consumer annual averages: personal loans - 165%; credit cards - 346%)



Potential increase of credit-to-GDP ratio from 47% to 67% in 10 years



22.6m consumers expected to access **better financial services** at **lower rates** 



**Score improvement expected** for 75% of consumers



# Our strategic focus areas are our guide in everything we do to solve businesses' and consumers' problems

## We help businesses verify consumer identity

**In Brazil:** Identity fraud prevention platforms, transaction fraud prevention solutions and risk decision orchestrators

We **empower consumers** to control their data and improve their financial lives

In Brazil: Consumer debt settlement, personal information protection, credit marketplace

We make **credit and lending simpler and faster** for consumers
and businesses

**In Brazil:** Credit reports, credit scores, credit portfolio management, credit decision platforms



serasa experian. We remove complexity and increase transparency in underserved verticals

**In Brazil:** Asset registry, financial health solutions for SMEs



In Brazil: Marketing lists, audience clustering, targeting data enrichment and validation



# Growth strategy in Brazil

#### Winning with our core

- Leverage our brand, the strongest in the market
- Leverage our core existing data assets, most extensive in the market
- Leverage **global Experian solutions** (e.g. Ascend, PowerCurve, open banking platforms, Experian One)

#### **Expand and diversify the business**

- Expand existing businesses (e.g. Decisioning, Fraud, Targeting, EDQ)
- Create new growth avenues (e.g. Health)
- Bring new capabilities and competitive advantages



## Strengthen the relationship with consumers

- Strategic role in capturing data and consent to strengthen the core business
- Relevant revenue stream opportunity direct from the consumers
- Provide unique solutions to B2B (e.g. Limpa Nome)

**Digital transformation** 



## Spotlight on positive data

We are creating a unique product portfolio that will differentiate us in the market and allow our clients to extract the most of value from positive data

#### **Credit reports**

Enrich credit reports including additional positive data

#### **Credit scores**

Performance Improvement of our credit risk scores

#### Other analytics

Introduction of new analytics solutions

#### **New products**

Enable new product capabilities



More accurate scores



Fewer thin-files on database



Better coverage of unbanked population



More comprehensive data & credit reports



Best-in-class solution that empowers our clients to accelerate the value generation from Positive Data in combination with traditional negative data



## Spotlight on the Ascend platform

Ascend to support the expansion of our leadership in credit data and analytics

#### Our vision for the Ascend platform implementation in Brazil **Acquisition Management** Collections **New client** Credit assessment **Credit limit revision Delinquent Authorization** Pre delinguent **Negative record** Recovery onboarding **Ascend Analytical Sandbox** Module for unlimited access to Experian's databases and on-demand combination with diverse data, including from one's own databases **Ascend Portfolio Management** FY20 Module for the exclusive development of customised and interactive dashboards, enabling better portfolio analysis and business-leveraging decisions **Ascend Integrated Decisioning** Decisioning module integrated to the PowerCurve platform family, allowing the unification of the modelling and production environments and the safe automation of decision **Ascend Marketing Ascend Account Review Ascend Collection** Future Module for insights-driven approach Module to better manage accounts, minimize risk, deepen Module for evaluation of the propensity to repay and to segmentation and targeting relationships and maximize profitability recover when designing collection strategies **New features** Big data environment



## Spotlight on Decisioning

The strategy unfolds in three steps that will expand our market coverage



#### **Expand**

Grow footprint by delivering superior solutions to new markets / clients



#### Sustain

grow decisioning portfolio in existing key clients



#### Scale

new distribution channels to target broader market for specific solutions

# Replicate successful offerings, combine capabilities and expand portfolio

## Large banks

targeting focus areas / solutions

#### Telco

becoming the undisputed market leader

## Retail and payments

leveraging
success cases,
being part of
digital
transformation
efforts

## Medium banks

leveraging digital transformation efforts

# Offer innovative solutions and commercial models

#### **New verticals**

Insurance, CPG, Fintechs, Startups & Digital Businesses, Credit Unions, Utilities, Industry & Services, Public Sector

# Scale through targeted offerings

#### Regionals / Tier 3

Targeted, replicable solutions

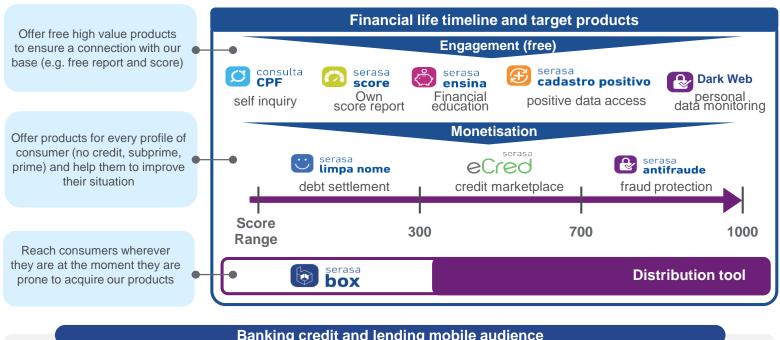
Experian One use cases



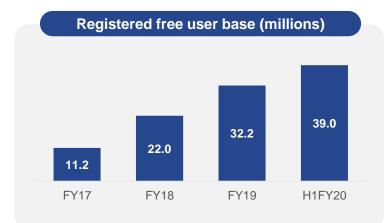
## Spotlight on our consumer engagement strategy

Through our mission, we deliver suitable products for each moment of customer's financial life

#### Mission: credit for all











Source: SimilarWeb (Apps not considered)



## Consumer Information Solutions – strategy for North America

US\$9bn market opportunity

#### MISSION: BE THE CONSUMER'S BUREAU



#### STRENGTHEN THE CORE

- · Maintain Industry-Leading Data Accuracy and Consumer-Friendly Support Services
- · Give Consumers More Control and Ability to Contribute
- · Continue to Strengthen Our Market Position



#### **GROWTH THROUGH INNOVATION**

- Deliver New Products on Ascend Data and Technology Platform
- Enrich the Credit Profile Report
- Unlock Synergy Growth through Clarity
- Build More Mortgage-Focused Products
- Evolve Prescreen and Pregualification competency to Digital Credit Marketing
- Establish New Models for Verification Services



#### **DELIVER ADVANCED ANALYTICS**

- Ascend Platform to Extend Our Lead in Analytical Consulting
- Provide Additional Data through our Alternative Data Strategy
- · Deploy Artificial Intelligence and Machine Learning



ENABLERS: Technology, People, Productivity and Acquisitions Driving Competitive Advantage and Margin Growth



# CIS North America business grows through three levers

# Core market execution

- Mortgage Profiles
- Core Profiles
- MLA Profiles



- Prequalification
- Ascend Marketing

### New products/ innovation

- Verification Services

   (similar to UK affordability)
- Data Integrity Services
- Ascend Data Platform
- Trended Data



# Inorganic investments (Acquisitions)

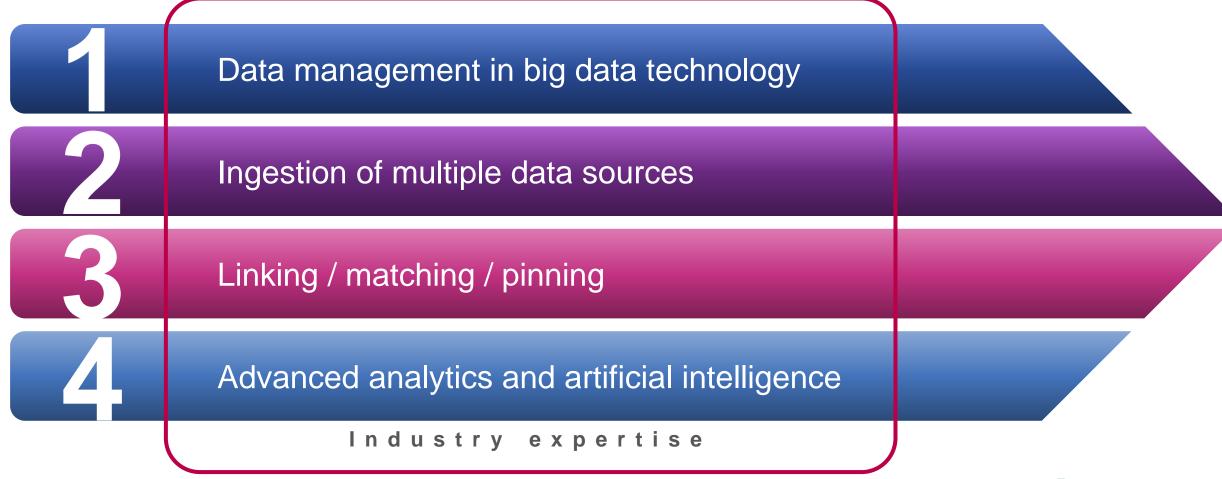
Clarity Services





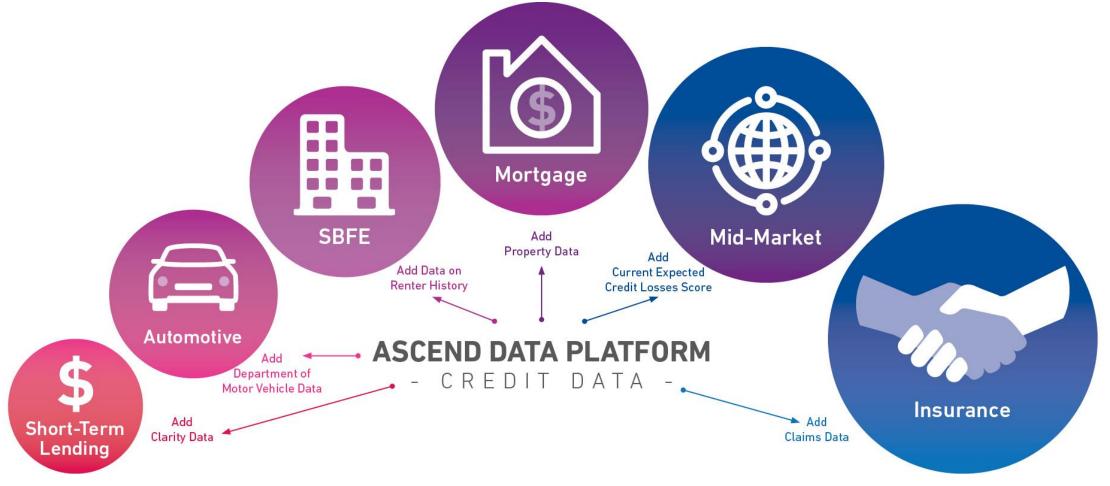
# Ascend data and technology platform allows us to stay one step ahead of the competition

We have established first mover advantage with a superior analytical sandbox and continue to add further differentiation





# Adding six additional data elements, four of which enable expansion to four strategic vertical markets





## Not only one product, FOUR Ascend products built on the platform



# We're already delivering high-value production workflow solutions for two major clients

A financial services company with more than:

- US\$30bn in revenue
- 33k employees
- 12m customers

#### Account review\*

#### **Results**

- ✓ Increased efficiency in account review by 97%
- ✓ Integrated decisioning environment

A consumer financial services company with more than:

- US\$18bn in revenue
- 16k employees
- 80m customer accounts

#### Marketing/prospecting

#### Results

- √ 12% increase in response rates with first campaign
- ✓ Achieved 120% of goal (accounts booked) with first drop of second campaign, far exceeding expectations
- ✓ Scheduled additional campaigns for Nov and Dec 2019



<sup>\*</sup>Account Review = Ascend + PowerCurve Integration

## Update on Ascend platform rollout

In market:





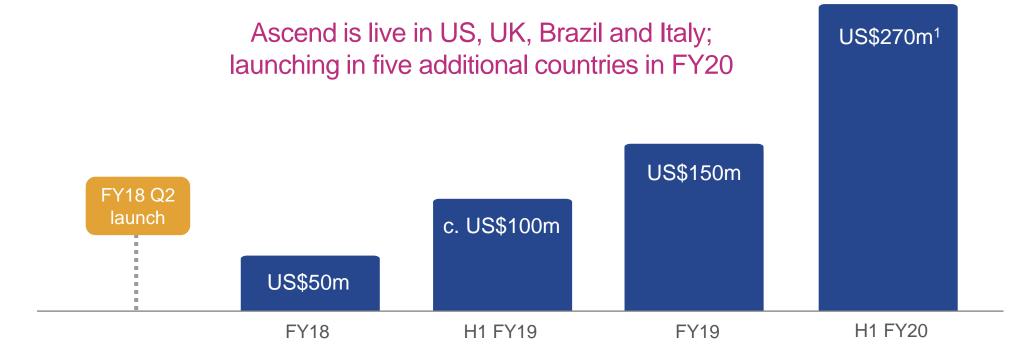






Future modules to come









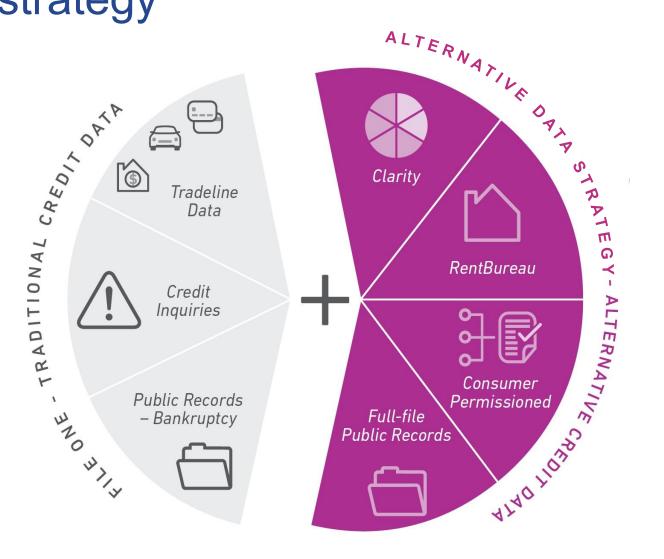
# Experian's alternative data strategy

#### Vision

Enable more complete credit decisions and greater access to credit for millions of Americans by integrating historically fragmented data sources to reduce the time, cost, and effort of leveraging alternative credit data in traditional credit decisions.

#### Solutions & capabilities

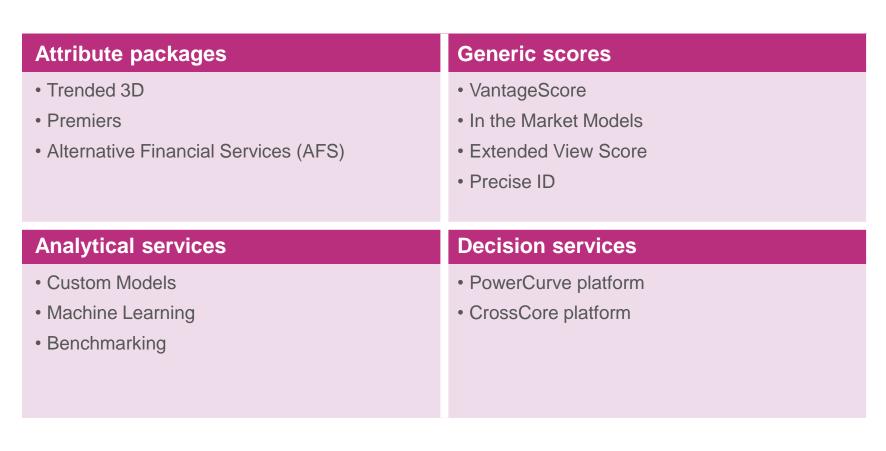
- Clarity Credit Attributes –
   Alternative Financial Services trade and inquiry attributes
- Clarity Fraud Solutions –
   Alternative Financial Services fraud and risk attributes
- Experian Lift Supplemental alternative data risk score
- RentBureau Rental history credit bureau
- Finicity User permissioned





# Artificial intelligence and machine learning opening client opportunities through advanced analytics differentiation with our unique data sets







## Ascend Sandbox use cases

## Existing

# Robust benchmarking

#### On-us vs. off-us

- Reject inferencing
- New accounts past performance metrics
- Portfolio performance vs. best-in-class

#### **Cross-sell relationship status**

- Wallet share analysis (balances and available spend)
- Relationship performance (accounts opened on-us vs. off-us)

# Credit risk strategy

## **Exploration of credit data** and attributes

- "Always on" strategy development / enhancement
- Market segment and new market targeting

# Model development, with or without AI/ML

- (Traditional) attribute development
- Machine learning models
- Custom models

### Future

# **Enterprise** risk modeling

#### **CECL** accounting

Compliance and reserve calcs

#### **BASEL**

Minimum capital requirements

#### **D-FAST and CCAR**

Stress testing

### **Marketing analytics**

- Forecasting and selection
- Campaign design
- Attribution and reporting



