

Digital transformation is core to enabling growth across industries







DIGITAL JOURNEY OPPORTUNITY





Operating Systems
Enterprise App Suites
Hardware Support
Network Support

TRADITIONAL

DIGITAL AT SCALE Data Driven Enterprise
Modern Tech Adoption
Connected Ecosystems
Business Outcomes

Cloud & Virtualization

Mobile Apps

BI & Analytics Dashboards

Identity & Access Management

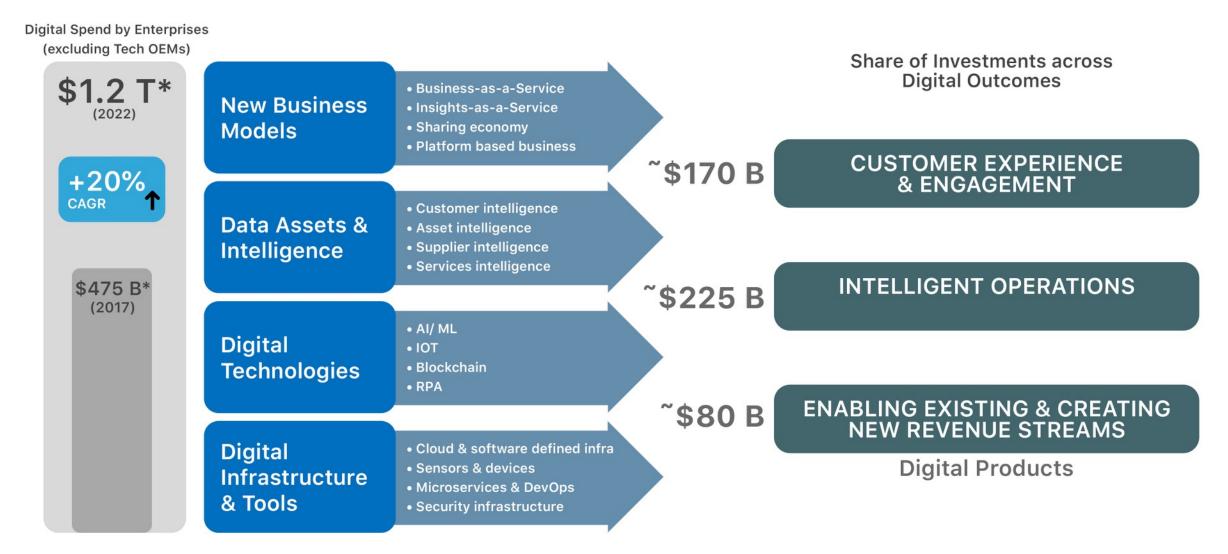
IT MODERNIZATION



SOA/ Microservices
DevOps & Security
Data Lake & HCI
Platform Engineering

Enterprises are investing more on digital for improved business outcomes



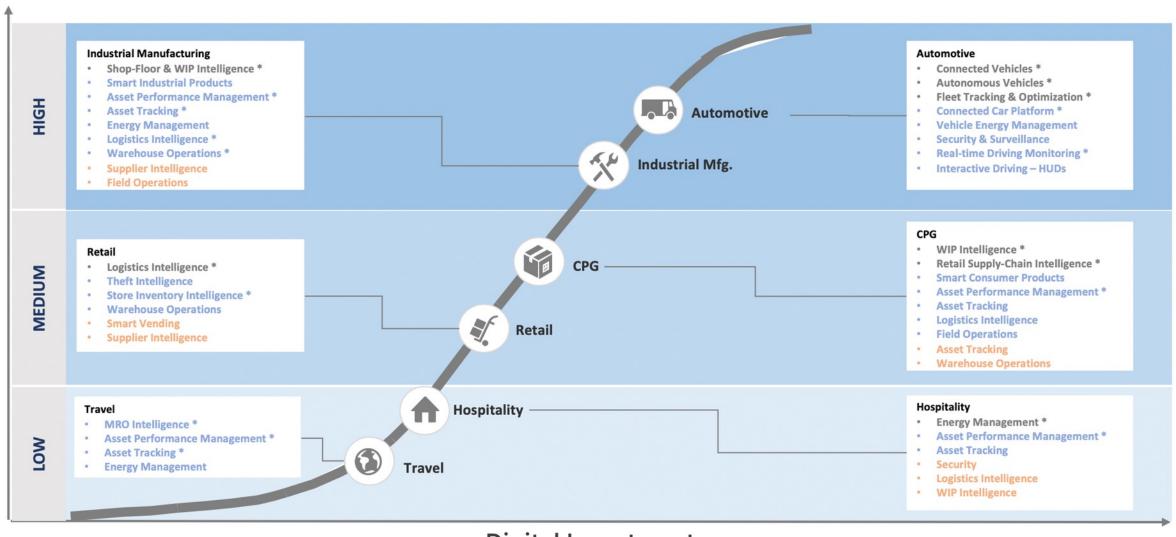


^{*}includes investments in modern data driven technologies to help improve customer experience, drive higher order operational efficiencies and building new digital products & services; Includes R&D investments using digital technologies from both asset heavy & asset light industries; Digital technologies & tools such as AI/ ML, RPA platform, IOT platform, Data & analytics tools, software development platforms, Data & analytics tools, software development platforms; Portions of Datacenter required to support digital use cases; Investments in digital focused M&A and alliances; Setting up of COEs and digital labs; People cost (people employed to run digital initiatives) + stock options cost

Adoption Stage

Across industries, digital investments are giving rise to next-gen applications





Digital Investments

DIGITAL INVESTMENTS

MEDIUM LOW

* Indicates Wide Scale Deployments

Next-gen applications require massive skill transformation in digital skills such as AI/ML and Big Data



WW JOB OPENINGS AS OF DECEMBER 2018

ют 25,000+

AI/ML

58,000+

CLOUD

81,000+

DATA SCIENCE

37,000+

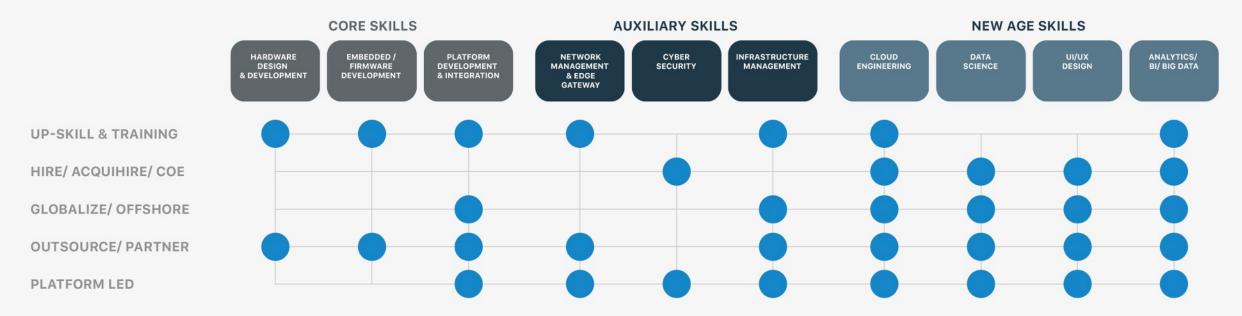
INFO SECURITY

10,000+

RPA

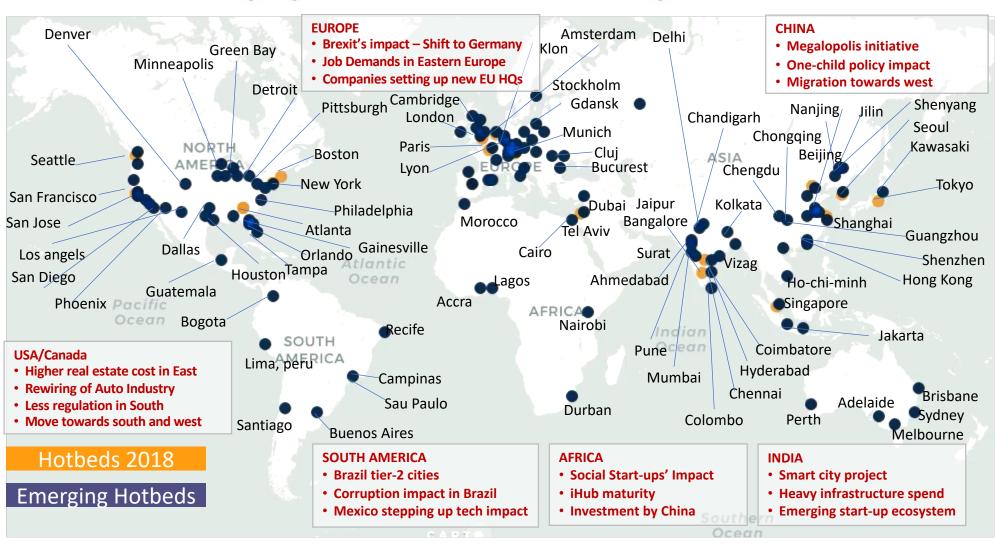
55,000+

WW JOB OPENINGS AS OF DECEMBER 2018



Apart from established locations, many tier-2 destinations are also emerging as hotbeds for AI and Big Data talent





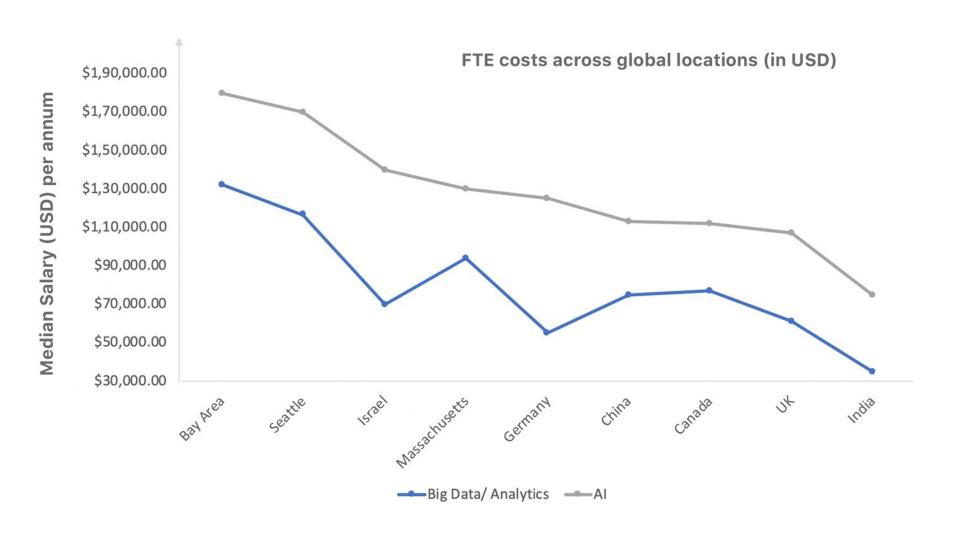
130+
Talent Hotbeds

~20%
Of Al Talent is employed across tier-2 locations in 2018

37
Countries will be home to 1Mn Machine Learning developers by 2030

Cost and talent are the two key drivers for growth decisions





Average FTE for talent (AI & Big Data/Analytics) in Silicon Valley Bay Area costs ~50% more than that of talent in Massachusetts

>15-20%
Globally, Machine Learning talent costs around 15-25% more than Big Data/Analytics talent

For both AI and Big Data/ Analytics, talent in India costs only around a third of the talent in Bay Area

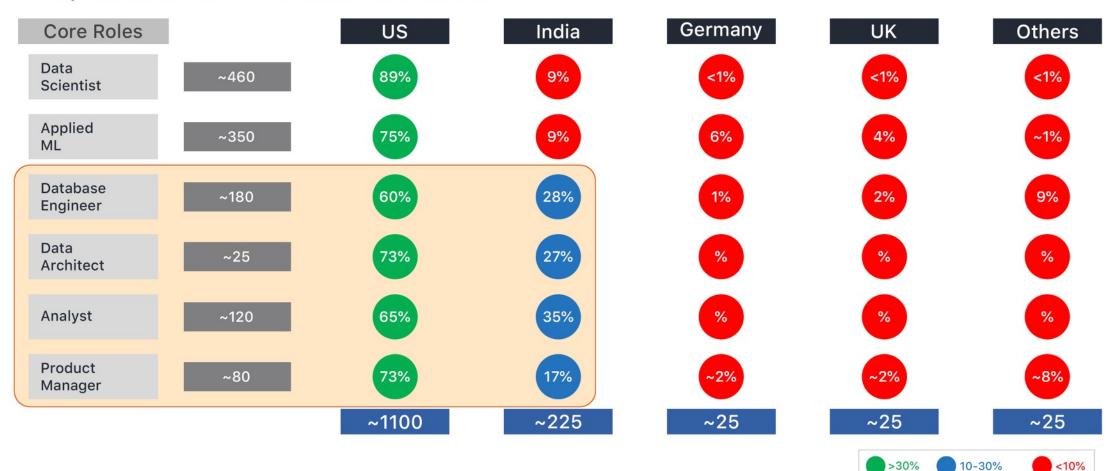
Digital-first companies like Amazon have started putting some key roles outside the US



FORWARD FOCUS - Amazon is planning to invest heavily in retail (Amazon Go), delivery (Prime Now) and AWS UNIQUE STRENGTH - Amazon has inculcated AI into almost every product line and business solution

AI/BIG DATA HEAD TALENT OVERVIEW

TOTAL HEADCOUNT ~1500



Other large enterprises like Samsung are exploring various geographies to build their skill base



10-30%

<10%

FORWARD FOCUS - Samsung plans for AI integration and internet connectivity in all its products by 2020

UNIQUE STRENGTH - Knowledge about connections between machines, applications, and customer demands in IoT

TOTAL HEADCOUNT ~2200 AI/BIG DATA HEAD TALENT OVERVIEW Roles South Korea US India **Others** Poland Data 32% ~550 29% 16% 6% Scientist **Applied** 33% 36% ~500 8% ML Database 31% ~180 23% 26% Engineer Data 46% ~60 35% 0% Architect Analyst ~100 14% 23% 9% 33% Product 29% ~40 13% 39% 0% 18% Manager ~770 ~300 ~400 ~200 ~500

Enterprises are exploring various models to build digital capabilities



Although external partnerships do help in jump-starting the process, a CoE can help a company solve the talent challenge for the long term

Time to initiate

Talent

(attract, retain, develop)

Innovation

(agility, pace and spread)

Collaboration & Governance (Inter BU, functional, IP, Data & security)

Partnerships

Partnerships with service providers







Federated model

Different teams and business units drive individual efforts









CoE Establishment

Specific competency center within the organization to help all business units and functions

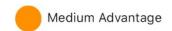














Key activities across the lifecycle of a CoE







- Design principals
- Location of CoE
- Use Case Prioritization framework
- Org structure
- Talent strategy
- Roles and responsibilities
- CoE persona
- Partnership needs





- Operating model
- Hiring and training
- Partnerships
- Collaboration with BUs





Governance



CoE-BU integration

- Transition to BUs
- Collaboration on new areas
- Joint initiatives

CoE maturity model that can be a guideline in its transformation



	Maturity Level	Stage 1	Stage 2	Stage 3	Stage 4
	P&L Ownership				Business Leadership
					External Customer Connect
					Company Brand establishment
	Platforms and Assets			Technology Leadership	Technology Leadership
Increasing Maturity	Reusable Components		Domain Expertise	Domain Expertise	Domain Expertise
	Shared Service Capability	Internal Customer (BA and MA) connect			
		Al and ML Technology Competency			
		CoE Culture	CoE Culture	CoE Culture	CoE Culture
		Employer Brand Establishment	Employer Brand Establishment	Employer Brand Establishment	Employer Brand Establishment

Zinnov helps enterprises set up and operate CoEs to groom talent and drive innovation





Insights around:

- Hotskills
- Location hotbeds
- Peer landscape
- Industry trends
- Key partnerships
- University competence



© CoE Design

Advisory services to design the CoE:

- Charter and focus
- Location/Locations
- Location personas
- Organization structure
- Roles and responsibilities
- Use Case prioritization framework
- Talent strategy
- Partnerships



B

© CoE governance

End-to-end management

- CoE maturity model
- KPI definition
- CoE governance management
- Partnerships governance dashboards and management
- Strategic reviews and realignment

