



INDIA | MAY 25, 2023

# Digitizing the Indian economy with technology enabled finance through GSTN

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# AWS Investments in India

- Between 2016-2022, AWS invested \$3.7 billion USD (over 30,900 crore rupees), in AWS Asia Pacific (Mumbai) Region
- AWS further plans to invest \$4.4 billion USD (36,300 crore rupees), by 2030 in the new AWS Asia Pacific (Hyderabad) Region
- Both Mumbai and Hyderabad regions have 3 Availability Zones each
- AWS has setup 2 Local Zones Setup in Delhi and Kolkata (undergoing MeitY empanelment)
- Trained ~3 million individuals on Cloud skills
- Generate ~48k full time job opportunities annually till 2030

Most experience  
**16**  
years helping millions  
of customers

Customer obsession  
& innovation  
**200+**  
Services

Security & compliance  
**300+**  
Security Features

AWS India  
**2011**  
A local legal Indian entity that acts as a  
seller for AWS services in India.

**6**  
Availability Zones in India  
spanning across Mumbai and  
Hyderabad Regions

AWS India Region  
**2**  
2016: Asia Pacific (Mumbai) Region  
2022: Asia Pacific (Hyderabad) Region

**96**  
Availability Zones across 30  
launched Regions globally

MeitY Empaneled & STQC Audited  
**2017**  
Mumbai region got MeitY empaneled in  
2017

Powering the world's largest vaccination drive and facilitated seamless appointment scheduling, verification, and certification for Covid-19 vaccination of 130+ crore Indians



# Innovation at scale

Strengthening India's healthcare system with no-cost eHealth services in rural areas

Over 6 mil consultation, scale from 150K consultations per day to over 500K consultations

Rolled out in 28 states, training over 30,000 doctors and paramedics



सत्यमेव जयते

SATYAMEVA JAYATE



स्वास्थ्य एवं  
परिवार कल्याण मंत्रालय

MINISTRY OF  
**HEALTH AND  
FAMILY WELFARE**

eSanjeevaniOPD  
STAY HOME OPD

# Building in India for the world

Migrated more than 60 million files to AWS and scaled to support 12 million citizens

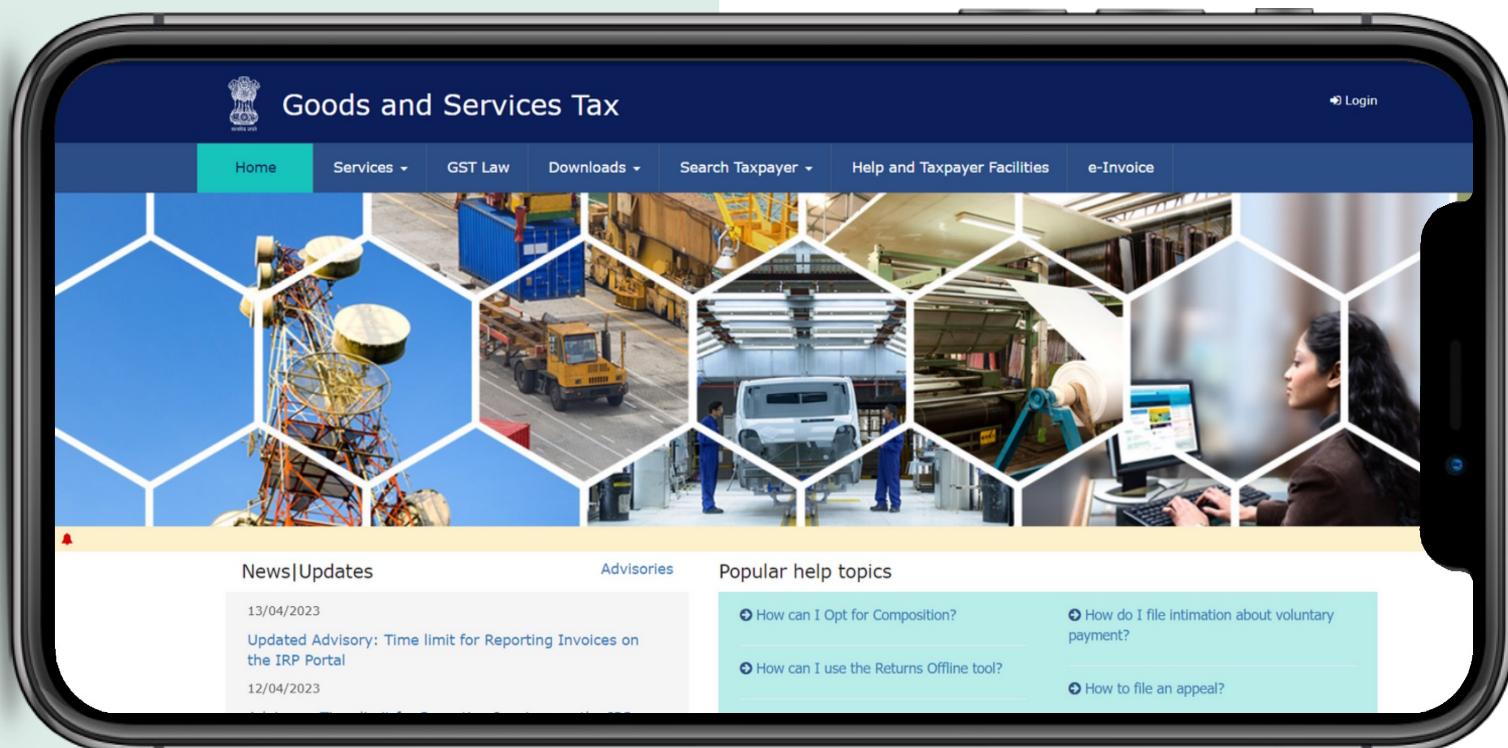


# GSTN

A Journey of Transformative Innovation

# GST

## A Change in India's Indirect Taxation Landscape





GOODS AND SERVICES TAX NETWORK  
(A Government Enterprise)

# Herculean challenge of rebuilding a ship as it sails the high seas



# How GST Transformed the Indirect Tax System in India

Benefits for Common Person, Taxpayers and Governments



Level playing field for all Taxpayers



Fewer Compliances



All Indirect Taxes under one umbrella



Helped reducing prices of various products and services



Customer is the beneficiary of increased competition



Free movement of products and services across the country



Revenue augmentation due to fixing the leakages



**Learn and adopt best  
Global practices**



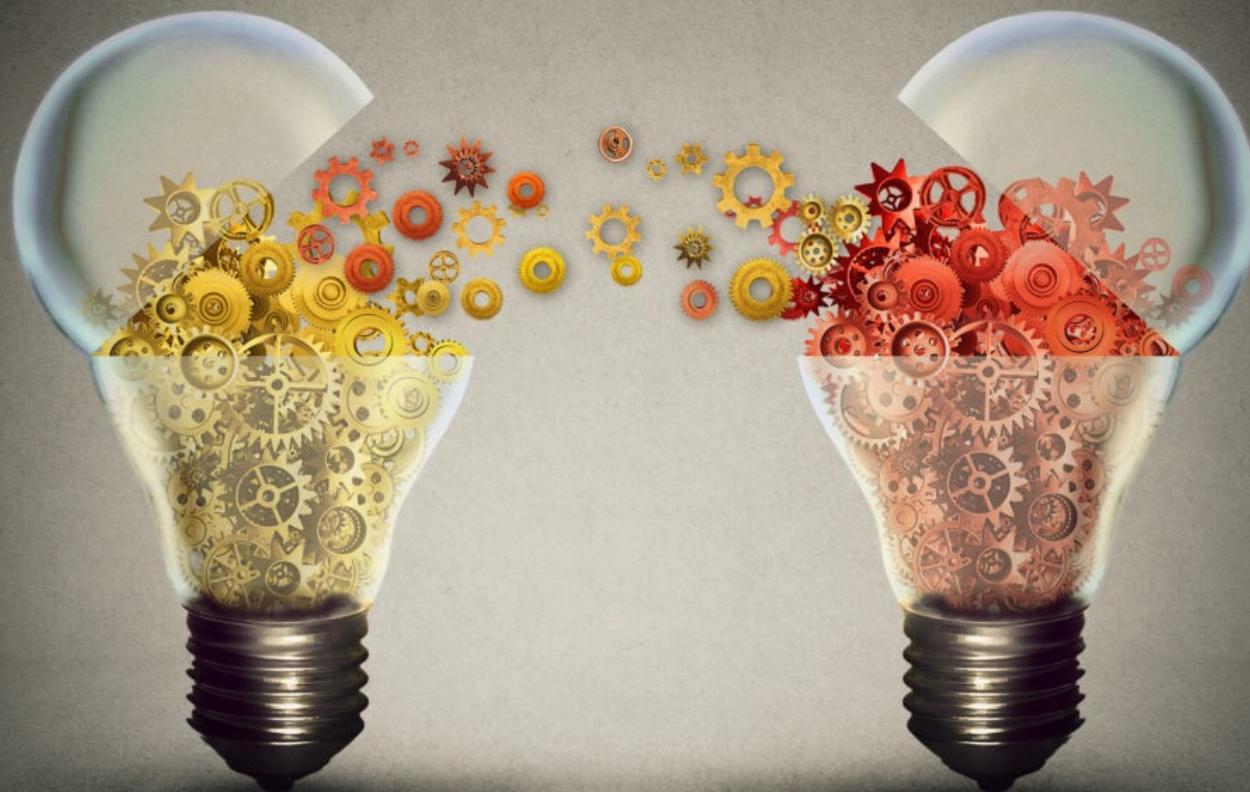
- Build Redundancy
- Ensure Resilience
- Maintain Data Integrity



GOODS AND SERVICES TAX NETWORK  
(A Government Enterprise)

# GST: Partnership Creation

## Adopting & Scaling Successful Models



## Fostering Innovation and Efficiency





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# GST

## Collaboration with Fintech Cos & Govt. Bodies



GSPs

- 01 GST SERVICES
- 02 FINANCIAL SERVICES
- 03 BANKING SERVICES
- 04 INSURANCE
- 05 LOAN
- 06 G2C SERVICES
- 07 TRAVEL

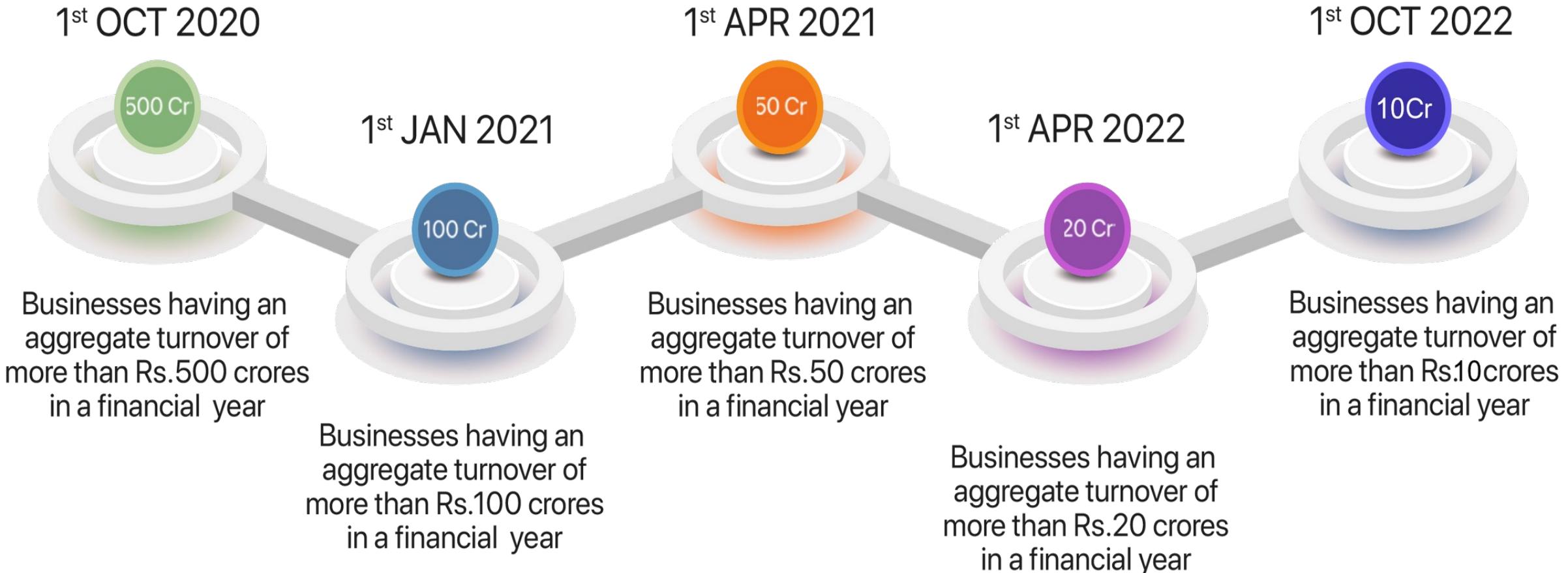


MapmyIndia™

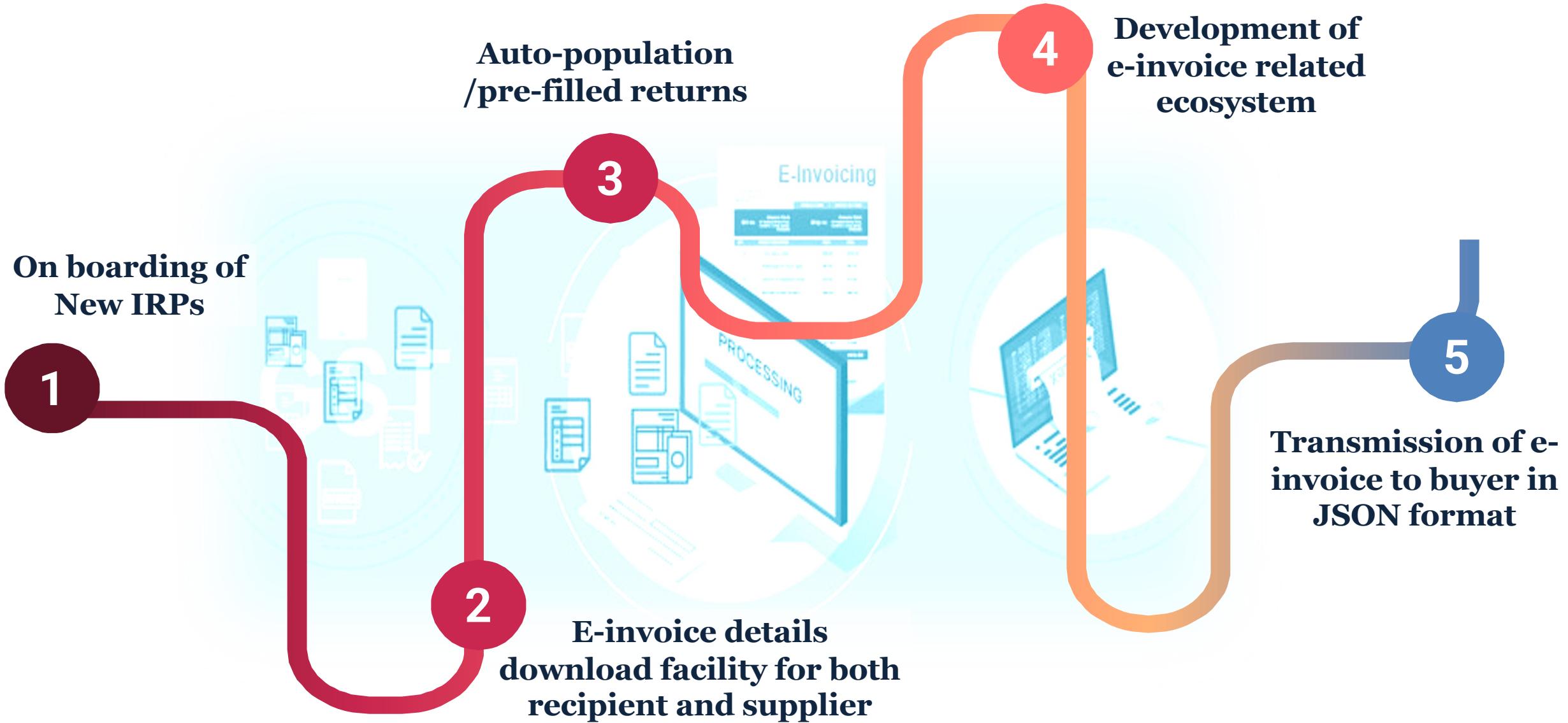


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# E-Invoice Journey



# e-Invoice: Way Forward (Pre-filled Returns)





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A large, semi-transparent graphic is positioned in the background. It features a globe on the left, a map of India in white on the right, and various financial icons like rupee signs, a calculator, a pie chart, and binary code. The word 'GST' is overlaid in a large, bold, blue font on the map of India.

GST

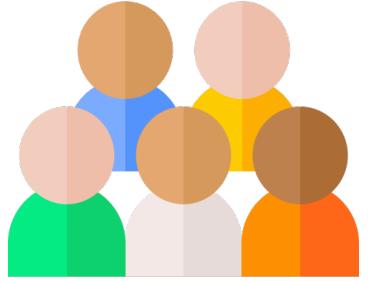
A World-class  
public digital  
model to be  
emulated across  
the globe



GOODS AND SERVICES TAX NETWORK  
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# GST Statistics

(As on 31<sup>st</sup> March 2023)



**1.39 Cr.**  
Registered Taxpayers



**107.95 Cr.**  
Total Return Filed



**353.53 Cr.**  
E-way Bill



**1580 Cr.**  
Total Invoice Upload



**56.49 Lakh Cr.**  
Payment Through the Portal  
(Excluding IGST on Imports)



**28.18 Cr.**  
Total No. of Payment Transactions



**24.85 Lakh**  
Highest Returns  
Transactions in a day



**9.55 Lakh**  
Highest Payment  
Transactions in a day



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(A Government Enterprise)

Move  
over  
Jugaad...



Time for World-class  
Public Digital  
Infrastructure



# **Targeted Intervention**

# **Business Intelligence & Fraud Analytics (BIFA)**

## **Methods Used for Development of Models**



## **Artificial Intelligence and Machine Learning (AIML) algorithm based**



# Rule based and feedback on modus operandi prevalent in the field



# Network Graph based visualization for holistic view of value chain (ITC/Refunds)



GOODS AND SERVICES TAX NETWORK  
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# GST: Creating Self-sustaining Ecosystem Driving India's Growth



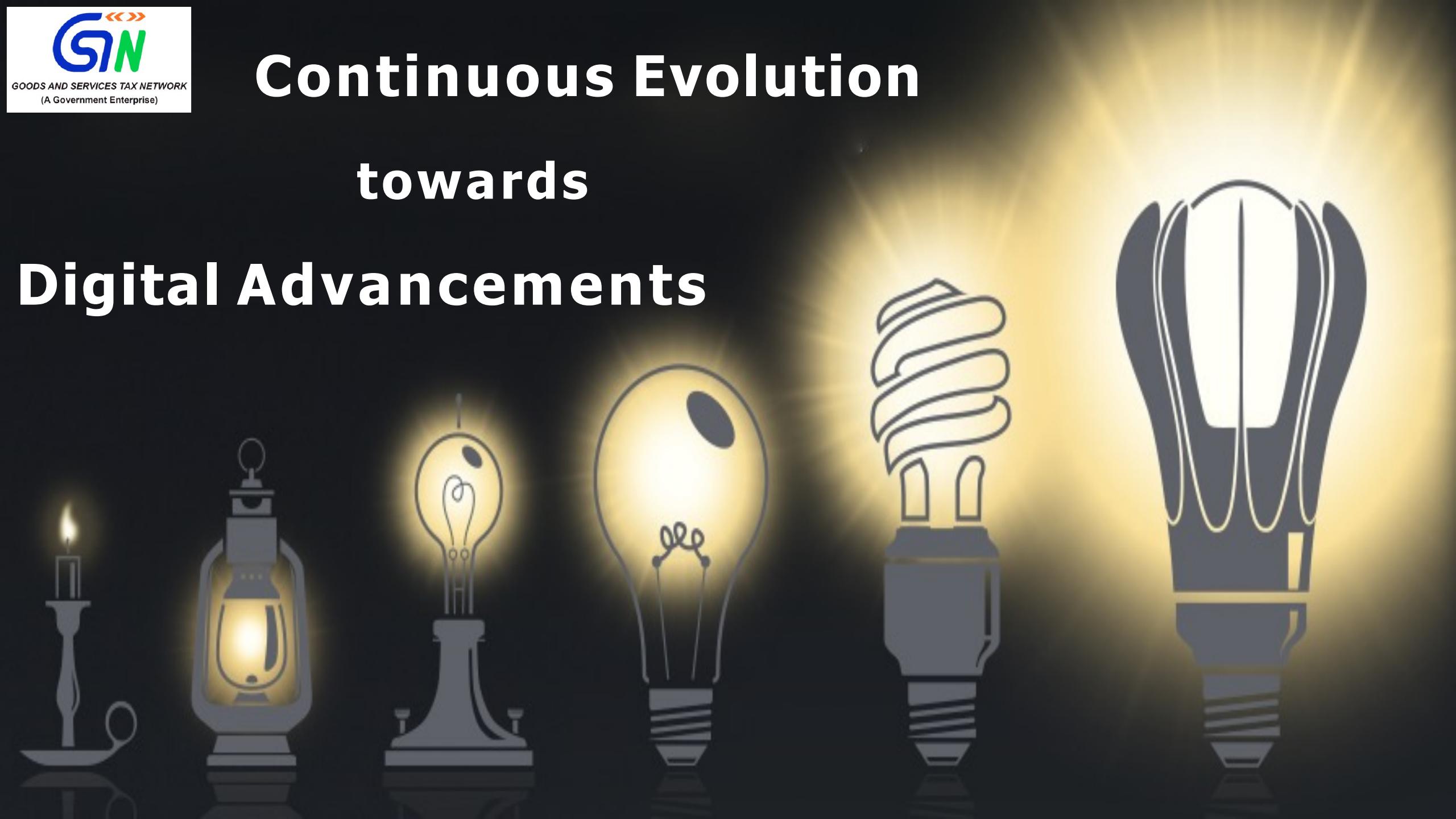


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# Continuous Evolution

towards

# Digital Advancements

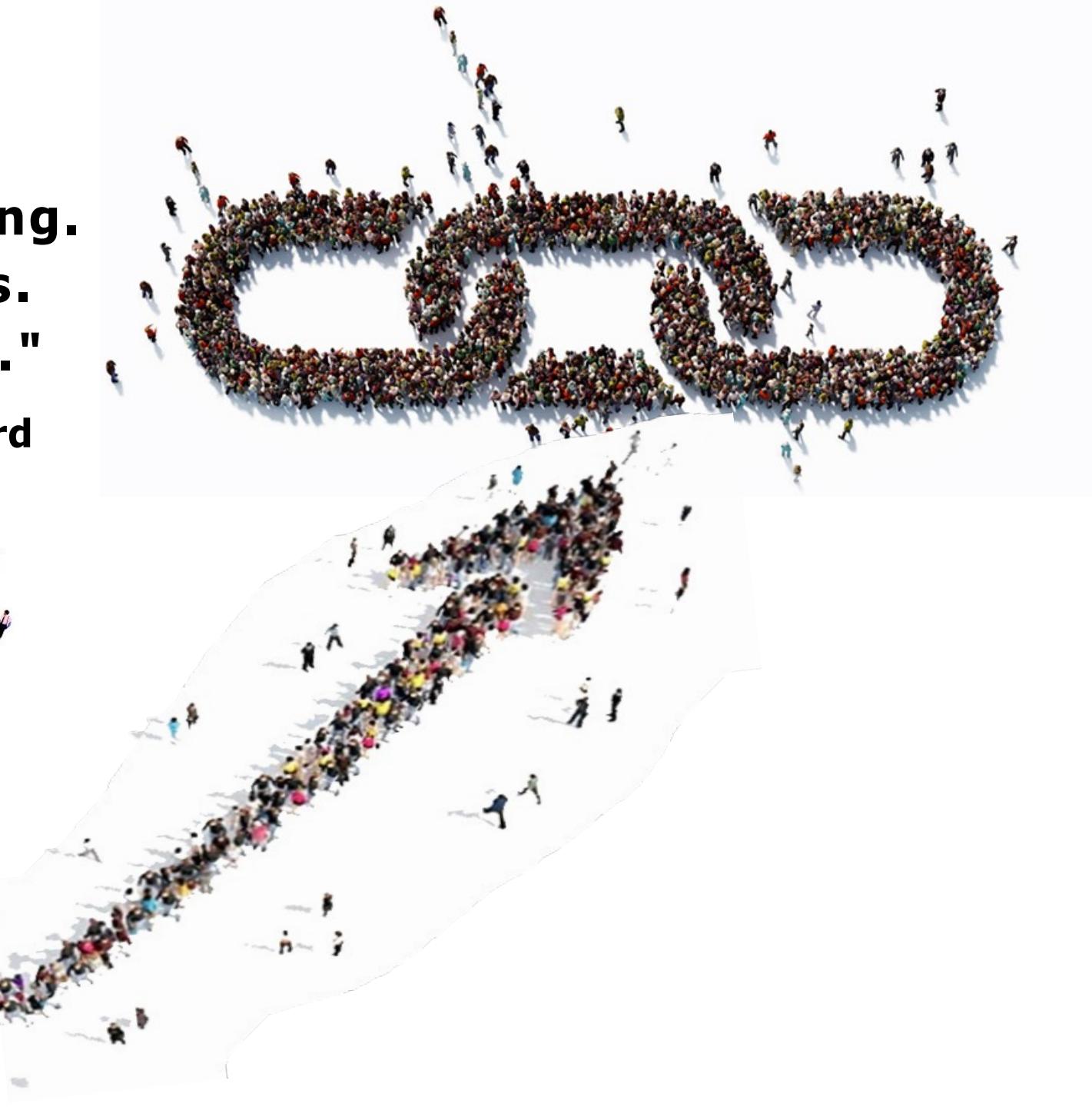




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**"Coming together is a beginning.  
Keeping together is progress.  
Working together is success."**

- Henry Ford



# Why customers choose AWS

## Most experience

**16+**

years helping millions  
of customers

## Global reach & high availability

**99**

availability zones spanning 31  
geographic regions

## Security & compliance

**300**

security  
features

## Customer obsession & innovation

**200**

service offerings

## Capable of delivering up to

**256,000** IOPS/  
instance

with consistency

## Improve TCO

**129**

price reductions since 2006

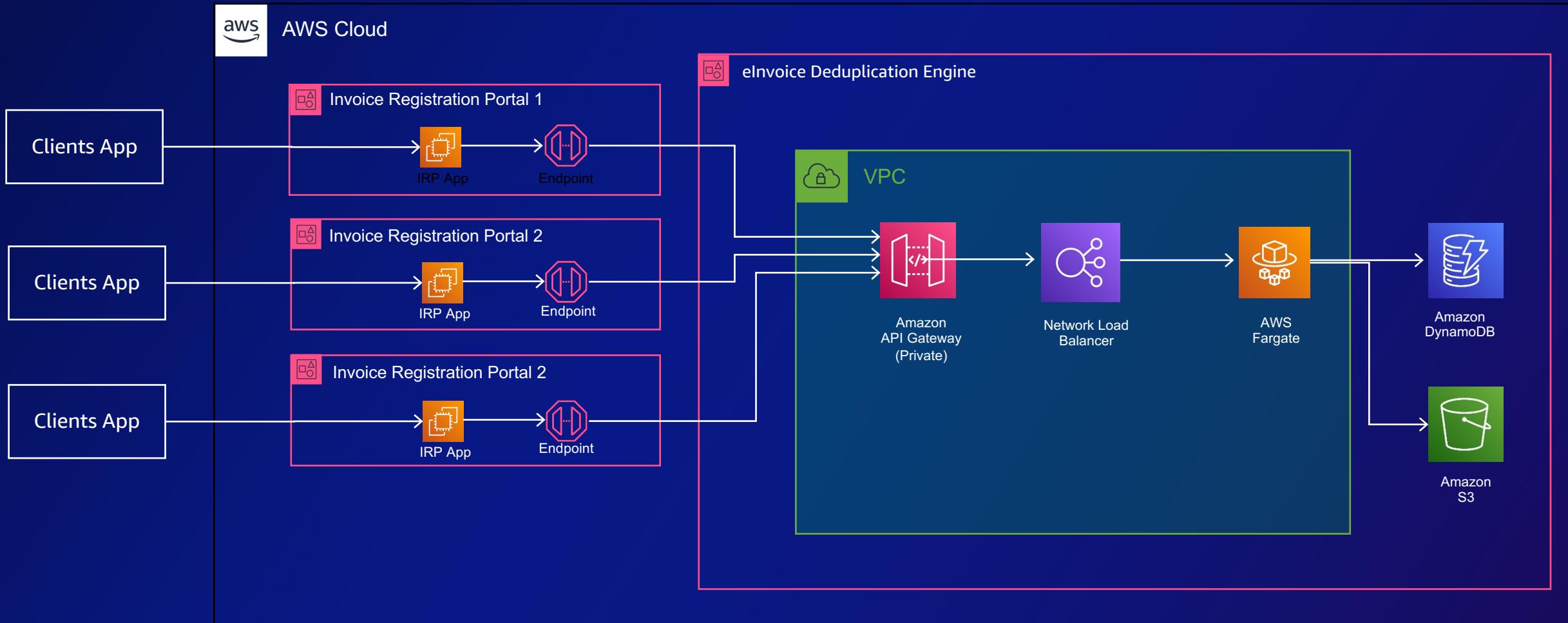
## Machine learning

**81%**

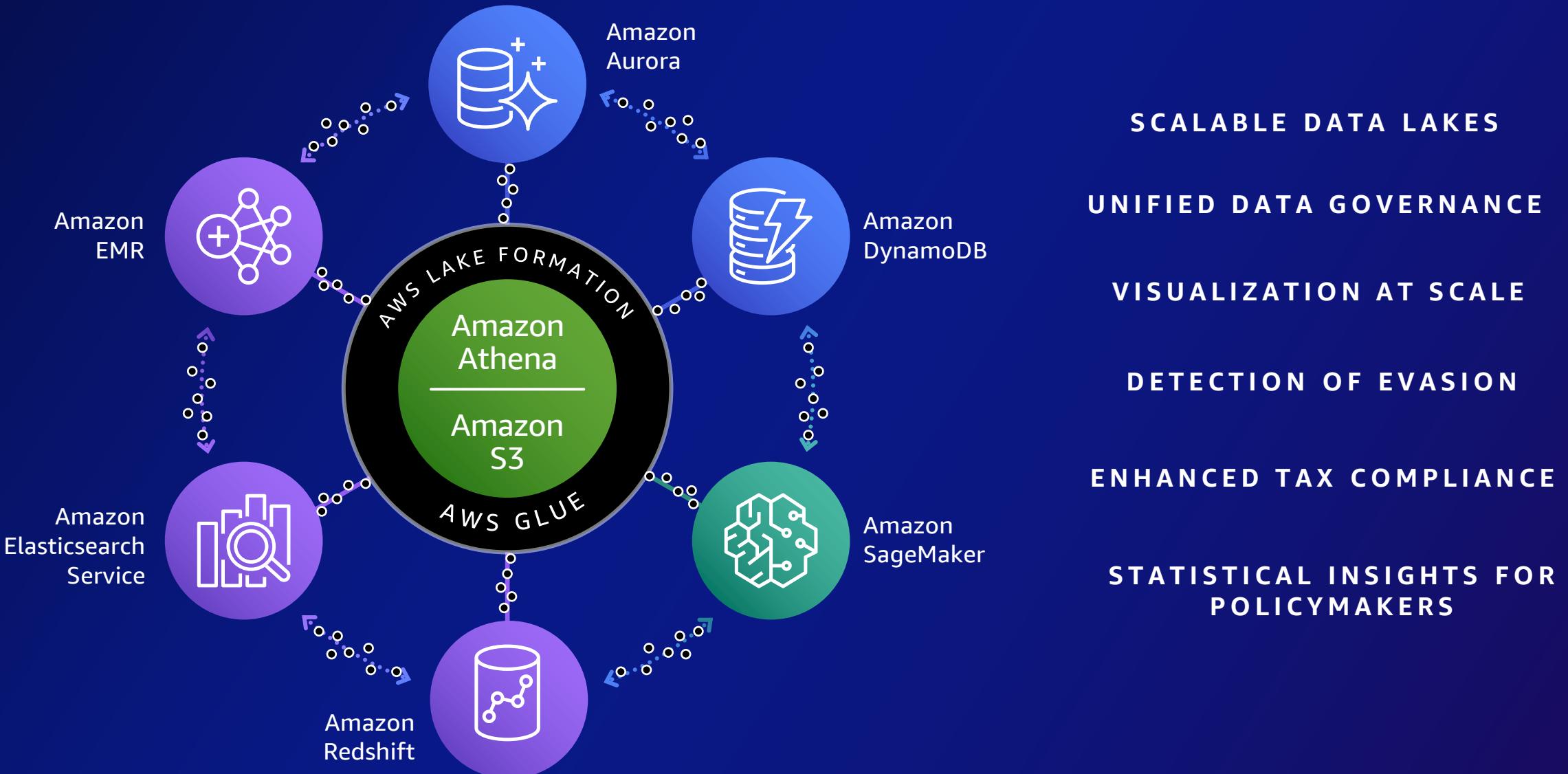
of all deep learning on cloud is running on  
AWS<sup>1</sup>



# E - Invoice Deduplication Engine – Powered by AWS Serverless

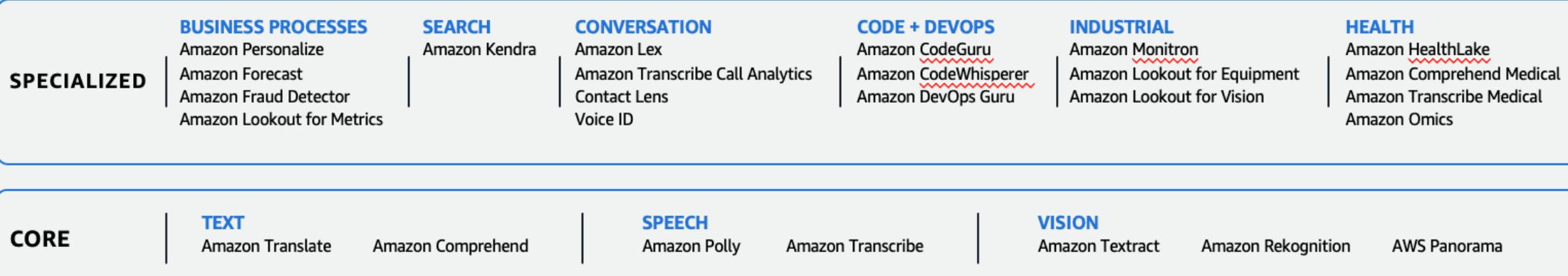


# AWS Data Analytics – Enabling Data Driven Government



# AWS ML Capabilities - Building ML driven Modern Business Intelligence and Fraud Analytics

## AI SERVICES



skillbuilder.aws 

# Your time is now

## Build in-demand cloud skills your way



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# Thank you!



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